

three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
one quarter inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one eighth inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot  
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MEDICAL GAS/MEDICAL VACUUM EQUIPMENT SCHEDULE

EQUIPMENT NO.	DESCRIPTION	QUANTITIES								REMARKS
		O <sub>2</sub>	VAC	AIR	N <sub>2</sub> O	EVAC	N <sub>2</sub>	CO <sub>2</sub>	SLIDE	
MG-1	WALL OUTLETS	1	1	1	--	--	--	--	1	DIAMOND III
MG-2	VALVE BOX, PATIENT WING	3/4"	1-1/4"	3/4"	--	--	--	--	--	WITH GAUGE
MG-3	VALVE BOX, PATIENT WING	3/4"	1"	3/4"	--	--	--	--	--	WITH GAUGE
MG-4	VALVE BOX, PROCEDURE ROOM	1/2"	3/4"	1/2"	--	--	--	--	--	WITH GAUGE
MG-5	WALL OUTLETS	1	2	1	--	--	--	--	2	DIAMOND III
MG-4	AREA ALARMS	X	X	--	--	--	--	--	--	PRESSURE ABNORMAL
MG-5	MAINS ALARM	X	X	--	--	--	--	--	--	PRESSURE ABNORMAL

BACKFLOW PREVENTER SCHEDULE

EQUIPMENT NO.	MANUFACTURER AND MODEL NO.	SERVICE	TYPE	CONN. SIZE (IN)	FLOW DATA		DRAINAGE		HOUSING		REMARKS
					FLOW (GPM)	PRESS. DROP (PSI)	REQUIRED (Y/N)	SIZE (IN)	REQUIRED (Y/N)	TYPE	
BFP-1	WATTS MODEL 0080T	ICE MAKERS/EQUIPMENT	PRESS. VAC. BRKR.	1/2"	3GPM	5psi	N	NA	N	NA	--
BFP-2	WATTS MODEL 007	KITCHEN EQUIPMENT	CHECK	1/2"	10 GPM	10	N	NA	N	NA	--

THERMOSTATIC MIXING VALVE SCHEDULE

EQUIPMENT NO.	MANUFACTURER AND MODEL NO.	SERVICE	TYPE	CONN. SIZE (IN)	FLOW DATA		DRAINAGE		HOUSING		REMARKS
					FLOW (GPM)	PRESS. DROP (PSI)	REQUIRED (Y/N)	SIZE (IN)	REQUIRED (Y/N)	TYPE	
TMV-1	ARMSTRONG EMC-1	DOMESTIC HW	ELECTRONIC	1-1/4"	62	15 PSI	N	NA	N	N/A	PRE-PIPED SURFACE MOUNT, BMS INTERFACE.
TMV-2	SYMMONS S-225-CK-MS	PUBLIC LAVS/SINKS	THERMO. ASSE 1017	1/2"	2 GPM	15 PSI	N	NA	N	N/A	UNDER COUNTER/LAV SET TO 110 DEG.

PUMP SCHEDULE

EQUIPMENT NO.	MANUFACTURER AND MODEL NO.	SERVICE	PUMP TYPE	FLOW (GPM)	HEAD (FT)	RPM	EFF (%)	VIBRATION ISOLATION		ELECTRICAL		REMARKS			
								TYPE	DEFLECTION (IN)	DISCONNECT	MOTOR STARTER		MOTOR HP	VOLTS/PH/Hz	
REC-1	ARMSTRONG H-51	120 DEG. DOM HOT WATER	IN-LINE CENTRF.	10 GPM	20	1750	--	NA	NA	NA	DIV 16000	DIV 15000	1/4	120/1/60	AQUASTAT-TIMER

PIPING INSTALLATION AND DESIGN INFORMATION

PIPING	SLOPE	DESIGN METHOD	REMARKS
SANITARY WASTE	1/8" PER FOOT	SIZED AND DESIGNED ACCORDING TO IPC 2009	--
SANITARY WASTE	1/8" PER FOOT	SIZED AND DESIGNED ACCORDING TO IPC 2009	--
SANITARY VENT	1/8" PER FOOT	SIZED AND DESIGNED ACCORDING TO IPC 2009	--
STORM DRAINAGE	1/8" PER FOOT	SIZED AND DESIGNED ACCORDING TO IPC 2009	--
DOMESTIC WATER	NA	SIZED AND DESIGNED ACCORDING TO IPC 2009	APPENDIX D, TYPE L COPPER, 5-BFT. PER SECOND VELOCITY, 2PSI PER 100 LOSS.
NATURAL GAS	NA	SIZED AND DESIGNED ACCORDING TO IFGC 2007, NFPA 54	--
MEDICAL GAS	NA	SIZED AND DESIGNED ACCORDING TO NFPA 99	--

PLUMBING LEGEND SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
NP	NON-POTABLE WATER	BV	BALANCING VALVE	ABV	ABOVE
DCW	DOMESTIC COLD WATER	BV	BALL VALVE	AFF	ABOVE FINISHED FLOOR
DHW	DOMESTIC HOT WATER SUPPLY - 115' F	CV	CHECK VALVE	BFP	BACKFLOW PREVENTER
HWS	HOT WATER SUPPLY - 140' F	GV	GAS VALVE	BFF	BELOW FINISHED FLOOR
DHW-R	DOMESTIC HOT WATER RETURN - 115' F	GV	GATE VALVE	CW	COLD WATER
V	MEDICAL VACUUM	PRV	PRESSURE REDUCING VALVE	DN	DOWN
O	OXYGEN	PRV	PRESSURE RELIEF VALVE	GPH	GALLONS PER HOUR
SS	SOIL, WASTE OR SANITARY SEWER	RZP	REDUCED PRESSURE ZONE BFP	GPM	GALLONS PER MINUTE
VE	VENT	CE	CAP ON END OF PIPE	HW	HOT WATER
EM ST	EMERGENCY STORM DRAIN	CO	CLEANOUT - FLOOR	HWR	HOT WATER RETURN
PTD	PIPE TURNING DOWN	CP	CLEANOUT - PLUG TYPE	TP	TYPICAL
PTU	PIPE TURNING UP	WC	CLEANOUT - WALL TYPE	VS	VENT STACK
TD	TEE DOWN	FD	FLOOR DRAIN	VTR	VENT THROUGH ROOF
TU	TEE UP	FS	FLOOR SINK	WS	WASTE STACK
WA	WATER HAMMER ARRESTOR	P	P-TRAP	CT	CONNECT AT THIS POINT TO PIPING INSTALLED UNDER CIVIL SECTION.
S	STRAINER	RD	ROOF DRAIN	WF	PLUMBING FIXTURE NUMBER

PLUMBING FIXTURE DEMOLITION SCHEDULE

EQUIPMENT NO.	DESCRIPTION	HOT WATER	COLD WATER	WASTE	VENT	REMARKS
FD-X	FLOOR DRAIN	--	--	3"	2"	FLOOR DRAIN AND PIPING TO BE REMOVED
FS-X	FLOOR SINK	--	--	2"	2"	FLOOR DRAIN AND PIPING TO BE REMOVED
RD-X	ROOF DRAIN	--	--	--	--	ROOF DRAIN AND PIPING TO BE REMOVED BACK TO RISERS
LVM-X	LAVATORY, MEDICAL	1/2"	1/2"	2"	2"	MEDICAL LAVATORY TO BE REMOVED
LV-1	LAVATORY	1/2"	1/2"	2"	2"	LAVATORY TO BE REMOVED
WC-X	WATER CLOSET, PUBLIC, ADA	--	1-1/4"	4"	2"	TOILET TO BE REMOVED

PLUMBING FIXTURE CONNECTION SCHEDULE

EQUIPMENT NO.	DESCRIPTION	HOT WATER	COLD WATER	WASTE	VENT	REMARKS
IM	ICE MAKER VALVE BOX	--	1/2"	--	--	WALL MOUNTED W/ SHOCK STOP
CS	CLINICAL SINK	3/4"	3/4"	3"	2"	WALL HUNG
LVM	LAVATORY, MEDICAL STAFF	1/2"	1/2"	2"	2"	WALL MOUNTED, WRIST BLADE FAUCET
LV	LAVATORY, PUBLIC, ADA, WITH TEMP LIMIT	1/2"	1/2"	2"	2"	WALL MOUNTED
SKM	SINK, MEDICAL STAFF	1/2"	1/2"	2"	2"	WRIST BLADE FAUCET
SK-1	SINK, WITH TEMP LIMIT	1/2"	1/2"	2"	2"	SINGLE LEVER FAUCET
SS	SCRUB SINK	3/4"	3/4"	2"	2"	KNEE PEDALS ACTIVATED SOAP AND WATER
WC	WATER CLOSET, PUBLIC, ADA	--	1-1/4"	4"	2"	SENSOR FLUSH VALVE, FLOOR MOUNTED BACK OUTLET

PLUMBING IRON AND SPECIALTIES BASIS OF DESIGN

FIXT. NO.	DESCRIPTION	MANUFACTURER & MODEL NUMBER	REMARKS
FD1	FLOOR DRAIN	UNIT: JR SMITH 2005-2050 FLOOR AND SHOWER DRAIN, COATED CAST IRON BODY WITH BOTTOM OUTLET, 1/2" TRAP PRIMER, MEMBRANE CLAMP, ADJUSTABLE COLLAR, WITH ROUND POLISHED NICKLE-BRONZE GRATE.	INSTALL DEEP SEAL TRAP SQUARE GRATE
FD2	MEDIUM DUTY FLOOR DRAIN	UNIT: JR SMITH 2142-2050 FLOOR DRAIN COATED CAST IRON BODY WITH BOTTOM OUTLET, 1/2" TRAP PRIMER, MEMBRANE CLAMP, ADJUSTABLE COLLAR, WITH ROUND POLISHED NICKLE-BRONZE GRATE.	INSTALL DEEP SEAL TRAP SEDIMENT BUCKET SQUARE GRATE
TP	TRAP PRIMER	UNIT: PRECISION PLUMBING PRODUCTS PRO1-ULP500 UNDER LAV TRAP PRIMER WITH ANGLE STOP, 3/8" LAV SUPPLY, 1/2"X5/8" FITTING, ELBOW, ESCUTCHEON.	WHERE INDICATED, SEE DETAIL.
AP	ACCESS PANEL	UNIT: ACORN 8292 ACCESS DOOR, TYPE 304 S.S., 10-1/2" X 8-1/4" OVERALL U.L. LISTED WHERE REQUIRED, WITH CYLINDER LOCK AND KEYS.	FLUSH TO WALL
EME	EMER. EYE WASH	UNIT: HAWS 7612-7612-LH DECK MOUNTED SWNG AWAY, LAWLER 911E/F MIXING TEMPERING VALVE INSTALLED IN CABINET.	COUNTER MOUNTED SWNG AWAY

PLUMBING FIXTURE BASIS OF DESIGN

FIXT. NO.	DESCRIPTION	MANUFACTURER & MODEL NUMBER	REMARKS
IM	ICE MAKER BOX	FIXTURE: GUY GRAY B200, SUPPLY BOX W/DRAIN	SUPPLY/RAIN BOX WALL MOUNTED
CS	CLINICAL SINK	CHINA: KOHLER K-12867, VITREOUS CHINA SINK W/SIPHON JET FLUSHING RIM, 1-1/2" TOP SPUD, FAUCET: KOHLER K-13642, CHROME-PLATED FAUCET, 4" WRIST CONTROL HANDLES, PLAIN END SPOUT WITH PAIL HOOK, ALL BRACE, LOOSE KEY STOPS, BEDPAN WASHER: KOHLER K-13660 BEDPAN WASHER WITH WALL MOUNTED SELF-CLOSING DOUBLE FOOT CONTROL MIXING VALVE, VALVE: ZURN Z-6000L-2-80-TN FLUSH VALVE, ACCESSORIES: ZURN Z-1218 CONCEALED WALL CARRIER, KOHLER K-8935 THREE 11" STAINLESS STEEL RIM GUARDS.	WALL MOUNTED, WITH BEDPAN WASHER
LVM	LAVATORY MEDICAL, ADA COMPLIANT	CHINA: KOHLER K-1987-1, SINGLE-FAUCET HOLE, WITH OVERFLOW, ADA COMPLIANT FAUCET: ZURN Z8920-XL-CP4, SENSOR OPERATED, BATTERY POWERED, 5-3/8" RIGID GOOSENECK FAUCET, CHROME PLATED, 1.5 GPM, ADA DESIGNED SUPPLIES: ZURN Z8800, Z8746-PC, Z8700 TRAP WRAP: ZURN Z8946-3-NI, TRAP/SUPPLY PROTECTORS CARRIER: ZURN Z1231 CONCEALED ARM CARRIER	WALL MOUNTED, BATTERY OPERATED FAUCET, INSTALLED W/TMV-1
LV	LAVATORY PUBLIC, ADA COMPLIANT	CHINA: AMERICAN STANDARD D124.024, THREE-FAUCET HOLES, WITH OVERFLOW, WALL HUNG, ADA COMPLIANT FAUCET: SLOAN OPTIMA EBF-650, POLISHED CHROME-PLATED CAST BRASS FAUCET, BATTERY POWERED, 4" CENTERSET ELECTRONIC HAND WASHING FAUCET FOR TEMPERED WATER, 0.5 GPM, ADA COMPLIANT. SUPPLIES: ZURN Z8800, Z8746-PC, Z8700 TRAP WRAP: ZURN Z8946-3-NI, TRAP/SUPPLY PROTECTORS	WALL MOUNTED, BATTERY OPERATED SENSOR FAUCET, INSTALLED W/TMV-1
SKM	SINK, MEDICAL	BOWL: ELKAY LR2219, 3 FAUCET HOLES ON 4" CENTERS, STAINLESS, 7-5/8" DEEP FAUCET: ZURN Z81284-XL-18F, POLISHED CHROME-PLATED CAST BRASS FAUCET W/INTERNAL SHANKS, QUARTER TURN CERAMIC DISC CARTRIDGES, 11" TALL INTEGRAL CAST SPOUT, 1.5 GPM LAMINAR FLOW AERATOR, 4" VANDAL-RESISTANT BRASS WRIST BLADE COLOR-CODED HANDLES, 1-1/4" GRID STRAINER SUPPLIES: MCGUIRE ST02LK 1/2" X 3/8" SUPPLY WITH LOOSE-KEY STOP MCGUIRE 8902 1-1/4" X 1-1/2" P-TRAP WITH ESCUTCHEON ACCESSORIES: ELKAY LK-99 DRAIN	COUNTER MOUNTED, SINGLE COMPARTMENT SINK, W/TMV-1
SK-1	SINK	BOWL: ELKAY LR2219, 3 FAUCET HOLES ON 4" CENTERS, STAINLESS, 7-5/8" DEEP FAUCET: ZURN Z81284-XL-18F, POLISHED CHROME-PLATED CAST BRASS FAUCET W/INTERNAL SHANKS, QUARTER TURN CERAMIC DISC CARTRIDGES, 11" TALL INTEGRAL CAST SPOUT, 2.2 GPM AERATOR, 4" VANDAL-RESISTANT BRASS WRIST BLADE COLOR-CODED HANDLES, 1-1/4" GRID STRAINER SUPPLIES: MCGUIRE ST02LK 1/2" X 3/8" SUPPLY WITH LOOSE-KEY STOP MCGUIRE 8902 1-1/4" X 1-1/2" P-TRAP WITH ESCUTCHEON ACCESSORIES: ELKAY LK-99 DRAIN	COUNTER MOUNTED, SINGLE COMPARTMENT SINK, W/TMV-1
SS	SCRUB SINK	UNIT: JUST JCS-770-1 SINGLE STATION SCRUB SINK WITH KNEE ACTIVATED SOAP AND WATER CONTROLS, 16 GAUGE 304 STAINLESS STEEL, SOUND DEADENED UNDERSIDE, ACCESSORIES: JUST JT-150 CAST BRASS P-TRAP WITH CLEANOUT, JUST JTM-47 MIXING VALVE, JUST J-35-SSP DRAIN SYSTEM.	COUNTER MOUNTED, SINGLE COMPARTMENT SINK, W/TMV-1
WC-1	WATER CLOSET, ADA	BOWL: CRANE 31080, ELONGATED BOWL, FLOOR MOUNTED BACK OULET FLUSH VALVE: SLOAN OPTIMA G2 8111, 1.6 GPF, BATTERY SENSOR, FLUSH VALVE SEAT, BEKES TESSOSSTI, ELONGATED OPEN FRONT W/STAINLESS STEEL CHECK HINGE CARRIER, STANDARD INSTALLATION: ZURN Z1213-N42, VERTICAL NON-SUPPORT SYSTEM W/2" TOP VENT CARRIER BACK TO BACK INSTALLATION: ZURN Z1204-ND, ADJUSTABLE VERTICAL SIPHON JET - NO-HUB, WITH 2" VENT	FLOOR MOUNTED, BACK OUTLET, ADA HEIGHT BATTERY OPERATED SENSOR VALVE.

CONSTRUCTION DOCUMENTS - 100% FINALS FULLY SPRINKLERED

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Drawing Title: PLUMBING SCHEDULES Approved Project Director: James Zellander

Project Title: A/E AMBULATORY SURGERY IMPROVEMENTS Location: VAMC - Birmingham, Alabama Date: 5/23/2014 Checked: DSH Drawn: CNM

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Office of Construction and Facilities Management Department of Veterans Affairs