

J:\PROJECTS\2016-2017\26-UMBURG-01 PLUMBING SCHEDULES.DWG 4/10/2023 11:14 AM BUCHART, Michael

PIPING AND FITTING ASSEMBLY SCHEDULE																			
DESIGNATION	SYSTEM NAME	SYSTEM TEMP RANGE	PRESSURE RANGE	MATERIAL	CONNECTION TYPE	INSULATION MATERIAL	INSULATION THICKNESS				COVERING	COVERING COLOR	IDENTIFICATION PRIMARY COLOR	IDENTIFICATION SECONDARY COLOR	IDENTIFICATION TEXT				
							Ø<1"	1"=Ø<2"	2"=Ø<4"	4"=Ø<8"									
-----	DOMESTIC COLD WATER	ABOVE 50 DEGREES AND BELOW 100 DEGREES	20-150 PSI	ABG: CPL, DI BEG: CPK, DI	S/LD, FLG, GRV S/LD, FLG, GRV	ABG: ELM, FBG BEG: NONE	1/2"	1"	1"	1"	EXP: PVC, ALM, SST CCL: FSK TRACER TAPE	EXP: BLACK - NOTE 8	GREEN	WHITE	DOMESTIC COLD WATER				
-----	DOMESTIC HOT WATER	ABOVE 70 DEGREES AND BELOW 130 DEGREES	20-150 PSI	ABG: CPL, DI BEG: CPK, DI	S/LD, FLG, GRV S/LD, FLG, GRV	ABG: ELM, FBG BEG: NONE	1 1/2"	2"	2"	2"	EXP: PVC, ALM, SST CCL: FSK TRACER TAPE	EXP: BLACK - NOTE 8	GREEN	WHITE	DOMESTIC HOT WATER				
-----	DOMESTIC HOT WATER RECIRCULATION	ABOVE 70 DEGREES AND BELOW 130 DEGREES	20-150 PSI	ABG: CPL, DI BEG: CPK, DI	S/LD, FLG, GRV S/LD, FLG, GRV	ABG: ELM, FBG BEG: NONE	1 1/2"	2"	2"	2"	EXP: PVC, ALM, SST CCL: FSK TRACER TAPE	EXP: BLACK - NOTE 8	GREEN	WHITE	DOMESTIC HOT WATER RECIRCULATION				
-----TW-----	TEMPERED HOT WATER	ABOVE 50 DEGREES AND BELOW 100 DEGREES	20-150 PSI	ABG: CPL, DI BEG: CPK, DI	S/LD, FLG, GRV S/LD, FLG, GRV	ABG: ELM, FBG BEG: NONE	1 1/2"	2"	2"	2"	EXP: PVC, ALM, SST CCL: FSK TRACER TAPE	EXP: BLACK - NOTE 8	GREEN	WHITE	TEMPERED HOT WATER				
-----	SANITARY SEWER	LESS THAN 130 DEGREES	0-20 PSI	ABG: CPD, CIS, PVC BEG: CPD, CIS, GST	S/LD, PSN, GLU S/LD, NHB, NPT	NONE	--	--	--	--	NONE	EXP: BLACK - NOTE 8	GREEN	WHITE	SANITARY SEWER				
-----	SANITARY VENT	LESS THAN 130 DEGREES	0-20 PSI	ABG: CPD, CIS, PVC BEG: CPD, CIS, RCP	S/LD, PSN, GLU S/LD, NHB, NPT	NONE	--	--	--	--	NONE	EXP: BLACK - NOTE 8	GREEN	WHITE	SANITARY SEWER VENT				
-----SD-----	STORM DRAIN	LESS THAN 100 DEGREES	0-20 PSI	ABG: CPD, CIS, GST BEG: CIS, PVC, RCP	S/LD, NHB, NPT PSN, GLU, GSK	HORIZONTAL: ELM, FBG VERTICAL: NONE	1 1/2"	--	1 1/2"	1 1/2"	EXP: PVC, ALM, SST CCL: FSK NONE	EXP: BLACK - NOTE 8	GREEN	WHITE	STORM SEWER				
NOTES:																			
1. ALL PIPING SYSTEM TYPES MAY NOT BE USED ON THESE CONTRACT DOCUMENTS.																			
2. FOR HEAT TRACED SYSTEMS, INCLUDE IDENTIFICATIONS FOR BOTH HEAT TRACING AND SYSTEM DESIGNATION.																			
3. WHERE PLASTIC PIPING IS USED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE COMPATIBILITY OF THE INSTALLED PIPING SYSTEM WITH THE BUILDING'S HVAC SYSTEM, WHERE PLENUM RATED MATERIALS ARE REQUIRED BY ANY FEDERAL, STATE, OR MUNICIPAL AUTHORITY'S CONSTRUCTION CODES. PLASTIC PIPING SHALL BE COVERED IN ITS ENTIRETY BY AN APPROVED FIRE RETARDANT INSULATING MATERIAL. FIRE RETARDANT INSULATING SYSTEMS SHALL BE CERTIFIED TO MEET ASTM E-84 AND UL 723 STANDARDS FOR FLAME SPERATION. FIRE RETARDANT INSULATING SYSTEMS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.																			
4. LABEL PIPING EVERY 25' AT EACH CONNECTION TO A TEE, AND AT FLOOR PENETRATIONS.																			
5. COVERING COLOR APPLIES TO EXPOSED INTERIOR PIPING ONLY.																			
6. DO NOT PAINT PVC PIPE OR JACKET. FURNISH AND INSTALL COLORED PVC JACKET AND COLORED BANDS ON PVC PIPE.																			
7. ALL INSULATION SHALL HAVE A COVERING. DO NOT PAINT INSULATION DIRECTLY.																			
8. VERIFY FINAL COVERING COLOR WITH PROJECT ARCHITECT ON A ROOM-BY-ROOM BASIS PRIOR TO ORDERING COVERINGS.																			
ABG ABOVE GROUND ALM ALUMINUM AOT AQUATHERM ASJ ALL SERVICE JACKET ASK WHITE KRAFT FIBER PAPER BEG BELOW GROUND BRZ BRAZED BST BLACK STEEL PIPE CCL CONCEALED						CIS CAST IRON SERVICE WEIGHT CLG CELLULAR GLASS CPD COPPER TYPE DWV CPK COPPER TYPE K CPL COPPER TYPE L CPM COPPER TYPE M CSL CALCIUM SILICATE CTL COPPER TUBING TYPE L DI DUCTILE IRON						ELM ELASTOMERIC EPC EPOXY COATED EXP EXPOSED FBG FIBERGLASS FLG FLANGED FSK FOIL BACK KRAFT FIBER PAPER FW FUSION WELDED GLU GLUED GRV GROOVED				GSK RUBBER GASKETS GST GALVANIZED STEEL MHW MINERAL WOOL NHB NO HUB FITTINGS NPT THREADED PSN PUSH ON PPR PRO PRESS PVC POLYVINYL CHLORIDE RCP REINFORCED CONCRETE PIPE		SBS SEAMLESS BLACK STEEL PIPE, SCH. 80 SLD SOLDERED SST STAINLESS STEEL WLD WELDED	

PLUMBING ACCESSORY SCHEDULE								
TAG	DESCRIPTION	CONNECTION SIZE IN				BASIS OF DESIGN		NOTES
		COLD WATER	HOT WATER	WASTE	VENT	MFR	SERIES	
CO1.4	CLEANOUT: EXTERIOR, TRAFFIC RATED, COATED CAST IRON COVER, ADJ TOP	--	--	4"	--	J.R. SMITH	4225	
CO2.#	CLEANOUT: INTERIOR, GENERAL DUTY, STAINLESS STEEL COVER	--	--	REFER TO DWG'S	--	J.R. SMITH	4120	
CO3.#	CLEANOUT: INTERIOR, HEAVY TRAFFIC, STAINLESS STEEL COVER	--	--	REFER TO DWG'S	--	J.R. SMITH	4100	
CO4.#	CLEANOUT: INTERIOR, WALL, STAINLESS STEEL COVER PLATE	--	--	REFER TO DWG'S	--	J.R. SMITH	4435C	
CO5.#	CLEANOUT: INLINE	--	--	REFER TO DWG'S	--	J.R. SMITH	4435	
FD1.3	FLOOR DRAIN: GENERAL PURPOSE, SQUARE, STAINLESS STEEL STRAINER, TRAP GAURD	--	--	3"	--	J.R. SMITH	2010	
FD2.3	FLOOR DRAIN: LOCATED IN ARMORY, SQUARE, STAINLESS STEEL STRAINER WITH SEDIMENT BUCKET, TRAP GAURD	--	--	3"	--	J.R. SMITH	2230	
FD3.#	FLOOR DRAIN: INSTITUTIONAL TYPE, VANDAL RESISTANT, SQUARE, CHROME PLATED STAINER, TRAP GAURD	--	--	REFER TO DWG'S	--	J.R. SMITH	2108	
FD4.#	FLOOR DRAIN: SHOWER AREA, SQUARE, CHROME PLATED STRAINER, TRAP GAURD	--	--	REFER TO DWG'S	--	J.R. SMITH	2050	
FD5.4	FLOOR DRAIN: 12" x 12" BY 8" DEEP, SQUARE, HEAVY DUTY, COATED CAST IRON CONSTRUCTION, COATED CAST IRON SEDIMENT BUCKET, COATED CAST IRON GRATE, TRAP GAURD	--	--	4"	--	ZURN	Z610	
FD6.4	FLOOR DRAIN: 8"x12" BY 8 INCH DEEP, RECTANGULAR, INSTITUTIONAL TYPE FOR PADDED SAFETY CELLS, WASHDOWN FLUSHING RIM, STAINLESS STEEL CONSTRUCTION, WELDED BAR GRATES, TRAP GAURD, PROVIDE REMOTE FLUSH VALVE ACCESS PANEL AND FLUSH VALVE IN CHASE, BOD ACORN ENG MODEL 2898, LOCATED IN CHASE	--	--	4"	2	ACORN ENGINEERING	1699	
TD1.#	TRENCH DRAIN: 12" WIDE STAINLESS STEEL BAR GRATE, CLASS 3 LOAD RATING, BOTTOM DISCHARGE, MODULAR CONSTRUCTION	--	--	4"	--	ZURN	ZFV812	
RD1.4	ROOF DRAIN: MEDIUM SUMP, LACQUERED CAST IRON CONSTRUCTION WITH SUMP AND DECK CLAMPS, REMOVABLE CAST IRON DOME	--	--	--	--	J.R. SMITH	1015	
HB-1	HOSE BIBB: EXPOSED	3/4"	--	--	--	WATTS	SC8	
WH-1	WALL HYDRANT: COLD WATER ONLY, FROST PROOF, RECESSED, LOCKABLE COVER, STAINLESS STEEL	3/4"	--	--	--	ZURN	Z1327-EZ	
WB-1	WALL BOX: COLD WATER CONNECTION, RECESSED, STAINLESS STEEL, PROVIDE 36" STAINLESS STEEL BRAIDED LINE	1/2"	--	--	--	GUY GRAY	88527	
BV-1	BALANCING VALVE: LEAD FREE, REFER TO DRAWINGS FOR GPM FLOW RATE	--	REFER TO DWG'S	--	--	BELL & GOSSET	CB	
WHA-A	WATER HAMMER ARRESTOR: TYPE A 1-11 SFU	REFER TO DWG'S	REFER TO DWG'S	--	--	WATTS	LF15M2	
WHA-B	WATER HAMMER ARRESTOR: TYPE B 12-32 SFU	REFER TO DWG'S	REFER TO DWG'S	--	--	WATTS	LF15M2	
NOTES: 1. COORDINATE MOUNTING HEIGHT REQUIREMENTS WITH ARCHITECTURAL DRAWINGS. 2. COORDINATE PLACEMENT OF FLOOR DRAINS AND CLEANOUTS WITH GENERAL CONTRACTOR. 3. REFER TO PLANS TO VERIFY ALL REQUIRED SIZES AND SERVICES (I.E. CW, HW, GAS, ETC.)								

PLUMBING FIXTURE SCHEDULE									
TAG	DESCRIPTION	CONNECTION SIZE IN				BASIS OF DESIGN			
		COLD WATER	HOT WATER	WASTE	VENT	FAUCET / FLUSH VALVE		FIXTURE	
						MFR	MODEL	MFR	MODEL
LAV-1	LAVATORY: INTEGRAL BOWL PROVIDED BY GENERAL CONTRACTOR, 0.5 GPM AERATOR, HARDWIRED SENSOR CHROME PLATED FAUCET, ADA COMPLIANT	1/2	1/2	2	2	SLOAN	ETF-610	BY G.C.	BY G.C.
LAV-2	LAVATORY: WALL HUNG, WHITE CHINA CONSTRUCTION, 0.5 GPM AERATOR, HARDWIRED SENSOR CHROME PLATED FAUCET, ADA COMPLIANT	1/2	1/2	2	2	SLOAN	ETF-610	KOHLER	K-2005
EW-1	ELECTRIC WATER COOLER: TWIN UNIT W/ BOTTLE FILLING STATION, ADA COMPLIANT	3/4	--	2	2	--	--	ELKAY	EZSTLWSSK
SK-1	SINK: INTEGRAL SINGLE BOWL, FAUCET, AND DRAIN PROVIDED BY GENERAL CONTRACTOR, ADA COMPLIANT	3/4	3/4	2	2	BY G.C.	BY G.C.	BY G.C.	BY G.C.
SK-2	SINK: INTEGRAL DOUBLE BOWL, FAUCET, AND DRAIN PROVIDED BY GENERAL CONTRACTOR, ADA COMPLIANT	3/4	3/4	2	2	BY G.C.	BY G.C.	BY G.C.	BY G.C.
SH-1	SHOWER: FULLY RECESSED SHOWER ASSEMBLY, REMOVABLE FRONT ACCESS PANEL, GRAB BAR, RECESSED SOAP DISH, ADJ 2.0 GPM FLOW CONICAL SHOWER HEAD, ANTI-SCALDING VALVE, TEMPPRESSURE BALANCED MIXING VALVE WITH TRI-LEVER HANDLE, SS HAND SPRAYER WITH DIVERTER VALVE W/ 60" STAINLESS STEEL BRAIDED HOSE AND MOUNTING BRACKET, ADA COMPLIANT	3/4	3/4	--	--	--	--	ACORN ENGINEERING	1741ADA
SH-2	SHOWER: SURFACE MOUNTED SHOWER ASSEMBLY, REMOVABLE FRONT ACCESS PANEL, SIDE MOUNT SOAP DISH, 2.0 GPM FLOW ADJ SHOWER HEAD, ANTI-SCALDING VALVE, TEMPPRESSURE BALANCED, TWO-WAY- DIVERTING CONTROL VALVE WITH HANDWALL SHOWER UNIT, MOUNTING SLIDE BAR ATTACHMENT, AND 60 INCH STAINLESS STEEL BRAIDED HOSE, ADA COMPLIANT	3/4	3/4	--	--	--	--	ZURN	Z7500-DV-4HW
SH-3	SHOWER: FULLY RECESSED SHOWER ASSEMBLY, FRONT REMOVABLE ACCESS PANEL, PENAL SHOWERHEAD WITH LOCKABLE UNIVERSAL BALL JOINT, 2.0 GPM FLOW CONTROL, ANTI-SCALDING ASSE 1016 TEMPERATURE/PRESSURE BALANCED MIXING VALVE, ELECTRONIC SINGLE TEMPERATURE PIEZO BUTTON, ADA COMPLIANT.	3/4	3/4	--	--	--	--	ACORN ENGINEERING	1741
WC-1	WATER CLOSET: WALL MOUNTED, ELONGATED BOWL, DUAL FLUSH 1.6/1.1 GPF HARDWIRED ELECTRONIC CHROME PLATED FLUSH VALVE WITH PUSH BUTTON OVERIDE, WHITE OPEN FRONT SEAT, ADA COMPLIANT.	1 1/2	--	4	2	SLOAN	ECOS 111-1.6/1.1-4W	SLOAN	ST-2459
WC-2	WATER CLOSET: FLOOR MOUNTED, ELONGATED BOWL, 1.28 GPF EXPOSED SELF-POWERED HYDROELECTRIC CHROME PLATED FLUSH VALVE WITH PUSH BUTTON OVERIDE, WHITE OPEN FRONT SEAT, ADA COMPLIANT.	1 1/2	--	4	2	TOTO	TET1LA32CP	TOTO	CT708U
WC-3	SECURITY WATER CLOSET WITH INTEGRAL SINK COMBINATION: FLOOR MOUNTED, SEE DRAWINGS FOR L/R OFFSET ORIENTATION, THRU WALL WASTE DISCHARGE, STAINLESS STEEL, 1.6 GPF PUSH BUTTON FLUSH VALVE FOR WATER CLOSET, HARDWIRED ELECTRONIC SINGLE TEMPERATURE PUSH BUTTON W/ BYPASS VALVE FOR BUBBLER, SECURITY FIXTURE, ADA COMPLIANT, PROVIDE MFR METAL WALL SLEEVE FOR BLOCK WALL CONSTRUCTION, COORDINATE INSTALLATION WITH G.C.	1 1/2	--	4	2	--	--	WILLOUGHBY INDUSTRIES	4896
WC-4	SECURITY WATER CLOSET WITH INTEGRAL SINK COMBINATION: FLOOR MOUNTED, SEE DRAWINGS FOR L/R ORIENTATION FOR 45 DEG WALL INSTALLATION, THRU WALL WASTE DISCHARGE, STAINLESS STEEL, 1.6 GPF PUSH BUTTON FLUSH VALVE FOR WATER CLOSET, HARDWIRED ELECTRONIC SINGLE TEMPERATURE PUSH BUTTON W/ BYPASS VALVE FOR BUBBLER, SECURITY FIXTURE, PENAL BUBBLER, GRAB BAR, ADA COMPLIANT, PROVIDE MFR METAL WALL SLEEVE FOR BLOCK WALL CONSTRUCTION, COORDINATE INSTALLATION WITH G.C.	1 1/2	3/4	4	2	--	--	WILLOUGHBY INDUSTRIES	154SLR
UR-1	URINAL: WALL MOUNTED, WASHDOWN TYPE, 0.125 GPF HARDWIRED ELECTRONIC CHROME PLATED FLUSH VALVE WITH PUSH BUTTON OVERIDE, ADA COMPLIANT.	3/4	--	3	2	SLOAN	ECOS 186-0.125 ES-S	SLOAN	SU-1009
EEW-1	EMERGENCY EYE/FACE WASH: FULLY RECESSED EYE/FACE WASH, WALL MOUNTED, STAINLESS STEEL CABINET CONSTRUCTION, FRONT ACCESS MAINTENANCE PANEL, MANUFACTURER PROVIDED THERMOSTATIC MIXING VALVE ASSE 1071 COMPLIANT WITH COLD WATER BYPASS, UNIVERSAL SIGN, ADA COMPLIANT.	1	1	2	2	--	--	BRADLEY	S19294JBT
NOTES: 1. COORDINATE MOUNTING HEIGHT REQUIREMENTS FOR WALL HUNG PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS. 2. REFER TO PLANS TO VERIFY ALL REQUIRED SIZES AND SERVICES (I.E. CW, HW, GAS, ETC.) 3. COORDINATE POWER AND VOLTAGE REQUIREMENTS WITH ELECTRICAL CONTRACTOR FOR SENSOR OPERATED FIXTURES. 4. PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS FOR PLUMBING FIXTURES SUPPLIED BY GENERAL CONTRACTOR. 5. SHOWER ASSEMBLY COLOR SECTION BY ARCHITECT FROM MANUFACTURER'S FULL LINE.									

PLUMBING MIXING VALVE & BLENDING STATION SCHEDULE						
TAG	DESCRIPTION	ELECTRICAL			BASIS OF DESIGN	
		MOTOR HP	VOLTAGE	PHASE	MFR	MODEL
TMV-1	THERMOSTATIC MIXING VALVE: POINT OF USE THERMOSTATIC MIXING VALVE FOR SINKS/LAVATORIES, ASSE 1070 COMPLIANT MIXING VALVE, LEAD FREE	--	--	--	WATTS	LFLM-495
TMV-2	THERMOSTATIC MIXING VALVE: FOR HOLDING CELLS, ELECTRONIC, SMART TECHNOLOGY WITH TEMPERATURE MONITORING, ASSE 1070 MIXING VALVE, LEAD FREE	--	120	1	ARMSTRONG	THE BRAIN - DRV
TMV-101	THERMOSTATIC MIXING VALVE: FOR PLUMBING EMERGENCY FIXTURES, ASSE 1071 COMPLIANT, COLD WATER BY-PASS, LEAD-FREE, BRONZE CONSTRUCTION.	--	--	--	BRADLEY	819-2000
NOTES: 1. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS. 2. COORDINATE POWER AND VOLTAGE REQUIREMENTS WITH ELECTRICAL CONTRACTOR. 3. REFER TO PLANS TO VERIFY ALL REQUIRED SIZES AND SERVICES (I.E. CW, HW, GAS, ETC.)						

REVISIONS	MARK	ISSUED DATE	DESCRIPTION

PROJECT NO:	77332-07
ISSUED DATE:	03/27/23
DRAWN BY:	MFB
CHECKED BY:	MPB

© BUCHART HORN, INC.

SHEET TITLE: