

PLUMBING ABBREVIATIONS

(E) EXISTING TO REMAIN	DWV DRAIN, WASTE AND VENT	MBH THOUSAND BTU PER HOUR
A AMPS	E EXISTING	MC MECHANICAL COUPLING
ABI ALTERNATE BID ITEM	EW EMERGENCY EYE/FACE WASH	MCA MINIMUM CIRCUIT AMPACITY
AFB ABOVE FINISHED FLOOR	EFF EFFICIENCY	MCC MOTOR CONTROL CENTER
AGD ABOVE GROUND	EL ELEVATION	MFR MANUFACTURER
AHJ AUTHORITY HAVING JURISDICTION	ELEC ELECTRIC	MIN MINIMUM
ALUM ALUMINUM	EQPT EQUIPMENT	MMBH MILLION BTU PER HOUR
ANG AIR NATIONAL GUARD	ESHW EMERGENCY SHOWER/EYE WASH	MOCP MINIMUM OVER CURRENT PROTECTION
APPROX APPROXIMATELY	ETW EXPANSION TANK	MSS MANUFACTURERS STANDARDIZATION SOCIETY
ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS	ETR EXISTING TO REMAIN	MTL MATERIAL
ASL ABOVE SEA LEVEL	EWC ELECTRIC WATER COOLER	NA NOT APPLICABLE
ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS	F FAHRENHEIT	NC NORMALLY CLOSED
ASSE AMERICAN SOCIETY OF SANITARY ENGINEERS	FCO FLOOR CLEANOUT	NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS	FD FLOOR DRAIN	NFPA NATIONAL FIRE PROTECTION ASSOCIATION
BO BID OPTION	FLA FULL LOAD AMPS	NG NATURAL GAS
BHF BUTT HEAT FUSION	FLOW FLOW OR FLOWRATE	NH NO-HUB
BLDG BUILDING	FFM FEET PER MINUTE	NHC NO-HUB COUPLING
BO BACKFLOW PREVENTION DEVICE	FS FLOOR SINK	NO NOT IN CONTRACT
BR BRAZE	FT FEET	NOM NOMINAL
BRSS BRASS	FTWC FEET WATER COLUMN PRESSURE	NPSH NET POSITIVE SUCTION HEAD
BRZ BRONZE	GAL GALLON OR GAUGE	NPSHA NPSH AVAILABLE
BS BLACK (MILD) STEEL	GBS GASKETED BELL AND SPIGOT	OD OUTSIDE DIAMETER
BTU BRITISH THERMAL UNIT	GPM GALLONS PER MINUTE	OFCI OWNER FURNISHED, CONTRACTOR INSTALLED
BW BUTT WELD	GR GROOVED	OFCI OWNER FURNISHED, OWNER INSTALLED
BZ BRONZE	GS GALVANIZED STEEL	P PRESSURE
CI CAST IRON	H HEIGHT	PCN PLANT CONTROL NETWORK
CISPI CAST IRON SOIL PIPE INSTITUTE	HC HOSE CONNECTION	PD PRESSURE DROP/DIFFERENTIAL
CL CENTERLINE	HDB HYDROSTATIC DESIGN BASIS	PDI PLUMBING DEVELOPMENT INSTITUTE
COMP COMPRESSOR	HOA HAND-OFF-AUTO	PE POLYETHYLENE
COR CONTRACTING OFFICER'S REPRESENTATIVE	HP HORSE POWER	PH PHASE
CRA CONCRETE REACTION ANCHOR	HX HEAT EXCHANGER	PL PLACES
CS CARBON STEEL	HZ HERTZ	PP POLYPROPYLENE
CTCLG CLOSE TO CEILING	IAW IN ACCORDANCE WITH	PPH POUND PER HOUR
CTCLM CLOSE TO COLUMN	IBNLT INCLUDED BUT NOT LIMITED TO	PREV PRESSURE REDUCING VALVE
CTW CLOSE TO WALL	ID INSIDE DIAMETER	PSI POUNDS PER SQUARE INCH
CU COPPER OR CUBIC	IE INVERT ELEVATION	PSIA PSI ABSOLUTE
DBA DECIBELS, BAND A	IN INCH	PSID PSI DIFFERENTIAL
DCVA DOUBLE CHECK VALVE ASSEMBLY BPD	INHG INCHES MERCURY PRESSURE	PSIG PSI GAGE
DEG DEGREE	INWC INCHES WATER COLUMN PRESSURE	PVC POLYVINYL CHLORIDE
DEMO DEMOLISH OR DEMOLITION	IPC INTERNATIONAL PLUMBING CODE	QTY QUANTITY
DFD DEPARTMENT OF DEFENSE	L LENGTH OR LAVATORY	RCP REINFORCED CONCRETE PIPE
DI DUCTILE IRON	LCO LINE CLEAN OUT	REF REFERENCE
DIA DIAMETER	LIN LINEAR	RPM REVOLUTIONS PER MINUTE
DIM DIMENSION	LPG LIQUIFIED PETROLEUM GAS	RPZ REDUCED PRESSURE ZONE BPD
DISCH DISCHARGE	MAWP MAXIMUM ALLOWABLE WORKING PRESSURE	SCH SCHEDULE
DN DOWN	MAX MAXIMUM	
DWG DRAWING		

PIPING SYMBOLS

	PIPE TURNED TOWARD		SOLVENT WELD
	PIPE TURNED AWAY		SOCKET WELD
	PIPE TURNED AWAY		TOTAL DEVELOPED HEAD
	PIPE TURNED TOWARD		TOTAL DISSOLVED SOLIDS
	FLEXIBLE CONNECTOR		TEMPERATURE
	UNION		TO FLOOR ABOVE
	FLANGES		TO FLOOR BELOW
	REDUCER (CONCENTRIC)		THREADED
	REDUCER (ECCENTRIC)		TYPICAL
	PIPE CAP		UNIFIED FACILITIES CRITERIA
	PIPE PLUG		UNDERGROUND
	FLUID FLOW DIRECTION		UNLESS NOTED OTHERWISE
	PIPE GUIDE		URINAL
	PIPE ANCHOR		NEW TO BE INSTALLED
	PIPE PITCH DIRECTION		ULTRAVIOLET
	NEW CONNECTION TO EXISTING		PRESSURE GAUGE
	ON DEMOLITION AND NEW SHEET, EXISTING TO REMAIN		TEMPERATURE GAUGE
	ON DEMOLITION SHEETS, EXISTING TO BE DEMOLISHED		WATER HAMMER ARRESTOR
	NEW TO BE INSTALLED		AIR VENT (AUTO)
	ULTRAVIOLET		AIR VENT (MANUAL)
	PRESSURE GAUGE		AUTOMATIC CONTROL VALVE (2-WAY)
	TEMPERATURE GAUGE		AUTOMATIC CONTROL VALVE (3-WAY)
	WATER HAMMER ARRESTOR		BALL VALVE
	AIR VENT (AUTO)		
	AIR VENT (MANUAL)		
	AUTOMATIC CONTROL VALVE (2-WAY)		
	AUTOMATIC CONTROL VALVE (3-WAY)		
	BALL VALVE		

PLUMBING GENERAL NOTES

- ABBREVIATIONS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.
- THESE DRAWINGS ARE DESIGN DRAWINGS AND ARE DIAGRAMMATIC. THEY MAY NOT SHOW ALL PHYSICAL ARRANGEMENTS, OFFSETS, BENDS, OR ELBOWS WHICH MAY BE REQUIRED FOR PROPER INSTALLATION OF VARIOUS MATERIALS, EQUIPMENT, AND PIPING SYSTEMS IN ALLOTTED SPACES. EXAMINE THESE AND OTHER AVAILABLE DRAWINGS TO DETERMINE SPACE LIMITATIONS AND INTERFERENCES. MAKE ANY MINOR CHANGES IN LOCATIONS OF EQUIPMENT, AND PIPING FROM THAT SHOWN ON DRAWINGS AND FOR ALL PHYSICAL DETAILS REQUIRED FOR INSTALLATION. COST FOR ADAPTING WORK TO JOB SITE CONDITIONS SHALL NOT BE CONSIDERED AS BASIS OF AN EXTRA COST TO CONTRACT.
- ELEVATION OF PIPING INDICATED ON THESE DRAWINGS ARE TO BE USED AS GUIDELINES TO ASSIST WITH INSTALLATIONS. MINOR CHANGES TO THESE ELEVATIONS MAY BE NECESSARY TO ELIMINATE UNFORESSEEN INTERFERENCES. ANY CHANGE IN ELEVATION SHALL BE APPROVED PRIOR TO CHANGE.
- ANY AND ALL INFORMATION SHOWN ON THESE DRAWINGS WITH RESPECT TO EXISTING STRUCTURES, UTILITIES, AND MECHANICAL SYSTEMS, IS AS EXACT AS COULD BE SECURED. THE INFORMATION IS NOT WARRANTED NOR GUARANTEED ACCURATE. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK.
- DO NOT SCALE DRAWINGS. USE GIVEN DIMENSIONS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE PROJECT SITE PRIOR TO THE START OF CONSTRUCTION. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT COR BEFORE PROCEEDING WITH THE WORK.
- SEQUENCE OF WORK AND/OR PLACE OF COMMENCEMENT OF WORK SHALL BE APPROVED PRIOR TO WORK BEING STARTED. SCHEDULED SHUTDOWNS SHALL BE CLOSELY COORDINATED WITH OWNER & EXISTING OPERATIONS.
- ACCURATE AND LEGIBLE RECORD (AS-BUILT) DRAWINGS SHALL BE MAINTAINED AT THE JOB SITE, AND BE SUBMITTED PRIOR TO FINAL PAYMENT.
- ALL EXISTING ROOFING SYSTEMS SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
- TEMPORARILY PATCH ALL ROOF OPENINGS WATER TIGHT UNTIL FINAL CLOSURE CAN BE MADE.
- VERIFY ALL EQUIPMENT LOCATIONS AND PIPE ROUTING WITH OWNER PRIOR TO INSTALLATION.
- THE PLUMBING CONTRACTOR SHALL EXAMINE ALL CONTRACT DOCUMENTS. THE PLUMBING CONTRACTOR IS REQUIRED TO DO ALL WORK WHICH IS SHOWN ON THE DRAWINGS, STATED IN THE SPECIFICATIONS, OR REASONABLY IMPLIED AS NECESSARY TO COMPLETE THEIR DIVISION OF WORK. ALL OTHER TRADE DOCUMENTS ARE TO BE CONSIDERED PART OF THIS CONTRACTORS DOCUMENTS AND SHALL BE REQUIRED TO COORDINATE THEIR WORK BETWEEN TRADES OF WORK.
- VISIT THE BUILDING SITE & BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AFFECTING WORK.
- NOMINAL FINISHED FLOOR ELEVATION = 100.0 FT. UNLESS OTHERWISE NOTED.
- GENERAL NOTES APPLY UNLESS NOTED OTHERWISE.

PLUMBING PIPING

	A COMPRESSOR AIR
	CD CONDENSATE
	CW DOMESTIC COLD WATER
	SCW DOMESTIC SOFT COLD WATER
	HW DOMESTIC HOT WATER
	SHW DOMESTIC SOFT HOT WATER
	HWR DOMESTIC HOT WATER RETURN
	SHWR DOMESTIC SOFT HOT WATER RETURN
	MW DOMESTIC MIXED WATER
	G NATURAL GAS
	SAN SANITARY DRAIN
	V VENT FOR SANITARY DRAIN
	ST STORM DRAIN

PLUMBING DEMOLITION NOTES

- PIPING AND EQUIPMENT TO BE DEMOLISHED IS SHOWN DRAWN ON PLANS WITH BOLD AND DASHED LINES. UNDERGROUND PIPING SHALL BE ABANDONED IN PLACE IN LIEU OF BEING REMOVED TO AVOID CUTTING AND PATCHING EXISTING CONCRETE. SEAL PIPING AT BOTH ENDS WHEN ABANDONING IN PLACE AND PLUG WITH CONCRETE.
- WHERE PIPES ARE REMOVED, ALSO REMOVE ALL VALVES, INSULATION, HANGERS, SUPPORTS, AND OTHER ASSOCIATED COMPONENTS.
- WHERE FIXTURES AND EQUIPMENT ARE REMOVED, ALSO REMOVE ALL ASSOCIATED ROUGH-IN PIPING.
- WHERE PIPES ARE REMOVED AND NOT RE-CONNECTED, REMOVE PIPE BACK TO NEXT BRANCH THAT IS TO REMAIN. INSTALL CAPS OR PLUGS ON OPENINGS. INSULATE AND PAINT DISTURBED PIPE SAME AS SPECIFIED FOR NEW WORK.
- ABANDON IN PLACE UNDERGROUND PIPES SHOWN ON PLANS AS PHANTOM.
- WHERE PIPES ARE ROUTED INSIDE CMU WALLS, PIPE MAY BE ABANDONED PIPE IN PLACE. REMOVE PIPE TO 1" INSIDE WALL ON BOTH ENDS OF PIPE. DETERMINE WHERE PIPE EMERGES FROM CMU WALL AND PIPE BACK TO NEXT BRANCH THAT IS TO REMAIN.
- WHERE PIPES PASS THROUGH FLOOR SLABS, SAW-CUT SLAB AND REMOVE CONCRETE TO MINIMUM EXTENT NECESSARY TO GAIN ACCESS TO BELOW SLAB. REMOVE PIPE DOWN TO HORIZONTAL PIPING BELOW FLOOR.
- PATCH EXISTING ROOFS, WALLS, AND FLOORS DISTURBED BY DEMOLITION. RESTORE TO MATCH CONDITION OF ORIGINAL SURROUNDING SURFACES PER SATISFACTION OF OWNER.

PLUMBING FIXTURE SCHEDULE

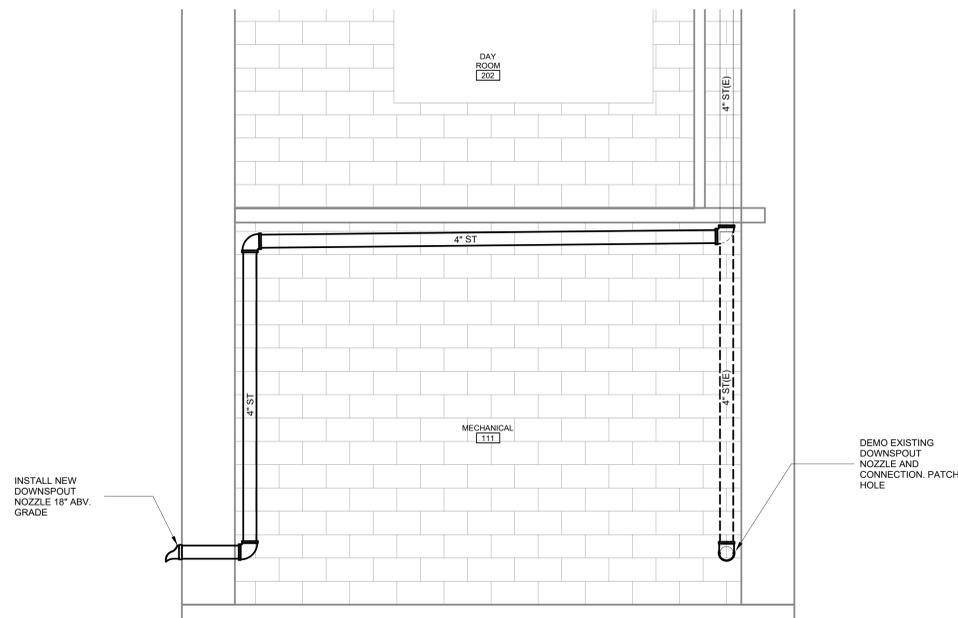
Type Mark	Description	BOWL / BASIN / FIXTURE		FLUSHOMETER / FAUCET		Specification	Keynote
		Manufacturer	Model	Manufacturer	Model		
BF-1	BEVERAGE FILLER	EXISTING TO REMAIN	N/A	KOHLER	K-26369	224200	-
L-1	LAVATORY	AMERICAN STANDARD	0355.012	AMERICAN STANDARD	5500.174	224200	-
SH-1	SHOWER	AMERICAN STANDARD	TU6625G213.002	AMERICAN STANDARD	7074500.002	224200	-
SK-1	SINK	AMERICAN STANDARD	22DB.63322835.075	AMERICAN STANDARD	6045013.002	224200	-
UR-1	URINAL	AMERICAN STANDARD	6590001.02	AMERICAN STANDARD	6045013.002	224200	-
WC-1	WATER CLOSET	AMERICAN STANDARD	2467016.002			224200	-

WATER SOFTENER SCHEDULE

Type Mark	Description	Manufacturer	Model	Specification	Keynote
WS-1	WATER SOFTENER	WATER CONTROL CORPORATION	EF-48	223100	6.15919 GPM FLOW RATE @ 15 PSIG LOSS, 43200 GRAINS, 1" SERVICE PIPE, 3/4" DRAIN PIPE, 1.7 GPM BACK WASH, 1.8 RESIN, 225 BRINE TANK, 10" DIA X 54" H RESIN TANK, 18" DIA X 33" BRINE TANK

HOSE CONNECTION SCHEDULE

Type Mark	Description	Manufacturer	Model	Specification	Keynote
HC-1	HOSE BIBB	ZURN	71341XL	221119	-
HC-2	FIRE DEPARTMENT HOSE VALVE	WATTS	B6000	221119	VALVE SHOULD BE INSTALLED WITH AN NPT-NH THREAD ADAPTER.



1 MECHANICAL ROOM STORM DRAINAGE PIPING

1/2" = 1'-0"

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**LA CROSSE REGIONAL AIRPORT
 REHABILITATE ARFF BUILDING**
 BOA NO.: LSE1023
 2841 Fanta Reed Rd
 La Crosse, WI 54603

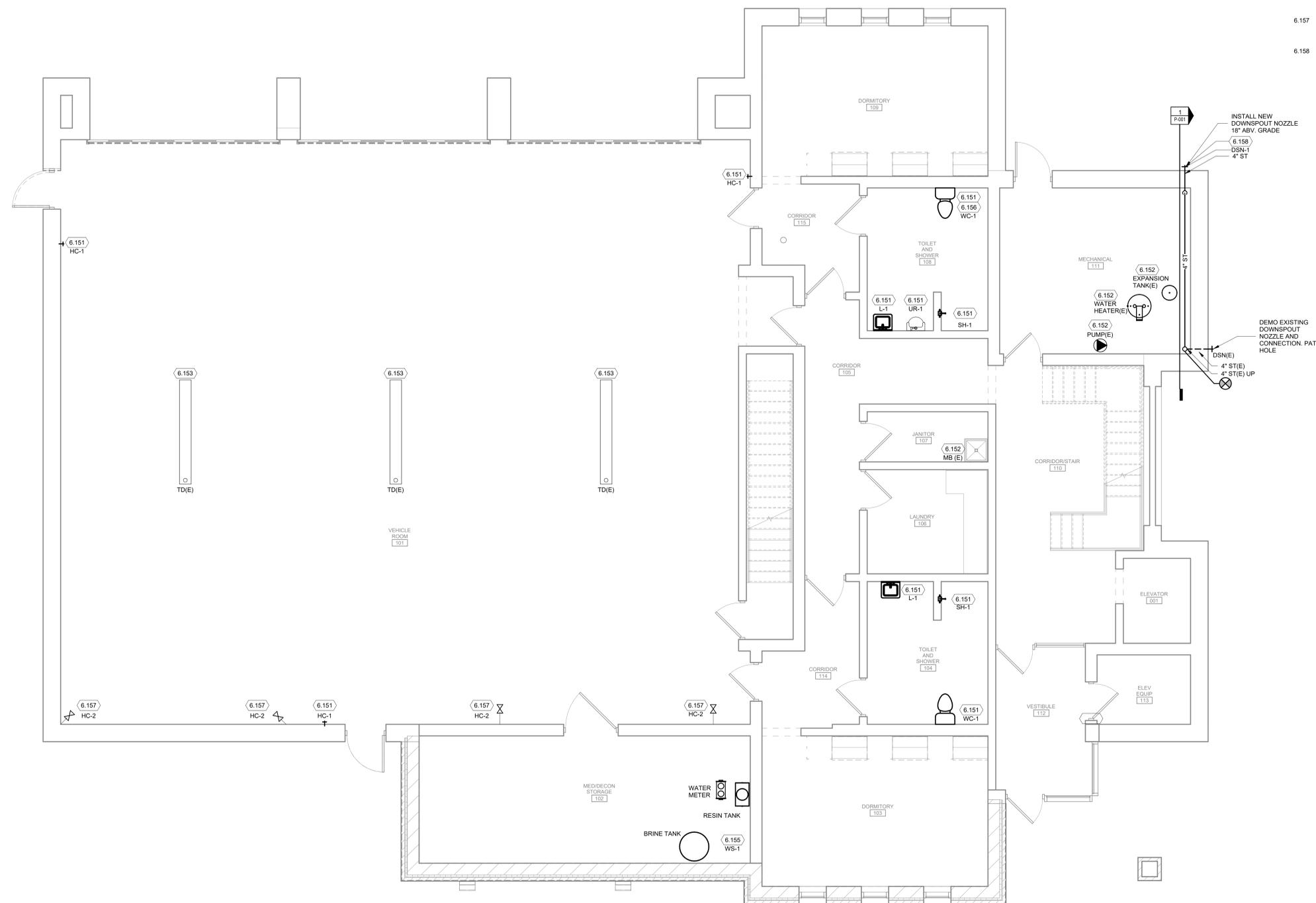
BOA NO.:	LSE1023
RAW NO.:	2309930-201678.01
DATE:	01/23/2026
DESIGNED BY:	AJR
DRAWN BY:	AJR
CHECKED BY:	JEM
DO NOT SCALE DRAWINGS	
SHEET CONTENTS	
NOTES, SYMBOLS	
DETAILS, AND	
ABBREVIATIONS	

SHEET NO.: **P-001**

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KEYED NOTES

- 6.151 REMOVE AND DISPOSE OF THE EXISTING PLUMBING FIXTURE, ASSOCIATED TRIM, AND SHUT OFFS. THE EXISTING WATER AND WASTE SUPPLY PIPING SHALL REMAIN FOR FUTURE CONNECTION OF THE NEW PLUMBING FIXTURE. CONNECT THE NEW PLUMBING FIXTURE, ASSOCIATED TRIM, AND SHUT OFFS TO THE EXISTING WATER AND WASTE SUPPLY PIPING. MODIFY THE EXISTING PIPING AS REQUIRED PER THE NEW ROUGH-IN INSTALLATION REQUIREMENT.
- 6.152 EXISTING TO REMAIN.
- 6.153 REMOVE AND DISPOSE OF EXISTING SEDIMENT BASKET. FABRICATE AND INSTALL NEW SEDIMENT BASKET. PROVIDE STAINLESS STEEL, 1/2 INCH DIAMETER PERFORATED SIDE AND BOTTOM WITH HANDLE SIMILAR TO EXISTING SEDIMENT BASKET.
- 6.155 REMOVE AND DISPOSE OF THE EXISTING WATER SOFTENER. CONNECT THE NEW WATER SOFTENER TO THE EXISTING WATER SUPPLY CONNECTIONS.
- 6.156 SALVAGE EXISTING WATER CLOSET PRESSURE VESSEL AND TURN OVER TO OWNER.
- 6.157 REMOVE AND DISPOSE OF EXISTING FIRE DEPARTMENT VALVE. INSTALL NEW FIRE DEPARTMENT HOSE CONNECTION VALVE ON TO EXISTING PIPE 3/8" AFF. VALVE SHOULD BE INSTALLED WITH AN NPT-NH THREAD ADAPTER.
- 6.158 CONCRETE SPLASH PAD - PROVIDE CONCRETE SPLASH PAD AT GRADE UNDER DOWNSPOUT NOZZLE.



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BOA NO.: LSE1023
2841 Fanta Reed Rd
La Crosse, WI 54603

ISSUED

BOA NO.: LSE1023
 ARFF NO.: 2309930-201678.01
 DATE: 01/23/2026
 DESIGNED BY: AJR
 DRAWN BY: AJR
 CHECKED BY: JEM

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SHEET CONTENTS
 FIRST FLOOR
 PLUMBING PLAN

SHEET NO.:

P-101

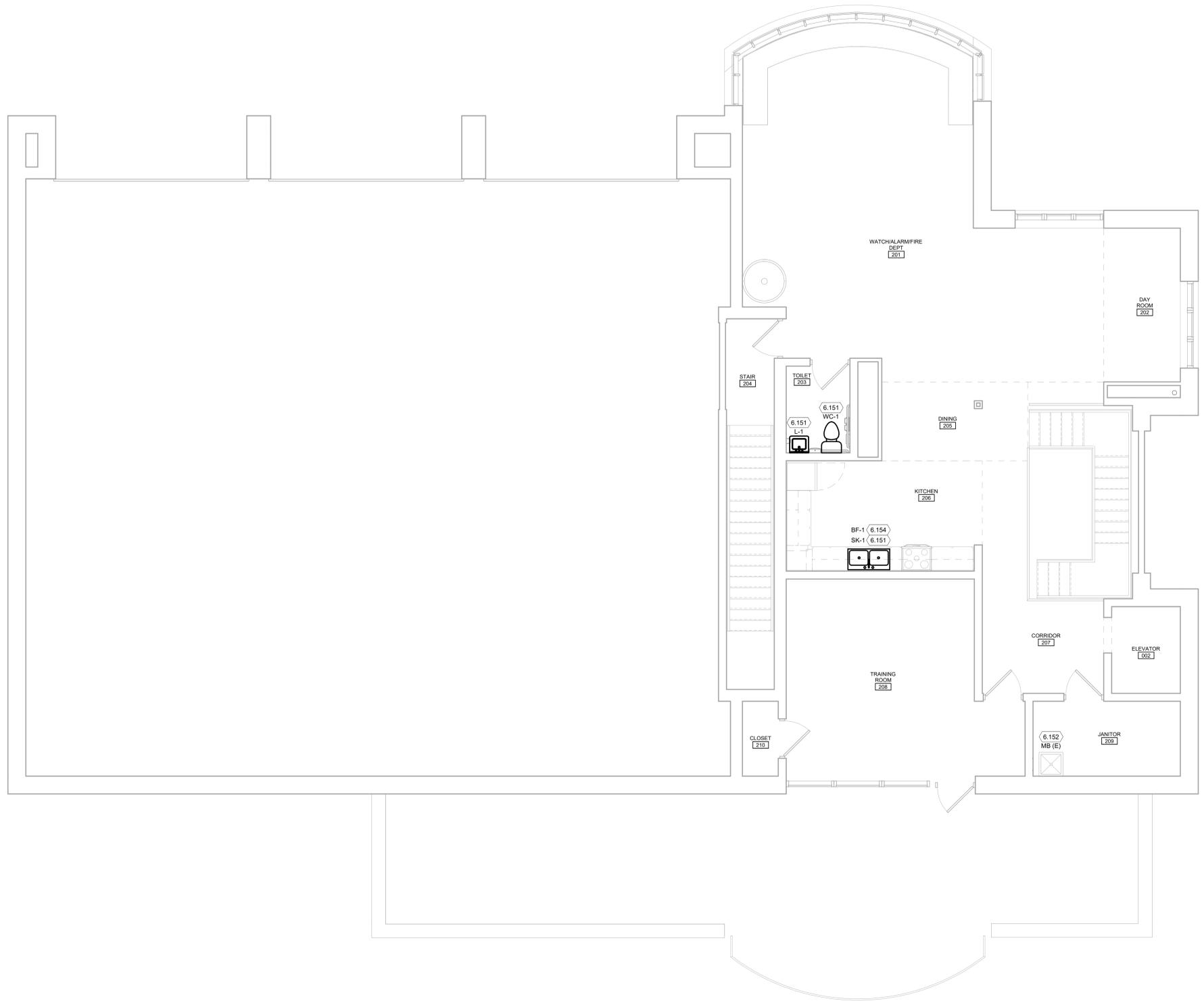
TRUE PLAN
NORTH NORTH
1 **01 - First Floor Plumbing**
1/4" = 1'-0"

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KEYED NOTES

- 6.151 REMOVE AND DISPOSE OF THE EXISTING PLUMBING FIXTURE, ASSOCIATED TRIM, AND SHUT OFFS. THE EXISTING WATER AND WASTE SUPPLY PIPING SHALL REMAIN FOR FUTURE CONNECTION OF THE NEW PLUMBING FIXTURE. CONNECT THE NEW PLUMBING FIXTURE, ASSOCIATED TRIM, AND SHUT OFFS TO THE EXISTING WATER AND WASTE SUPPLY PIPING. MODIFY THE EXISTING PIPING AS REQUIRED PER THE NEW ROUGH-IN INSTALLATION REQUIREMENT.
- 6.152 EXISTING TO REMAIN.
- 6.154 FILTRATION SYSTEM EXISTING TO REMAIN, EXISTING BEVERAGE FILLER TO BE REMOVED, DISPOSED OF, AND REPLACED WITH A NEW BEVERAGE FILLER.

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TRUE PLAN
NORTH NORTH
02 - Second Floor Plumbing
1/4" = 1'-0"

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REHABILITATE ARFF BUILDING**

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2841 Fanta Reed Rd
La Crosse, WI 54603

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SHEET CONTENTS
SECOND FLOOR
PLUMBING PLAN

SHEET NO.:
P-102