

PLUMBING FIXTURE SCHEDULE						
FIXTURE	DISCRIPTION	ABBRV.	C/W	H/W	WASTE	REMARKS
WC-1	WATER CLOSET	WC-1	1"	-	4"	FLR. MTD. - F.V. - H.C.
WC-2	WATER CLOSET	WC-2	1"	-	4"	FLR. MTD. - F.V. - H.C.
U-1	URINAL	U-1	3/4"	-	2"	WALL HUNG - H.C.
MS-1	MOP SINK	MS-1	1/2"	1/2"	3	-
L-1	LAVATORY	L-1	1/2"	-	1-1/4"	C.T.
L-2	LAVATORY	L-2	1/2"	-	1-1/4"	WALL HUNG - H.C.
S-1	SINK	S-1	1/2"	1/2"	1-1/2"	1-COMPT.
EWC-1	ELECTRIC WATER COOLER		1/2"	-	1-1/4"	WALL HUNG - B-H LEVEL
WH	WALL HYDRANT	WH-1	3/4"	-	-	-

SHOCK ARRESTOR SCHEDULE					
FIXTURE UNITS	P.D.I. UNITS	ZURN	JOSAM	SMITH	WADE
1-11	A	Z-1700-100	75001	5005	W-5
12-32	B	Z-1700-200	75002	5010	W-10
33-60	C	Z-1700-300	75003	5020	W-20
61-113	D	Z-1700-400	75004	5030	W-50
114-154	E	Z-1700-500	75005	5040	W-75
155-330	F	Z-1700-600	75006	5050	W-100

FLOOR DRAIN SCHEDULE					
ITEM	ZURN	JOSAM	SMITH	WADE	DESCRIPTION
FD-1	Z-415-6S	30000-6S	2006-B	W-1103-G6	6" SQUARE WITH SATIN NICKLE FINISH - 1/2" TRAP PRIMER
FD-2	Z-505-Y	32200-74	2131-C	W-1214-TD	12" ROUND, SEDIMENT BUCKET WITH SATIN BRONZE FINISH - 1/2" TRAP PRIMER
FS-1	ZN-1910-KC	49000	3100-C	W-8114-24	8" SQUARE WITH SATIN NICKLE FINISH - 1/2" TRAP PRIMER
AD-1	Z-415-8S	-	-	-	8" SQUARE WITH SATIN NICKLE FINISH
HD	-	-	-	-	SEE DETAIL

NOTES:

- ALL VERTICAL PLUMBING SHALL BE PLUMB TO WITHIN 1/8" PER 4'.
- ALL WATER CLOSET BENDS SHALL HAVE A STAINLESS STEEL TOP FLANGE.
- RESTROOMS SHALL BE SLOPED TO THE FLOOR DRAINS. SEE ARCHITECTURAL DRAWINGS FOR SLOPE.

4.00 - INSULATION

- ALL ABOVE GROUND WATER PIPING - FIBERGLASS, 1" THICKNESS, ASJ JACKET, DOUBLE SEALING LAP JOINT, 0.24 K AT 75°F. INSULATION AND ADHESIVES INSTALLED IN RETURN AIR PLENUMS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.
- ABOVEGROUND CONDENSATE PIPING SHALL BE 1/2" FLEXIBLE UNICELLULAR POLYOLEFIN FOAM AND SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50 - INCOA "MCOLOK"

5.00 - VALVES AND COCKS

- VALVES 2" AND SMALLER SHALL BE BALL VALVES, 150 PSI SWP, 400 PSI WOG, STANDARD PORT BALL, BRONZE TRIM, CAST BRONZE BODY, CHROMIUM-PLATED BRASS BALL, BRONZE NON-BLOWOUT STEM, TEFLON SEAT, DOUBLE O-RING STEM SEALS, ZINC-COATED STEEL HANDLE WITH PLASTIC COATED HAND GRIP, 90 DEGREE OPERATION FROM FULL OPEN TO TIGHT SHUT-OFF - STOCKHAM S214-BR-T-T, STOCKHAM S216-BR-T-S OR EQUAL.
- CHECK VALVES, ROUGH BRASS, REGRINDING BRONZE DISC - STOCKHAM B-345; B-309 OR EQUAL.

6.00 - STERILIZATION

- DOMESTIC WATER PIPING SHALL BE THOROUGHLY FLUSHED OUT AND STERILIZED IN ACCORDANCE WITH THE STANDARD PLUMBING CODE.

PLUMBING NOTES

- PIPING ROUTING IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING AND ALL ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. CONTRACTOR TO VERIFY STRUCTURAL, MECHANICAL, AND ELECTRICAL INSTALLATIONS AND OBSTRUCTIONS AND ROUTE PIPING TO AVOID ANY AND ALL CONFLICTS.
- ALL PLUMBING INSTALLATIONS AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS AND AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.
- ROUTE ALL PIPING CONCEALED ABOVE CEILING, WITHIN WALLS, OR IN CHASES EXCEPT AS SPECIFICALLY NOTED, OR IN MECHANICAL EQUIPMENT ROOMS.
- SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
- SLEEVE AND FIRESTOP ALL PENETRATIONS OF RATED WALLS, CEILINGS, FLOORS, ETC. INCLUDING ROOF, FLASH AND COUNTERFLASH ALL ROOF PENETRATIONS.
- PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL WHEN REQUIRED BY CODE AN AIR GAP SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES, OR APPARATUS.
- ALL SANITARY WASTE LINES ARE UNDER FLOOR/FLOOR SLAB, ALL VENT LINES AND WATER LINES ARE ABOVE CEILING UNLESS OTHERWISE NOTED.
- SEE WASTE AND VENT RISER SCHEMATIC DIAGRAM FOR WASTE AND VENT PIPE SIZING.
- SEE WATER RISER SCHEMATICS DIAGRAM FOR WATER PIPING SIZING.
- MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE.
- PLUMBING CONTRACTOR TO PROVIDE SANITARY WASTE VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (INCLUDING SUPPLYING AND/OR INSTALLING ALL NECESSARY RELATED STOPS, VALVES, TRAPS, ETC., AND MAKING READY FOR USE) TO ALL EQUIPMENT WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.
- SIZE AND LOCATION OF CLEANOUTS SHALL BE IN ACCORDANCE WITH STANDARD PLUMBING CODE AND ALL JURISDICTIONAL REGULATIONS.
- PATCH ALL DISTURBED SURFACES TO MATCH ADJACENT SURFACES. WORK SHALL BE DONE ONLY BY WORKERS SKILLED IN THE TRADE INVOLVED AND TO THE SATISFACTION OF THE OWNER REPRESENTATIVE.
- COOPERATION WITH OTHER TRADES IN ROUTING AND/OR BURIAL DEPTHS, AS DETERMINED DURING CONSTRUCTION, AND AS DIRECTED BY THE ARCHITECT/ENGINEER WILL BE NECESSARY. IT IS INTENDED TO BE UNDERSTOOD THAT THE PLANS MAY NOT BE DRAWN COMPLETELY TO SCALE. THE CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL UTILITIES, ETC., PRIOR TO BID, AND INCLUDE ANY DEVIATIONS IN THIS PROJECT.
- VENT PIPES THROUGH ROOF SHALL TERMINATE AT LEAST 10' FROM HVAC ROOFTOP INTAKES.
- USE MECHANICAL SHOCKSTOPS TO CONTROL WATER HAMMER. SHOCKSTOPS SHALL BE SIZED AND LOCATED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

EWC-1 B-H LEVEL ELECTRICAL WATER COOLER (H.C.)

18 GAUGE STAINLESS STEEL WATER COOLER POLISHED TO A #4 SATIN FINISH WITH DUAL RECEPTOR, SELF CLOSING FRONT MOUNTED PUSH BUTTON TYPE BUBBLER, STRAINER AND TAILPIECE. WALL MOUNTED REFRIGERANT CHILLER UNIT CAPABLE OF 8 GPH OF 50°F DRINKING WATER AT AN AMBIENT ROOM TEMPERATURE OF 90°F. ELECTRICAL CHARACTERISTICS - 120V AC, 60HZ, SINGLE PHASE WITH APRON EXTENSION KIT. FOUNTAIN TO HAVE FLEXIBLE BUBBLER.

CHROME PLATED 17 GAUGE 1-1/4" x 1-1/2" BRASS P-TRAP WITH CLEANOUT.

3/8" I.P.S. CHROME PLATED ANGLE SUPPLY, LOOSE KEY STOP, REDUCER, WROUGHT BRASS DEEP BELL FLANGE ESCUTCHEON AND 1/2" CHROME PLATED COOPER EXTENSION TUBE WITH SWEAT CONNECTION.

BASIS OF DESIGN
FOUNTAIN: HALSEY TAYLOR - HTV8BL - Q
TRAP: MCGUIRE - 8902
SUPPLY: MCGUIRE - 158LK

WH-1 WALL HYDRANT

WALL HYDRANT SHALL BE CONCEALED TYPE, AUTOMATIC DRAINING TYPE WITH ANTI-SIPHON VACUUM BREAKER, 3/4" HOSE THREAD NOZZLE, ONE PIECE VALVE PLUNGER TO CONTROL BOTH FLOW AND DRAIN FUNCTIONS, HARDENED STAINLESS STEEL OPERATING STEM, POLISHED BRASS FINISH ON BRASS FINISH ON BRASS CASTINGS, LOOSE TEE KEY TO BE FURNISHED WITH EACH HYDRANT.

CHECK ARCHITECTURAL DRAWINGS FOR WALL THICKNESS.

BASIS OF DESIGN
MIFAB MHY-30

L-1 LAVATORY

VITREOUS CHINA LAVATORY, 21-1/4" x 18-1/8" WITH FRONT OVERFLOW, SELF DRAINING DECK AREA, PROVIDE FIXTURE PUNCHED FOR SINGLE HOLE.

SINGLE LEVER, DECK MOUNTED FAUCET, 0.5 GPM, VANDAL RESISTANT SPRAY HEAD.

CHROME PLATED CAST BRASS GRID STRAINER WITH 1-1/4" O.D. OFFSET TAILPIECE, CHROME PLATED 17 GAUGE 1-1/4" x 1-1/2" BRASS P-TRAP WITH C.O. PLUG AND SLIP NUTS, PROVIDE P-TRAP AND TAILPIECE WITH PREWRAPPED SEAMLESS MOLDED CLOSED CELL VINYL INSULATION WITH FLEXIBLE COLLARS TO ALLOW PIPE CONNECTION. PREWRAPPED DRAIN INSULATION KIT SHALL INCLUDE HOT AND COLD ANGLE STOP AND WATER SUPPLY COVER OF SAME MATERIAL.

TWO 3/8" I.P.S. CHROME PLATED ANGLE SUPPLY, LOOSE KEY STOP, REDUCER, WROUGHT BRASS DEEP BELL FLANGE ESCUTCHEON AND 1/2" CHROME PLATED COPPER EXTENSION TUBE.

MOUNT LAVATORY 34" FROM RIM TO FINISHED FLOOR.

BASIS OF DESIGN
CHINA: KOHLER - 2196-IN
FAUCET: CHICAGO - 2200
STRAINER / TRAP: MCGUIRE - 155WC / PW 2150 WC
SUPPLIES: MCGUIRE - H170LK

L-2 WALL HUNG LAVATORY (H.C.)

VITREOUS CHINA LAVATORY, 21-1/4" x 18-1/8", WITH FRONT OVERFLOW, SELF DRAINING DECK AREA AND CONTOURED BACK AND SIDE SPLASH PANELS, PROVIDE FIXTURE PUNCHED FOR SINGLE HOLE AND CONCEALED ARM CARRIER SUPPORT.

SINGLE LEVER, DECK MOUNTED, HANDWASHING FAUCET, 0.5 GPM, VANDAL RESISTANT SPRAY HEAD.

CHROME PLATED CAST BRASS GRID STRAINER WITH 1-1/4" O.D. OFFSET TAILPIECE, CHROME PLATED 17 GAUGE 1-1/4" x 1-1/2" BRASS P-TRAP WITH C.O. PLUG AND SLIP NUTS, PROVIDE P-TRAP AND TAILPIECE WITH PREWRAPPED SEAMLESS MOLDED CLOSED CELL VINYL INSULATION WITH FLEXIBLE COLLARS TO ALLOW PIPE CONNECTION. PREWRAPPED DRAIN INSULATION KIT SHALL INCLUDE HOT COLD ANGLE STOP AND WATER SUPPLY COVERS OF SAME MATERIAL.

TWO 3/8" I.P.S. CHROME PLATED ANGLE SUPPLY, LOOSE KEY STOP, REDUCER, WROUGHT BRASS DEEP BELL FLANGE ESCUTCHEON AND 1/2" CHROME PLATED COPPER EXTENSION TUBE.

LAVATORY SUPPORT SYSTEM WITH CONCEALED ARMS: COATED STEEL UPRIGHTS WITH WELDED FEET, CAST IRON ADJUSTABLE HEADERS, STEEL SLEEVES, ALIGNMENT TRUSS AND FASTENERS.

BASIS OF DESIGN
CHINA: KOHLER - K-2005
FAUCET: CHICAGO - 2200
STRAINER / TRAP: MCGUIRE - 155 WC / PW 2150 WC
SUPPLIES: MCGUIRE - H170LK
CARRIER: J.R. SMITH - NO. 700

S-1 SINK

SINGLE COMPARTMENT SELF-RIMMING SINK CONSTRUCTED OF TYPE 304 18-8 STAINLESS STEEL, 22" x 19" x 7-1/2" DEEP, INTERIOR AND TOP SURFACES SHALL BE POLISHED TO A HIGH LUSTER FINISH. PROVIDE SINK WITH STAINLESS STEEL CRUMB CUP STRAINERS, PROVIDE FIXTURE PUNCHED FOR 2-HOLE FAUCET INSTALLATION ON 4" CENTERS.

SWING SPOUT AND 2.0 GPM LAMINAR FLOW REGULATOR, SINGLE LEVER.

3/8" I.P.S. CHROME PLATED ANGLE SUPPLY, LOOSE KEY STOP, REDUCER, WROUGHT BRASS DEEP BELL FLANGE ESCUTCHEON AND 1/2" CHROME PLATED COPPER EXTENSION TUBE WITH SWEAT CONNECTION.

CHROME PLATED 17 GAUGE 1-1/2" x 1-1/2" P-TRAP WITH CLEANOUT.

BASIS OF DESIGN
SINK: ELKAY - LR2219
FAUCET: CHICAGO - 2302-CP
SUPPLIES: MCGUIRE - H170LK
TRAP: MCGUIRE - 8902

WC-1 WATER CLOSET

BARRIER FREE, VITREOUS CHINA, FLOOR MOUNTED, SIPHON JET, ELONGATED CLOSET BOWL WITH 1" TOP SPUD, 14-3/4" HIGH BOWL.

EXPOSED CLOSET FLUSH VALVE, CHROME PLATED, METAL OSLATING NON HOLD OPEN HANDLE, 1" I.P.S. SCREW DRIVER ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TAILPIECE, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1" TOP SPUD, WALL AND SPUD FLANGES, SOLID RING PIPE SUPPORT, AND 2" OFFSET TO AVOID GRAB BAR. MOUNT FLUSH VALVE HANDLE MAX 44" AFF. VALVE HANDLE SHALL BE INSTALLED ON "WIDE" SIDE OF SEAT.

CONTOURED SEAT SHALL BE EXTRA HEAVY SOLID PLASTIC WITH OPEN FRONT LESS COVER. SEAT SHALL INCLUDE STAINLESS STEEL SELF SUSTAINING CHECK HINGE FEATURE.

BASIS OF DESIGN
CHINA: KOHLER - K-4406
FLUSH VALVE: SLOAN ROYAL - 111
SEAT: CHURCH - NO. 295-SSC

WC-2 WATER CLOSET (H.C.)

BARRIER FREE, VITREOUS CHINA, FLOOR MOUNTED, SIPHON JET, ELONGATED CLOSET BOWL WITH 1" TOP SPUD, 17-1/2" HIGH BOWL.

EXPOSED CLOSET FLUSH VALVE, CHROME PLATED, METAL OSLATING NON HOLD OPEN HANDLE, 1" I.P.S. SCREW DRIVER ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TAILPIECE, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1" TOP SPUD, WALL AND SPUD FLANGES, SOLID RING PIPE SUPPORT, AND 2" OFFSET TO AVOID GRAB BAR. MOUNT FLUSH VALVE HANDLE MAX 44" AFF. VALVE HANDLE SHALL BE INSTALLED ON "WIDE" SIDE OF SEAT.

CONTOURED SEAT SHALL BE EXTRA HEAVY SOLID PLASTIC WITH OPEN FRONT LESS COVER. SEAT SHALL INCLUDE STAINLESS STEEL SELF SUSTAINING CHECK HINGE FEATURE.

BASIS OF DESIGN
CHINA: KOHLER - K-4405
FLUSH VALVE: SLOAN ROYAL - 111
SEAT: CHURCH - NO. 295-SSC

U-1 URINAL WITH 1.0 GALLON FLUSH VALVE (H.C.)

VITREOUS CHINA, WALL HUNG, SIPHON JET, URINAL WITH 3/4" TOP SPUD, AND HANGER.

EXPOSED FLUSH VALVE, CHROME PLATED, SENSOR OPERATED, HARD WIRE, LESS HANDLE OPENING, 3/4" I.P.S. SCREW DRIVER ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TAILPIECE, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 3/4" TOP SPUD, WALL AND SPUD FLANGES.

MOUNT 17" ABOVE FINISHED FLOOR TO RIM.

BASIS OF DESIGN
CHINA: KOHLER - K-4989-T
FLUSH VALVE: SLOAN ROYAL - 186
FLOOR CARRIER: J.R. SMITH NO. 637

MS-1 MOP SINK

PRECAST TERRAZZO WALL WITH STAINLESS STEEL CAP, 24" x 24" x 12". TERRAZZO SHALL BE MADE OF GREY MARBLE CHIPS CAST IN WHITE PORTLAND CEMENT TO PRODUCE A COMPRESSIVE STRENGTH OF NOT LESS THAN 3,000 P.S.I. TERRAZZO SURFACE SHALL BE GROUTED AND POLISHED WITH ALL AIR HOLES AND / OR PITS TO BE GROUTED AND EXCESS REMOVED. DRAIN BODY SHALL BE STAINLESS STEEL CAST INTEGRAL, AND SHALL PROVIDE FOR A CAULKED LEAD CONNECTION AND NOT LESS THAN 1" DEEP TO A 3" PIPE.

TYPE 304, 20-GAUGE STAINLESS STEEL SPLASH PANELS, 12" HEIGHT SECURED TO WALL ON 2 SIDES.

SERVICE FAUCET SHALL BE CHROME PLATED WITH RENEWABLE SEATS IN MONEL, VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, AND 3/4" HOSE THREAD ON SPOUT.

PROVIDE MOP HANGER.

BASIS OF DESIGN
SINK: WILLIAMS - SBC-1700
FAUCET: WILLIAMS - T-10VB
MOP HANGER: WILLIAMS - T-40

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
----	DOMESTIC COLD WATER SUPPLY LINE	—○—	BOTTOM OF PIPING DROP
-----	DOMESTIC HOT WATER SUPPLY LINE	—X—	BALL VALVE
-----	DOMESTIC WASTE WATER DRAIN LINE	—○—	1-WAY CLEANOUT
—○—	TURN IN PIPING	—○—	2-WAY CLEANOUT

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6-9-10

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JOB NO.: 0906

DRAWN: JTC

CHECKED: THD

DATE: 03/10/10

REVISIONS:

1 5/22/10 ADDENDUM #1