

MECHANICAL KEYNOTES		#
#	DESCRIPTION	
1	INTERLOCK MOTORIZED DAMPER WITH AH CONTROLLER.	
2	FIELD COORDINATE EXACT LOCATION WHERE MAIN TRUNK DUCT CAN BE RUN TO CLEAR STRUCTURAL MAIN FRAME BEAMS. ROUTE DUCTWORK AS HIGH AS POSSIBLE. FIELD COORDINATE ROUTING WITH ELECTRICAL AND FIRE PROTECTION CONTRACTORS.	
3	EXHAUST DUCT OUT THRU WALL. PROVIDE WALL CAP EQUAL TO GREENHECK WC. SEAL OPENING WATER TIGHT.	

MECHANICAL SYMBOLS	
	RECTANGULAR DUCT 18" WIDE BY 12" DEEP (INSIDE CLEAR DIMENSIONS)
	12" DIAMETER ROUND DUCT (INSIDE CLEAR DIMENSIONS)
	SUPPLY DUCT IN SECTION
	RETURN OR EXHAUST DUCT IN SECTION
	ELBOW WITH TURNING VANES
	TEE WITH TURNING VANES
	ROUND (OR OVAL) ELBOW
	SUPPLY AIR DIFFUSER WITH ROUND SUPPLY DUCT
	RETURN OR EXHAUST AIR DIFFUSER WITH ROUND DUCT
	SUPPLY AIR DIFFUSER (SIDEWALL)
	RETURN OR EXHAUST AIR DIFFUSER (SIDEWALL)
	DIFFUSER OR GRILLE TYPE NECK SIZE CFM
	THERMOSTAT
	CO2 SENSOR
	HUMIDISTAT
	TEMPERATURE SENSOR
	DUCT DETECTOR REMOTE TEST STATION
	BALANCE DAMPER
	CONDENSATE PIPING (CD)
	REFRIGERANT PIPING

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT: **LAKE CITY, FL 32846**

IT IS NOT TO BE REUSED IN CONNECTION WITH THIS PROJECT OR A LATER DATE. USE OF THIS DRAWING FOR REFERENCE OR REQUIREMENTS ON ANOTHER PROJECT, WITHOUT THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS, IS UNLAWFUL. REUSE OF THIS DRAWING FOR ANY OTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

EQUIPMENT SHARE GROUND-UP

US HWY 90
LAKE CITY, FL 32055

JOB NUMBER: 2023.0377

[illegible]

CHECKED BY:	BEH
DRAWN BY:	BEH
DOCUMENT DATE:	08.11.2023

Joshua D
McCall
This item has
been digitally
signed and
sealed using a
digital signature
Printed copies
of this
document are
not considered
signed and
sealed and the
authentication
code must be
verified on
electronic
copies.
2024.12.09
08:21:01-06'00'

DOCUMENTS THAT DO NOT
HAVE THE ARCHITECT OR
ENGINEER OF RECORD SEAL
AND SIGNATURE SHALL BE
CONSIDERED NOT FOR
CONSTRUCTION

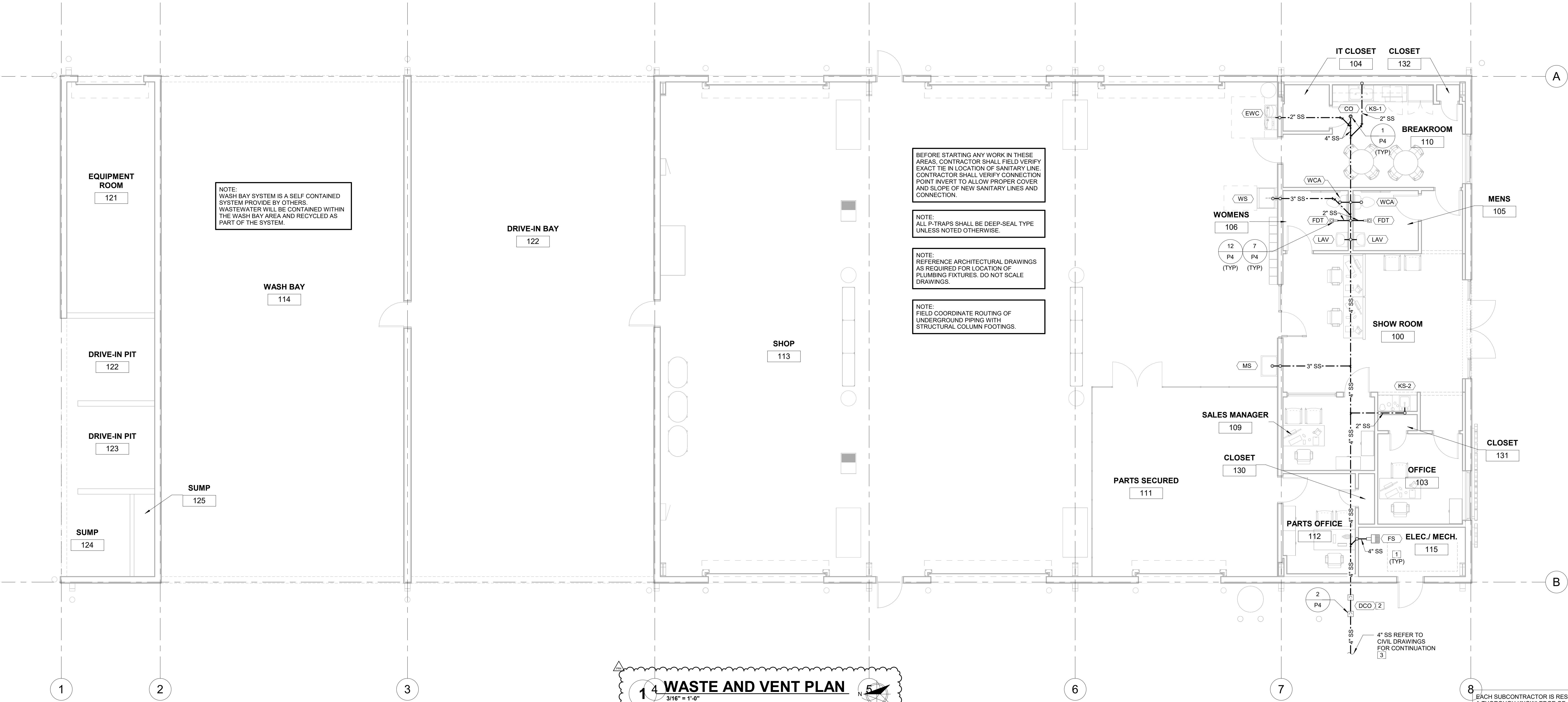
ENLARGED
MECHANICAL
PLANS

SHEET:
M1.1

PLUMBING SYMBOLS			
	DOMESTIC COLD WATER (CW)		GATE VALVE
	DOMESTIC HOT WATER (HW)		BALL VALVE
	HOT WATER RECIRCULATION (HWR)		PLUG VALVE
	SANITARY SEWER (SS)		CHECK VALVE
	GREASE WASTE (GW)		T&P RELIEF VALVE
	CONDENSATE (CD)		WATTER HAMMER ARRESTOR
	GAS (G)		GAS PRESSURE REGULATOR
	ENGINE OIL (OLE)		UNION
	HYDRAULIC OIL (OLH)		ABOVE FINISHED FLOOR
	WASTE OIL (OLW)		BELOW FINISHED FLOOR
	PLUMBING VENT (V)		DEMOLISH AND REMOVE FROM PREMISES
	STORM PIPING (ST)		EXISTING TO REMAIN
	SHUT OFF VALVE (SOV)		ELECTRIC WATER COOLER
	SHUT OFF VALVE IN RISE		FLOOR DRAIN
	FLOOR CLEANOUT (FCO)		FLOOR SINK
	FLOOR DRAIN (FD)		FREEZE PROOF WALL HYDRANT
	FLOOR SINK (FS)		MIXING HOSE BIB
	CONNECT TO EXISTING		INVERT ELEVATION
	ROOF DRAIN (RD)		HOSE BIB
	OVERFLOW ROOF DRAIN (RMD)		URINAL
	YARD CLEANOUT (YCO)		VENT BELOW FLOOR
	TWO-WAY CLEANOUT		VENT BELOW GRADE
	WALL CLEANOUT (WCO)		VENT THRU ROOF
	FREEZE PROOF WALL HYDRANT (FPWH)		WATER CLOSET
	HOSE BIB (HB)		WATER HEATER
	BACKFLOW PREVENTER		THREE-COMPARTMENT SINK
	PRESSURE REDUCING VALVE (PRV)		HAND SINK

PLUMBING KEYNOTES	
#	DESCRIPTION
1	DO NOT INSTALL PLUMBING PIPES ABOVE NEW ELECTRICAL EQUIPMENT OR ELECTRICAL PANELS. COORDINATE INSTALLATION OF OVERHEAD PIPING ACCORDINGLY.
2	TWO-WAY CLEANOUT WITH 2 LONG SWEEP OR 2 COMBINATION WYE AND EIGHTH BENDS (A SINGLE FITTING TWO-WAY CLEANOUT TEE IS NOT ALLOWED).
3	COORDINATE 4" SANITARY SEWER SERVICE WITH AUTHORITY HAVING JURISDICTION AND CIVIL DRAWINGS. FIELD VERIFY EXACT LOCATION PRIOR TO STARTING ANY WORK IN THIS AREA. FIELD VERIFY CONNECTION POINT INVERT TO ALLOW PROPER COVER AND SLOPE OF SANITARY LINES AND CONNECTION.

PLUMBING GENERAL NOTES		
1. NOTES APPLY TO ALL PLUMBING SHEETS.	14. PROVIDE TYPE "L" HARD DRAWN COPPER WATER PIPE ABOVE GRADE. PROVIDE TYPE "K" HARD DRAWN COPPER WATER PIPE BELOW GRADE. INSULATION IS REQUIRED ON ALL WATER SUPPLY PIPING ABOVE FINISHED FLOOR IN ACCORDANCE WITH THE STATE PLUMBING CODE OR PER LOCAL JURISDICTION.	25. PROVIDE DEEP SEAL TRAPS FOR ALL FLOOR DRAINS.
2. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION. IN ALL RESPECTS READY FOR INTENDED USE. AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY THIS WORK.	15. CONTRACTOR TO MAINTAIN A CLEAN WORK ENVIRONMENT AND REMOVE TRASH AND DEBRIS FROM WORK AREA DAILY. ANY CHARGES FOR CLEAN UP CREATED DUE TO NEGLIGENCE WILL BE WITHHELD FROM CONTRACTOR'S RETAINAGE. NO EXCEPTIONS.	26. ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.
3. EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO LACK OF THIS KNOWLEDGE.	16. ALL FIXTURES, PIPING, VALVES, ETC ARE NEW UNLESS DENOTED AS EXISTING.	27. PLUMBING CONTRACTOR SHALL PROVIDE ONE YEAR WARRANTY FOR PROPER SEWER SYSTEM OPERATION.
4. COORDINATE UTILITY CONNECTIONS WITH CIVIL, GC, AND AHJ. PROVIDE PRESSURE REDUCING VALVE AND BACK FLOW PREVENTER AS SHOWN OR REQUIRED BY AHJ.	17. PROVIDE INSULATION ON HOT AND COLD WATER, ROOF DRAIN BODIES, AND HORIZONTAL ROOF DRAIN PIPES. ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, AND PARTITIONS.	28. ALL FLOOR CLEANOUTS SHALL BE INSTALLED FLUSH WITH FLOOR FINISH MATERIAL OR FLUSH WITH CONCRETE SLAB IF NO FLOOR FINISH MATERIAL IS CALLED OUT FOR ON ARCHITECTURAL DRAWINGS.
5. REFER TO RISER DIAGRAMS AND PLUMBING FIXTURE SCHEDULE FOR ALL PIPING AN PIPE SIZES NO SHOWN ON PLAN.	18. ALL GRAVEL FOR BEDDING AND COVER OF WATER AND WASTEWATER PIPING SHALL BE GRADE 4 PEA GRAVEL, ROUNDED WITH NO SHARP CORNERS. ALL WATER AND WASTEWATER PIPING SHALL BE BEDDED 6" BELOW PIPE AND 6" ABOVE PIPE MINIMUM.	29. CAP ALL PIPING OPENINGS DURING CONSTRUCTION UNTIL FINAL CONNECTIONS TO EQUIPMENT AND ACCESSORIES ARE MADE.
6. SANITARY AND STORM SEWER PIPING SHOWN IS BASED ON 1/4" PER FOOT FALL FOR ALL PIPE SMALLER THAN 4" DIAMETER AND 1/8" PER FOOT FALL FOR PIPE 4" DIAMETER AND LARGER.	19. HEAT TAPE SHALL BE PROVIDED FOR ALL DOMESTIC WATER LINES LOCATED IN EXTERIOR WALLS IN CLIMATES WHERE PIPES ARE SUBJECT TO FREEZING.	30. INSTALL CONTINUOUS SEALANT AT ALL EXTERIOR WALL PENETRATIONS.
7. ALL SEWER PIPING BELOW SLAB TO BE 2" DIAMETER MINIMUM.	20. MAINTAIN 36" CLEARANCE FOR INSTALLATION OF DOMESTIC COLD WATER PIPING IN ANY DIRECTION OR OVERTOP AND ALL ELECTRICAL SWITCHGEAR, MAIN DISTRIBUTION PANELS, SUB-PANELS, ETC.	31. FIRE PROTECTION DESIGN IS NOT PART OF THESE DESIGN DOCUMENTS. FIRE PROTECTION DESIGN DRAWINGS SHALL BE PREPARED BY THE FIRE PROTECTION CONTRACTOR AND SUBMITTED FOR REVIEW AND APPROVAL AT THAT TIME.
8. PROVIDE ACCESS DOORS TO ALL CONCEALED VALVES AND CLEAN-OUTS THAT ARE NOT LOCATED ABOVE AN ACCESSIBLE CEILING.	21. ALL SOIL, WASTE AND VENT LINES SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION.	32. ALTERNATE MANUFACTURER'S SHALL BE ACCEPTED FOR THE FIXTURES LISTED IN THE PLUMBING FIXTURE SCHEDULE, UNLESS NOTED OTHERWISE.
9. PROVIDE AUTOMATIC TRAP SEAL PRIMERS AS SHOWN OR AS REQUIRED BY AHJ.	22. THE PLUMBING CONTRACTOR SHALL COORDINATE CLOSELY WITH THE MECHANICAL, FIRE PROTECTION, AND ELECTRICAL CONTRACTORS TO AVOID CONFLICT WITH OTHER TRADES.	33. PROVIDE SEISMIC BRACING BASED ON APPROPRIATE SEISMIC ZONE REQUIREMENTS PER SMACNA PUBLISHED SEISMIC DETAILS, LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING.
10. INSTALL VTR'S AND FLUES A MINIMUM 5'-0" FROM PARAPET OR OUTSIDE WALL UNLESS NOTED OTHERWISE AND 10'-0" MINIMUM ABOVE GRADE AND FROM EQUIPMENT WITH OUTSIDE AIR INTAKE.	23. PROVIDE DRAIN VALVES IN THE HOT AND COLD WATER SYSTEM AT ALL LOW POINTS TO ALLOW FOR COMPLETE DRAINAGE.	
11. INSTALL WATER PIPE ON INSIDE OF EXTERIOR WALL INSULATION TO PREVENT FREEZING.	24. VACUUM BREAKERS SHALL BE PROVIDED FOR ALL FIXTURES TO WHICH HOSES MAY BE ATTACHED. VACUUM BREAKERS SHALL BE PERMANENTLY ATTACHED.	
12. PROVIDE FIRE SEAL WHERE PIPES PENETRATE FIRE RATED ASSEMBLY.		
13. SANITARY DRAINAGE LINES AND FITTINGS (DRAIN, WASTE AND VENT) SHALL BE PVC-DWV PLASTIC SCHEDULE 40, WHERE REQUIRED BY LOCAL CODES, CAST IRON, COATED INSIDE AND OUTSIDE SHALL BE USED. REFER TO		



14 WASTE AND VENT PLAN
3/16" = 1'-0"

pb2
architecture
+engineering

2809 Alca Avenue Suite 100
Rogers, Arkansas 72758
Phone: 479.636.3545
Fax: 479.636.1029

Engineer of Record
Joshua Dale McCall, P.E.
Florida License No. 79905
CCA License No. 26890

STIPULATION FOR REUSE

THIS DRAWING HAS BEEN PREPARED FOR THE USE OF A PARTICULAR PROJECT AND SITE. IT IS NOT TO BE REUSED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF pb2 architecture +engineering. ANY REUSE OF THIS DRAWING FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF pb2 architecture +engineering IS PROHIBITED. THE USER OF THIS DRAWING FOR ANY OTHER PROJECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. pb2 architecture +engineering SHALL NOT BE RESPONSIBLE FOR ANY CONSEQUENCES OF SUCH REUSE.

EQUIPMENT SHARE GROUND-UP

US HWY 90
LAKE CITY, FL 32055

2023.0377

JOB NUMBER:

ISSUE BLOCK

OTP	08.11.2023
PR1 PLAN REV. 1	10.13.2023
PR2 PLAN REV. 2	11.10.2023
PR4 PLAN REV. 4	09.24.2024

CHECKED BY: BEH

DRAWN BY: BEH

DOCUMENT DATE: 08.11.2023

Joshua D McCall
This item has been digitally signed and sealed using a digital signature. Printed copies of this document are not considered signed and sealed and the authentication code must be verified on electronic copies.
2024.12.09
08:17:21-06'00"

DOCUMENTS THAT DO NOT HAVE THE ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION

PLUMBING WASTE AND VENT PLAN

SHEET: P1

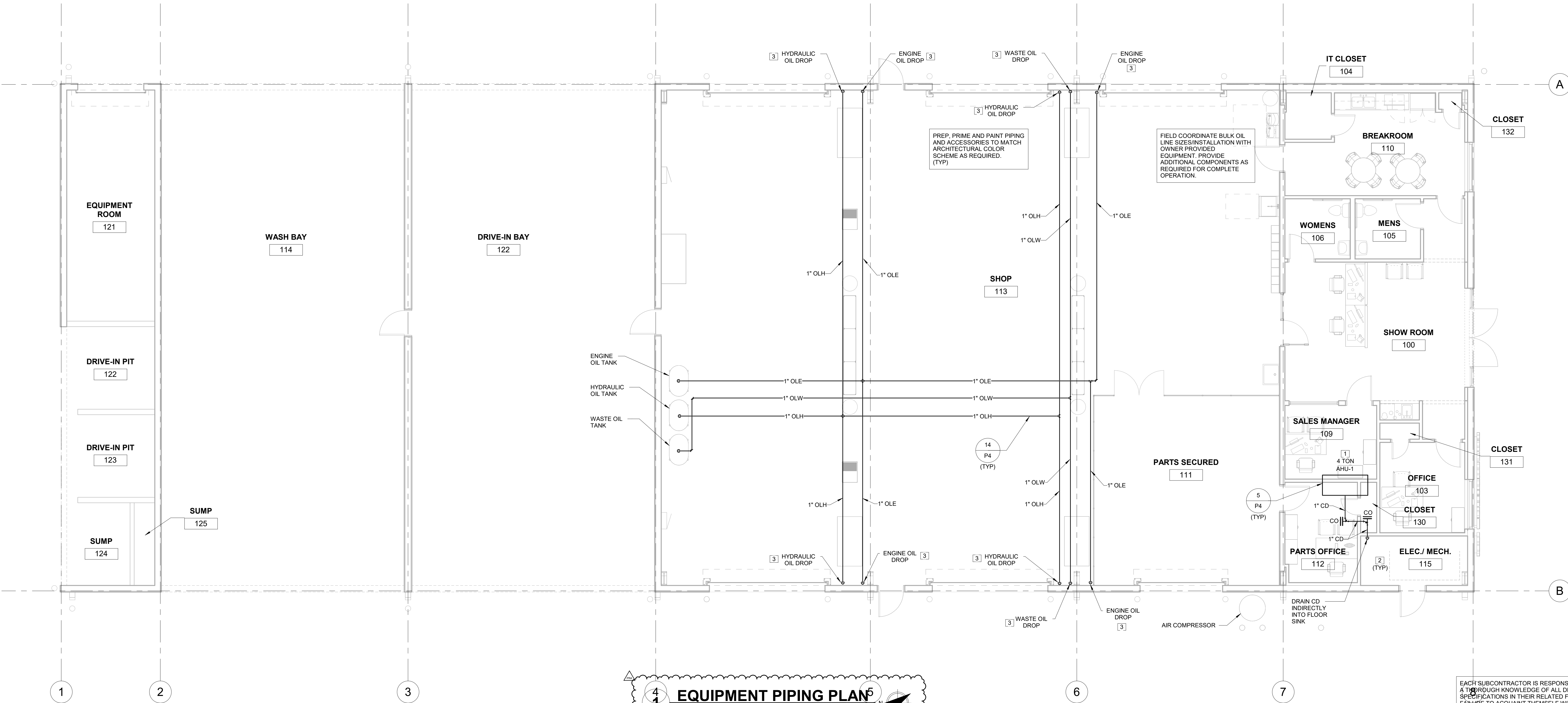
	DOMESTIC COLD WATER (CW)		GATE VALVE
	DOMESTIC HOT WATER (HW)		BALL VALVE
	HOT WATER RECIRCULATION (HWR)		PLUG VALVE
	SANITARY SEWER (SS)		CHECK VALVE
	GREASE WASTE (GW)		T&P RELIEF VALVE
	CONDENSATE (CD)		WATTER HAMMER ARRESTOR
	GAS (G)		GAS PRESSURE REGULATOR
	ENGINE OIL (OLE)		UNION
	HYDRAULIC OIL (OLH)		AFF ABOVE FINISHED FLOOR
	WASTE OIL (OLW)		BFF BELOW FINISHED FLOOR
	PLUMBING VENT (V)		DEMO DEMOLISH AND REMOVE FROM PREMISES
	STORM PIPING (ST)		ETR EXISTING TO REMAIN
	SHUT OFF VALVE (SOV)		EWC ELECTRIC WATER COOLER
	SHUT OFF VALVE IN RISE FLOOR CLEANOUT (FCO)		FD FLOOR DRAIN
	FLOOR DRAIN (FD)		FS FLOOR SINK
	FLOOR SINK (FS)		FPWH FREEZE PROOF WALL HYDRANT
	CONNECT TO EXISTING		MHB MIXING HOSE BIB
	ROOF DRAIN (RD)		I.E. INVERT ELEVATION
	OVERFLOW ROOF DRAIN (RMD)		HB HOSE BIB
	YARD CLEANOUT (YCO)		UR URINAL
	TWO-WAY CLEANOUT		VBF VENT BELOW FLOOR
	WALL CLEANOUT (WCO)		VBG VENT BELOW GRADE
	FREEZE PROOF WALL HYDRANT (FPWH)		VTR VENT THRU ROOF
	HOSE BIB (HB)		WC WATER CLOSET
	BACKFLOW PREVENTER		WH WATER HEATER
			3CS THREE-COMPARTMENT SINK
	PRESSURE REDUCING VALVE (PRV)		HS HAND SINK



EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

PLUMBING KEYNOTES	
#	DESCRIPTION
1	1" CONDENSATE DRAIN LINE FROM AHU. ROUTE DRAIN LINE ABOVE CEILING AND DRAIN INDIRECTLY INTO CODE APPROVED RECEPTOR. REFERENCE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. DO NOT INSTALL PLUMBING PIPES ABOVE NEW ELECTRICAL EQUIPMENT OR ELECTRICAL PANELS. COORDINATE INSTALLATION OF OVERHEAD PIPING ACCORDINGLY.
2	DO NOT INSTALL PLUMBING PIPES ABOVE NEW ELECTRICAL EQUIPMENT OR ELECTRICAL PANELS. COORDINATE INSTALLATION OF OVERHEAD PIPING ACCORDINGLY.
3	PROVIDE CAP FOR OIL PIPES AT 42" AFF.

PLUMBING SYMBOLS			
---	DOMESTIC COLD WATER (CW)	---	GATE VALVE
---	DOMESTIC HOT WATER (HW)	---	BALL VALVE
---	HOT WATER RECIRCULATION (HWR)	---	PLUG VALVE
---	SANITARY SEWER (SS)	---	CHECK VALVE
---	GREASE WASTE (GW)	---	T&P RELIEF VALVE
---	CONDENSATE (CD)	---	WATTER HAMMER ARRESTOR
---	ENGINE OIL (OLE)	---	GAS PRESSURE REGULATOR
---	HYDRAULIC OIL (OLH)	---	UNION
---	WASTE OIL (OLW)	---	ABOVE FINISHED FLOOR
---	PLUMBING VENT (PV)	---	BELOW FINISHED FLOOR
---	STORM PIPING (ST)	---	DEMOLISH AND REMOVE FROM PREMISES
---	SHUT OFF VALVE (SOV)	---	EXISTING TO REMAIN
---	SHUT OFF VALVE IN RISE	---	ELECTRIC WATER COOLER
---	FLOOR CLEANOUT (FCO)	---	FLOOR DRAIN
---	FLOOR DRAIN (FD)	---	FLOOR SINK
---	FLOOR SINK (FS)	---	FREEZE PROOF WALL HYDRANT
---	CONNECT TO EXISTING	---	MIXING HOSE BIB
---	ROOF DRAIN (RD)	---	INVERT ELEVATION
---	OVERFLOW ROOF DRAIN (RMD)	---	HOSE BIB
---	YARD CLEANOUT (YCO)	---	URINAL
---	TWO-WAY CLEANOUT	---	VENT BELOW FLOOR
---	WALL CLEANOUT (WCO)	---	VENT BELOW GRADE
---	FREEZE PROOF WALL HYDRANT (FPWH)	---	VENT THRU ROOF
---	HOSE BIB (HB)	---	WC WATER CLOSET
---	BACKFLOW PREVENTER	---	WH WATER HEATER
---	PRESSURE REDUCING VALVE (PRV)	---	THREE-COMPARTMENT SINK
---		---	HS HAND SINK



EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACCQUANT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

pb2
architecture
+engineering

2809 Alax Avenue Suite 100
Rogers, Arkansas 72756
Phone: 479.634.3545
Fax: 479.634.1209

Engineer of Record
Joshua Dale McCall, P.E.
Florida License No. 79905
CCA License No. 24880

STIPULATION FOR REUSE

THIS DRAWING HAS BEEN PREPARED FOR THE USE OF A PARTICULAR PROJECT AND SITE. IT IS NOT TO BE REUSED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF pb2 architecture +engineering. ANY REUSE OF THIS DRAWING FOR ANY OTHER PROJECT OR SITE WITHOUT THE WRITTEN PERMISSION OF pb2 architecture +engineering IS STRICTLY PROHIBITED. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES.

EQUIPMENT SHARE GROUND-UP

US HWY 90
LAKE CITY, FL 32055

JOB NUMBER: 2023.0377

ISSUE BLOCK

OTP	08.11.2023
PR1 PLAN REV. 1	10.13.2023
PR2 PLAN REV. 2	11.10.2023
PR4 PLAN REV. 4	09.24.2024

CHECKED BY: BEH

DRAWN BY: BEH

DOCUMENT DATE: 08.11.2023

Joshua D McCall

This item has been digitally signed and sealed using a digital signature. Printed copies of this document are not considered signed and sealed and the authentication code must be verified on electronic copies.

2024.12.09 08:20:42-0600

DOCUMENTS THAT DO NOT HAVE THE ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION

EQUIPMENT PIPING PLAN

SHEET: P3

PLUMBING SPECIFICATIONS

THE WORK INCLUDES MODIFICATION TO THE EXISTING PLUMBING SYSTEM AND PROVIDING NEW MATERIALS, FITTINGS, AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING PLUMBING SYSTEM. THE WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND/OR ORDINANCES AND IS SUBJECT TO INSPECTION.

HOOK-UP CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS A PART OF THIS SECTION.

THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR PLUMBING WORK SHALL BE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, FIXTURES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT REQUIREMENTS. REFER TO THE MANUFACTURER'S SPECIFICATIONS FOR EXACT FIXTURES, FIXTURE INSTALLATION REQUIREMENTS, COMPLY WITH ALL APPLICABLE ADA INSTALLATION REQUIREMENTS.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, AND WITH THE CONSTRAINTS OF THE EXISTING WORK AND THE INTENT OF THE PROJECT.

PIPING SYSTEMS - GENERAL. 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 AREAS, BEING AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR THE INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUITS. CONCEALED PIPING SHALL BE INSTALLED IN UNFINISHED NONFERROUS PIPE, PROVIDE AN ISOLATING DIELECTRIC UNION, ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION.

PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE PLUMBING SYSTEMS FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.

FIXTURES/EQUIPMENT FURNISHED BY OTHERS: PLUMBING CONTRACTOR SHALL PROVIDE UTILITY CONNECTIONS REQUIRED SUCH AS WATER, GAS, SUPPLIES, WASTE OUTLET, TRAPS, ETCETERA AT ALL CONNECTIONS TO THE PLUMBING SYSTEM. THE CONTRACTOR SHALL GENERAL CONTRACTOR, EQUIPMENT SUPPLIER, ETCETERA. INCLUDED ARE STAMP VALVES, ESCUTCHIONS, AND CHROME PLATED BRASS TUBING WITH COMPRESSION FITTINGS.

SANITARY SEWER PIPING: PROVIDE ALL DRAINS AND PIPING WITHIN THE PROJECT SPACE WITH CONNECTION TO THE EXISTING DRAINAGE SYSTEMS ON SITE. SANITARY DRAINAGE PIPING ABOVE FLOOR SHALL BE ABS/PPV PLASTIC PIPE (WHERE APPROVED BY LOCAL AUTHORITY) WITH SOLVENT WELD FITTINGS, OR HUBLESS CAST IRON PIPE AND FITTINGS AND CONNECTIONS. SANITARY DRAINAGE PIPING BELOW GRADE SHALL BE ABS/PPV PLASTIC PIPING (WHERE APPROVED BY LOCAL AUTHORITY) WITH SOLVENT WELD FITTINGS, OR SERVICE WEIGHT HUB AND SPIGOT TYPE CAST-IRON WITH NEOPRENE GASKET JOINT SYSTEM. NO ABS/PPV PLASTIC PIPING IS ALLOWED WITHIN THE LINE VENT NON-DUCTED RETURN AIR PLenums. ALL DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED AT 1/4" PER FOOT FOR PIPE SIZES 3" AND SMALLER AND 1/8" PER FOOT FOR PIPE SIZES 4" AND LARGER. PROVIDE THE CONNECTION TO THE EXISTING CONDITIONS OR INDICATED ON THE DRAWINGS.

SANITARY VENT PIPING: PROVIDE A COMPLETE SYSTEM OF ABS/PPV PLASTIC PIPE (WHERE APPROVED BY LOCAL AUTHORITY) WITH SOLVENT WELD FITTINGS, OR HUBLESS CAST IRON PIPE AND FITTINGS. NO ABS/PPV PLASTIC PIPING IS ALLOWED WITHIN THE CEILING VOIDS IF USED FOR NON-DUCTED RETURN AIR PLENUMS. THE DRAINAGE PIPING SHALL BE CARRIED THROUGH THE ROOF WITH APPROPRIATE FLASHING.

CONDENSATE AND INDIRECT DRAIN PIPING: TYPE M COPPER TUBING UP TO 1"-ID, TYPE DWV COPPER TUBING AND FITTINGS FOR 1 1/4"- AND LARGER SIZES.

STORM WATER PIPING: PROVIDE ALL STORM DRAINS AND PIPING WITHIN THE PROJECT SPACE WITH CONNECTION TO THE EXISTING STORM DRAINAGE SYSTEM. STORM DRAINAGE PIPING SHALL BE ABS/PPV PLASTIC PIPE, WITH SOLVENT WELD FITTINGS, OR HUBLESS CAST-IRON PIPE AND FITTINGS AND CONNECTIONS. STORM PIPING SHALL BE UNIFORMLY PITCHED AT 1/4" PER FOOT FOR PIPE SIZES 3" AND SMALLER, OR SERVICE WEIGHT HUB AND SPIGOT TYPE CAST-IRON WITH NEOPRENE GASKET JOINT SYSTEM. NO ABS/PPV PLASTIC PIPING IS ALLOWED WITHIN THE CEILING VOIDS IF USED FOR NON-DUCTED RETURN AIR PLENUMS. ALL STORM PIPING SHALL BE UNIFORMLY PITCHED AT A MINIMUM OF 1/8" PER FOOT UNLESS OTHERWISE SPECIFIED OR REQUIRED BY EXISTING CONDITIONS, OR INDICATED ON THE DRAWINGS.

CLEANOUTS: PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL STORM, WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZES AS THE PIPES THEY SERVE. PROVIDE CLEANOUTS AT THE BASE OF EACH VERTICAL STORM, WASTE OR FLOOR CLEANOUTS WITH ACCESSORIES TO OBSCURE FROM VIEW.

WATER DISTRIBUTION PIPING: LAYOUT WATER PIPING SO THAT THE ENTIRE SYSTEM CAN BE DRAINED, ABOVE GRADE HOT AND COLD WATER PIPING SHALL BE 1/2" MINIMUM TYPE K COPPER TUBING WITH WROUGHT COPPER COUPLERS AND FITTINGS. ABOVE GRADE HOT AND COLD WATER PIPING SHALL BE 1/2" MINIMUM TYPE K COPPER TUBING WITH WROUGHT COPPER FITTINGS AND SWEAT CONNECTIONS. PROVIDE THE CONNECTION TO THE EXISTING WATER FIXTURE OR GROUP OF FIXTURES AS REQUIRED. INSTALL CHROME PLATED BRASS ESCUTCHION PLATES AT ALL PENETRATIONS THROUGH FINISHED SURFACES (FLOOR, CEILING, WALLS, ETC.) USE LEAD FREE OR TIN-ANTIMONY SOLDER, 95% FOR ALL SWEAT FITTINGS OF COPPER PIPING.

PIPE INSULATION: RIGID ONE-PIECE FIBERGLASS PIPE INSULATION WITH REQUIREMENTS COMPLYING WITH ASTM C 547. SMALL-SEALING THICKNESS: 1/2" THICKNESS. OVERFLOW HOT WATER PIPING 2" AND SMALLER: 1/2" THICKNESS. DOMESTIC HOT WATER PIPING 2" AND SMALLER: 1/2" THICKNESS. DOMESTIC COLD WATER PIPING 2" AND SMALLER: 1/2" THICKNESS. PLUMBING VENT PIPING WITHIN 6 FEET OF ROOF OUTLET: 1" THICKNESS. OVERFLOW HOT WATER PIPING 2" THICKNESS. DOMESTIC HOT WATER PIPING 2" THICKNESS. DOMESTIC COLD WATER PIPING 2" AND SMALLER: 1" THICKNESS.

WATER AND WASTE PIPING BELOW HANDICAP LAVATORY/SINKS:

PIPE INSULATION: FLEXIBLE, ONE PIECE, EXPANDED CLOSED-CELL POLYESTER FIBER INSULATION WITH REQUIREMENTS COMPLYING WITH ASTM C 518. SMALL-SEALING, WITH A MAXIMUM VAPOR TRANSMISSION RATING OF 0.2 PERM WHEN TESTED ACCORDING TO ASTM E 96. THERMAL RESISTANCE (R-VALUE) IS 0.27 BTU/IN-HR * FT2 * F. AT 75°F. MEAN TEMPERATURE WITH A MINIMUM R-VALUE OF 0.37, AND INSULATION AND JACKET SHALL BE RATED FOR OPERATING TEMPERATURES FROM 40°F TO 180°F.

PIPE INSULATION THICKNESS AS INDICATED:

DOMESTIC HOT WATER PIPING 2" AND SMALLER: 1/2" THICKNESS. DOMESTIC HOT WATER PIPING 2" AND SMALLER: 1/2" THICKNESS. SANITARY PIPING 2" AND SMALLER: 1/2" THICKNESS.

SHUTOFF VALVES WITH UNIONS SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE. THE OTHER EQUIPMENT ITEM, TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT, PIPING LINE VALVES SHALL BE EQUAL TO CRANE SERIES #2000, QUART TURN BALL VALVE. CONCEALED VALVES SHALL BE 1/2" NPT, STANDARD COMPLIANCE CHROME PLATED BRASS BALL, REPLACEABLE TEFLON OR TEF: SEATS AND SEALS. RATINGS: 150-PSI SW, 600-PSI WOG. CONNECTIONS - SOLDER OR WELDED. VALVE SHALL BE 1/2" NPT. VALVE SHALL BE 1/2" NPT. BRASS VALVE OR BRASS VALVES: MSS-SP-110. WHEN SHUTOFF VALVES ARE PLACED IN THE CEILING THE VALVES SHALL BE LOCATED A MAXIMUM OF 12" ABOVE THE CEILING. THE CONNECTION SHALL BE PLACED BETWEEN THE CEILING ANGLE AND THE VALVES.

ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETCETERA ARE CONCEALED WITHIN WALLS, WHERE CONCEALED VALVES ARE LOCATED IN THE CEILING, AND IN PROPER LAY-IN SUSPENDED CEILING, ACCESS PANELS ARE NOT REQUIRED.

INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS POSSIBLE TO PREVENT DRYING OF THE CEILING MATERIAL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT, AND OMT ESCUTCHIONS.

REPAIR EXISTING PLUMBING SYSTEMS COMPLEMENTS DAMAGED BY CONSTRUCTION OPERATIONS AND TESTING INDICATES ORIGINAL CONDITIONS.

TEST WATER PIPING UNDER 150 PSI HYDROSTATIC PRESSURE, FOR LEAKS. TEST WASTE PIPING UNDER 15 PSI HYDROSTATIC PRESSURE. IF WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

PROVIDE A COMPLETE GAS PIPING SYSTEM TO SERVE GAS FIRED HVAC EQUIPMENT AS NOTED ON THE DRAWINGS. PROVIDE EITHER 1/2" OR 3/4" GAS PIPING WITH 1/2" OR 3/4" MALL SEALS, FITTINGS OR WELDED STEEL. PROVIDE ALL UNIONS, SHUT-OFF VALVES AND DIRT LEGS REQUIRED BY NFPA-34 AND GOVERNING LOCAL CODES AND AT THE GAS METER AND LAKEVIEW. PROVIDE THE CONNECTION TO THE EXISTING INSPECTIONS, HANGERS AND EQUIPMENT CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. PAINT GAS PIPING TO MATCH THE EXISTING GAS PIPING. PROVIDE THE CONNECTION TO THE EXTERIOR OF THE BUILDING WITH REST RESTANTIVE TYPE VALVE.

PIPE MATERIAL SCHEDULE		
SERVICE	UNDERGROUND	ABOVE GROUND
COLD & HOT WATER	SOFT DRAWN COPPER TUBE TYPE "K"	HARD DRAWN COPPER TUBE
SANITARY WASTE	CAST IRON SCHEDULE 40 PVC SCHEDULE 40	CAST IRON SCHEDULE 40 PVC SCHEDULE 40
SANITARY VENT	CAST IRON SCHEDULE 40 PVC SCHEDULE 40	CAST IRON SCHEDULE 40 PVC SCHEDULE 40
INDIRECT DRAIN	-	HARD DRAWN COPPER TUBE TYPE "M"
OIL PIPING	-	ASTM A53 SCHEDULE 40 BLACK STEEL PIPE

GENERAL INFORMATION:
 1. ALL MATERIALS SHALL BE APPROVED BY THE OWNER.
 2. NO PVC PLASTIC PIPING IS ALLOWED WITHIN CEILING VOIDS IF USED FOR NON-DUCTED RETURN AIR FLENUM.

WATER HEATING SYSTEM SCHEDULE									
MARK	MANUFACTURER	TYPE	MODEL	TANK SIZE GPM	VOLTS	PH	HEATING TYPE	WATTS	REMARKS
A1	A.O. SMITH	COMMERCIAL	DEL-20	20	120	1	ELECTRIC	2,500	A.B
GENERAL INFORMATION (TANK TYPE WATER HEATERS AS APPLICABLE):									
1. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS.									
2. PROVIDE ASME PRESSURE RELIEF VALVE FOR ALL WATER HEATERS AS REQUIRED.									
3. PROVIDE VACUUM RELIEF VALVES FOR ALL WATER HEATERS AS REQUIRED.									
REMARKS:									
A. INSTALL WATER HEATER ON SUSPENDED SUPPORT PLATEFORM. SECURE TO STRUCTURE PER MANUFACTURER INSTALLATION INSTRUCTION.									
B. PROVIDE EXPANSION TANK EQUAL TO AMTROL ST-12.									

PUMP SCHEDULE									
MARK	MANUFACTURER	MODEL	APPROVED EQUALS	DESCRIPTION	VOLTS	PH	WATTS	GPM	HEAD
P1	BELL & GOSSETT	PL-36B	GRUNDFOS UP15-18B7	LEAD FREE BRONZE WET ROTOR INLINE CIRCULATOR PUMP WITH 3/4" SWEATED CONNECTIONS.	120	1	125	35	5 FT

PLUMBING FIXTURE SCHEDULE									
WCA	FIXTURE	MANUFACTURER	MODEL	BRANCH SIZES (MIN.)			DESCRIPTION	REMARKS	
				CW	HW	WASTE			
MA	A.D.A. WATER CLOSET	SLOAN	ST-2029	1-1/4"	4"	2"	SLOAN, LOW CONSUMPTION (1.28 GPF) MODEL #ST-2029-A, FLUSH VALVE: REGAL 111XL, WHITE: CHURCH ELONGATED OPEN FRONT SEAT WITHOUT PLASTIC COVER, NEW A.D.A., WATER CLOSET WITH COLD WATER TRAP WITH SHUT-OFF VALVE, FLOOR MOUNTED WITEROUS CHINA, CERAMIC SET FLOOR MOUNTED WITEROUS CHINA, FRONT OVERLAY SELF CENTERING, FURNISH WITH TRAP 28943-PC GRID DRAIN AND CONTINUOUS TALLPIPE, VANDAL-RESISTANT AERATOR, CENTERSET FAUCET WITH FACTORY SET FOR A MAXIMUM OF 0.5 GALLON FLOW, ZURN 21021W-LP-PC TRAP PRIMER WITH TRAP ARM AND ZURN 28946-INT ADA PROTECTOR COMBINATION KIT, ZURN 28804-LI-LR-PC SUPPLIES AND STOPS, PROVIDE CALCULATING AROUND LAVATORY, PROVIDE WITH 21231 CONCEALED ARM LAVATORY CARRIER INSTALLED IN WALL.	A	
LAV	A.D.A. LAVATORY WALL MOUNTED	ZURN	ZS344	1/2"	1/2"	2"	1-1/2"	ZURN ZS344 "WHITE" WALL MOUNT, WITH ZURN Z7440-XL CENTERSET FAUCET NO LIFT ROD HOLE, WALL MOUNTED WITEROUS CHINA, FRONT OVERLAY SELF CENTERING, FURNISH WITH ZURN 28943-PC GRID DRAIN AND CONTINUOUS TALLPIPE, VANDAL-RESISTANT AERATOR, CENTERSET FAUCET WITH FACTORY SET FOR A MAXIMUM OF 0.5 GALLON FLOW, ZURN 21021W-LP-PC TRAP PRIMER WITH TRAP ARM AND ZURN 28946-INT ADA PROTECTOR COMBINATION KIT, ZURN 28804-LI-LR-PC SUPPLIES AND STOPS, PROVIDE CALCULATING AROUND LAVATORY, PROVIDE WITH 21231 CONCEALED ARM LAVATORY CARRIER INSTALLED IN WALL.	-
KS-1	COUNTERTOP SINK	ELKAY	LRAD291850	1/2"	1/2"	2"	1-1/2"	ELKAY LRAD291850, 18-GAUGE STAINLESS STEEL, DOUBLE COMPARTMENT SINK, SELF RIMMING WITH 1-3/4" RADIUS CORNER CORNERS, FULLY COATED UNDERSIDE, 4 HOLES, 29" x 18" x 5", ELKAY ELK801GNBL2, DECK MOUNTED FAUCET WITH 8" GOOSENECK, 8" CENTER, AERATOR AND QUARTER OPERATING CARTRIDGE, POLISHED CHROME FINISH, SIDE HOSE SPRAYER BASKET STRAINER AND DRAIN, SWIVEL LUIG, QUICK LOCK INSTALLATION GARBAGE DISPOSAL.	B
KS-2	COUNTERTOP SINK	ELKAY	LRAD151750	1/2"	1/2"	2"	1-1/2"	ELKAY LRAD151750, 18-GAUGE STAINLESS STEEL, SINGLE COMPARTMENT SINK, SELF RIMMING WITH 1-3/4" RADIUS CORNER CORNERS, FULLY COATED UNDERSIDE, 1 HOLE, 15" x 17-1/2" x 5", DELTA 1958L CHROME BAR FAUCET WITH CHROME SINGLE LEVER HANDLE, POLISHED CHROME FINISH, BASKET STRAINER AND DRAIN.	-
EWG	HILOW DRINKING FOUNTAIN	ELKAY	LMABFTL8WSLK	1/2"	-	2"	1-1/2"	ELKAY LMABFTL8WSLK, STAINLESS STEEL, WALL MOUNTED, DOUBLE STATION, FURNISH WITH WASTE DRAIN WITH TRAP, SUPPLY, STOP AND WALL HANGER, PROVIDE WITH EMBF AM98 AS REQUIRED, EXACT COLOR AND FINISH TO BE SELECTED BY ARCHITECT, SUPPLIES AND STOPS, ZURN X8804-XL-LR-PC.	-
MS	REJANITOR FLOOR MOUNT	FIAT	MB-2424	3/4"	3/4"	3"	2"	FIAT #MB-2424 FLOOR MOUNT, #83-A-A FAUCET WITH VACUUM BREAKER, MOLDED STONE, FURNISH WITH FIAT MODEL #E-77-A VYNL BUMPER GUARD, MODEL #832 HOSE AND BRACKET, MODEL #88B-CC MCP HANGER, PROVIDE CALCULATING AROUND MCP SINK, APPROVED EQUALS SHALL BE ACCEPTED.	-
WS	STAINLESS STEEL UTILITY SINK	ULINE	H-10304	3/4"	3/4"	3"	2"	ULINE STAINLESS STEEL UTILITY SINK MODEL H-10304, WALL OUTLET WITH SUPPLY AND VENT OFF DRAIN, H-10305 1/2" CHROME SWIVEL FAUCET WITH SINGLE TEMPERATURE VALVE, SUPPLIES AND STOPS, REQUIRE 185 AS REQUIRED, PROVIDE CALCULATING AROUND ADJACENT WALL, PROVIDE ADDITIONAL ITEMS AS REQUIRED FOR COMPLETE OPERATION.	-
NBE	NOSE BELL	ZURN	Z7440	1/2"	-	-	-	ZURN Z7440-XL CENTERSET FAUCET NO LIFT ROD HOLE, WALL MOUNTED WITEROUS CHINA, FRONT OVERLAY SELF CENTERING, FURNISH WITH TRAP 28943-PC GRID DRAIN AND CONTINUOUS TALLPIPE, VANDAL-RESISTANT AERATOR, CENTERSET FAUCET WITH FACTORY SET FOR A MAXIMUM OF 0.5 GALLON FLOW, ZURN 21021W-LP-PC TRAP PRIMER WITH TRAP ARM AND ZURN 28946-INT ADA PROTECTOR COMBINATION KIT, ZURN 28804-LI-LR-PC SUPPLIES AND STOPS, PROVIDE CALCULATING AROUND LAVATORY, PROVIDE WITH 21231 CONCEALED ARM LAVATORY CARRIER INSTALLED IN WALL.	-
W.H.A.	WATER HAMMER ARRESTER	SIoux CHIEF	652-A	SEE PLANS	-	-	-	APPROVED EQUALS SHALL BE ACCEPTED.	-
FDT	FLOOR DRAIN	ZURN	Z415S-ZN4H-P	1/2"	-	SEE PLANS	SEE PLANS	ZURN MODEL Z415S-ZN4H-P CAST IRON BODY WITH FLASHING COLLAR, TRAP PRIMER CONNECTION AND ADJUSTABLE NICKEL BRONZE STRAINER HEAD AND 6 X 6 NICKEL BRONZE SQUARE TOP.	-
FS	FLOOR SINK	WADE	9140-16-27-179	-	-	SEE PLANS	SEE PLANS	LIGHT DUTY, ACID RESISTANT, WHITE PVC FLOOR SINK WITH 12" SQUARE NICKEL BRONZE TOP AND ALUMINUM DEBRIS BUCKET WITH LIFTING HANDLE.	-
CO	CLEANOUT	WADE	W-6000-2-12-75 (FLOOR), W-6000-2-12-75-X (EXTERIOR PAVING, EXTERIOR WALKS & SITE)	-	-	SEE PLANS	SEE PLANS	CAST IRON FERRULE AND PLUG, DURA-COATED CAST IRON, DOUBLE-FLANGED HOUSING, AND EXTRA HEAVY DUTY SCORATED CAST IRON COVER WITH LIFTING DEVICE, VANDAL-PROOF SCREWS.	-
DCO	DOUBLE CLEANOUT	WADE	W-6000-2-12-75 (FLOOR), W-6000-2-12-75-X (EXTERIOR PAVING, EXTERIOR WALKS & SITE)	-	-	SEE PLANS	SEE PLANS	CAST IRON FERRULE AND PLUG, DURA-COATED CAST IRON, DOUBLE-FLANGED HOUSING, AND EXTRA HEAVY DUTY SCORATED CAST IRON COVER WITH LIFTING DEVICE, VANDAL-PROOF SCREWS, DOUBLE CLEANOUT WITH SWEEPING ELEVATOR.	-

GENERAL INFORMATION (ALL FIXTURES):

1. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL BUT NOT LIMITED TO ALL PLUMBING FIXTURES, P-TRAPS WITH CLEANOUT PLUG, SINK CONTINUOUS WASTES, WATER SUPPLIES AND STOP VALVES AS REQUIRED FOR COMPLETE OPERATION.
2. REFERENCE MANUFACTURER INSTALLATION INSTRUCTIONS OF ALL FIXTURES FOR ROUGH-IN HEIGHTS PRIOR TO INSTALLATION.
3. INSULATE PIPING BELOW FLOOR FINISH PER TABSADA REQUIREMENTS
4. PROVIDE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF TOILETS, FIXTURES & DRAINS. DO NOT SCALE DRAWINGS.
5. PROVIDE ASSE 1700 RATED TMW AT ALL HAND SINK AND LAVATORIES.
6. PROVIDE CAULING AT ALL PLUMBING FIXTURES WHEN IN CONTACT WITH EXPOSED SURFACES.
7. ITEMS LISTED ARE PROVIDED TO ESTABLISH A STANDARD, APPROVED EQUALS SHALL BE ACCEPTED.

REMARKS:

- A. COORDINATE WATER ROUGH-IN HEIGHT FROM MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH GRAB BAR LOCATION, REF ARCH-B.
- B. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL BADGER MODEL #ISE-5, 120V/1PH, 1/2 HP GARBAGE DISPOSAL.

SPECIALTY PLUMBING FIXTURE SCHEDULE				
MARK	FIXTURE	FIXTURE DESCRIPTION	MANUFACTURER	APPROVED EQUALS
---	VALVES	BRASS BALL VALVES WITH PLASTIC JACKETED LEVER TYPE HANDLE.	APOLLO SERIES 70LF	RED-WHITE 5044AB OR 5049AB ; CRANE LF9210 SERIES WATTS FBV-3C OR FBV5-3C ; NIBCO F6-600-A
---	DOUBLE-CHECK VALVE BACKFLOW PREVENTER	INCLUDE TWO INDEPENDENT-ACTING CHECK VALVES, TWO SHUT-OFF VALVES, AND REQUIRED MEANS FOR TESTING FOR EACH ASSEMBLY. MINIMUM 175 PSI WORKING PRESSURE.	WATTS LF900QT OR LF719	BEECO FDC-L ; FEBCO LF850 ; WILKINS 350XL OR 950XL T2
---	REDUCED PRESSURE BACKFLOW PREVENTER	PROVIDE STRAINER, SHUT-OFF VALVES AND TEST COCKS: INSTALL DRAIN LINE WITH AIR GAP ASSEMBLY TO RECEPTOR APPROVED BY AUTHORITY HAVING JURISDICTION. MINIMUM 175 PSI WORKING PRESSURE.	WATTS LF900QT OR LF909	HERSEY FRP-II ; FEBCO LF860 ; WILKINS 375XL OR 975XL
---	LOCKABLE SHUT-OFF VALVES	BRASS BALL VALVES WITH PLASTIC JACKETED LEVER TYPE HANDLE.	APOLLO SERIES 75-100	RED-WHITE 5042 ; CRANE T-285 ; WATTS B-6000 OR B-6001
---	TRAP PRIMER (SINGLE TRAP)	PROVIDE ALL BRONZE PRIMER VALVE WITH REMOVABLE OPERATING PARTS, INTEGRAL VACUUM BREAKER, AND GASKETED ACCESS COVER.	WATTS A200	SIULX CHIEF SERIES 695; PRECISION PLUMBING PRODUCTS PRIME-RITE OR OREGON #1
---	TRAP PRIMER (MULTIPLE TRAPS)	PROVIDE ALL BRONZE PRIMER VALVE WITH REMOVABLE OPERATING PARTS, INTEGRAL VACUUM BREAKER, GASKETED ACCESS COVER, AND MULTIPLE TRAP CAPABILITY.	PRECISION PLUMBING PRODUCTS PRIME-RITE OR OREGON #1	SIULX CHIEF SERIES 695 ; MIFAB M-500 ; JOSAM 88300; PRECISION PLUMBING PRODUCTS PRIME-RITE OR OREGON #1
---	VACUUM RELIEF VALVE	LEAD FREE, BRASS BODY, CSA/ANSI Z21.22	WATTS LFN36-M1	-

GENERAL INFORMATION (ALL FIXTURES):
1. THIS SCHEDULE IS COMPREHENSIVE. ALL MARKS MAY OR MAY NOT BE USED ON THE PLANS.

2809 Ajax Avenue Suite 100
Rogers Arkansas 72758
Phone: 479.636.3545
Fax: 479.636.1209

Engineer of Record
Joshua Dale McCall, P.E.
Florida License No. 79905
COA License No. 26880

DRAWING WAS PREPARED FOR
ON A SPECIFIC SITE AT:
CITY, FL 32055
ITEM-CORRESPONDING WITH ITS ISSU
ON 08.11.2023 AND IT IS NOT
ABLE FOR USE ON A DIFFERENT
SITE OR AT A LATER TIME. U
THIS DRAWING FOR REFERENCE C
ON ANOTHER PROJECT
LURES THE SERVICES OF PROPER
CONSULTANTS, ARCHITECTS AND ENGINEERS
PRODUCTION OF THIS DRAWING FOR
USE ON ANOTHER PROJECT IS NOT
AUTHORIZED AND MAY BE CONTRARY
LAW.

EQUIPMENT SHARE GROUND-UP

US HWY 90
LAKE CITY, FL 32055

JOB NUMBER: 2023.0377

[illegible]

Joshua D
McCall
This item has
been digitally
signed and
sealed using a
digital signature
Printed copies
of this
document are
not considered
signed and the
authentication
code must be
verified on
electronic
copies.
2024.12.09
08:20:26-06'00

DOCUMENTS THAT DO NOT
HAVE THE ARCHITECT OR
ENGINEER OF RECORD SEAL
AND SIGNATURE SHALL BE
CONSIDERED NOT FOR
CONSTRUCTION

HEET: P5

HEET: P5