

PLEASE RECYCLE

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IF THIS IS NOT 24"x36", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

GENERAL NOTES

1. THE SCOPE OF THE PLUMBING WORK CONSISTS OF WORK SHOWN ON THE PLANS AND AS DESCRIBED IN THE SPECIFICATIONS. IN CASE OF CONFLICT, THE SPECIFICATIONS SHALL GOVERN. PROVIDE A COMPLETE & FUNCTIONAL SYSTEM.

2. PERFORM ALL WORK IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND PAY FOR ALL FEES REQUIRED BY AUTHORITIES HAVING JURISDICTION. PAY ALL ROYALTIES OR FEES REQUIRED IN CONNECTION WITH THE USE OF PATENTED DEVICES AND SYSTEMS.

3. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR GENERAL CONSTRUCTION INCLUDING LOUVERS, CONCRETE EQUIPMENT PADS, FLASHING DETAILS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM ELEVATIONS. LOCATE DEVICES SO THAT THEY DO NOT CONFLICT WITH GENERAL CONSTRUCTION (WAINSCOT, DOOR HARDWARE, ETC.) NOR WITH ELECTRICAL SYSTEM (LIGHT SWITCHES, SPEAKERS, OUTLETS, ETC.).

4. COORDINATE WITH OTHER TRADES:

A. REFER TO ELECTRICAL DRAWINGS AND CONFIRM ELECTRICAL CHARACTERISTICS SHOWN FOR PLUMBING EQUIPMENT (VOLTAGE, PHASE, HZ, ETC.) MATCHES THAT OF THE PLUMBING EQUIPMENT PROVIDED.

B. PROVIDE ADEQUATE CLEARANCE OF PLUMBING WORK FROM ELECTRICAL EQUIPMENT. MAINTAIN MINIMUM ACCESS OF 6-INCHES ABOVE CABLE TRAYS AND 18-INCHES TO THE SIDE OF CABLE TRAYS. CLEARANCE ABOVE CABLE TRAY SHOULD BE 1/2 THE WIDTH AND NOT LESS THAN 6-INCHES WHEN RUNNING PARALLEL WITH CABLE TRAY. AND NOT LESS THAN 6-INCHES WHEN RUNNING PERPENDICULAR TO THE CABLE TRAY.

5. ARRANGE EQUIPMENT SO THAT ACCESS CLEARANCES INDICATED BY DRAWINGS, REQUIRED BY CODES, OR RECOMMENDED BY MANUFACTURER ARE PROVIDED.

6. INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ACCEPTED SUBMITTALS. INSTALL MATERIAL IN PROPER RELATION TO ADJACENT CONSTRUCTION AND WITH UNIFORM APPEARANCE FOR EXPOSED WORK.

7. THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT AND PIPING WILL BE INSTALLED AND REPORT ANY CONDITION THAT PREVENTS THE PROPER INSTALLATION OF THE PLUMBING WORK.

8. PROVIDE A SINGLE SUBMITTAL OF ALL PLUMBING EQUIPMENT AS SPECIFIED. AS A MINIMUM, SUBMIT PRODUCT DATA FOR ALL EQUIPMENT AND FIXTURES LISTED IN ACCOMPANYING SCHEDULES FOR APPROVAL.

9. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

10. ARRANGEMENT OF SYSTEMS INDICATED ON THE DRAWINGS IS DIAGRAMMATIC, AND INDICATES THE MINIMUM REQUIREMENTS FOR PLUMBING WORK. TAKE FIELD MEASUREMENTS BEFORE PREPARING SHOP DRAWINGS. OBTAIN APPROVAL OF SHOP DRAWINGS BEFORE BEGINNING FABRICATION. BE RESPONSIBLE FOR ACCURACY OF DIMENSIONS AND LAYOUT. OVERHEAD PIPING SHALL BE ARRANGED TO OBTAIN MAXIMUM HEAD ROOM.

11. CLEAN AND PROTECT WORK FROM DAMAGE. RESTORE DAMAGED FINISHES. COVER ENDS OF PIPING NOT ACTIVELY BEING WORKED ON.

12. MODIFY AND EXTEND EXISTING SERVICE TO ACCOMMODATE NEW WORK. RELOCATE EXISTING COMPONENTS AS REQUIRED FOR NEW SYSTEM. COORDINATE WITH BUILDING MANAGEMENT.

13. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

14. DO NOT CUT STRUCTURAL ELEMENTS WITHOUT PRIOR WRITTEN APPROVAL.

15. CONCEAL PIPING TO THE GREATEST EXTENT POSSIBLE.

16. INSTRUCT OWNER IN PROPER OPERATION OF SYSTEMS.

17. DRAWINGS DO NOT SHOW ALL OFFSETS WHICH MAY BE REQUIRED. MAKE OFFSETS WITH FITTINGS USING THE LEAST ANGLE OF OFFSET POSSIBLE. PIPING SHALL BE ROUTED TO AVOID ALL STRUCTURAL SUPPORTS, AND COORDINATED WITH WORK OF OTHER TRADES.

18. MATERIALS, METHODS, AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE FOLLOWING CODES AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION (TOLLESON).
- 2018 INTERNATIONAL BUILDING CODE (IBC)

2018 INTERNATIONAL MECHANICAL CODE (IMC)

2018 INTERNATIONAL PLUMBING CODE (IPC)

2018 INTERNATIONAL FIRE CODE (IFC)

2018 INTERNATIONAL FUEL GAS CODE (IFGC)

PIPING NOTES

1. SANITARY, WASTE, AND VENT PIPING SHALL BE ABS, PVC, NO-HUB CAST IRON OR DWV COPPER.

2. HOT AND COLD WATER PIPING SHALL BE HARD DRAWN COPPER TUBING: TYPE L, ASSEMBLED WITH WROT COPPER FITTINGS AND LEAD-AND ANTIMONY-FREE SOLDER.

3. INSULATE ALL HOT AND COLD WATER PIPING WITH GLASS FIBER INSULATION WITH ALL SERVICE JACKET. USE HEAT BONDING TAPE TO CLOSE INSULATION; STAPLES AND PRESSURE TAPE ARE PROHIBITED.

4. PROVIDE ALL REQUIRED ACCESSORIES INCLUDING SHUT-OFFS AND CLEAN-OUTS. PROVIDE COMPONENTS WHICH PREVENT BACK-SIPHONAGE OR CROSS-CONNECTIONS. PROVIDE ISOLATION DEVICES TO REDUCE SOUND TRANSMISSION.

5. PROVIDE STOPS FOR EACH WATER CONNECTION TO EACH FIXTURE OR ITEM OF EQUIPMENT.

6. DISINFECT WATER DISTRIBUTION SYSTEM. FLUSH AND TEST ALL SYSTEMS FOR PROPER OPERATION. ADJUST SYSTEM TO PREVENT WATER HAMMER.

7. REFER TO PIPING DIAGRAMS AND DETAILS FOR REQUIRED FITTINGS, VALVES, ETC. FLOOR PLANS AND SECTIONS INDICATE EQUIPMENT LOCATIONS AND GENERAL PIPE ROUTING ONLY.

8. REFER TO CIVIL DRAWINGS FOR UTILITY WORK 5'-0" BEYOND THE BUILDING LINE.

ABBREVIATIONS

A	AIR	ID	INDIRECT DRAIN
AFF	ABOVE FINISHED FLOOR	IE	INVERT ELEVATION
ARRGT	ARRANGEMENT	IN	INCH
ATM	ATMOSPHERE	INIT	INITIAL
		INT	INTERIOR
BFF	BELOW FINISHED FLOOR	KW	KILOWATT
BFP	BACKFLOW PREVENTER	KWH	KILOWATT HOURS
BHP	BRAKE HORSEPOWER		
BLDG	BUILDING	L	LENGTH
BOB	BOTTOM OF BEAM	LB	POUND, LINEAR BAR
BOS	BOTTOM OF STEEL	LBS	POUNDS
BTUH	BRITISH THERMAL UNITS PER HOUR	LWT	LEAVING WATER TEMPERATURE
		MAX	MAXIMUM
CAP	CAPACITY	MBH	THOUSAND BTU PER HOUR
CFM	CUBIC FEET PER MINUTE	MCA	MINIMUM CIRCUIT AMPACITY
CI	CAST IRON	MECH	MECHANICAL
CLG	CEILING, COOLING	MFR	MANUFACTURER
CNTFGL	CENTRIFUGAL	MIN	MINIMUM
CO	CLEANOUT	MTR	MOTOR
CONC	CONCRETE		
COND	CONDENSATE	NC	NORMALLY CLOSED
CONT	CONTINUE, CONTROL	NEG	NEGATIVE
COMP	COMPRESSOR	NIC	NOT IN CONTRACT
CP	CIRCULATING PUMP	NO	NUMBER, NORMALLY OPEN
CTG	CLEANOUT TO GRADE	NTS	NOT TO SCALE
CU FT	CUBIC FEET		
CV	CONSTANT VOLUME	OC	ON CENTER
CW	COLD WATER	OD	OUTSIDE DIAMETER
		OPNG	OPENING
dB	DECIBELS	ORD	OVERFLOW ROOF DRAIN
DCVA	DOUBLE CHECK VALVE ASSEMBLY	ORL	OVERFLOW RAIN LEADER
DEG	DEGREE		
DF	DRINKING FOUNTAIN	P	PUMP, PLUMBING
DI	DE-IONIZED	PH	PHASE
DIA	DIAMETER	POC	POINT OF CONNECTION
DN	DOWN	POS	POSITIVE
DS	DOWNSPOUT	P/T	PRESSURE/TEMPERATURE
		PVC	POLYVINYL CHLORIDE
E	EXISTING	QTY	QUANTITY
EER	ENERGY EFFICIENCY RATING	RD	ROOF DRAIN
EFF	EFFICIENCY	REF	REFERENCE
EL	ELEVATION	REQD	REQUIRED
EQUIP	EQUIPMENT	RL	RAIN LEADER
ESP	EXTERNAL STATIC PRESSURE	RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
EWI	ENTERING WATER TEMPERATURE	RPM	REVOLUTIONS PER MINUTE
EXH	EXHAUST		
EWI	ELECTRIC WATER COOLER	S	SOIL
EXIST	EXISTING	SD	STORM DRAIN, SMOKE DAMPER
EXP	EXPANSION	SPR	SPRINKLER
EXT	EXTERIOR, EXTERNAL	SS	STAINLESS STEEL, SANITARY SEWER
		STP	STANDPIPE
F	FAHRENHEIT, FIRE LINE	TEMP	TEMPERATURE
FD	FIRE DAMPER, FLOOR DRAIN	TOT	TOTAL
FDC	FIRE DEPARTMENT CONNECTION	TP	TRAP PRIMER, TOTAL PRESSURE
FLA	FULL LOAD AMPS	TYP	TYPICAL
FLR	FLOOR		
FLTR	FILTER	UON	UNLESS OTHERWISE NOTED
FM	FLOW METER		
FPM	FEET PER MINUTE	V	VENT, VOLT
FPS	FEET PER SECOND	VA	VALVE
FT	FEET	VEL	VELOCITY
FV	FACE VELOCITY	VFD	VARIABLE FREQUENCY DRIVE
		VTR	VENT THROUGH ROOF
GA	GAGE		
GAL	GALLONS	W	WASTE, WATER, WATT, WIDTH
GALV	GALVANIZED	WG	WATER GAGE
GPM	GALLONS PER MINUTE	WH	WATER HEATER, WALL HYDRANT
		WTR	WATER
HB	HOSE BIBB		
HD	HEAD		
HEX	HEAT EXCHANGE		
HOA	HAND-OFF-AUTOMATIC		
HP	HORSEPOWER, HEAT PUMP		
HW	HOT WATER		
HWC	HOT WATER CIRCULATING		
HWP	HOT WATER PUMP		
HZ	HERTZ		

SYMBOLS LEGEND - GENERAL

SYMBOL	DESCRIPTION
	DRAWING CONSTRUCTION ("FLAG") NOTE
	EQUIPMENT IDENTIFIER
	MATCHLINE
	REVISION CLOUD (ENCIRCLES DRAWING CHANGES MADE SINCE THE PREVIOUS RELEASE)
	REVISION REFERENCE
	EXISTING TO BE REMOVED (HATCH)
	HEAVY LINEWEIGHT INDICATES NEW WORK
	LIGHT LINEWEIGHT INDICATES EXISTING INFORMATION
	POINT OF CONNECTION
	DETAIL REFERENCE DETAIL IDENTIFICATION NUMBER SHEET WHERE DETAIL IS DRAWN
	ELEVATION REFERENCE ELEVATION IDENTIFICATION NUMBER SHEET WHERE ELEVATION IS DRAWN
	SECTION REFERENCE SECTION IDENTIFICATION NUMBER SHEET WHERE SECTION IS DRAWN
	NORTH REFERENCE

SYMBOLS LEGEND - PIPING

SYMBOL	DESCRIPTION
	STEAM TRAP ASSEMBLY FIT = FLOAT AND THERMOSTATIC F = FLOAT T = THERMOSTATIC B = BUCKET IB = INVERTED BUCKET I = IMPULSE O = ORIFICE
	PIPE ANCHOR
	PIPE ALIGNMENT GUIDE
	CONTROL VALVE STATION
	PIPE SUPPORT
	PRESSURE/TEMPERATURE TEST PORT
	CAP
	PLUG
	UNION
	WYE STRAINER
	GATE VALVE
	GLOBE VALVE
	BALL VALVE
	BALANCING OR PLUG VALVE
	NEEDLE VALVE
	PRESSURE REDUCING VALVE
	BALANCING/MEASURING VALVE
	RELIEF VALVE
	CHECK VALVE
	PIPE TURNING DOWN / AWAY
	PIPE TURNING UP / TOWARDS
	PIPE DOWN TEE
	PIPE DOWN TEE / AWAY
	PIPE UP TEE / TOWARDS

SYMBOLS LEGEND - PIPING

SYMBOL	DESCRIPTION
	SOIL OR WASTE
	VENT
	RAIN LEADER
	OVERFLOW RAIN LEADER
	INDIRECT DRAIN
	COLD WATER
	HOT WATER
	HOT WATER CIRCULATING
	140° POTABLE HOT WATER
	120° POTABLE HOT WATER
	FIRE
	SPRINKLER
	STANDPIPE
	HIGH PRESSURE STEAM
	HEATING WATER SUPPLY
	HEATING WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	REDUCER, CONCENTRIC
	WYE STRAINER WITH CAPPED HOSE AND BLOWDOWN VALVE
	ANGLE VALVE
	AUTOMATIC CONTROL VALVE - TWO WAY (PNEUMATIC OPERATOR SHOWN)
	AUTOMATIC CONTROL VALVE - THREE WAY (ELECTRIC OPERATOR SHOWN)
	BUTTERFLY VALVE
	FLEXIBLE CONNECTION IN PIPING
	MANUAL AIR VENT (MAV), AUTOMATIC AIR VENT (AAV)
	PRESSURE GAUGE
	THERMOMETER
	THERMOMETER WELL
	SIGHT GLASS
	HOSE BIB

SYMBOLS LEGEND - PIPING & AIRFLOW DIAGRAMS

SYMBOL	DESCRIPTION
	PIPING OR DUCTED AIRFLOW
	NON-DUCTED AIRFLOW
	ELECTRICAL CONNECTION
	FLOW CONTINUATION ARROW
	COMPLEX INTERLOCK (ELEC., PNEUMATIC, ETC.)
	CONNECTION TO CENTRAL MONITORING AND CONTROL SYSTEM (CMCS)
	PUMP
	CENTRIFUGAL FAN
	ELECTRIC MOTOR/STARTER ASSEMBLY
	ELECTRIC MOTOR OPERATOR (VALVES AND DAMPERS)
	FLOOR DRAIN
	FUNNEL DRAIN
	FLOOR SINK (SQUARE AND ROUND)
	FLOW DIRECTION

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Catholic Charities
Westside Head Start - Tolleson

CONSTRUCTION DOCUMENTS

Revision Schedule		
No.	Date	Description

22025 ART PROJECT NO.
04.21.2023 DATE



GENERAL NOTES,
ABBREVIATIONS
AND SHEET INDEX

DRAWING TITLE

DRAWING

P0.00

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1/16" = 1'

0' 2' 4' 8' 12' 16' 20' 24'

1/16" = 1'

0' 2' 4' 6' 8' 10' 12'

1/16" = 1'

0' 1' 2' 3' 4' 5' 6'

1/16" = 1'

0' 1' 2' 3' 4' 5'

1/16" = 1'

0' 1' 2' 3' 4' 5'

IF THIS IS NOT 24"X36", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

1/16" = 1'

0' 8' 16' 32' 48'

1/16" = 1'

0' 8' 16' 24' 32' 40'

WATER CALCULATIONS

Project Name: CATHOLIC CHARITIES WESTSIDE HEAD START

Location: 2504 S 91ST AVE, TOLLESON, AZ 85353

EXISTING METER = 2"

SERVICE LINE and RPBP = 1-1/2"

Static Pressure in Main= 60.0 PSI

Minimum Operating Pressure= 20.0 PSI

Pressure Drop Through Meter= 10.0 PSI

Pressure Drop Through BFP= 10.0 PSI

Pressure Drop due to Elevation= 2.6 PSI

Allowable Friction Pressure Drop= 42.6 PSI

Distance to Last Fixture= 225.0 FT

Allowance for Fittings= 22.5 FT

Equivalent Length= 247.5 FT

Capacities

Total WSFUs= 99.0 WSFU

GPM at WSFUs= 43.5 GPM

Total GPM= 43.5 GPM

Total DFUs= 105 DFU

Available Friction Loss per 100' = 7.0 PSI

Pipe sizing and fixture Calculations per 2018 IPC 103.3(2), Fig. 1003.3(3)

PIPE SIZE	FU TANK	FU VALVE	GPM
1/2"=	-	-	2.8
3/4"=	3	-	7.9
1"=	13	-	16.5
1-1/4"=	48	11	28
1-1/2"=	97	32	42.5
2"=	230	108	72
2-1/2"=	533	430	130
3"=	900	900	185
4"=	1600	1600	280

PLUMBING FIXTURE SCHEDULE									
MARK	DESCRIPTION	ROUGH-IN CONNECTION IN				REMARKS			
		W	V	CW	HW				
3COM	3 COMPARTMENT SINK	2	1-1/2"	1/2	1/2	ADVANCE TABCO FC-3-1818-18RL 3 COMPARTMENT STAINLESS STEEL SINK, TIG WELDED CONSTRUCTION, 16 GAUGE 304 STAINLESS STEEL.			
EW-1	SINGLE ELECTRIC WATER COOLER , INDOOR	1-1/4	1-1/4	3/8	--	ELKAY MODEL #EZS8S, WALL MOUNT ADA NON-FILTERED 8 GPH STAINLESS WATER COOLER. PUSHBAR ACTIVATION. WALL MOUNT FOR INDOOR APPLICATIONS. 5 FLA, 115V/60HZ.			
EW-2	SINGLE ELECTRIC WATER COOLER , OUTDOOR	1-1/4	1-1/4	3/8	--	ELKAY MODEL VRC8S, WALL MOUNT VANDAL RESISTANT ADA COOLER, NON-FILTERED, 8 GPH CHILLING CAPACITY, INDOOR/OUTDOOR APPLICATIONS. 5 FLA, 115V/60HZ.			
FD-1	FLOOR DRAIN	3	1-1/2	--	--	ZURN MODEL #Z415B, CAST IRON BODY, 5" DIAMETER ADJUSTABLE NICKEL BRONZE STRAINER. PROVIDE WITH 1/2" TRAP PRIMER CONNECTION.			
FS-1	FLOOR SINK	3	2	--	--	ZURN MODEL #Z1900, 12"X12" SANI-FLOOR RECEPTOR WITH 6" SUMP DEPTH, CAST IRON CONSTRUCTION, LIGHT-DUTY HALF GRATE WITH 1/2 SLOTTED OPENINGS			
GT-1	GREASE INTERCEPTOR	3	2	--	--	SCHIER MODEL GB2 HYDROMECHANICAL GREASE INERCEPTOR, RATED FOR 50 GPM, 131 LBS GREASE CAPACITY. POLYETHYLENE CONSTRUCTION. PROVIDE WITH MANUFACTURERS VENTED FLOW CONTROL. PDI OR UPC CERTIFIED FOR APPROVAL.			
HB-1	HOSE BIBB	--	--	1/2	--	ZURN MODEL #Z1330-C ECOLOTROL WALL HYDRANT, SELF-DRAINING, ANTI-SIPHON WALL HYDRANT, 3/4" FEMALE SOLDER & 3/4" MALE THREADED PIPE INLET CONNECTION, STANDARD 3/4" HOSE CONNECTION OUTLET, WITH VANDAL-RESISTANT INTEGRAL VACUUM BREAKER, AND CHROME-PLATED ROUGH BRONZE BOX, & OPERATING KEY.			
HS-1	HAND SINK - WALL MOUNT	1-1/4	1-1/4	1/2	1/2	ADVANCE TABCO 7-PS-EC-SP 10X14X5 WALL MOUNTED HAND WASHING SINK, TIG WELDED CONSTRUCTION, 304 STAINLESS STEEL CONSTRUCTION, 7-3/4" SIDE SPLASHES. INSTALL WITH TMV			
L-1	LAVATORY, WALL MOUNTED, ADULT HEIGHT	1-1/4	1-1/4	1/2	1/2	KOHLER GREENWICH WALL MOUNT LAVATORY MODEL K-2030 WITH ZURN Z6915-XL BATTERY POWERED SENSOR FAUCET. WITH K-8998 P-TRAP AND ADA TRAP COVER. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. INSTALL WITH TMV.			
L-2	LAVATORY, WALL MOUNTED, CHILD HEIGHT	1-1/4	1-1/4	1/2	1/2	KOHLER GREENWICH WALL MOUNT LAVATORY MODEL K-2030 WITH ZURN Z6915-XL BATTERY POWERED SENSOR FAUCET. WITH K-8998 P-TRAP AND ADA TRAP COVER. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. INSTALL WITH TMV.			
MS-1	MOP SINK	3	2	1/2	1/2	ZURN MODEL #Z1996-24-AW-BV-HH-MH-WG, 24"X24" MOP SERVICE BASIN, MOLDED HIGH DENSITY COMPOSITE BASIN WITH AN INTEGRALLY MOLDED, SELF-DRAINING MOP SHELVE, PVC DRAIN BODY, STAINLESS STEEL STRAINER AND 3" GASKETED OUTLET CONNECTION. WHITE BODY, VINYL BUMPER GUARD, HOSE AND HOSE BRACKET, MOP HANGER, & WALL GUARD #20 GAGE TYPE 304 STAINLESS STEEL (3) 24" PANELS. MEETS ANSI Z124.6, CSA LISTED, AND IAPMO LISTED. ZURN MODEL#Z841M1, AQUASPEC POLISHED CHROME-PLATED CAST BRASS SERVICE SINK FAUCET WITH QUARTER TURN CERAMIC DISC CARTRIDGES. ADJUSTABLE 2-1/2" LONG SWIVEL, INLETS WITH INTEGRAL STOPS, CAST BRASS VACUUM BREAKER SPOUT, 3/4" HOSE THREADED OUTLET, 2-1/2" VANDAL RESISTANT COLOR-CODED BRASS LEVEL HANDLES, PAIL HOOK, & WALL BRACE.			
RD-1	ROOF DRAIN	2.6	--	--	--	ZURN MODEL #Z164, 12" DIAMETER COMBINATION MAIN ROOF AND OVERFLOW DRAIN WITH LOW SILHOUETTE CAST IRON DOMES AND DOUBLE TOP-SET® DECK PLATE, DURA-COATED CAST IRON BODIES WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS, AND NO-HUB OUTLET. COORDINATE BODY HEIGHT DIMENSION WITH ROOF CONSTRUCTION TYPE.			
S-1	SINK	1-1/4"	1-1/4"	1/2	1/2	JUST SINKS MODEL #SLN-2125-A-CR, SINGLE COMPARTMENT--SEAMLESS DIE-DRAWN CONSTRUCTION OF 18 GAUGE TYPE 304 18-8 STAINLESS STEEL, FULLY COATED UNDERSIDE, 6-1/2" DEEP STRAIGHT SIDED COMPARTMENT WITH 1-3/4" RADIUS CORNERS, SELF-RIMMING TOP MOUNT WITH GRIP-RIM PLUS WITH STAINLESS STEEL MOUNTING CHANNELS, (3) HOLES ON 4" CENTERS, INTEGRA-DRAIN INTEGRAL DRAIN SYSTEM LOCATED IN CENTER OF BOWL. ZURN MODEL #Z831A1-XL-P-3F, POLISHED CHROME-PLATED WIDESPREAD WITH ADJUSTABLE CENTERS, 3-1/2" CENTERLINE SWING GOOSENECK SPOUT, QUARTER TURN CERAMIC DISC CARTRIDGES, 0.5 GPM VANDAL-RESISTANT PRESSURE COMPENSATING FEMALE SPRAY OUTLET, 2-1/2" VANDAL-RESISTANT COLOR-CODED METAL LEVER HANDLES, MOUNTING HARDWARE AND 1/2" NPSM COUPLING NUTS FOR STANDARD LAVATORY RISERS, AND 1-1/4" POP-UP DRAIN. INSTALL WITH TMV			
TMV	TEMPERING VALVE	--	--	1/2	1/2	WATTS LF6480 LAVATORY TEMPERING VALVE, LEAD FREE BRASS BODY, CORROSION RESISTANT INTERNAL COMPONENTS, ASSE 1070 COMPLIANT.			
WC-1	WATER CLOSET, TANK TYPE - ADA	4	2	1/2	--	ZURN MODEL #Z5555-VL, ECOVANTAGE® HIGH EFFICIENCY, 1.28 GPF, ADA, ELONGATED, SIPHON JET TOILET, VITREOUS CHINA, HIGH EFFICIENCY, 1.28 GPF LOW CONSUMPTION, HIGH PERFORMANCE SIPHON-JET TOILET WITH 3" FLUSH VALVE, ADA/COMFORT HEIGHT, ELONGATED FRONT RIM AND 12" STANDARD ROUGH-IN, VITREOUS CHINA LID WITH VANDAL-PROOF LOCKDOWN, ZURN MODEL #Z5972-COMB CLOSET BOLT & WAX RING KIT, ZURN MODEL #Z2800-CR STANDARD STOP WITH FLEXIBLE CLOSET RISER, ZURN MODEL #Z5955SS-EL ELONGATED, STANDARD WHITE, OPEN FRONT TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.			
WC-2	WATER CLOSET, TANK TYPE - CHILD HEIGHT	4	2	1/2	--	AMERICAN STANDARD BABY DEVORO FLOWISE 10" HIGH ROUND FRONT TOILET, 1.28 GPF, VITREOUS CHINA, HIGH EFFICIENCY, LOW CONSUMPTION, 10-1/4" RIM HEIGHT, 10" ROUGH-IN, WITH OPEN-FRONT SEAT			
WMOB-1	OUTLET BOX	2	--	1/2	1/2	PRECISION PLUMBING PRODUCTS MODEL MM-500PLB WASHING MACHINE OUTLET BOX, ASSEMBLED, CENTER DRAIN, HAMMER ARRESTORS, AND 1/4 TURN VALVES. FIELD VERIFY VALVE ORIENTATION.			
--	WATER HAMMER ARRESTOR	--	--	--	--	ZURN WILKINS MODEL #1260XL, LEAD FREE WATER HAMMER ARRESTOR, CERTIFIED TO NSF/ANSI STANDARD 372, DEVICE SHALL BE PRE-CHARGED AND SEALED AT THE FACTORY. INSTALL PER PDI RECOMMENDATION.			
REMARKS: 1. COORDINATE MOUNTING HEIGHTS AND HANDING WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. 2. MANUFACTURER LISTED IS BASIS OF DESIGN. PROVIDE LISTED OR EQUAL APPROVED BY OWNER.									

ELECTRIC WATER HEATER SCHEDULE																		
EQUIP. NO	LOCATION	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN SERIES	TANK DESCRIPTION	VOLUME (GAL)	INPUT (KW)	NUMBER OF ELEMENTS	SIMULTANEOUS/ NON-SIMULTANEU OS	TEMP RISE (DEG F)	RECOVERY RATE (GPH)	LWT (DEG F)	THERMAL EFFICIENCY, MINIMUM	ELECTRICAL		DIMENSIONS DIA X HEIGHT (IN)	SHIPPING WEIGHT (LBS)	OPERATING WEIGHT (LBS)	REMARKS
													FLA	V/PH/Hz				
EW-H-01	LAUNDRY	AO SMITH	DRE-52-24	GLASSLINED	50	4	6	SIMULTANEOUS	90	109	140	0.86 EF	66.6	208/3/60	NOTE	265	681.5	1.2
REMARKS: 1. PRESSURE RELIEF VALVE SET AT 150 PSI 2. PROVIDE WITH TACO 009-SF5 CIRCULATION PUMP																		

Catholic Charities

Westside Head Start - Tolleson

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ARCHITECTURAL RESOURCE TEAM

design with purpose

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PLUMBING SCHEDULES

P2.00

PLEASE RECYCLE

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IF THIS IS NOT 24"X36", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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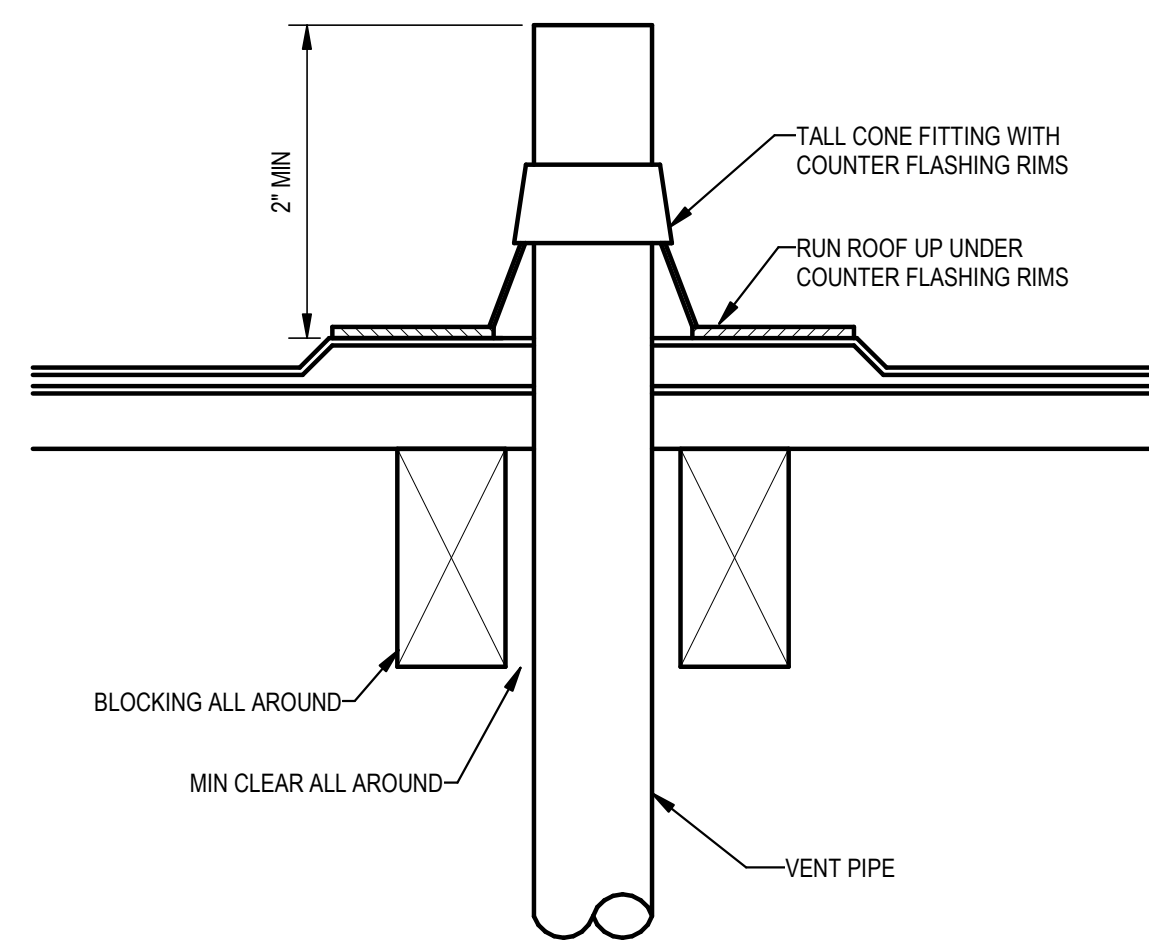
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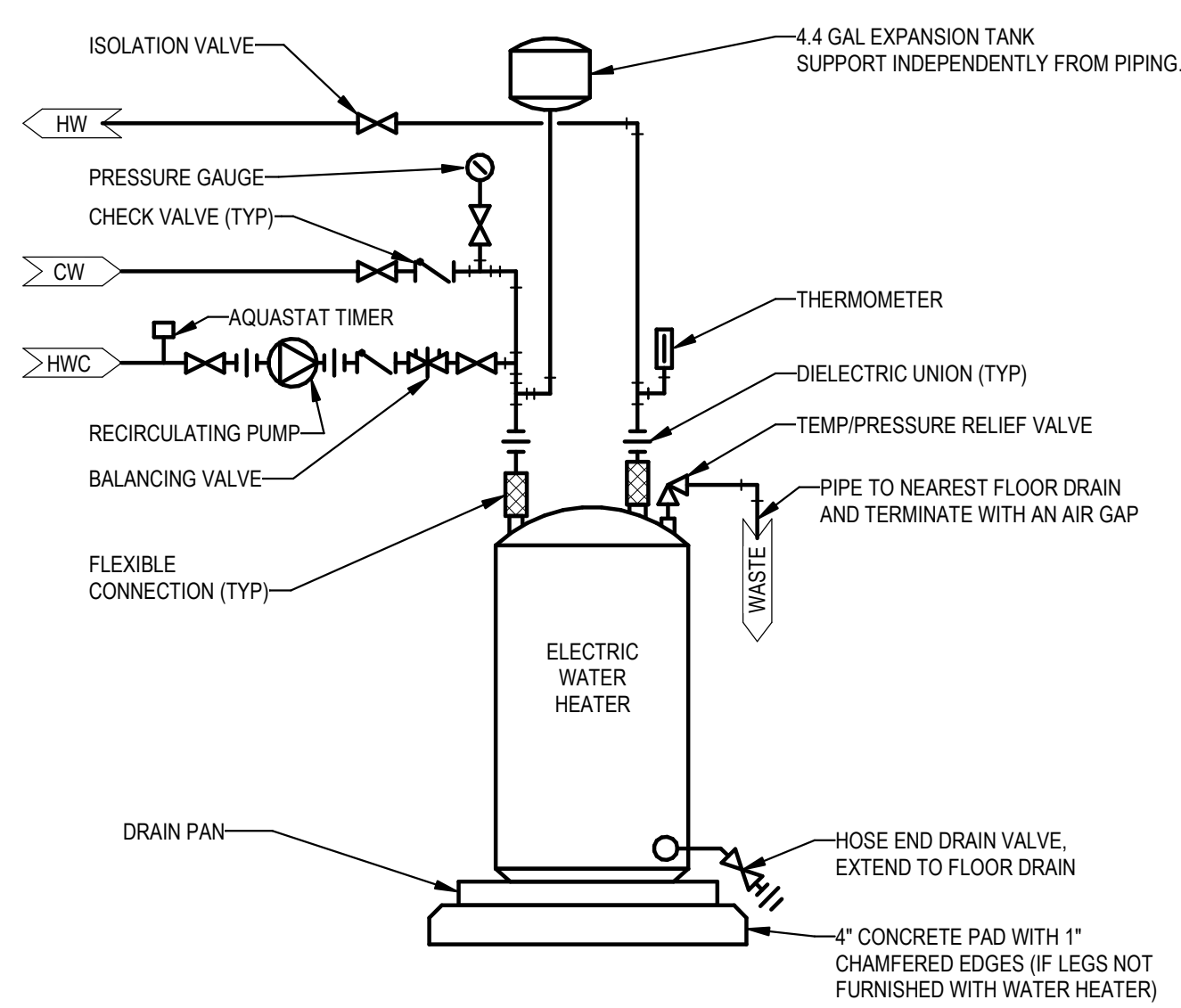
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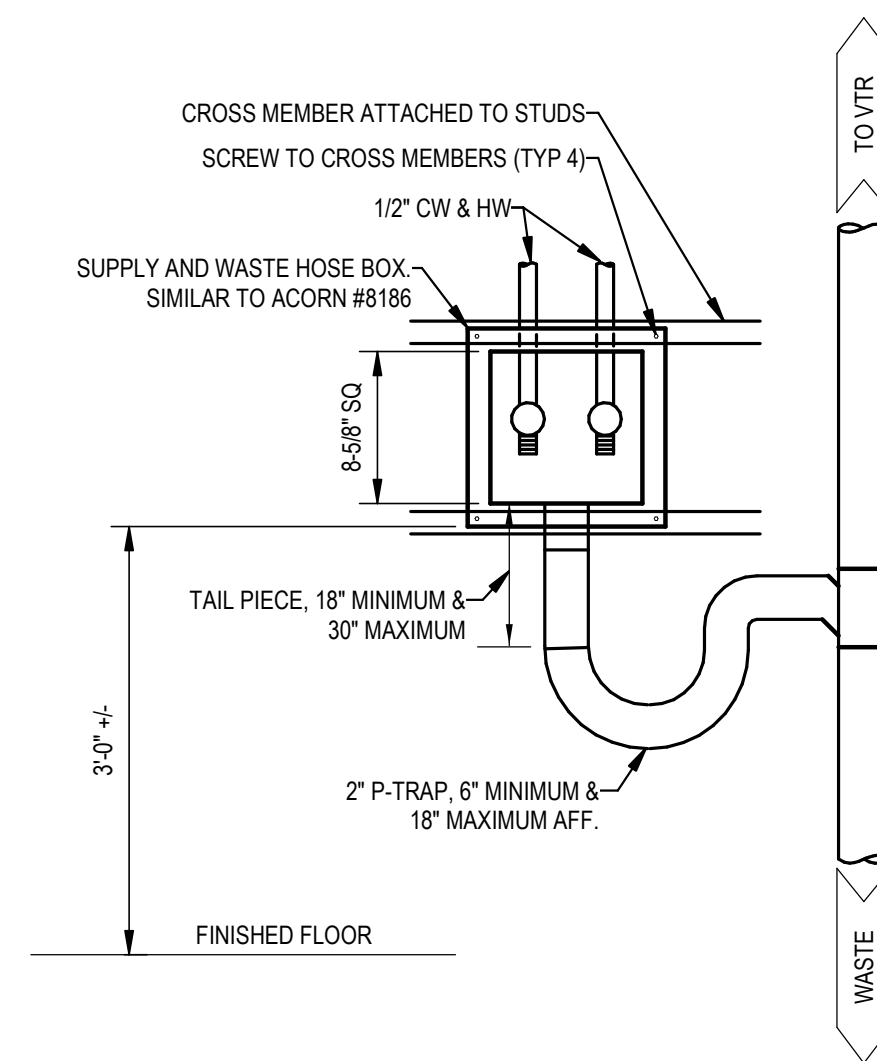
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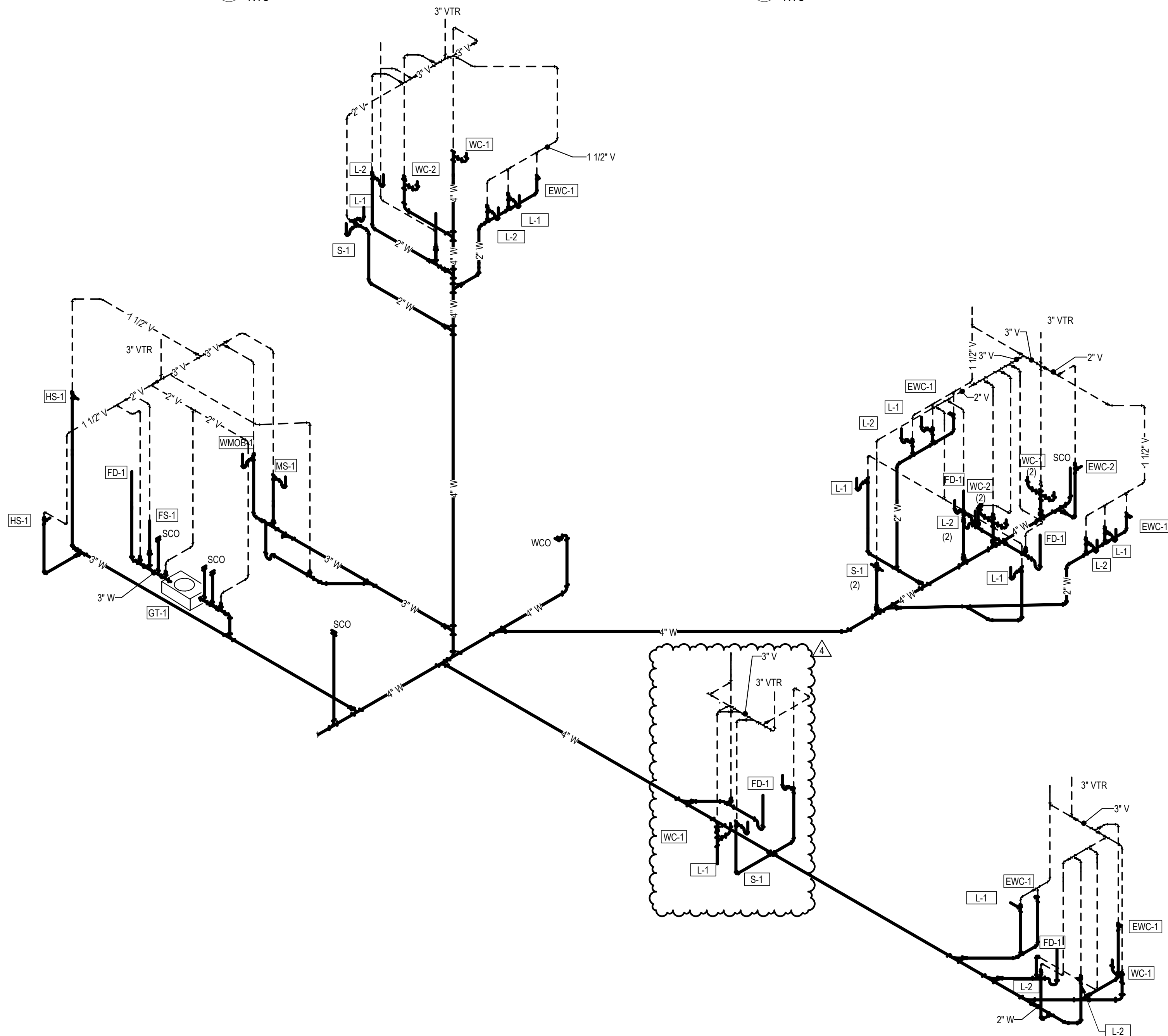
3 VENT THROUGH ROOF DETAIL



ELECTRIC WATER HEATER DIAGRAM WITH RECIRC. PUMP DIAGRAM



1 WASHING MACHINE OUTLET BOX DETAIL



WASTE AND VENT ISOMETRIC

CONSTRUCTION
DOCUMENTS

Revision Schedule		
No.	Date	Description
1	08.02.2023	CITY COMMENTS
4	09.29.23	Owner Comments

22025	ART PROJECT NO.
04.21.2023	DATE



DRAWING TITLE

PLUMBING DETAILS

DRAWING

SÄZÄN
GROUP

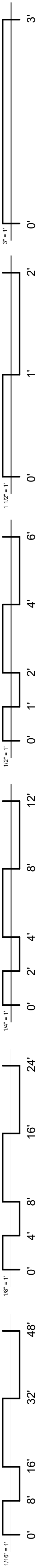
311 E. Veterans Way, Ste. 102
Tempe, AZ 85281



Tel 480.530.9101
Fax 480.530.9130

SAZAN# 700-22061

P7.00



NOTE: NOT ALL SPECIFICATIONS MAY APPLY

SCOPE OF WORK

1. ALL WORK REQUIRED CONSISTS OF PERFORMING ALL LABOR AND FURNISHING ALL MATERIALS, FIXTURES AND EQUIPMENT REQUIRED TO PROVIDE COMPLETE PLUMBING INSTALLATION AS INDICATED ON THE DRAWINGS. IT SHALL FURTHER INCLUDE FURNISHING AND INSTALLING ALL MISCELLANEOUS ITEMS REQUIRED FOR THE OPERATION OF THE SYSTEMS, WHETHER SPECIFICALLY CALLED FOR OR NOT. CONNECT ALL EQUIPMENT FURNISHED UNDER OTHER TRADES AS REQUIRED. DETERMINE IN ADVANCE THE SHUT-DOWN OF EXISTING UTILITIES.

2. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.

CODES

1. ALL MATERIALS, EQUIPMENT AND INSTALLATION MUST COMPLY WITH ALL APPLICABLE LAWS, CODES, RULES, AND REGULATIONS, REQUIRED BY CITY, COUNTY, STATE, AND FEDERAL AGENCIES.

PERMITS

1. THIS CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES AND FEES REQUIRED BY STATE AND LOCAL AUTHORITIES.

INSPECTION

1. FURNISH OWNER WITH CERTIFICATE OF INSPECTION AND APPROVAL BY LOCAL AUTHORITIES PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL WORK MUST BE INSPECTED.

EXISTING CONDITIONS

1. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE WORK HE MUST PERFORM, IN ADDITION TO WHAT IS SHOWN HEREIN, AND INCLUDE IN HIS BID AN AMOUNT TO DO SUCH WORK.

2. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW WASTE LINES ARE TO BE CONNECTED BEFORE MAKING UP OR INSTALLATION OF NEW SYSTEM.

3. CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.

MATERIALS

1. WATER PIPING:

A. ALL PIPING SHALL CONFORM TO THE REQUIREMENTS OF THE ANSI SAFETY CODE AND BE FREE FROM ALL DEFECTS AND BE PROPERLY IDENTIFIED.

B. ABOVE GROUND: SHALL BE TYPE "L" OR TYPE "M" HARDDRAWN COPPER TUBING CONFORMING TO ASTM B 88-72.

C. BELOW GROUND: (INSTALLED IN CONCRETE OR UNDER CONCRETE) TYPE "K" SOFT DRAWN COPPER TUBING, CONFORMING TO ASTM B 88-72. SPIRALLY WRAP PIPING BELOW GRADE OR FLOORS WITH 3 LAYERS OF 20 MIL POLYETHYLENE TAPE WITH 1/2 OVERLAP. INSTALL NO PIPING JOINTS BELOW FLOOR.

D. ALL COPPER TUBING SHALL UTILIZE SWEAT FITTINGS SOLDERED WITH ASTM B 32, ALLOY SN95, SN94, OR E, LEAD FREE SOLDER.

2. SOIL, WASTE, AND VENT PIPING:

A. CAST IRON: NO-HUB CAST IRON, CISPI 301-72T SPECIFICATION FOR ALL SOIL, WASTE AND VENT PIPING 2 INCHES AND LARGER WITH STANDARD WEIGHT FITTINGS. USE STAINLESS STEEL NO-HUB CAST IRON COUPLINGS THROUGHOUT THE PROJECT.

B. GALVANIZED IRON: SCHEDULE 40 STANDARD WEIGHT CONFORMING TO ASTM A72-68. FOR ALL VENT PIPING 1-1/2" AND SMALLER. USE WROUGHT IRON SCREWED FITTINGS TO MATCH PIPE. MAKE ALL SCREWED JOINTS WITH TEFLON TAPE.

C. ALL SOIL AND WASTE PIPING SHALL SLOPE MINIMUM OF 1/4" PER FOOT. PIPING 4" AND LARGER MAY SLOPE MIN. OF 1/8" PER FOOT SLOPE IF SITE CONDITIONS WON'T ALLOW 1/4" PER FOOT SLOPE.

D. ABS: ABS PIPING CONFORMING TO ASTM D2661-78 FOR ALL SOIL, WASTE AND VENT PIPING WITH MATCHING FITTINGS. ABS ABOVE AND BELOW GRADE FOR COMBUSTIBLE CONSTRUCTION OR ALLOWED BY LOCAL JURISDICTION. ABS FOR NON-COMBUSTIBLE CONSTRUCTION BELOW GRADE ONLY.

4. VALVES:

A. SIZE OF SHUT-OFF VALVES, CONTROL VALVES, BALANCING COCKS, UNIONS ETC., SHALL BE FULL LINE SIZE.

5. PIPE HANGERS:

A. PIPE HANGERS SHALL BE MICHIGAN #400 FOR STEEL PIPING, #402 FOR GAS AND COPPER PIPING. SUPPORT PIPING 3/4" AND LESS AT 6'-0" O/C, 1-1/4" AND SMALLER 8'-0" O/C, AND PIPING 1-1/2" AND LARGER 10'-0" O/C. WASTE PIPING SHALL BE SUPPORTED AT 5'-0" O/C. PROVIDE 3/8" DIA. THREADED ROD PROPERLY BRACED FOR SEISMIC RESTRAINT ZONE 2.

PIPE INSULATION:

A. ALL HOT WATER PIPING AND HOT WATER RETURN PIPING (IF APPLICABLE) SHALL HAVE 1 INCH THICK FIBERGLASS INSULATION WITH ASJ JACKET, HAVING A THERMAL CONDUCTIVITY (K-FACTOR) OF 0.24 AT 75 DEGREES MEAN TEMPERATURE.

B. THE MAXIMUM FIRE HAZARD CLASSIFICATION OF THE INSULATION SYSTEM SHALL NOT HAVE MORE THAN A FLAME SPREAD OF 25, AND A FUEL CONTRIBUTED RATING OF 50, AND A SMOKE DEVELOPED RATING OF 50, WHEN TESTED IN ACCORDANCE WITH U.L. REQUIREMENTS. PIPE COVERING SHALL BEAR THE U.L. LABEL.

C. INSULATE ALL FITTINGS VALVE BODIES ETC. WITH SINGLE OR MULTIPLE LAYERS OF INSULATION WITH PREFABRICATED FITTINGS WITH P.V.C. JACKETS.

D. SUBMIT SHOP DRAWINGS FOR ALL INSULATION MATERIALS.

7. CLEAN OUTS: (ZURN, JOSAM, SMITH)

A. CLEAN OUTS SHALL BE THE SAME SIZE AS THE LARGEST DOWNSTREAM PIPE IT IS SERVING. NO PLASTIC CLEAN OUTS WILL BE ACCEPTED. PLUGS SHALL BE BRONZE.

CONDENSATE DRAIN

1. FOR EACH HVAC UNIT, PROVIDE FULL SIZED 4" DEEP (MINIMUM) TRAPPED CONDENSATE DRAIN, COPPER TYPE "M" HARD DRAWN, SCHEDULE 40 PVC ALLOWED ONLY FOR INDOOR PORTION OF DRAIN WITH DUCTED RETURN AIR SITUATION. PROVIDE NON-TRAPPED DRAIN FOR EVAPORATIVE COOLING UNITS. FIELD VERIFY ROUTING IS NOT OVER CRITICAL SPACES CONTAINING WATER SENSITIVE EQUIPMENT. ROUTE PIPING TO 6" ABOVE NEAREST FLOOR SINK, MOP SINK OR DRAIN OR AS INDICATED ON THE DRAWINGS. (LABATORY TAILPIECE IS AN ACCEPTABLE RECEPTACLE IF ALLOWED BY AUTHORITY HAVING JURISDICTION.)

SLOPE ALL CONDENSATE PIPING AT A MINIMUM OF 1/8" PER FOOT.

2. INSTALL CLEAN OUTS AT EVERY 90 DEGREE TURN ON ALL CONDENSATE DRAIN LINES.

UNIONS

1. PROVIDE A UNION BETWEEN CONNECTIONS TO EACH FIXTURE, DEVICE OR PIECE OF EQUIPMENT FOR DISCONNECTING OF PIPING.

2. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.

PIPE INSTALLATION

1. INSTALL PIPING TO BEST SUIT FIELD CONDITIONS, COORDINATE LAYOUT OF PIPING WITH DUCT WORK AND OFFSET PIPING AS REQUIRED TO CLEAR NEW DUCTWORK.

2. ALL VENTS THROUGH ROOF SHALL BE 10'-0" REMOVED FROM ALL AIR INTAKES, EVAPORATIVE COOLERS, ETC.

3. CONTRACTOR SHALL ROUGH-IN ALL WASTE AND SUPPLY PIPING TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED.

4. WHEN WATER PIPE AND SEWER ARE LAID PARALLEL TO EACH OTHER, ONE OF THE FOLLOWING PROCEDURES MUST BE FOLLOWED:

A. THE HORIZONTAL DISTANCE BETWEEN THE WATER PIPE AND SEWER SHALL NOT BE LESS THAN SIX (6) FEET. EACH LINE SHALL BE LAID IN A SEPARATE TRENCH, OR THE IN BETWEEN FILLED WITH COMPACT FILL.

B. THE WATER SERVICE PIPE MAY BE PLACED IN THE TRENCH WITH THE BUILDING DRAIN AND/OR BUILDING SEWER, PROVIDED THE BOTTOM OF THE WATER SERVICE PIPE, AT ALL POINTS SHALL BE AT LEAST TWELVE (12) INCHES ABOVE THE TOP OF THE SEWER LINE, AND SHALL BE PLACED ON A SOLID SHELF EXCAVATED AT ONE SIDE OF THE COMMON TRENCH. SAID WATER SERVICE AND SEWER SHALL BE CONSTRUCTED OF MATERIALS APPROVED FOR USE WITHIN A BUILDING AND PRESSURE TESTED TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING.

ACCESSIBILITY

1. THE INSTALLATION OF ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER INDICATING OR RECORDING EQUIPMENT, OR SPECIALITIES REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENT, INSPECTION, REMOVAL, OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED WITH REFERENCE TO THE FINISHED BUILDING.

TESTING

1. FILL DOMESTIC WATER SYSTEM WITH WATER AND PRESSURIZE TO 125 PSI AND MAINTAIN FOR (4) FOUR HOURS WITH NO PRESSURE DROP.

2. FILL WASTE, SOIL, AND VENT SYSTEM WITH WATER TO HIGHEST POINT OF THE SYSTEM. HOLD PRESSURE FOR (4) HOURS WITH NO DROP IN WATER LEVEL.

3. GAS TESTING:

A. AIR PRESSURE TEST SYSTEM TO 75 PSI AND MAINTAIN FOR A PERIOD OF (8) HOURS WITH NO PRESSURE DROP.

B. PURGE LINE WITH NITROGEN AT JUNCTION WITH MAIN LINE AT GAS METER TO REMOVE ALL AIR. CLEAR COMPLETE LINE BY ATTACHING A TEST PILOT FIXTURE AT CAPPED STUB-IN LINE AT THE BUILDING LOCATION AND LET GAS FLOW UNTIL TEST PILOT IGNITES. CAUTION: FAILURE TO PURGE SYSTEM MAY RESULT IN EXPLOSION WITHIN LINE WHEN AIR-TO-GAS IS AT CORRECT MIXTURE.

4. TEST AND OBTAIN APPROVAL ON ALL UNDERGROUND PIPING BEFORE COVERING WORK. PROVIDE WRITTEN TESTING REPORT TO ARCHITECT.

CLEANING

1. AT THE COMPLETION OF THE WORK AND PRIOR TO FINAL ACCEPTANCE, ALL PARTS OF THE WORK INSTALLED UNDER THIS SPECIFICATION SHALL BE THOROUGHLY CLEANED. ALL EQUIPMENT, FIXTURES, PIPE, VALVES AND FITTINGS SHALL BE CLEANED OF GREASE, METAL CUTTINGS AND SLUDGE WHICH MAY HAVE ACCUMULATED BY OPERATION OF THE SYSTEM FOR TESTING HEREIN BEFORE SPECIFIED OR FROM OTHER CAUSES.

STERILIZATION

1. STERILIZE THE ENTIRE WATER DISTRIBUTION SYSTEM THOROUGHLY WITH A SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION OF AVAILABLE CHLORINE. FOR CHLORINATING MATERIALS USE SODIUM HYPOCHLORITE SOLUTION CONFORMING TO FEDERAL SPEC. 0-8-441, GRADE D, AND INTRODUCE INTO THE SYSTEM BY USE OF A COOK AT A SLOW, EVEN, CONTINUOUS RATE. ALLOW THE STERILIZING SOLUTION TO REMAIN IN THE SYSTEM FOR A PERIOD OF 8 HOURS, DURING WHICH TIME ALL VALVES AND FAUCETS SHALL BE OPENED AND CLOSED SEVERAL TIMES. AFTER STERILIZATION, FLUSH THE SOLUTION FROM THE SYSTEM WITH CLEAN WATER UNTIL THE RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN 0.2 PARTS PER MILLION. PLATE COUNT SHALL INDICATE COUNT LESS THAN 100 BACTERIA PER CC.

GUARANTEE

1. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP FROM DEFECT OF MATERIAL AND WORKMANSHIP, AND SHALL REPLACE OR REPAIR, WITHOUT ADDITIONAL COST TO THE OWNER, ALL DEFECTIVE MATERIAL AND WORKMANSHIP FOR A PERIOD (1) YEAR AFTER COMPLETION AND ACCEPTANCE.

COORDINATION

1. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING WORK WITH OTHER TRADES AFFECTED BY EACH OTHERS WORK AND FOR CUTTING AND REFINISHING OF EXISTING WALLS, FLOORS, SOLID AND SUSPENDED CEILINGS ETC., WHERE REQUIRED BY WORK SHOWN AND NOTED HEREIN. INSTALL ALL WORK TO CLEAR NEW AND EXISTING ARCHITECTURAL AND STRUCTURAL MEMBERS. ITEMS SUCH AS PIPE, FITTINGS, ETC., SHALL NOT BE INSTALLED IN CONFLICT WITH EQUIPMENT. COORDINATE ALL CUTTING AND PATCHING WITH THE GENERAL CONTRACTOR. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF HIS WORK. OBTAIN WRITTEN PERMISSION OF ARCHITECT BEFORE PROCEEDING WITH ANY CUTTING OR PATCHING OF STRUCTURAL SYSTEMS.

SUBSTITUTIONS

1. SUBSTITUTIONS OF MATERIALS OR PRODUCTS SHOWN HEREIN SHALL BE AT THE OWNERS, ARCHITECTS, OR ENGINEERS WRITTEN APPROVAL ONLY, WITH COPIES OF APPROVAL SENT TO ARCHITECT FOR PROJECT FILE. DEVIATION FROM THESE DRAWINGS WILL NOT BE ALLOWED.

RECORD DRAWINGS

1. PROVIDE TWO (2) SETS OF "RECORD" DRAWINGS AND TWO (2) BOUND SETS OF ALL OPERATIONS MANUALS, DIAGRAMS, SERVICE CONTRACTS, GUARANTEES, ETC., ONE FOR THE OWNER AND ONE FOR BUILDING OPERATIONS DEPARTMENT. OBTAIN A COMPLETE SET OF RECORD DRAWINGS OF EXISTING CONSTRUCTION FROM THE OWNERS FOR INFORMATION ON EXISTING CONDITIONS. INCORPORATE ANY EXISTING CONDITIONS ON NEW RECORD DRAWINGS REQUIRED TO SHOW THE "INSTALLED" INSTALLATION.

PLUMBING SPECIFICATIONS

2504 S 91 st Ave, Tolleson, Az 85353

Catholic Charities
Westside Head Start - Tolleson

CONSTRUCTION DOCUMENTS

Revision Schedule		
No.	Date	Description

22025	ART PROJECT NO.
04.21.2023	DATE



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DRAWING TITLE
PLUMBING SHEET
SPECIFICATION

DRAWING

P9.00