				M	IIXING VALVE SCHEDI	ULE		
TAG NO.	SYSTEM SERVED	MAX FLOW (GPM)	COLD EWT	HOT EWT (°F)	COLD WATER CONNECTION SIZE (IN.)	HOT WATER CONNECTION SIZE (IN.)	TEMPETERED WATER CONNECTION SIZE	NOTES
PP-705A	DHW	13	50	140	0.5	0.5	1	1
PP-705B	DHW	20	50	120	0.5	0.5	1	1/1
NOTES:	VALVE SHALL E	BE THERMO	STATIC CON	TROL TYPE				<u> </u>

TAG NO.	TYPE	LOCATION	SYSTEM	SIZE	DESIGN FLOW (GPM)	PRESSURE LOSS AT DESIGN FLOW RATE (PSIG)	PRESSURE LOSS THRU MIDDLE 1/3 OF FLOW RANGE (PSIG)	SELECTED UNIT FLOW RANGE LIMIT (GPM)	NOTES
12-BFP-1	RPZ	BOILER ROOM 100	DOMESTIC WATER	8"	72	10.00			{1}
12-BFP-2	RPZ	BOILER ROOM 100	DOMESTIC WATER	8"	72	10.00			(1)
12-BFP-3	RPZ	BOILER ROOM 100	DOMESTIC WATER	2"	53	10.00			(13
12-BFP-4	RPZ	BOILER ROOM 100	DOMESTIC WATER	2"	53	10.00			1

_															
					DEALKALIZE	ER SCHEDULE									
Ī			BASIS OF	DESIGN:				AUTOMATIC							
					SYSTEM AND/OR		CAPACITY	VALE PRESSURE							
	TAG	LOCATION			SERVICDE	TYPE	(GMP)	RANGE (PSIG)	NOTES						
	12-DKT-1	B12	CULLIGAN	CTM-DA	SOFT COLD	SINGLE	14	60	DEALKALIZER						
					WATER	CHI ORIDE-ANION			TANK						

	,			PLUMBING FIXTURE	ЗСПЕВО	LC 							
		FIXTURE		FITTING							CONNEC	TION SIZE	
TAG NO.	DESCRIPTION	TYPE	SIZE	TYPE	SUPPLY	TRAP	CARRIER	REMARKS	MOUNTING HEIGHT	C.W.	H.W.	WASTE	VENT
PP-101	ABA/ADA WATER CLOSET	1.28 GPF, ELONGATED BOWL, FLOOR MOUNT BOTTOM DISCHARGE WHITE VITREOUS CHINA	1-1/2" SPUD	NON-HOLD OPEN ADA APPROVED SIDE OSCILLATING HANDLE	1"	INTEGRAL	WATER CLOSET CARRIER	PROVIDE SOLID PLASTIC, OPEN FRONT SEAT (LESS COVER)	RIM 17" AFF	1-1/4"	N/A	4"	2"
PP-408	COUNTER MOUNTED LAVATORY	UNDERCOUNTER MOUNTED STAINLESS STEEL	19" DIA.	4" CENTERSET 0.5 GPM FAUCET. SOLID CAST BRASS CONSTRUCTION WITH WASHERLESS CERAMIC DISC MIXING CARTRIDGE TYPE AND CENTRALLY EXPOSED RIGID GOOSENECK SPOUT WITH OUTLET 127-152 MM (5-6 INCHES) ABOVE RIM. ONE HUNDRED TWO MILLIMETERS (4-INCH) WRIST BLADE TYPE HANDLES ON FAUCETS BE CHROME PLATED WITH A SMOOTH BRIGHT FINISH.	1/2"	2" W/CLEAN OUT PLUG	N/A	PROVIDE WITH OVERFLOW	HT. SET BY COUNTERTOP ACCESSIBLE	1/2"	1/2"	2"	1-1/2"
PP-502	SQUARE MOP BASIN	PRECAST TERRAZO, MOLDED MARBLE CHIPS AND PORTLAND CEMENT BASIN WITH DROPPED THRESHOLD AND SS SPLASH PANELS	28"X28"X12" DEEP WITH 6" DROP FRONT	WALL-MOUNTED FAUCET, 8" CENTERS, VACCUUM BREAKER SPOUT, PAIL HOOK WALL BRACE, AND 3/4" MALE THREAD HOSE CONNECTION, 36" HOSE, AND SS WALL HOOK	3/4"	3"	N/A	INTEGRAL CORROSION-RESISTANT METAL DRAIN WITH REMOVABLE STRAINER AND 3" BOTTOM OUTLET	FAUCET: 36" AFF & BASIN - FLOOR MOUNTED	3/4"	3/4"	3"	1-1/2"
PP-528	DOUBLE SINK W/ DISPOSAL	DOUBLE BOWL, TYPE 304 18 GA SS, UNDERCOUNTER MOUNTED, WITH SOUND DEADENING	22 1/2" X 18 1/2" X 9" DEEP	SINGLE HOLE FAUCET, 8" SWIVEL SPOUT, SINGLE METAL LEVER HANDLE, AND 1.5 GPM AERATOR	1/2"	1-1/2"	N/A	PROVIDE SS BASKET STRAINER AND 1/2 HP, 120V GARBAGE DISPOSAL, INSINKERATOR BADGER 5	HT. SET BY COUNTER TOP	1/2"	1/2"	2	1-1/2"
PP-604	ADA ELECTRIC WATER COOLER	BI-LEVEL, WALL HUNG W-BOTTLE FILLING STATION, BARRIER-FREE UNIT	36" W X 41" H X 19" D	LEAD-FREE BUBBLER WITH FRONT, EASY TOUCH CONTROLS	3/8" OD	1-1/2"	N/A	STAINLESS STEEL	ORIFICE HT. 40" AFF & ACCESSIBLE ORIFICE HT. 34" AFF	1/2"	N/A	1-1/2"	1-1/4"
PP-702	ADA SHOWER	INTEGRAL FLOOR/SHOWER BASE WITH THERMOSTATIC MIXING SHOWER VALVE	N/A	THERMOSTATIC MIXING VALVE W/INTEGRAL SERVICE STOPS, ADJUSTABLE STOP SCREW, 1.5 GPM HAND SHOWER HEAD, 60" FLEXIBLE HOSE, 30" ADJUSTABLE MOUNTING BAR, FLANGE, AND ESCUTCHEON	1/2"	2"	N/A	PROVIDE CAST IRON DRAIN WITH TWO PIECE BODY, INTEGRAL CLAMPING COLLAR, AND STAINLESS STEEL DRAIN STRAINER PLATE	HEAD: 75" AFF & CONTROL VALVE 48" AFF	1/2"	1/2"	2"	1-1/2"
PP-707	EMERGENCY EYE WASH / SHOWER	DRENCH SHOWER/EYE/FACE WASH COMBINATION	N/A	11" STAINLESS STEEL BOWL WITH FLIP TOP SPRAY HEADS, FULL FLOW STAY-OPEN BALL VALVE, 3 GPM EYE/FACE WASH AND 20 GPM DRENCH SHOWER	1-1/4"	N/A	N/A	FLOOR MOUNTED, PROVIDE WITH OPTIONAL HORN AND STOBE & EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE	N/A	1-1/4" *	N/A	N/A	N/A
PP-804	HOSE BIBB	SINGLE FAUCET	N/A	CAST OR WROUGHT COPPER ALLOY, SINGLE FAUCET	1/2"	N/A	N/A	WALL MOUNTED, HOSE COUPLING THREAD ON SPOUT AND VACUUM BREAKER	36" ABOVE FLOOR	1/2"	1/2"	N/A	N/A

	DRAIN SCHEDULE				
TAG NO.	DESCRIPTION	OUTLET SIZE	TYPE	STRAINER	NOTES
FD-C	MEDIUM DUTY (NON-TRAFFIC) FLOOR DRAIN SHALL COMPLY WITH ASME A112.6.3 THE TYPE C FLOOR DRAIN SHALL HAV A CAST IRON BODY, DOUBLE DRAINAGE PATTER, CLMAING DEVICE, LIGHT DUTY NICKEL BRONZE ADJUSTABLE STRAINGER WITH ROUND OR SQUARE GRAT OF 6" WIDTH OR DIAMETER MIN. FOR TOILET ROOMS, SHOWERS, AND KITCHENS.	2"	FLOOR DRAIN - ROUND	7"ø ADJUSTABLE, NICKEL-BRONZE	1,2
FD-E	HEAVY, CAST IRON BODY, DOUBLE DRAINAGE PATTERN, HEAVY NON TILTING NICKEL BRONZE GRATE NOTE LESS THAN 12 INCHES SQUARE, REMOVEABLE SEDIMENT BUCKET. CLEARANCE BETWEEN BODY AND BUCKET SHALL BE AMPLE FOR FREE FLOW OF WASTE WATER. EXTRA HEAVY DUTY LOAD CLASSIFICATION DUCTILE IRON GRATE SHALL BE PROVIDED.	4"	FLOOR DRAIN - SQUARE	8-1/2" SQUARE, NICKEL-BRONZE	1,2,3
FD-R	HEAVY, CAST IRON BODY, DOUBLE DRAINAGE PATTERN, HEAVY NON TILTING NICKEL BRONZE GRATE NOTE LESS THAN 12 INCHES SQUARE, REMOVEABLE SEDIMENT BUCKET. CLEARANCE BETWEEN BODY AND BUCKET SHALL BE AMPLE FOR FREE FLOW OF WASTE WATER. EXTRA HEAVY DUTY LOAD CLASSIFICATION DUCTILE IRON GRATE SHALL BE PROVIDED. BODY COATED WITH ACID RESISTANT ENAMEL FINISH WITH SECONDARY DOME STRAINER AND WITHOUT GRATE, 200mm (8IN.) SQUARE.	4"	FLOOR DRAIN - SQUARE	8-1/2" SQUARE, NICKEL-BRONZE	1,2,3
OD-1	CAST IRON WITH CLAMPING DEVICE FOR MAKING WATERTIGHT CONNECTION AND SHALL CONFORM WITH ASME A 112.6.4. FREE OPENINGS THROUGH STRAINER SHALL BE TWICE AREA OF DRAIN OUTLET. PROVIDE ADJUSTABLE DRAINAGE COLLAR, SUMP RECIEVER, AND DECK CLAMP.	6"	ROOF DRAIN	DOME	
RD-1	CAST IRON WITH CLAMPING DEVICE FOR MAKING WATERTIGHT CONNECTION AND SHALL CONFORM WITH ASME A 112.6.4. FREE OPENINGS THROUGH STRAINER SHALL BE TWICE AREA OF DRAIN OUTLET. PROVIDE ADJUSTABLE DRAINAGE COLLAR, SUMP RECIEVER, AND DECK CLAMP.	6"	OVERFLOW DRAIN	DOME	

•						PLUME	BING PUMP SCI	HEDULE									
•				BASIS C	OF DESIGN:	MAXIMUM	MINIMUM	CADACITY	ЦЕЛЬ	PUMP		MOTOF	2	SPEED	ELEC	TRICAL	
TAG NO.	TYPE	LOCATION	SERVICE	MFR	MODEL#	FLUID TEMP. (°F)	FLUID TEMP. (°F)	CAPACITY (GPM)	HEAD (FT. W.C.)	EFFICIENCY %	RPM	HP	TYPE	CONTROL TYPE	VOLTS	PHASE	NOTES
12-RP-1	IN-LINE CENTRIFUGAL	MEZZANINE	DOMESTIC HOT WATER RETURN	GRUNDFOS	MANGA1 25-40	120	50	25	15.00	57.7	1750	0.5	TEFC	CONSTANT	230	1	1,2,4
12-BP-1	VERTICAL CENTRIFUGAL	MEZZANINE	DOMESTIC COLD WATER	GRUNDFOS	HYDRO MPC E	68	50	222	140.00	74	3600	15	TEFC	VARIABLE	480	3	1,2,3
12-BP-2	VERTICAL CENTRIFUGAL	MEZZANINE	DOMESTIC COLD WATER	GRUNDFOS	HYDRO MPC E	68	50	222	140.00	74	3600	15	TEFC	VARIABLE	480	3	1,2,3
12-BPIW-1	UPLIFT	STORAGE TANK	INDUSTRIAL WATER	GRUNDFOS	UNILIFT KPO-350-A1	100	35	12	28.00	NA	3000	0.5	NA	CONSTANT	120	1	4
12-BPIW-2	UPLIFT	STORAGE TANK	INDUSTRIAL WATER	GRUNDFOS	UNILIFT KPO-350-A1	100	35	12	28.00	NA	3000	0.5	NA	CONSTANT	120	1	4
NOTES:	ING FLUID IS WAT	TED															•

| 2 MOUNT ON 6" TALL CONCRETE EQUIPMENT PAD.
| 3. NPSHR SHALL BE A MAXIMUM OF [10 FT.] WC.
| 4. SEE SPECIFICATION 33 16 00

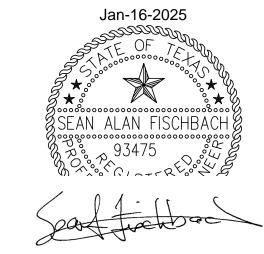
SIZE AS INDICATED BY CONNECTED PIPE SIZE.
 PROVIDE TRAP PRIMER CONNECTION AND CONNECT TO ELECTRONIC TRAP PRIMER MANIFOLD AS SHOWN ON FLOOR PLANS.
 FD-E OUTLET FOR BLOWDOWN PIT IS 6".

		CLEANOUT SC	HEDULE	
TAG NO.	DESCRIPTION	TYPE	COVER	NOTES
СО	IN-LINE CLEAN OUT CAP	THREADED PLUG	-	<u>{</u>
FCO	FLOOR CLEANOUT	ROUND CAST IRON CLEANOUT	5-3/4" ROUND NICKEL BRONZE TOP WITH TAPERED THREAD BRONZE PLUGE, EXTRA HEAVY DUTY	1 1
NOTES: 1. SIZE SA	ME AS PIPE SIZE	UP TO 4" AND NOT LESS THAN 4'	•	

						EXPA	ANSION TANK SCI	HEDULE					
		BASIS OF	DESIGN:				MIN. TANK	MIN. TANK ACCEPTANCE	RELIEF VALVE		MAX. WORKING		
							VOLUME	VOLUME		DESIGN TEMP.	PRESS.	FILL SIZE	
TAG NO.	TYPE	MFR	MODEL#	ORIENTATION	LOCATION	SYSTEM	(GAL)	(GAL)	(PSI)	(°F)	(PSI)	(IN)	NOTES
12-ET-1	DIAPHRAM	XHLEM	PTA-5	IN-LINE	MEZZANINE	DOMESTIC HOT WATER	3	2.1	60	140	150	0.75	(1)
NOTES:													1
1. TANK S	1. TANK SHALL BE PROVIDED WITH (4) [FLANGED] [THREADED] [STUDDED] 4" CONNECTIONS.												

DOMESTIC WATER HEATER SCHEDULE (WH) BASIS OF DESIGN **FUEL** TIME TO RECOVER RELIEF CONTENTS, VALVE CAPACITY RECOVERY MINUTES SETTTING HEATING FLOW (CFH) (PSIG) | INLET PRESSURE (IN W.C.) (GAL) NOTES TAG NO. TYPE MODEL # LOCATION SERVICE (GAL/HR AT 90 DEG F.) (°F) SOURCE (IN) AO SMITH BTH-250(A) MEZZANINE DOMESTIC HOT WATER TBD 12-WH-1 **TANK** NATURAL GAS 400 . PROVIDE WITH GAS PRESSURE REGULATING VALVE AND CONCENTRIC TERMINAL KIT FOR VENTING THROUGH WALL.

								WATER SOFTEN	ER SCHEDULE								
			BASIS OI	F DESIGN		INCOMING WATER	CONTINUOUS FLOW RATE	PEAK FLOW RATE	:	BACK WASH FLOW	SALT DOSAGE		SALT CAPACITY OF		ELECTRICAL		
MARK	LOCATION	SYSTEM	MFR	MODEL#	TYPE	HARDNESS (PPM)	(GPM)	(GPM)	INLET PRESSURE (PSIG)	RATE (GPM)	(LBS/CUFT)	TANK SIZE DIA (IN)	BRINE TANK (LBS)	AMP	PHASE	VOLT	REMARKS
12-WS-1	FIRST FLOOR	SOFT WATER	CULLIGAN	HS-2004	ION EXCHANGE	245	240	400	[100]	90	15	60	5700	60 HZ	1	120	
12-WS-2	FIRST FLOOR	SOFT WATER	CULLIGAN	HS-2004	ION EXCHANGE	245	240	400	[100]	90	15	60	5700	60 HZ	1	120	



							AIR COMPF	RESSOR SC	CHEDULE									
				BASIS OF DE	SIGN:			INLET	DISCHARGE		RECEIVER	Е	LECTF	RICAL PO	WER			
TA	٩G		AREA AND/OR			SYSTEM AND/OR		AIRFLOW	PRESSURE	RECEIVER	DIM, DIA X	NO.					OPER	
N	Ο.	LOCATION	BLDG SERVED	MFR	MODEL#	SERVICE	TYPE	(CFM)	(PSIG)	SIZE (GAL)	Н	MOTORS	HP	PHASE	VOLT	RPM	WEIGHT	NOTES
12-A	\C-1	MEZZ	TOOL ROOM	INGERSOL RAND	SS5L5	COMPRESSED AIR	OILLESS RECIP	18.1	100	60	71 x 30	1	5	1	230	1750	455	

[Addendum 1 Addendum 2		08-09-2024 09-12-2024			1	ARCHITECT/ENGINE	EER OF RECORD	STAMP	Office of	Drawing Title		Phase 100% C	CONSTRUCTION DOCUMENTS	Project Title SIOUX	FALLS BOILER PLANT	Projec 438-2	ect Number -22-900
	3 Addendum 3		01-17-2025	♦ BUI	RNS		♦ nara	diam		Construction and Facilities	PLUMB	ING SCHEDULES					Buildi 12	ding Number
				Burns & McDonnell Engineering Company, Inc. 9450 WARD PARKWAY, KANSAS CITY, MO		Architecture Engineer	ing Design-Build		Management	Approved: Project Director			FULLY SPRINKLERED		2501 W 22nd St, Sioux Falls, S		ving Number	
<u> </u>	Revisions:		Date:				200 Envoy Circle, Suite 201, I www.paradigmus	Louisville, KY 40299		U.S. Department of Veterans Affairs				FULLY SPRINKLERED	06/25/2024	Checked Drawn S. FISCHBACH J. Y	DUNG	PL600
1		2		3		4		5		6	7		8		9		10	