	OF CAL IFORM
ı	SHEET NAME PLUMBING SCHEDULES
	DRAWN BY: Author
	PROJECT #: 200725.000
	SHEET NUMBER
	P0002

									AB	OR	 RAT	OF	 ?Y	FI:	 ХТI	UR	ES		AND EQUIPMENT
								CONTRA	CTOR	SHALL	. COORI	DINATE	ROUG	H-IN I	LOCATI	ONS A	ND M	AKE F	FINAL CONNECTIONS TO INCLUDE PIPING, SHUT-OFF VALVES, RNISHED LOOSE W/ EQUIP. (FIXTURES, VALVES, ETC.)
UNIT	DESCRIPTION						MIN.	. FIXTU	RE BR	ANCH	SIZES	(IN.)							REMARKS
NO.		S	٧	CW	HW	LW						D	G	LV	СО	LA	02	R0	
LS1	LAB SINK	-	_	_	-	2	1 1/2	1/2	1/2	-	1/2	-	-	-	-	_	-	-	
LS2	LAB SINK	_	_	_	_	2	1 1/2	1/2	-	-	-	-	-	_	-	-	-	_	
LS3	LAB SINK	_	_	_	-	2	1 1/2	1/2	1/2	-	-	-	-	_	-	-	-	_	
FH1	FUME HOOD	_	-	_	-	2	1 1/2	1/2	-	-	-	-	1/2	3/4	-	1/2	-	-	
FH2	FUME HOOD	-	-	-	-	-	-	-	-	-	-	-	1/2	3/4	-	1/2	_	-	
AO	AIR OUTLET	_	_	_	_	_	-	-	-	-	-	-	-	_	-	1/2	ı	_	
CO	CARBON DIOXIDE OUTLET	_	_	_	-	-	-	-	-	-	-	-	-	-	1/2	-	-	_	
GO	NATURAL GAS OUTLET	_	_	_	-	-	-	-	-	-	-	-	1/2	-	-	-	-	_	
VO	VACUUM OUTLET	-	_	_	-	-	-	-	-	-	-	_	-	3/4	-	-	_	_	
00	OXYGEN OUTLET	_	_	_	_	-	-	-	-	-	-	-	-	-	-	-	1/2	_	
CSP1	CEILING SERVICE PANEL	-	_	_	-	_	-	-	-	-	-	-	-	3/4	-	1/2	1	_	
CSP2	CEILING SERVICE PANEL	_	_	_	_	-	-	-	-	-	-	-	1/2	3/4	-	1/2	ı	_	
VSI	VIVARIUM SINK	2	1 1/2	1/2	1/2	-	-	-	-	-	-	-	-	-	-	_	-	_	
KS1	KITCHEN SINK	2	1 1/2	1/2	1/2	-	-	-	-	-	-	-	-	-	-	-	-	-	SEE KITCHEN CONSULTANT PLANS.
KS2	KITCHEN SINK	_	_	1/2	1/2	-	-	-	-	-	-	•	-	-	-	-	-	-	SEE KITCHEN CONSULTANT PLANS.
BSC	BIOSAFETY CABINET	_	_	_	-	-	-	-	-	_	-	-	-	3/4	-	_	_	_	SOV AT 96"AFF.
INC	INCUBATOR	_	_	_	_	-	-	-	-	-	-	-	-	-	1/2	-	-	-	SOV AND PRESSURE REGULATOR AT 96"AFF.
GW	GLASS WASHER	-	_	_	-	-	-	1	1	_	1/2	2	-	-	-	1/2	_	_	INSTALL PRESSURE REGULATOR AND PRESSURE GAUGE ON WATER SUPPLY. ROUTE DRAIN FULL SIZE TO FLOOR SINK.
STR1	STERILIZER	_	_	_	-	-	-	-	_ 1	1 1/4	_ 1	1 1/2	-	-	_	-	_	_	INSTALL PRESSURE REGULATOR AND PRESSURE GAUGE ON WATER SUPPLY. ROUTE DRAIN FULL SIZE TO FLOOR SINK.
STR2	STERILIZER	-	_	_	-	-	-	_	_ 1	1 1/2	-	2	-	-	_	-	_	_	INSTALL PRESSURE REGULATOR AND PRESSURE GAUGE ON WATER SUPPLY. ROUTE DRAIN FULL SIZE TO FLOOR SINK.
STR3	STERILIZER	-	_	_	-	-	-	-	-	1	-	2	-	-	-	1/2	-	-	INSTALL PRESSURE REGULATOR AND PRESSURE GAUGE ON WATER SUPPLY. ROUTE DRAIN FULL SIZE TO FLOOR SINK.
DRY	GLASSWARE DRYER	-	_	_	-	-	-	-	-	-	-	•	-	_	-	-	-	_	ROUTE DRAIN FULL SIZE TO FLOOR SINK.
DW	DISHWASHER	_	_	_	1/2	-	-	-	-	-	-	•	-	-	-	-	_	-	SEE DETAIL #12 ON SHEET P5001.
EW	EYEWASH	_	_	1/2	_	-	-	-	-	-	-	_	_	_	_	-	-	_	
IM	ICE MACHINE	_	_	1/2	-	_	-	-	-	-	-	•	-	-	-	-	_	_	ROUTE DRAIN FULL SIZE TO FLOOR SINK.
ES	EMERGENCY SHOWER & EYEWASH	_	_	1 1/4	_	- [-]	-	-	-	-	-	-	-	-	-	_	_	RECESSED IN WALL.
SG	STEAM GENERATOR	-	_	_	-	-	-	-	-	-	3/4	-	-	-	-	-	-	_	INSTALL PRESSURE REGULATOR AND PRESSURE GAUGE ON WATER SUPPLY. ROUTE DRAIN FULL SIZE TO FLOOR SINK.
CWD	CLOTHES WASHER & DRYER	_	_	3/4	3/4	-	-	-	-	-	-	•	-	-	-	-	_	_	GONNECT CW, HW, AND D TO LAUNDRY BOX LB-1
	XRAY PROCESSOR	-	-			-		1/2	-	-	-	·	-	-	_	_	_		ROUTE DRAIN FULL SIZE TO FLOOR SINK.
								کّ	لّ	ک				لّ	ڵ				
	LAB SINK		1 1/2		-	-	-	1/2	1/2	-	-	-	-	-	-	_			ROUTE DRAIN THRU DILUTION TRAP.
UGW	UNDERCOUNTER GLASS WASHER	_	_	_	_	-	-	1/2	1/2	-	-	٠	-	-	-	-	_	1/2	ROUTE DRAIN FULL SIZE TO A 2" STANDPIPE DRAIN.

							,	WATER	R SOFTENERS	S			
UNIT	MANUFACTURER	SERVICE	LOCATION	TYPE	PRE-PIPED & WIRED SKID	EXCHANGE CAPACITY (KGR) © SALT DOSAGE (LBS)	SYSTEM SERVIC CAPACIT	CE FLOW RATE Y (GPM)	ELECTRICAL	BACKWASH FLOW RATE	OPER. WEIGHT	OVERALL	REMARKS
NO.	& MODEL NO.	SERVICE	LOOKHON	1111 E	(Y/N)	MAXIMUM	CONTINUOUS	PEAK	V / PH / Hz	(GPM)	(LBS.)	DIMENSIONS (L x W x H)	TALIM MAKE
WS 1	CULLIGAN CMS 300-3CD-PF	SCW	PLUMB. EQUIP. ROOM	REGEN.	Y	300/100	150	210	120 / 1 / 60	20	6,700	115"x45"x85"	DUPLEX PARALLEL PROGRESSIVE FLOW SYSTEM, METER INITIATED REGENERATION, W/RECLAIM SYSTEM FOR PARTIAL RE-USE OF REGENERATION DRAIN WATER. SET PROGRESSIVE FLOW TO ACTIVATE SECOND SOFTNER AT 50 GPM.

									VACU	JUM PUMF	PS		
UNIT NO.	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	TYPE	RECEIVER (GALLONS)	CAPACITY PRESSURE (IN. Hg)	PUMP (SCFM)	HP (EACH)	ELECTRI	EMERG. POWER (Y/N)	OPER. WEIGHT (LBS.)	OVERALL DIMENSIONS (L x W x H)	REMARKS
VP 1	BUSCH TVED-2-LAB225	LV	PLUMB. EQUIP. ROOM	ROTARY VANE	200	24	62	10	460 / 3 / 60	N	3,200	61 x 50 x 89	SKID MOUNTED, DUPLEX SYSTEM, VERTICAL RECEIVER, CONTROL PANEL.

									AIR C	OMPRESSO)RS		
UNIT NO.	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	TYPE	RECEIVER (GALLONS)	CAPAO PRESSURE (PSIG)	PUMP (CFM)	HP (EACH)	ELECTRICAL V/PH/Hz	EMERG. POWER (Y/N)	OPER. WEIGHT (LBS.)	OVERALL DIMENSIONS (L x W x H)	REMARKS
AC 1	INGERSOLL—RAND 2—OL10E10	LA	PLUMB. EQUIP. ROOM	OIL-LESS RECIPROCATING	120	100	64	10	460 / 3 / 60	N	1,600	72 x 54 x 58	DUPLEX SYSTEM, COMPRESSORS MOUNTED ON HORIZONTAL TANK, CONTROL PANEL.

								C(OMPRESS	ED AIR D	RYER	S	
UNIT NO.	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	TYPE	SCFM	CAPACITY PRESSURE (PSIG)	DEW POINT	HP	ELECTRIC V/PH/Hz	EAL EMERG. POWER (Y/N)	OPER. WEIGHT (LBS.)	OVERALL DIMENSIONS (L x W x H)	REMARKS
AD 1	ZEKS 60 AMPS	LA	PLUMB. EQUIP. ROOM	DESICCANT	60	100	TEMP. (F) -40	-	115 / 1 / 60	N	160	,	ROUTE PURGE DRAINS FULL SIZE TO FLOOR SINK.

FIXTURE	FIXTURE	MIN. FIXTU	RE BRAN	NCH SIZE	S (IN.)		REMARKS
SYMBOL	TIXTUIL	S OR W	٧	CW	HW	RW	
<u>WC-1</u>	WATER CLOSET	4	2	-	_	1 1/4	WALL MOUNTED, 1.6/1.1 GPF MANUAL DUAL FLUSH VALVE. MOUNT AT ACCESSIBLE HEIGHT WHERE REQUIRED.
<u>U–1</u>	URINAL	2	1 1/2	-	_	3/4	WALL MOUNTED, 0.125 GPF AUTOMATIC FLUSH VALVE, MOUNT AT ACCESSIBLE HEIGHT WHERE REQUIRED.
<u>L-1</u>	LAVATORY	2	1 1/2	1/2	1/2	-	UNDER COUNTER MOUNTED, SELF RIMMING, SELF CLOSING ELECTRONIC 0.5 GPM FAUCET.
<u>L-2</u>	LAVATORY	2	1 1/2	1/2	1/2	-	WALL MOUNTED, SELF CLOSING ELECTRONIC 0.5 GPM FAUCET.
<u>S–1</u>	SINK (BREAK ROOM)	2	1 1/2	1/2	1/2	-	SINGLE BOWL, STAINLESS STEEL, SINGLE LEVER FAUCET, GARBAGE DISPOSER 120V, 1/2H.P. ROUTE 1/4" COPPER TUBING W/SOV TO REFRGERATOR ICE MAKER CONNECTION.
<u>SH-1</u>	SHOWER	2	1 1/2	1/2	1/2	_	PRE-FAB ADA ACCESSIBLE STALL, PRESSURE BALANCING VALVE, FIXED HEAD AND HAND HELD HEAD, FLOOR DRAIN WITH CHROME PLATED STRAINER.
<u>SH-2</u>	SHOWER	2	1 1/2	1/2	1/2	-	ADA ACCESSIBLE TILED STALL BY OTHERS, PRESSURE BALANCING VALVE, FIXED AND HAND HELD HEAD, FLOOR DRAIN WITH CHROME PLATED STRAINER.
<u>HB-1</u>	HOSE BIBB	-	-	3/4	-	-	RECESSED IN WALL MOUNTED STAINLESS STEEL LOCKABLE BOX, VACUUM BREAKER.
<u>HB-2</u>	HOSE BIBB	-	-	3/4	-	-	WALL MOUNTED, BRASS BODY, VACUUM BREAKER, CHROME PLATED FINISH FOR INTERIOR LOCATIONS, AND ROUGH BRASS FINISH FOR EXTERIOR LOCATIONS.
<u>HB-3</u>	HOSE BIBB	-	-	3/4	-	-	RECESSED IN WALL MOUNTED CHROME PLATED LOCKABLE BOX IN CONCRETE WALL, VACUUM BREAKER.
<u>SS-1</u>	SERVICE SINK	3	1 1/2	3/4	3/4	_	FLOOR MOUNTED, TERRAZZO, WALL MOUNTED FAUCET. 1, 2, OR 3 TILING FLANGES AS NECESSARY.
<u>ESE-1</u>	EMERGENCY SHOWER & EYEWASH	-	-	1 1/4	-	_	FREE STANDING, COMBO UNIT
<u>HS-1</u>	HOSE STATION	-	-	3/4	3/4	_	WALL MOUNTED, CW AND HW MIXING, HOSE AND SPRAY NOZZLE
<u>DF-1</u>	DRINKING FOUNTAIN	2	1 1/2	1/2	-	-	HIGH/LOW DUAL HEIGHT TYPE WATER CHILLER, BARRIER FREE, STAINLESS STEEL, ELECTRIC CHILLER RECESSED IN WALL.
<u>LB-1</u>	LAUNDRY BOX	2	1 1/2	3/4	3/4	-	RECESSED GALVANIZED STEEL BOX WITH 2" DRAIN, SINGLE LEVER VALVE AND HAMMER ARRESTERS
<u>FD-1</u>	FLOOR DRAIN	2	1 1/2	-	-	-	CAST IRON BODY WITH 6" DIA. NICKEL BRONZE STRAINER, 2" OUTLET
FD-2	FLOOR DRAIN	2	1 1/2	-	-	_	CAST IRON BODY, 6" DIA, NICKEL BRONZE DOME STRAINER, 2" OUTLET.
<u>FD-3</u>	FLOOR DRAIN	4	2	-	-	_	CAST IRON BODY, 8" DIA, NICKEL BRONZE STRAINER, 4" OUTLET. ZURN #Z415-8B.
FD-4	FLOOR DRAIN	4	2	_	-	_	CAST IRON BODY & DOME STRAINER, ST. STL. MESH SCREEN OVER DOME, 4" OUTLET. ZURN #Z348.
<u>FS-1</u>	FLOOR SINK	2	1 1/2	_	-	_	CAST IRON BODY WITH ACID RESISTANT COATED INTERIOR. 12" SQUARE, 6" DEEP, 2" OUTLET.
FS-2	FLOOR SINK	3	1 1/2	-	-	_	CAST IRON BODY WITH ACID RESISTANT COATED INTERIOR. 12" SQUARE, 8" DEEP, 3" OUTLET.
FS-3	FLOOR SINK	4	2	-	-	-	CAST IRON BODY WITH ACID RESISTANT COATED INTERIOR. 12" SQUARE, 8" DEEP, 4" OUTLET.
<u>D-1</u>	DRAIN	3	1 1/2	-	-	-	CAST IRON BODY WITH 8" DIA NICKEL BRONZE STRAINER, 3" OUTLET.
<u>DR-1</u>	DRAIN RECEPTOR	3	1 1/2	-	-	-	11" DIA, WITH 2" HIGH DAM.
<u>DD-1</u>	DECK DRAIN	-	-	-	-	-	CAST IRON BODY, 9" DIA CAST IRON GRATE, 3" OUTLET, WIDE FLANGE.
<u>RD-1</u>	ROOF DRAIN	-	-	-	-	-	CAST IRON BODY AND DOME STRAINER.
<u>ORD-1</u>	OVERFLOW ROOF DRAIN	-	-	-	-	-	CAST IRON BODY AND DOME STRAINER, 2" HIGH DAM
<u>GT–1</u>	GREASE TRAP	4	2	-	-	-	POLYETHYLENE CONSTRUCTION, 616 LBS. GREASE CAPACITY, 75 GPM MAX. FLOW, WITH SAMPLE BOX, AIR TIGHT GASKETED SOLID COVER. TRAP AND SAMPLE BOX COVERS SHALL BE FLUSH WITH FINISHED FLOOR.
<u>DT-1</u>	DILUTION TRAP	2	1 1/2	-	-	-	ROUTE LAB SINK LW TO DILUTION TRAP INLET. ROUTE S FROM DILUTION TRAP OUTLET WITH V TAKE OFF DOWN STREAM OF DILUTION TRAP. LOCATE DILUTION TRAP IN CABINETRY BELOW SINK. IPEX #W611
		+			-	 	

									W	ATER HEA	TERS					
UNIT	MANUFACTURER					UNIT CAPACI	TY	SYSTEM	ELE	CTRICAL		FUEL		OPER. WEIGHT	OVERALL	
NO.	& MODEL NO.	SERVICE	LOCATION	TYPE	STORAGE (GALLONS)	RECOVERY GPH	DEGREE RISE *F	OUTLET TEMP. (°F)	V/PH/Hz	EMERG. POWER (Y/N)	NAT.GAS/LPG/OIL	MBH INPUT	MIN. EFFICIENCY	(LBS.)	DIMENSIONS (L x W x H)	REMARKS
1WH 1&2	RAYPAK WH-260	IHW	ROOF	INDOOR	-	436	60	120	120 / 1 / 60	N	NAT. GAS	264	82%	250	27 X 23 X 63	COPPER FINNED TUBING HEAT EXCHANGER.
DWH 1&2	RAYPAK WH-260	нw	ROOF	INDOOR	-	436	60	120	120 / 1 / 60	N	NAT. GAS	264	82%	250	27 X 23 X 63	COPPER FINNED TUBING HEAT EXCHANGER.

									STC	PRAGE TANKS
UNIT NO.	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	TYPE	STORAGE (GALLONS)	PRESS. RATING PSIG	LINING	OPER. WEIGHT (LBS.)	OVERALL DIMENSIONS (DIA. x H)	REMARKS
IST 1	RAYPAK	IHW	ROOF	VERTICAL	534	160	GLASS	5,400	42" x 96"	VERTICAL WITH MANHOLE, ANGLE IRON LEGS, THREADED OPENINGS, MAGNESIUM ANODES AND INSULATION.
DST 1	RAYPAK	HW	ROOF	VERTICAL	534	160	GLASS	5,400	42" x 96"	VERTICAL WITH MANHOLE, ANGLE IRON LEGS, THREADED OPENINGS, MAGNESIUM ANODES AND INSULATION.

									Pl	JMPS		
UNIT	MANUFACTURER	0501405		7.05	DESIGN	CAPACITY	SKID			ELECTRICAL		DEMARKO
NO.	& MODEL NO.	SERVICE	LOCATION	TYPE	PUMP GPM	PUMP HEAD (FT)	MOUNTED (Y/N)	MOTOR HP	MOTOR RPM	V / PH / Hz	STAND-BY POWER (Y/N)	REMARKS
ICP 1	ARMSTRONG ASTRO 50B	IHWR	ROOF	IN-LINE CIRCULATOR	6	10	N	FRACTIONAL	2800	120 / 1 / 60	N	ALL BRONZE BODY.
DCP 1	ARMSTRONG ASTRO 50B	HWR	ROOF	IN-LINE CIRCULATOR	5	12	N	FRACTIONAL	2800	120 / 1 / 60	N	ALL BRONZE BODY.
SP 1	HYDROMATIC (2) S3SD200M4	S	VIVARIUM	SUBMERSIBLE	130 (EACH)	27	N	2 (EACH)	1,750	208 / 3 / 60	Y	DUPLEX SYSTEM, LIFTING RAIL SYSTEM, LEAD/LAG CONTROL PANEL, FIBERGLASS 5'-0" DIA. BASIN.
SP 2	HYDROMATIC (2) SPD100MH4	SD	VIVARIUM	SUBMERSIBLE	100 (EACH)	35	N	1 (EACH)	3,450	208 / 3 / 60	Y	DUPLEX SYSTEM, LEAD/LAG CONTROL PANEL, FIBERGLASS 5'-0" DIA. BASIN.
DBP 1	GRUNDFOS BOOSTER PAQ MPC E2-CRE32-2	CW	PLUMB. EQUIP. ROOM	BOOSTER	180	95	Y	7.5 (EACH)	3,450	480 / 3 / 60	N	DUPLEX PACKAGED SYSTEM, BLADDER TANK, VARIABLE SPEED, SET OUTLET PRESSURE AT 80PSI, INSTALL FULL SIZE BY-PASS.
(RBP)	GRUNDFOS BOOSTER PAQ MPC E2-CRE20-2	RW	PLUMB. EQUIP. ROOM	BOOSTER	100	95	Y	5 (EACH)	3,450	480 / 3 / 60	N	DUPLEX PACKAGED SYSTEM, BLADDER TANK, VARIABLE SPEED INSTALL FULL SIZE VALVED BYPASS SET OUTLET PRESSURE AT 80PSI