

CONSULTANTS:

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PROJECT INFORMATION:

BROWNFIELD MODIFICATIONS

CLIENT INFORMATION:



ASCEND ELEMENTS
ASCEND ELEMENTS
9172 INDUSTRIAL DR NE
COVINGTON, GA
30014

CLIENT PROJECT NO: XXX-XXXXX-XX

PLUMBING FIXTURE SCHEDULE									
SYMBOL	DESCRIPTION	MODEL NUMBER	DCW	DHW	DTW	SAN	SAHV	MISCELLANEOUS TRIM	
WC-1	WATER CLOSET - 1.28 GPF, WALL HUNG, SIPHON JET, ELONGATED BOWL, VITREOUS CHINA, WITH (BATTERY) SENSOR FLUSH VALVE	ZURN #Z5615	1"	-	-	4"	2"	SEAT, ZURN #Z-5955SS-EL-BK (BLACK), (BATTERY) SENSOR FLUSH VALVE; ZURN #ZER8000PL-HET-CPM, CLOSET BOLTS, WAX RING AND CARRIER; ZURN #Z1203	
WC-2	WATER CLOSET (ADA) - 1.28 GPF, WALL HUNG, SIPHON JET, ELONGATED BOWL, VITREOUS CHINA, WITH (BATTERY) SENSOR FLUSH VALVE	ZURN #Z5615	1"	-	-	4"	2"	SEAT, ZURN #Z-5955SS-EL-BK (BLACK), (BATTERY) SENSOR FLUSH VALVE; ZURN #ZER8000PL-HET-CPM, P6000-TPQ(TP) P6000-HW6, CLOSET BOLTS, WAX RING AND CARRIER; ZURN #Z1203	
WC-3	WATER CLOSET (ADA) - 1.28 GPF, FLOOR MOUNTED, SIPHON JET, ELONGATED BOWL, VITREOUS CHINA, WITH (BATTERY) SENSOR FLUSH VALVE	ZURN #Z5665-BWL1	1"	-	-	4"	2"	SEAT, ZURN #Z-5955SS-EL-BK (BLACK), (BATTERY) SENSOR FLUSH VALVE; ZURN #ZER8000PL-HET-CPM, P6000-TPQ(TP) P6000-HW6, CLOSET BOLTS, WAX RING AND CARRIER; ZURN #Z1203	
UR-1	URINAL 0.5 GPF, WALL HUNG, VITREOUS CHINA, WITH (BATTERY) SENSOR FLUSH VALVE	ZURN #Z5750	3/4"	-	-	2"	1-1/2"	3/4" TOP SPUD, CONCEALED CARRIER ZURN #Z1222, (BATTERY) SENSOR FLUSH VALVE; ZURN #ZER8003AV-EWS-CPM	
UR-2	URINAL 0.5 GPF, WALL HUNG, VITREOUS CHINA (ADA), WITH (BATTERY) SENSOR FLUSH VALVE	ZURN #Z5750	3/4"	-	-	2"	1-1/2"	3/4" TOP SPUD, CONCEALED CARRIER ZURN #Z1222, (BATTERY) SENSOR FLUSH VALVE; ZURN #ZER8003AV-EWS-CPM	
LV-1	LAVATORY - (ADA) - OVAL DROP-IN, VITREOUS CHINA, WITH (BATTERY) SENSOR FAUCET	AMERICAN STANDARD AQUALYN #0476.028	1/2"	1/2"	-	1-1/4"	1-1/4"	GRID DRAIN; ZURN Z8743-PC, P-TRAP; ZURN Z8700, STOPS AND FLEXIBLE SUPPLIES, Z 8800, ADA TRAP, STOP AND SUPPLY PROTECTORS; ZURN Z8946-1-NT, (BATTERY) SENSOR FAUCET; ZURN Z8915-XL, 1/2 GPM.	
LV-2	LAVATORY (ADA) - WALL HUNG, VITREOUS CHINA, WITH (BATTERY) SENSOR FAUCET	AMERICAN STANDARD LUCURNE 0360.01	1/2"	1/2"	-	1-1/4"	1-1/4"	GRID DRAIN; ZURN Z8743-PC, P-TRAP; ZURN Z8700, STOPS AND FLEXIBLE SUPPLIES, Z 8800, ADA TRAP, STOP AND SUPPLY PROTECTORS; ZURN Z8946-1-NT, (BATTERY) SENSOR FAUCET; ZURN Z8915-XL, 1/2 GPM.	
LV-3	LAVATORY TROUGH 4-STATION, W/ WALL MOUNTED (BATTERY) SENSOR FAUCET	ELKAY EVMAG050ACTMC	(4) 1/2"	(4) 1/2"	-	1-1/2"	1-1/2"	PROVIDE (4) LK8722C BATTERY SENSOR GOOSENECK FAUCETS, (1) LK188 DRAIN, (4) LK1723 MIXING VALVES, 17 GAUGE SHROME BRASS P-TRAP AND (8) SUPPLY STOPS. INSTALL FIXTURE PER MANUFACTURER'S INSTRUCTIONS	
SK-1	SINK (BREAK ROOM AND LAB), SINGLE COMP. SS, SINGLE LEVER (SPRING)	KOHLER "STACCATO" MODEL K-3362-4	1/2"	1/2"	-	1-1/2"	1-1/2"	PROVIDE KOHLER "FORTE" MODEL Z8226B1-XL FAUCET, WITH BRUSHED CHROME FINISH.	
SK-2	SINK (LAB), FAUCET, SUPPLIES, AND DRAIN	SINK INTEGRAL WITH COUNTERTOP UNDER SQUARE DIVISION	1/2"	1/2"	-	-	-	PROVIDE KOHLER MODEL 930-317 SAM GOOSENECK FAUCET WITH VACUUM BREAKER, WRIST BLADES, WITH CHROME FINISH. ACQUIRE #158LK RIGID CHROME FINISHED SUPPLIES WITH LOOSEKEY STOPS AND A #151 STRAINER WITH TAILPIPE (NO P-TRAP REQUIRED)	
SB-1	SERVICE BASIN - FLOOR SET, 24" x 24" MOLDED STONE	FIAT PRODUCTS #MSB-2424	1/2"	1/2"	-	3"	1-1/2"	FAUCET, FIAT 830 AA, MOP BRACKET, FIAT 888 CC, BUMPER GUARDS, FIAT E-77-AA, HOSE AND BRACKET, FIAT 832 AA, STAINLESS STEEL WALL GUARD, FIAT MSG 2424 (ADJACENT WALLS ONLY).	
FD-1	FLOOR DRAIN (TOILETS)	ZURN #ZN415-3NL	-	-	-	3"	-	WITH 6" SQUARE, NICKEL BRONZE STRAINER AND DURACOATED BODY. PROVIDED WITH TRAP SEAL	
FD-2	FLOOR DRAIN (SHOWER STALLS/DRYING AREAS)	ZURN #ZN415-3NL	-	-	-	2"	1-1/2"	WITH 6" SQUARE, NICKEL BRONZE STRAINER AND DURACOATED BODY. PROVIDED WITH TRAP SEAL WITH OR WITHOUT P-TRAP AS NOTED	
EWC-1	ELECTRIC WATER COOLER (HIGHFLOW W/ BOTTLE FILLER)	ELKAY #LZSTL8WSLP	1/2"	-	-	1 1/2"	-	WITH BOTTLE FILLING STATION, 8 GPH, 115V, 5.0 AMPS. INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.	
SA-1	SHOCK ABSORBER	ZURN #Z1700	CONN. SIZE	CONN. SIZE	-	-	-	REFER TO SIZING SCHEDULE BELOW.	
ESES-1	EMERG SHOWER AND EYE/FAREWASH STATION	BRADLEY MODEL S19-304DZB	-	-	1 1/4"	-	-	PROVIDE A #9102, SS, DUST COVER, AND 1 1/4" DIRECT DRAIN TO ADJACENT HUB DRAIN W/ AIR CAP.	
ESES-2	EMERG SHOWER AND EYE/FAREWASH STATION (FREEZE PROOF)	BRADLEY MODEL S19-214PDCFV	-	-	1 1/4"	-	-	PROVIDE A #9102, SS, DUST COVER.	
EES-1	EMERG EYE/FAREWASH STATION	BRADLEY MODEL S19-219PDCFV	-	-	-	-	-	FLOOR MOUNTED	
MV-1	MIXING VALVE (85°F DTW SYSTEM)	BRADLEY NAVIGATOR S19-2350P	1"	1"	1 1/4"	-	-	WITH WALL MOUNTED BRACKET AND INLET AND OUTLET SHUTOFF VALVES.	
MV-2	MIXING VALVE (120°F DHW SYSTEM)	BRADLEY 559-304SP	1"	1"	1 1/4"	-	-	WITH WALL MOUNTED BRACKET AND INLET AND OUTLET SHUTOFF VALVES.	
HWRP-1	HOT WATER RECIRC. PUMP	GRUNDFOS MODEL ALPHA 1 15-40 130 45 / #FN9119692	-	1 1/4"	-	-	-	WITH 1 1/4" CONNECTIONS, RATED @ 1/4 HP, 120-1-60, RATED MAX 7 GPM AT 6 TDH, HARD WIRED, AND SUPPORT FOR PUMP, AND PROVIDE RIGID SUPPORT OF PUMP. INSTALL PUMP PER DETAIL ON DRAWINGS.	
RBP-1	REDUCED PRESSURE BACKFLOW PREVENTER	WATTS MODEL NRS-909	4"	-	-	-	-	WITH A WATTS AIR GAP FUNNEL DRAIN FITTING	
DM-1	DOMESTIC WATER METER	BADGER TURBO SERIES / MODEL 450	3"	-	-	-	-	RATED AT 450 GPM, MINIMUM 4 GPM FLOW	
CP-1	CONDENSATE PUMP	LIBERTY #405	-	-	-	2"	2"	RATED AT 12 GPM @ 30 TDH, 1/2 HP, 120V/160. TO BE HARDWIRED IN CONDUIT TO JUNCTION BOX.	
CP-2	MINI-SPLIT CONDENSATE PUMP	LITTLE GIANT	-	-	-	-	-	RATED AT 2.5 GPH @ 1" FLOW, 33" MAX SHUT OFF, 100-240V, 50/60 HZ, 0.18 A. CONNECT TO FCU POWER TERMINAL.	
SP-1	SUMP PUMP (@ LAB ESES-1)	STANCOR MODEL SE-50	-	-	-	-	-	RATED AT 50 GPM @ 22 TDH, 1/2 HP, 120V/160. TO BE HARDWIRED IN CONDUIT TO JUNCTION BOX.	

PKG. 13M02 AND 14M02

PKG. 14M02

INDUSTRIAL WASTE PUMP SCHEDULE													
MARK	QTY.	LOCATION	SERVICE	MANUFACTURER	SERIES / MODEL	FLOW (GPM)	HEAD (FT)	FLUID TYPE	OPERATION TEMP. (F)	DISCHARGE SIZE (IN)	HP	POWER (VPH/Hz)	REMARKS
IWP-1	1	MECHANICAL ROOM #117	MEN AND WOMEN'S SHOWERS AND LV-3	LIBERTY PUMPS	253	10	20	WATER	80	2"	1/3	120V/160 PLUG-IN	PROVIDE HIGH LEVEL ALARM WITH HORN

GAS STORAGE WATER HEATER SCHEDULE												
MARK	LOCATION	MFRS.	MODEL	DIA	HEIGHT	STORAGE (GAL)	TOTAL BTUS	EWT (°F)	LWT (°F)	RECOVERY	OPERATING WEIGHT (LBS)	REMARKS
GWH-1	MECHANICAL ROOM - 117	AO SMITH	BTHL-199A	42 1/8"	90 1/8"	250	199,000	50	170	192 GPH @ 120° RISE	3208	WITH FLOOR MOUNTED AMTROL ST-30V EXPANSION TANK

BAG FILTER SCHEDULE						
MARK	MANUFACTURER	FILTER VESSEL NUMBER	MODEL	FILTER BAG NUMBER	MODEL	REMARKS
BF-1	FISCHER-ROBERTSON	GBFV830-2N31456B		PES1P2PP-NE		

NOTES:
1. FILTER VESSEL: SIZE 32 304 STAINLESS STEEL BAG FILTER VESSEL RATED 150 PSF @ 250 DEG F WITH FNPT SIDE INLET AND BOTTOM OPPOSITE OUTLET OPTION. CLOSURE TO BE SWING BOLT TYPE WITH BUNA-N SEAL VENT AND DIFFERENTIAL PRESSURE PORTS TO BE 1/2" NPT, PROVIDE WITH ADJUSTABLE MOUNTING STAND.
2. FILTER BAG: SIZE #2 SINGED POLYESTER FELT 1 MICRON FULLY WELDED BAG 7.06 DIAMETER x 32.0" LENGTH WITH POLYPROPYLENE TOP RING. PROVIDE A TOTAL OF (8) FILTER BAGS

SHOCK ABSORBER SIZING SCHEDULE	
NO. OF FIXTURE UNITS	ZURN SERIES
1-11	Z-1700-100
12-32	Z-1700-200
33-60	Z-1700-300
61-113	(2) Z-1700-300

URINAL - 5 F.U. LAVATORY - 2 F.U. WATER CLOSET - 10 F.U.

NATURAL GAS CONNECTION SCHEDULE	
IDENT.	LOAD IN CFH
ARU - 1	2,600
ARU - 2	2,600
RTU - 1	688
RTU - 2	2,358
RTU - 3	300
RTU - 4	80
AHU - 1	200
DOA - 1	200
UH-1	400
UH-2	400
GWH-1	199

SUB-TOTAL (BLDG. HTG.) 10,025 CFH
SUB-TOTAL (PROCESS) 12,706 CFH
TOTAL CONNECTED LOAD: 22,731 CFH

NOTES:
1. PIPING SIZED FOR 5 PSI DISTRIBUTION PRESSURE, LONGEST PIPE RUN OF 650 FT.
2. PIPING SIZED FOR BUILDING HEATING EQUIPMENT ONLY (NO PROCESS).
3. TOTAL CONNECTED LOAD AT METER, FOR BLDG. HEATING SYSTEM AND PROCESS PROVIDED BELOW.

*THIS SHEET IS APPLICABLE TO 11M01, 13M02 AND 14M02 SCOPE
*DASHED DOT AREAS ARE NOT IN SCOPE FOR THIS PACKAGE.

SSOE, Inc.
1001 Madison Avenue
Toleno, GA 30084
T. (419) 255-3830

PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: J. JACOBS
CHECKED: B. WHITEHEAD

DRAWING TITLE:
PLUMBING SCHEDULES

DRAWING NO:
MP-600