



2012 ALTERATIONS TO  
**MONROE ELEMENTARY SCHOOL**  
 400 WEST COTTONWOOD  
 INDEPENDENT SCHOOL DISTRICT NO. 57  
 500 SOUTH INDEPENDENCE ENID, OKLAHOMA



DATE: 02/04/2012  
REV.:

M5.2  
OF 11

### PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	TYPE	MFR	MODEL	TRIM	WATER		WASTE	VENT	NOTES
						COLD	HOT			
						RUNOUT	RUNOUT			
WC-1	WATER CLOSET	FLUSH VALVE SIPHON JET FLOOR MOUNTED	AMERICAN STANDARD	MADERA ELONGATED 2234.015	ZURN ZER6000-CP-WS1 BATTERY POWERED SENSOR FLUSH VALVE, WHITE, CHURCH 1955 OPEN FRONT SEAT	1	--	4	2	B,G,J
WC-2	WATER CLOSET CHILD'S	FLUSH VALVE SIPHON JET FLOOR MOUNTED	AMERICAN STANDARD	BABY DEVORO ROUND 10" H 2282.010	ZURN ZER6000-CP-WS1 BATTERY POWERED SENSOR FLUSH VALVE, WHITE, CHILD SEAT.	1	--	4	2	B,G,J
UR-1	URINAL ADA	FLUSH VALVE SIPHON JET WALL MOUNTED	AMERICAN STANDARD	WASHBROOK 6501.010	ZURN ZERS6003-CP-WS1 BATTERY POWERED SENSOR FLUSH VALVE	3/4	--	2	1 1/2	F,G,H,I,J
L-1	LAVATORY	WALL HUNG VITREOUS CHINA	AMERICAN STANDARD	DECLYN 19"X17" 0321.075	SLOAN EBF-85 BATTERY POWERED SENSOR FAUCET, TRIM PLATE, BOT VALVE, AND GRID STRAINER	1/2	1/2	2	1 1/2	A,D,E,F,G,I,J,K
L-2	LAVATORY	COUNTER MOUNTED VITREOUS CHINA	AMERICAN STANDARD	AQUALYN 20"X17" 0476.028	SLOAN EBF-85 BATTERY POWERED SENSOR FAUCET, TRIM PLATE, BOT VALVE, AND GRID STRAINER	1/2	1/2	2	1 1/2	A,D,E,G,I,J,K
HS-1	HAND WASH SINK	WALL HUNG STAINLESS STEEL	JOHN BOOS	PBHS-W-1410-P 14"X10"X5"	PB-HS-4 FAUCET, MOUNTING BRACKET AND GRID STRAINER	3/4	3/4	2	1 1/2	A,D,E,F,G,I,K
WF-1	LAVATORY ADA	WALL MOUNTED 4 STATION	BRADLEY	TERREON QUADRA-FOUNT MF2944-JUV	JUVENILE HEIGHT, TOUCH TIME METERING CONTROL, LIQUID SOAP DISPENSER, THERMOSTATIC MIXING VALVE, P-TRAP, VERIFY COLOR WITH ARCHITECT	3/4	3/4	2	1 1/2	G,H,I,J,K
WF-2	LAVATORY ADA	CORNER WALL MOUNTED 2 STATION	BRADLEY	TERREON CORNER-FOUNT MF2922-JUV	JUVENILE HEIGHT, TOUCH TIME METERING CONTROL, LIQUID SOAP DISPENSER, THERMOSTATIC MIXING VALVE, P-TRAP, VERIFY COLOR WITH ARCHITECT	3/4	3/4	2	1 1/2	G,H,I,J,K
S-1	CLASSROOM SINK	COUNTER, SINGLE COMPARTMENT, STAINLESS STEEL	ELKAY	LUSTERTONE DRKR-2220-L	LK-2439 FAUCET W/RESTRICTED SWING SPOUT, ADA LEVER HANDLES, LK-1141-A BUBBLER, GRID STRAINER.	1/2	1/2	2	1 1/2	A,D,G,K,L,M
S-2	SINK	COUNTER, SINGLE COMPARTMENT, STAINLESS STEEL	ELKAY	LUSTERTONE LR-1918	LK-4100 SINGLE LEVER SWING SPOUT FAUCET AND GRID STRAINER	1/2	1/2	2	1 1/2	A,D,G,K,M
EW-1	ELECTRIC WATER COOLER ADA	WALL HUNG BI-LEVEL	ELKAY	EZTLBC	FRONT PUSH BARS, P-TRAP, CARRIER SUPPLY STOP	1/2	--	1 1/4	1 1/2	A,C,F,G
SI-1	SOLIDS INTERCEPTOR	FLOOR MOUNTED ARE STEEL	ZURN	Z-1181	REMOVABLE SEDIMENT BUCKET AND SCREENS	--	--	2	1 1/2	G

NOTES:  
 A. CHROME PLATED ANGLE SUPPLY WITH LOOSE TEE HANDLE STOPS & CHROME PLATED ESCUTCHEON.  
 B. BOLT CAPS WITH RETAINER CLIPS.  
 C. 1 1/4" CHROME PLATED TUBULAR P-TRAP WITH CLEANOUT PLUG & ESCUTCHEON.  
 D. 1 1/2" CHROME PLATED TUBULAR P-TRAP WITH CLEANOUT PLUG & ESCUTCHEON.  
 E. INSTALL P-TRAP USING OFF-SET TAILPIECE. INSULATE HOT WATER SUPPLY, TAILPIECE AND TRAP WITH TRUBRO LAV GUARD SYSTEM.  
 F. PROVIDE CARRIER. PROVIDE WALL HANGER ON EXISTING MASONRY WALLS.  
 G. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.  
 H. INSTALL AT ADA BARRIER FREE HEIGHT.  
 I. REFER TO ARCHITECTURAL PLANS FOR EXACT ELEVATION OF FIXTURE.  
 J. SENSOR FLUSH VALVES AND FAUCETS- PROVIDE TRANSFORMERS FOR CONTROL CIRCUITS ON HARDWIRED VALVES PER MANUFACTURER'S INSTRUCTIONS. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR. CAREFULLY COORDINATE THE INSTALLATION OF THE SENSOR ROUGH-IN AND COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR TO ENSURE THAT SENSOR OPERATES PROPERLY IN FINAL INSTALLATION. ROUGH-IN THE VALVE AND SENSOR LOCATIONS FROM FIXTURE HEIGHT TO ENSURE ADEQUATE SENSING FOR CHILD HEIGHT FIXTURE USE ON CORRESPONDING FIXTURES. PROVIDE CHROME PLATED TUBING COVERS AND ESCUTCHEONS AS REQUIRED TO MATCH SENSOR COMPONENTS AND FLUSH VALVE FOR COMPLETE INSTALLATION. ALL CONTROL WIRING AND ELECTRICAL COMPONENTS ARE TO BE COMPLETELY CONCEALED.  
 K. PROVIDE POWERS LM495 ASSE 1070 THERMOSTATIC MIXING VALVE OR EQUIVALENT ON HOT WATER SUPPLY TO FIXTURE.  
 L. COORDINATE WITH MILLWORK AND VERIFY BUBBLER POSITION FOR EACH CLASSROOM APPLICATION.  
 M. RE-CONNECT SINK TO EXISTING ROUGH-IN. VERIFY EXACT SIZE, LOCATIONS AND CONNECTION REQUIREMENTS OF EXISTING.

### WATER HEATER SCHEDULE

MARK	MANUFACTURER MODEL NO.	TANK SIZE GAL.	ELECTRIC HEATER		GAS HEATER		DELIVERY TEMP.	RECOVERY GPH	NOTES
			VOLTS/PH TOTAL KW	No. ELEMENTS KW/ELEMENT	V/PH/HZ	INPUT MBH			
WH-1	A.O. SMITH BTH-120 CYCLONE XI	60 GAL.	--	--	115/1/60	120	140° F	154	A,B,C

NOTES:  
 A. RECOVERY RATE INDICATED IS FOR 90°F RISE. WATER HEATER RECOVERY IS AT SEA LEVEL.  
 B. PROVIDE PVC COMBUSTION AIR AND VENT FLUES TO ROOF OR WALL PER MANUFACTURER'S INSTRUCTIONS.  
 C. ROUTE T & P RELIEF AND FLUE CONDENSATE TO FLOOR DRAIN OR OTHER APPROVED LOCATION.

### ROOFTOP UNIT SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	CFM	HEATING		COOLING (M.B.H.)		E.S.P. "H <sub>2</sub> O"	CFM O.A.	H.P. FAN	UNIT				NOTES
			TYPE	IN/OUT (M.B.H.) OR KW	THC	SHC				VOLTS	PH.	MCA	MOCP	
RTU-1 THRU RTU-7	TRANE YSC048E3RM	1600	NG	80/64	49.2	36.9	0.6	200	--	208	3	25.2	35	A,C,D,E,F,G,H,J,K

NOTES:  
 A. UNIT CAPACITIES ARE AT ARI CONDITIONS.  
 B. PROVIDE SMOKE DETECTORS. (PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL.)  
 C. PROVIDE PROGRAMMABLE THERMOSTAT OR THERMOSTAT/HUMIDISTAT PER HVAC NOTES AND PLANS. UNIT TO BE CONNECTED TO EXISTING HONEYWELL CONTROL SYSTEM. VERIFY EXACT CONNECTION REQUIREMENTS WITH EXISTING SYSTEM.  
 D. PROVIDE INTEGRATED ECONOMIZER WITH ENTHALPY CONTROLS.  
 E. PROVIDE LOW AMBIENT CONTROLS, FILTER RACK AND FILTERS.  
 F. PROVIDE FACTORY MANUFACTURED ROOF CURB. MATCH ROOF SLOPE.  
 G. PROVIDE INTEGRAL BAROMETRIC RELIEF DAMPER.  
 H. PROVIDE ACCESSORY CONDENSER COIL HAIL GUARD.  
 I. PROVIDE MOISTUREMIZER COIL OPTION AND HUMIDISTAT.  
 J. PROVIDE FACTORY INSTALLED HOT GAS REHEAT COIL AND HUMIDISTAT.  
 K. PROVIDE RETURN DUCT MOUNTED IAQ CO2 SENSOR ACCESSORY TO PROVIDE PROPORTIONAL OUTSIDE AIR DAMPER CONTROL.

### GRILLE AND DIFFUSER SCHEDULE

MARK	MANUFACTURER & MODEL NO.	SIZE	CFM	VEL. FPM	SP H O	THROW	NC MAX.	DAMPER	NOTES
CD-1	TITUS TMS 24X24	REFER PLANS	REFER PLANS	--	--	--	--	IN DUCT	A,B,D
CD-2	TITUS TMS 12X12	REFER PLANS	REFER PLANS	--	--	--	--	IN DUCT	A,B,D
RAG-1	TITUS 50-F	REFER PLANS	REFER PLANS	--	--	--	--	NONE	B,D
EAG-1	TITUS 350 RL	REFER PLANS	REFER PLANS	--	--	--	--	OB	C,D

NOTES:  
 A. NECK SIZE SAME AS DUCT SIZE.  
 B. LAY-IN FRAME. VERIFY WITH CEILING TYPE.  
 C. SURFACE MOUNT FRAME. VERIFY WITH CEILING TYPE WHERE APPLICABLE. RAPID MOUNT FRAME IS ACCEPTABLE WHERE COMPATIBLE WITH CEILING FRAMING.  
 D. BASE COLOR TO BE WHITE. VERIFY FINAL COLOR WITH ARCHITECT.

### FAN SCHEDULE

MARK	LOCATION	MANUFACTURER & MODEL NO.	CFM	S.P.	RPM	BHP	DRIVE	MOTOR				NOTES
								RPM	HP	VOLT	PH.	
EF-1	ROOF	COOK ACE-D 100C15DH	600	.45	1550	--	DIRECT	1550	0.125	115	1	A,C
EF-2,3,9	TOILET WALL	BROAN 509 WALL FAN	180	.25	1925	--	DIRECT	1925	180W	115	1	A,B
EF-4,5	TOILET CEILING	COOK GEMINI GC-240	100	.25	1200	--	DIRECT	1200	65W	115	1	A,B
EF-6,7,8	ROOF	COOK ACE-D 90C15DL	330	.45	1715	--	DIRECT	1715	0.125	115	1	A,C,D
KEF-1	FOOD SERVICE HOOD EXHAUST FAN. REFER TO FOOD SERVICE FAN SCHEDULES FOR INFORMATION.											

NOTES:  
 A. INTERLOCK FAN WITH LIGHT SWITCH.  
 B. PROVIDE BACKDRAFT DAMPER AND CONNECT TO EXISTING ROOF OR WALL CAP AS INDICATED ON PLANS.  
 C. PROVIDE BACKDRAFT DAMPER. INSTALL ON EXISTING ROOF CURB.  
 D. PROVIDE FSC VARIABLE SPEED CONTROL ACCESSORY NEAR FAN FOR BALANCING.