

PLUMBING FIXTURE SCHEDULE								
NUMBER FIXTURE	P-1	P-2	P-3	P-4	P-5	MGCV	AAV-1	DCVA
FIXTURE/ SERVICE	LABORATORY SINK	EMERGENCY SHOWER / EYE WASH	SINGLE OUTLET COMPRESSED AIR	DUAL OUTLET NATURAL GAS TURRET	CUP SINK	NATURAL GAS SHUTOFF CONTROL	AIR ADMITTANCE VALVE	DOMESTIC WATER
TYPE	COUNTERTOP	COMBINATION UNIT ADA	DECK MOUNT	DECK MOUNT ADA	BENCH MOUNTED	RELAY CONTROL PANEL & SOLENOID VALVE	MECHANICAL VENT	DOUBLE CHECK VALVE ASSEMBLY
COMPONENT MANUFACTURER MODEL NO.	SINK LAB FIXTURES MODEL# D33E EPOXY RESIN, DROP IN SINK W/SIDE SINK OUTLET 21"x17"x10" DEEP (BY CASEWORK) FAUCET (DHW&DCW) WATERSAVER FAUCET CO. ICI# 950WSBH L411-VB-FC-1.0 DECK MOUNTED LABORATORY MIXING FAUCET W/6" RIGID VACUUM BREAKER 4" FORGET BRASS WRIST BLADE HANDLES REMOVABLE TEN SERRATION HOSE END 1.0 GPM (BY CASEWORK) DEIONIZED FAUCET COLE-PARMER ICI# CPL611-8VB-BH ITEM# UX-78984-74 SINGLE TEMP DI WATER FAUCET W/VACUUM BREAKER AND BLADE HANDLE (BY P.C.). POLYPROPYLENE SINK OUTLET LAB FIXTURES MODEL# S03-R (BY CASEWORK) POLYPROPYLENE SINK STOPPER ICI# 9689 MODEL# STPR-02P-B POLYPROPYLENE 1½" TAILPIECE FLOWSERVE DURIRON IRON ALLOY DRUM-TRAP, P SWIVEL TYPE W/ CO MODEL: SA3485 (BY P.C.) SUPPLY ¾" O.D. FLEXIBLE STAINLESS STEEL BRAIDED TUBING (BY P.C.)	DECK MOUNTED EMERGENCY EYE / FACE WASH (BY P.C.) MANUFACTURER: ACORN MODEL# SOA60-LH OPTIONAL RIGHT OR LEFT HAND INSTALLATION - LH ON PLANS 3.7GPM INTEGRAL FLOW CONTROL; ABS YELLOW PLATIC EYE/FACE WASH HEADS W/ DUST COVERS. 1/2" NPT CHROME PLATED BRASS STAY-OPNE BALL VALVE WITH S.S. PUSH HANDLE AND 50 MESH INLINE STRAINER. UNIVERSAL ANSI COMPLIANT IDENTIFICATION SIGN. CONTRACTOR SHALL FURNISH AND INSTALL THERMOSTATIC MIXING VALVE TMV-1; ACOTN MODEL# ET71-1-BVS-OTG W/SINGLE POLE FLOW SWITCH FLW2. NOTE: SEE MANUFACTURERS SUBMITTAL SHEET FOR ROUGH-IN DIMENSIONS. COORDINATE INSTALLATION WITH CASEWORK.	COMPRESSED AIR DECK MOUNTED; ¾" TURN BALL VALVE; CHROME FINISH, SINGE OUTLET; PROVIDE QUICK DISCONNECT COORDINATE MOUNTING HOLES WITH COUNTER-TOP AND CASEWORK. (BY CASEWORK) PLUMBER SHALL FIELD VERIFY LOCATION AND INSTALLATION REQUIREMENTS PRIOR TO CONSTRUCTION.	GAS TURRET DECK MOUNTED DUAL OUTLET MODEL# L4100-132AWSA DOUBLE BALL VALVES AT 90 DEGREES AND INTEGRAL STRAIGHT SERRATED HOSE ENDS VALVE BODY: FORGED BRASS W\CHROME FINISH VALVE UNIT: QUARTER-TURN OPEN/CLOSE WITH CHROME PATED BRASS BALL AND MOLDED PTFE SEALS HANDLE: FORGED BRASS LEVER HANDLES W/ COLOR COLDED INDEX DISC. INLET: FURNISHED W/ 1/2" IPS MOUNTING SHANK (ASSMBLED), LOCKNUT AND WASHER, 1/2" NPT MALE INLET OUTLET: INTEGRAL (NONREMOVABLE) SEVEN SERRATION HOSE ENDS FIXTURE IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT. GAS TURRETS SHALL BE SHIPPED LOOSE AND INSTALLED ON SITE.	ORION POLYETHYLENE LAB CUP SINK 7"Lx3½"Wx6½"H 6"Lx3"Wx4"D BOWL PERMITS ABOVE OR BELOW MOUNT. COLOR: BLACK DRAIN: 1½" DIA.	ASCO GAS SERVICE RELAY CONTROL PANEL MODEL: 108D90C 120V/60HZ AC VOLT CONTROL SOLENOID VALVE 1-1/4 INCH MODEL: 82158060 SOLENOID VALVE 24DC. 14.9 WATTS. COORDINATE POWER REQUIREMENTS WITH ELECTRICIAN. PROVIDE ALL CONTROL WIRING, CONDUITS, JUNCTION BOXES, ETC.	IPS CORPORATION 10 500 DISTRIBUTION PARKWAY COLLIERVILLE, TN 38017 (901)853-5001 STUDOR MINI-VENT 2" W\PROTECTIVE COVER MODEL: 20301 NOTE: AIR ADMITTANCE VALVES SHALL BE INSTALLED ON ALL LAB SINKS. REFER TO ISLAND SINK DETAIL ON DRAWING P41 FOR PIPING LAYOUT. PROVIDE DIAL TYPE PRESSURE GAUGE ASSEMBLIES ON INLET AND OUTLET OF BACKFLOW PREVENTERS NOTE: INSTALLATION OF BACKFLOW PREVENTION DEVICES SHALL BE APPROVED BY LOCAL AUTHORITIES HAVING JURISDICTION BASED ON HEALTH HAZARD RISK ASSESSMENT. DOUBLE CHECK VALVE ASSEMBLIES FOR THIS APPLICATION HAVE BEEN INSTALLED IN ADDITION TO VACUUM BREAKERS LOCATED AT EACH LAB SINK.	DOUBLE CHECK VALVE ASSEMBLY WITH ½" TURN FULL PORT BALL VALVES AND BRONZE STRAINER. WATTS SERIES 007 MODEL: 007MQT-S SIZE: 2" TEMPERATURE RATING: 33°F-180°F MAXIMUM PRESSURE: 175 PSI PROVIDE DIAL TYPE PRESSURE GAUGE ASSEMBLIES ON INLET AND OUTLET OF BACKFLOW PREVENTERS NOTE: INSTALLATION OF BACKFLOW PREVENTION DEVICES SHALL BE APPROVED BY LOCAL AUTHORITIES HAVING JURISDICTION BASED ON HEALTH HAZARD RISK ASSESSMENT. DOUBLE CHECK VALVE ASSEMBLIES FOR THIS APPLICATION HAVE BEEN INSTALLED IN ADDITION TO VACUUM BREAKERS LOCATED AT EACH LAB SINK.

PLUMBING PIPE SCHEDULE								
ITEM	SERVICE	PIPE/TUBE	FINISH	MFR.	JOINT	VALVE/ FITTINGS	TESTING	MISC.
SANITARY/ VENT	ABOVE GROUND WASTE/VENT	SERVICE WEIGHT CAST IRON DWV FITTINGS	NA	CHARLOTTE	HUSKY 4000 SERIES SS NO-HUB COUPLING	NA	WATER 10 FT.	-
LAB WASTE/ VENT	LAB WASTE AND VENT	FUSEAL POLYPRO SCH 40 DMV FITTINGS	NA	+GF+ PIPING	ELECTRO-FUSION SOCKET WELD	NA	WATER 10 FT.	SEE NOTE 1
HW/CW	HOT/COLD WATER	TYPE L COPPER	NA	MUELLER	95-5 TIN/ANTIMONY LEAD FREE SOLDER	BALL VALVES W\WROT COPPER FITTINGS	WATER/AIR 100 PSIG	DISINFECT (CUL)
TW	TEPID WATER	TYPE L COPPER	NA	MUELLER	95-5 TIN/ANTIMONY LEAD FREE SOLDER	SANITARY BALL (LOCKABLE HANDLE)	WATER/AIR 100 PSIG	DISINFECT (CUL)
CDIS/R	COLD DI/RO WATER	POLYPROPYLENE (PROGEF NATURAL PP-R)	NA	+GF+ PIPING	BCF PLUS FUSION WELDING	BALL/BCF PLUS	WATER/AIR 100 PSIG	SEE NOTES 5
HDIS/R	HOT DI/RO WATER	316L ASME-BPE SANITARY TUBING	20 RA POLISHED	CSI	ORBITAL WELD/ TRI-CLAMP	DIAPHRAGM-TEFLON/ BPE FITTINGS	WATER/AIR 100 PSIG	SEE NOTES 4, 5
CA	COMPRESSED AIR (0-175PSIG)	TYPE L COPPER	NA	MUELLER	95-5 TIN/ANTIMONY LEAD FREE SOLDER	BALL VALVES W\WROT COPPER FITTINGS	WATER/AIR 275 PSIG	SEE NOTES 6

- NOTES
- ACID WASTE PIPING SHALL BE FUSEAL POLYPRO MANUFACTURED BY GEORGE FISHER HARVEL LLC. ALL PIPING AND SUPPORTS SHALL BE INSTALLED AS PER MANUFACTURERS GUIDELINES.
 - AT CONNECTION TO EXISTING SANITARY MAIN NO-HUB COUPLINGS SHALL BE A MINIMUM OF 4 CLAMPS PER COUPLING. CLAMPS SHALL BE TORQUED TO 80IN-LBS AS PER MANUFACTURERS INSTALLATION GUIDELINES. COUPLINGS SHALL BE SIMILAR OR APPROVED EQUAL TO ANACO-HUSKY 4000 HEAVY DUTY SERIES.
 - CASEWORK SHALL BE FURNISHED AND INSTALLED BY CASEWORK VENDOR. PLUMBER SHALL COORDINATE ALL REQUIRED OPENINGS, PIPE CHASES, ACCESS PANELS, ETC WITH THE CASEWORK MANUFACTURER AND PROVIDE DETAILED SHOP DRAWINGS FOR REVIEW AND APPROVAL BY ENGINEER AND OWNER PRIOR TO RELEASE FOR FABRICATION.
 - ORBITAL WELDS, INTERNALLY PURGED UNDER 99.9998% PURE ARGON/HELIUM BLANKET SHALL BE 10% BOROSCOPE INSPECTED, GASKETS SHALL BE TEFLON.
 - PROVIDE 2" CHLORIDE FREE CLOSED CELL INSULATION W/ PVC JACKET.
 - PROVIDE A MINIMUM OF (2) BALL VALVES, A REGULATOR, (2) PRESSURE GAUGES, FILTER/DRYERASSEMBLY AND A ¾" QUICK CONNECT COUPLER FOR COMPRESSED AIR OUTLETS (TYPICAL). COORDINATE EXACT QUANTITY OF COMPRESSED AIR OUTLETS WITH BUILDING MANAGEMENT PRIOR TO BID.

DRAINAGE FIXTURE SCHEDULE				
TAG	NAME	TRAP SIZE (IN.)	DRAIN FIX UNITS	NOTES
P-1	LAB SINK	1-1/2	2	SEE NOTES 1,2

- NOTES
- ALL PIPE SIZES SHOWN ARE MINIMAL REFER TO PLUMBING RISER DIAGRAMS FOR SCHEMATIC PIPING LAYOUT AND PIPE SIZES.
 - PROVIDE SEDIMENT TRAP WITH INTEGRAL CLEAN-OUT AS INDICATED ON PLUMBING FIXTURE SCHEDULE.

WATER FIXTURE SCHEDULE					
TAG	NAME	BRANCH SIZE (IN.)	WSFU DW	WSFU DHW	NOTES
P-1	LAB SINK	3/4	1	1	-
P-2	EEW	1-1/4	-	-	MAX 20 GPM

- NOTES
- ALL PIPE SIZES SHOWN ARE MINIMAL REFER TO PLUMBING RISER DIAGRAMS FOR SCHEMATIC PIPING LAYOUT AND PIPE SIZES.

NATURAL GAS PIPE SCHEDULE							
ITEM	SERVICE	PIPE/TUBE	FINNISH	JOINT	FITTINGS	VALVES	TESTING
NG	NATURAL GAS (LOW PRESSURE)	2" & BELOW: CARBON STEEL, SEAMLESS ASTM A106, GRADE B, SCH. 40. 2½" & ABOVE: CARBON STEEL, ASTM A53, GRADE B, ELECTRIC RESISTANCE WELDED, SCH. 40, ANSI B36.10	N/A	2½" & UNDER: COUPLINGS FULL/REDUCING USE THREADED CONSTRUCTION. 3" AND OVER: BUTT WELDS, FULL SIZE-USE TEES, REDUCING SIZE-USE THREADDLETS OR BRANCH WELDS.	2½" & UNDER: MALLEABLE IRON FITTINGS, ANSI B16.3, ASTM A197, CLASS 150, STANDARD PATTERN, THREADED ENDS, ANSI B1.20.1 3" AND OVER: CARBON STEEL BUTT WELD FITTINGS, ASTM A234 GR-WPB, SEAMLESS OR WELDED, ANSI B16.9, SCH. 40, ANSI B36.10.	2" & UNDER: GAS COCK, 200 PSI, ASTM A726, BRONZE BODY STRAIGHTAWAY PATTERN, WRENCH OPERATED, THREADED ENDS. 2½" AND OVER: PLUG VALVE, WRENCH OPERATED, TAPERED LUBRICATED, CAST IRON BODY, 200 PSI CWP, CLASS 125 FLANGED ENDS.	TEST IN ACCORDANCE WITH NFPA 54, PART 4, "GAS PIPING INSPECTION, TESTING AND PURGING" AND INTERNATIONAL FUEL GAS CODE-2018

- NOTES
- ALL GAS PIPING SHALL BE SANDED, PREPPED, PROMED WITH AS GALVANIZED BASED PRIMER AND PAINTED SAFETY YELLOW WITH A MINIMUM OF 2 COATS OF EPOXY BASED PAINT.

0	ISSUED FOR BID AND CONSTRUCTION	LG	24 SEPT 21
REV	REVISION DESCRIPTION	BY	DATE
<div><div><div>EI</div><div>ARCHITECTURE ENGINEERING PLANNING</div></div><div><div>Architects & Engineers, PC</div><div>8 RIDGEDALE AVENUE • CEDAR KNOLLS NJ 07927 • 973.775.7777</div></div></div>			
GAETANO P. CIPRIANO, P.E.		PROFESSIONAL ENGINEER LICENSE NO. NY 064215-1	PLUMBING
SCALE	AS NOTED	PROJECT	EIA DRAWING NO.
DRAWN BY:	PROJECT	INSTRUMENTATION LABORATORY LOCKER ROOM EXPANSION ORANGEBURG NEW YORK	P60
DESIGNED BY:	PROJECT		
CHECKED BY:	PROJECT		
APPROVED BY:	PROJECT		
PROJECT MANAGER:		TITLE	CLIENT DWG. NO. - - - - - EIA PROJECT NO. EG8577.03
		SCHEDULES	