

PLUMBING FIXTURE UNIT TABULATION

FIXTURE (IPC E103.3(2) AND 709.1)	TOTAL FIXTURES	CW SUPPLY		HW SUPPLY		TOTAL SUPPLY		DRAINAGE UNITS		
		PER FIXTURE	TOTAL UNITS	PER FIXTURE	TOTAL UNITS	PER FIXTURE	TOTAL UNITS	PER FIXTURE	TOTAL UNITS	
BATHROOM GROUP - FLUSH TANK		2.7	0	1.5	0	3.6	0	5	0	
BATHROOM GROUP - FLUSH VALVE		6	0	3	0	8	0	6	0	
BATHTUB - PRIVATE		1	0	1	0	1.4	0	2	0	
BATHTUB - PUBLIC		3	0	3	0	4	0	2	0	
BIDET		1.5	0	1.5	0	2	0	1	0	
COMBINATION FIXTURE		2.25	0	2.25	0	3	0	2	0	
DISHWASHING MACHINE	1	0	0	1.4	1.4	1.4	1.4	2	2	
DRINKING FOUNTAIN		0.25	0	0	0	0.25	0	0.5	0	
FLOOR DRAIN	4	0	0	0	0	0	0	2	8	
FLOOR DRAIN - EMERGENCY		0	0	0	0	0	0	0	0	
KITCHEN SINK - PRIVATE		1	0	1	0	1.4	0	2	0	
KITCHEN SINK - PUBLIC	1	3	3	3	3	4	4	1	1	
LAUNDRY TRAYS (1 TO 3)		1	0	1	0	1.4	0	2	0	
LAVATORY - PRIVATE	1	0.5	0.5	0.5	0.5	0.7	0.7	1	1	
LAVATORY - PUBLIC	1	1.5	1.5	1.5	1.5	2	2	1	1	
MOP SINK/SERVICE SINK	2	2.25	4.5	2.25	4.5	3	6	3	6	
SHOWER HEAD - PUBLIC	1	3	3	3	3	4	4	2	2	
SHOWER HEAD - PRIVATE		1	0	1	0	1.4	0	2	0	
URINAL (PUBLIC 1" FLUSH VALVE)		10	0	0	0	10	0	4	0	
URINAL (PUBLIC 3/4" FLUSH VALVE)	1	5	5	0	0	5	5	2	2	
URINAL (PUBLIC FLUSH TANK)		3	0	0	0	3	0	4	0	
URINAL - WATERLESS		0	0	0	0	0	0	0.5	0	
WASHING MACHINE - 8 LB PRIVATE		1	0	1	0	1.4	0	2	0	
WASHING MACHINE - 8 LB PUBLIC	1	2.25	2.25	2.25	2.25	3	3	3	3	
WASHING MACHINE - 15 LB		3	0	3	0	4	0	3	0	
WATER CLOSET, FLUSH VALVE, PRIVATE		6	0	0	0	6	0	4	0	
WATER CLOSET, FLUSH TANK, PRIVATE	1	2.2	2.2	0	0	2.2	2.2	3	3	
WATER CLOSET, FLUSH VALVE, PUBLIC		10	0	0	0	10	0	6	0	
WATER CLOSET, FLUSH TANK, PUBLIC	1	5	5	0	0	5	5	4	4	
WATER CLOSET, FLUSHMETER TANK		2	0	0	0	2	0	4	0	
HOSE BIBB #1(1")		5	0	0	0	0	0	0	0	
HOSE BIBB #2 (1/2")		2.5	0	0	0	0	0	0	0	
EYE WASH AND SHOWER	1	3	3	3	3	0	0	2	2	
PROCESS WATER LOAD	3	3	9	0	0	3	9	0	0	
SANITARY CONNECTED FLOOR DRAIN		0	0	0	0	0	0	2	0	
TOTALS			38.95		19.15		42.3		35	
CW FIXTURE UNITS PER 2009 IPC TABLE E201.1	42.3	REQUIRES 1" METER, 1-1/2" DCW MAIN AT 30 PSI INCOMING PRESSURE, 115 FT DEVELOPED LENGTH								
DRAINAGE FIXTURE UNITS PER 2009 IPC TABLE 710.1(1)	35	REQUIRES 4" SANITARY WASTE MAIN @ 1/8" PER FOOT SLOPE								

LAB VALVE SCHEDULE

MARK	DESCRIPTION	MIN CONNECTION SIZE (in) GAS	MIN CONNECTION SIZE (in) VAC	MIN CONNECTION SIZE (in) RO	
					LGV-1
LGV-2	LAB GAS VALVE	CHICAGO FAUCET 980-WS909AGVCP INDEX FOR VACUUM SERVICE		1/2	
LWV-1	LAB WATER VALVE	WATER SAVER CT62800-6231WSA INDEX FOR RO SERVICE			3/8

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MINIMUM CONNECTION SIZE (in.)					NOTES
		WASTE	VENT	COLD WATER	HOT WATER	RO	
CBV-1	CALIBRATED BALANCING VALVE						
	MANUF/MODEL	BELL&GOSSETT / CIRCUIT SETTER PLUS- BALANCE TO MAINTAIN FLOW THROUGH RCP-1					
DW-1	DISHWASHER					1/2"	
	TYPE	BY OWNER					
EEW-1	EMERGENCY EYEWASH						
	TYPE	SHOWER					
	MANUF/MODEL	1-1/2"	1"	1	1		(6)
FD-1	FLOOR DRAIN						
	TYPE	J.R. SMITH / 2110					
	MANUF/MODEL	3"	2"				(4)
FD-2	FLOOR DRAIN						
	TYPE	J.R. SMITH / 2110					
	MANUF/MODEL	2"	1"				(4)
L-1	LAVATORY-ADA						
	TYPE	WALL-HUNG NO BARRIER					
	MANUF/MODEL/COLOR	AMERICAN STANDARD / 9140.047 / WHITE					
	FAUCET MANUF/MODEL	AMERICAN STANDARD / SELECTRONIC 6056.105 WITH V035 0.35 GPM AERATOR PROVIDE WATTS MMV-MI TEMPERING VALVE BELOW SINK. HOT WATER NOT TO EXCEED 110F.					
L-2	LAVATORY						
	TYPE	WALL-HUNG					
	MANUF/MODEL/COLOR	AMERICAN STANDARD / 0356.421 / WHITE					
	FAUCET MANUF/MODEL	AMERICAN STANDARD / SELECTRONIC 6056.105 WITH V035 0.35 GPM AERATOR PROVIDE WATTS MMV-MI TEMPERING VALVE BELOW SINK. HOT WATER NOT TO EXCEED 110F.					
MS-1	MOP SINK						
	TYPE	24x24					
	MANUF/MODEL	FIAT / SB2424					
	FAUCET MANUF/MODEL	AMERICAN STANDARD / 8340.243 INCLUDE OPTIONAL SPLASH CATCHER PANELS AND CAP 2 SIDES					
OB-1	OUTLET BOX						
	TYPE	ICE MAKER BOX					
	MANUF/MODEL	WALL-MOUNTED POLYSTYRENE BOX WITH 1/4 TURN BALL VALVES AND WATER HAMMER ARRESTOR OATEY / 38681					
OB-2	OUTLET BOX						
	TYPE	WASHER BOX					
	MANUF/MODEL	WALL-MOUNTED POLYSTYRENE BOX WITH 1/4 TURN BALL VALVES AND WATER HAMMER ARRESTOR OATEY / "QUADTRO" 38530					
S-1	2-COMPARTMENT KITCHEN SINK						
	TYPE	JUST DLF-2128-A-GR, (1) HOLE CENTERED					
	FAUCET MANUF/MODEL	AMERICAN STANDARD / 4433.100					
	GARBAGE DISPOSAL	INSINKERATOR / BADGER 5					
S-2	2-COMPARTMENT LAB SINK						
	TYPE	JUST DLF-2128-A-GR, (3) HOLES CENTERED, POLYPROPYLENE ACID WASTE TO NEUTRALIZATION TRAP					
	FAUCET MANUF/MODEL	CHICAGO / 201-AGN2BVBE7-317CP					
	RO FAUCET MANUF/MODEL	PROVIDE SPEARS T4001G1612 DILUTION TRAP IN ADJACENT CASEWORK CHICAGO / 828-ASAM					
S-3	LAB ISLAND SINK						
	TYPE	JUST SL-2119-A-GR, (2) HOLES ON 6" CENTERS, POLYPROPYLENE ACID WASTE TO NEUTRALIZATION TRAP					
	FAUCET MANUF/MODEL	CHICAGO / 930-317CP					
	RO FAUCET MANUF/MODEL	PROVIDE WATTS MMV-MI TEMPERING VALVE BELOW SINK. HOT WATER NOT TO EXCEED 110F. PROVIDE SPEARS T4001G1612 DILUTION TRAP IN ADJACENT CASEWORK CHICAGO / 828-ASAM					
SH-1	SHOWER						
	TYPE	MIROLIN MELROSE- 48"x38" SHOWER STALL					
	FAUCET MANUF/MODEL/COLOR	AMERICAN STANDARD BERWICK FLOWISE / SHOWER TRIM AND VALVE ONLY / CHROME					
	FLOOR DRAIN	WATTS SDCP					
TMV-1	THERMOSTATIC MIXING VALVE						
	TYPE	TEMPERED WATER					
	MANUF/MODEL/COLOR	WATTS 1-1/4 N170-M3 CSUT					
UR-1	URINAL						
	TYPE	HIGH EFFICIENCY FLUSH VALVE					
	MANUF/MODEL/COLOR	AMERICAN STANDARD / WASHBROOK 6590.125/ WHITE					
	FLUSH VALVE/FINISH	AMERICAN STANDARD / FLOWISE 6045.013.002 0.125GPF MANUAL					
WC-1	WATER CLOSET						
	TYPE	FLOOR MOUNTED TANK TYPE ADA/ANSI HEIGHT					
	MANUF/MODEL/COLOR	AMERICAN STANDARD / 2793.000 / WHITE					
	SEAT/COLOR	INCLUDED/ WHITE					
WCO	WALL CLEANOUT						
	TYPE	J.R. SMITH / HYDROTROL 5010					
WHA-1	WATER HAMMER ARRESTOR						
	TYPE	2" / 3" / 4"					
	MANUF/MODEL	1"					

NOTES:

- (1) MOUNT ON WALL WITH MANUFACTURER'S MOUNTING BRACKET.
- (2) MOUNT IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT STANDARDS. INCLUDE OFFSET TAILPIECE (JUST J-ADA-115-FS OR EQUIV.) AND TRUEBRO LAV-GUARD INSULATION KIT IN CHINA WHITE ON ALL A.D.A. LAVATORIES.
- (3) PROVIDE GRID STRAINER, CHROME-PLATED BRASS ANGLE STOP VALVES AND CHROME-PLATED P-TRAP.
- (4) PROVIDE TRAP PRIMER
- (5) PROVIDE POLYPROPYLENE SANITARY LINES WITH ELECTROSOCKET FUSION JOINTS TO ACID NEUTRALIZATION TRAP IN ADJACENT CASEWORK.
- (6) TEMPERED WATER SUPPLIED TO EEW SHOWER FROM TMV-1 MIXING VALVE. MAX OUTLET TEMP 85 DEG F.
- (7) PROVIDE STAINLESS STEEL DRAIN PLATE.

GAS WATER HEATER SCHEDULE

MARK	MANUF.	MODEL	THERMAL EFFICIENCY	DIMENSIONS			RECOV. RATE AT 100F RISE (GAL/HR)	GAS DATA			NOTES
				HEIGHT (in.)	DIAMETER (in.)	SHIP WT. (LBS)		MBH	VENT SIZE (in)	CONN. (in)	
WH-1	A.O. SMITH	BTX-80	90%	70.625	27	210	83	76	3	1/2	(1)(2)(3)

NOTES:

- (1) PROVIDE WATTS DET-5 EXPANSION TANK AND DIELECTRIC CONNECTIONS AT WATER HEATER
- (2) PROVIDE GAS REGULATOR PER MANUFACTURERS RECOMMENDATIONS AND SIDE OUTLET AND INLET
- (3) PROVIDE PVC CONCENTRIC VENT

PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	SIZE	FLOW (GPM)	HEAD (FT)	MIN. EFF. %	MOTOR HP	MOTOR RPM	VOLT/PHASE	TYPE	SERVICE	NOTES
RCP-1	WLO	Z-15 BS7	3/4"	1	3	65	1/20	1700	120/1	ECM IN LINE	HEATING LOOP	(1)(2)

NOTES:

- (1) PROVIDE DIGITAL TIMER AND STRAP ON THERMOMETER.
- (2) MOUNT INLINE-6" POWER CORD INCLUDED.

REVISIONS		
NO.	DATE	DESCRIPTION
1	06/29/2012	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PRRB (OPERATIONS BUILDING)
2	08/15/2012	ISSUED FOR CONSTRUCTION PER PRRB BUILDING PERMIT #135220 (OPERATIONS BLDG)

THIS DRAWING IS THE PROPERTY OF GMS, INC., AND IS NOT TO BE REPRODUCED, MODIFIED OR USED FOR ANY OTHER PROJECT OR EXTENSION OF THIS PROJECT EXCEPT BY AGREEMENT WITH THIS COMPANY.

PLUMBING SCHEDULES
HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY
LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

DRAWN SKC DESIGNED DRF CHECKED RJS DATE MAY 2012 PROJECT NO. 20166.410 GMS FILE NO. 2599	GMS, INC. CONSULTING ENGINEERS 611 N. WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903	SHEET OP-P5 OF -
---	---	----------------------------------