

PLUMBING FIXTURE SCHEDULE						
FIXTURE MARK	MANUFACTURER SERIES NUMBER	FIXTURE AND TRIM DESCRIPTION			ACCESSORIES, FEATURES, AND NOTES	
WATER CLOSETS AND URINALS						
WC-1	KOHLER "WELLWORTH K-3481-U" BARRIER FREE	FLOOR MOUNT ELONGATED - FLUSH TANK	BOTTOM	FLUSH VALVE - 1.6 GPM/FLUSH	SEAT - LUSTRA #K-4650	CARRIER - N/A
WHITE COLOR. SEAT SHALL BE ANTIMICROBIAL PLASTIC OPEN-FRONT SEAT.						
LAVATORYS						
LAV-1	KOHLER "GREENWICH K-2032" BARRIER FREE	WHITE VITREOUS CHINA WALL HUNG W/ CONCEALED ARM SUPPORTS	ADA APPROVED CHROME PLATED	ANGLE SCREW-DRIVER STOPS	1 1/4" CHROME PLATED ADA COMPLIANT	1 1/2" CHROME PLATED ADA COMPLIANT
TRIM: ZURN #Z86100-XL-CP4-CS-G-CH-IN-RKR-ZZM SINGLE ROCKER HANDLE (ADA) METERING FAUCET WITH GRID STRAINER, OFFSET ADA DRAIN, 1.0 GPM VR LAMINAR FLOW OUTLET						
MOP SINKS AND SERVICE SINKS						
SS-1	E.L. MUSTEE UTILITY TUB "18F"	WHITE ONE-PIECE MOLDED 20"x24"x14" WITH FLOOR MOUNT HARDWARE	CHROME PLATED BRASS DECK MOUNT	1-1/2" P-TRAP W/ CO	FLOOR MOUNTED WITH LEGS	
FAUCET: E.L. MUSTEE MODEL "93.600" CHROME PLATED BRASS SUPPLY FAUCET WITH 4 INCH CENTER SET, AND SWING SPOUT FLOOR MOUNTING HARDWARE (18.300F) TOP COVER (92.200)						
DRINKING FOUNTAINS						
DF-1	ELKAY MODEL #LK4405-FRK BARRIER FREE	STD COLOR SELECTED BY ARCHITECT	(1) - 3/8" (1) - 1 1/4"	WALL MOUNT	--	
STEEL CONSTRUCTION WITH TEXTURED POWDER COAT FINISH, VANDEL RESISTANT, RECESSED PUSH BUTTON, INLET STRAINER, FREEZE-RESISTANT VALVE SYSTEM						

NOTES:
 1. ALL PLUMBING FIXTURES, EQUIPMENT, TRIM AND FITTINGS SHALL COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS AND CODES, INCLUDING, BUT NOT LIMITED TO, WATER AND ENERGY CONSERVATION CODES, ADA REQUIREMENTS.
 2. REFER TO SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS OF FIXTURES AND TRIM.
 3. PROVIDE/INSTALL POINT OF USE "ASSE 1070 LISTED" THERMOSTATIC MIXING VALVES ON SUPPLIES TO ALL ADA ACCESSIBLE LAVATORYS AND SINKS.
 4. INSTALL "LAV-SHIELDS" ON WALL MOUNTED LAVS/SINKS TO COMPLETELY CONCEAL EXPOSED TRAPS, SUPPLIES, AND MIXING VALVES.
 5. COORDINATE ALL FIXTURE FINISHES/COLORS WITH ARCHITECT PRIOR TO ORDERING.
 6. FLUSH VALVE HANDLES ARE TO BE LOCATED ON OPEN SIDE OF BARRIER FREE WATER CLOSETS - REFER TO ARCHITECTURAL INTERIOR ELEVATIONS.

RECESSED ELECTRIC WALL HEATER SCHEDULE							
UNIT I.D.	CAPACITY MBH	AIRFLOW CFM	ELECTRICAL			MODEL NO.	REMARKS
			VOLTS	PHASE	KW		
EWH-1	10,240	245	240	1	3.0	3450 SERIES	SEE NOTES

NOTES:
 1. MODEL NUMBERS ARE MARKEL UNLESS OTHERWISE NOTED. Q-MARK MAY BE BID AS EQUAL.
 2. INSTALL FULLY RECESSED OR SEMI-RECESSED IN NEW CMU WALL USING MFR PROVIDED WALL SLEEVE.
 3. WALL HEATER SHALL HAVE COATED 16 GAUGE STEEL TAMPERPROOF GRILL.
 4. PROVIDE CIRCUIT BREAKER DISCONNECT.
 5. HEATER SHALL HAVE BUILT-IN CONTACTOR WITH 24V COIL AND HEATER VOLTAGE/24V TRANSFORMER. CONNECT TO WALL MOUNTED 24V T-STAT. INSTALL T-STAT IN METAL/LOCKABLE T-STAT GUARD.

ELECTRIC UNIT HEATER SCHEDULE										
UNIT I.D.	CAPACITY MBH	CAPACITY KW	FAN		ELECTRICAL			WEIGHT LBS	MODEL NO.	REMARKS
			TYPE	AIRFLOW CFM	VOLTS	PHASE	MAX AMPS			
EUH-1	11.2	3.3	PROPELLER	400	240	1	14	25	5100 SERIES	SEE NOTES 1, 2, 3, 4, 5

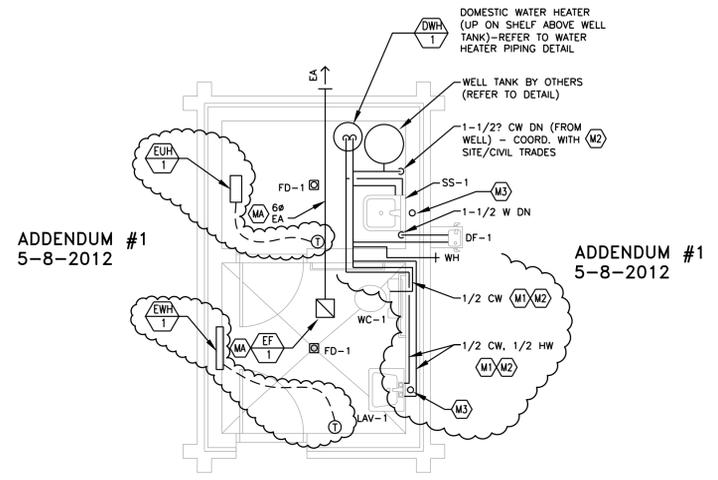
NOTES:
 1. MODEL NUMBERS ARE MARKEL UNLESS OTHERWISE NOTED. Q-MARK MAY BE BID AS EQUAL.
 2. PROVIDE WALL OR CEILING MOUNT BRACKET AND DUST SHIELD.
 3. PROVIDE FAN GAURD.
 4. PROVIDE BUILT-IN POWER DISCONNECT SWITCH.
 5. PROVIDE LINE VOLTAGE TO 24V TRANSFORMER AND LOW VOLTAGE REMOTE/WALL MOUNTED T-STAT. MOUNT T-STAT IN CLEAR/PLASTIC/LOCKABLE T-STAT GAURD.

FAN SCHEDULE														
UNIT I.D.	SYSTEM SERVED	TYPE	AIRFLOW CFM	E.S.P. IN. W.G.	RPM	MOTOR			ELECTRICAL	CURB HEIGHT (IN)	WEIGHT LBS	MODEL NO.	REMARKS	
						BHP	HP	DRIVE						
EF-1	TOILET	CEILING MOUNTED EXHAUST	81	.125	1,380	0.5	50W	1,380	DIRECT	120	1	8	HD80	SEE NOTES

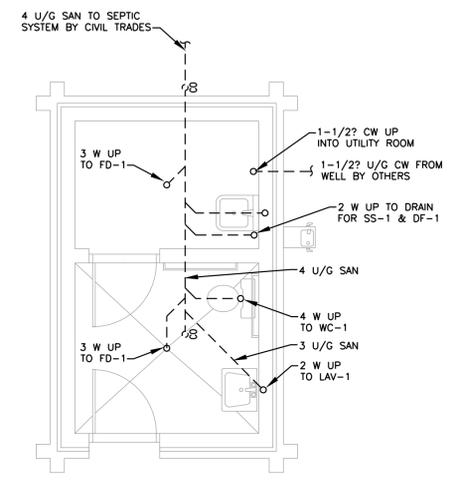
NOTES:
 1. MODEL NUMBERS ARE BROAN UNLESS OTHERWISE NOTED.

COMPACT ELECTRIC DOMESTIC WATER HEATER SCHEDULE						
UNIT I.D.	STORAGE CAPACITY GALLONS	VOLTAGE/PHASE	ELEMENT WATTAGE	RECOVERY G.P.H. @ 90F RISE	WEIGHT LBS (DRY)	MODEL NO.
DWH-1	10	120/1	1,650	8	45	JRC010DS

NOTE:
 1. MODEL NUMBER IS LOCHINVAR. AO SMITH AND BRADFORD WHITE MAY BE BID AS EQUAL.
 2. PROVIDE OPTIONAL MOUNTING SHELF - LOCHINVAR #JKT3004.



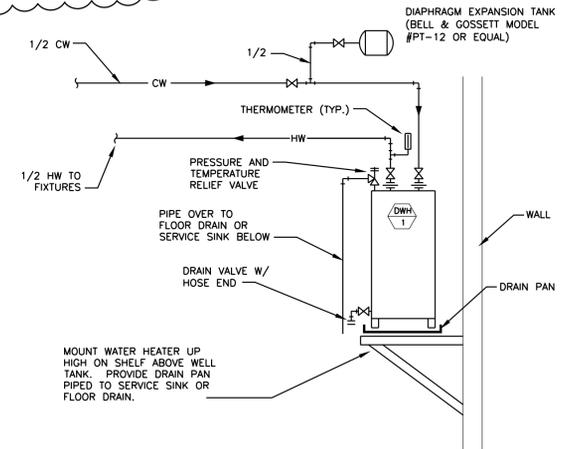
ADDENDUM #1
 5-8-2012
 ABOVE GRADE MECHANICAL PLAN
 SCALE: 1/4" = 1'-0"



BELOW GRADE MECHANICAL PLAN
 SCALE: 1/4" = 1'-0"

KEYED MECHANICAL CONSTRUCTION NOTES:
 (M1) ROUTE CW & HW SUPPLY PIPES (CONTINUOUS FLEXIBLE COPPER TUBING INSULATED WITH 1" THICK CELLULAR FOAM ARMAFLEX) INSIDE CMU BLOCK - COORD. WITH MASON.
 (M2) SLOPE PIPES TO DRAIN BACK TO UTILITY ROOM AND PROVIDE MEANS TO DRAIN AND BLOW-OUT PIPES FOR WINTERIZATION AT BOTH ENDS.
 (M3) ROUTE 1-1/2" V UP FROM LAV AND 1-1/2" V UP FROM SS-1 TO 3 VTR ABOVE UTILITY ROOM.

KEYED MECHANICAL CONSTRUCTION NOTES:
 (MA) ROUTE 6# EA (INSULATED WITH 2" FIBERGLASS) FROM EF-1 UP THRU ATTIC TO WALL CAP DISCHARGE.



SHelf MOUNTED COMPACT ELECTRIC DOMESTIC HOT WATER HEATER PIPING DIAGRAM
 NO SCALE

GENERAL MECHANICAL NOTES:
 1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL SCOPE OF WORK. CONTRACTOR SHALL PROVIDE ALL MECHANICAL SYSTEMS AND ASSOCIATED EQUIPMENT COMPLETE AND INCLUDE ALL NECESSARY OFFSETS, FITTINGS, AND OTHER COMPONENTS REQUIRED DUE TO INTERFERENCES, SPACE CONSTRAINTS, CODES, ETC.
 2. MECHANICAL SYSTEMS SHALL BE INSTALLED PER MICHIGAN MECHANICAL CODE, MICHIGAN PLUMBING CODE, INTERNATIONAL FUEL GAS CODE, APPLICABLE NFPA BUILDING CODES (I.E. 101, 90A, ETC.), AND APPLICABLE BUILDING CODES (I.E. 2006 MICHIGAN BUILDING CODE, ETC.).
 3. CONTRACTOR TO VERIFY REQUIREMENTS OF ALL EQUIPMENT WITH SHOP DRAWING SUBMITTALS PRIOR TO INSTALLATION. NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN SHOP DRAWINGS AND PLANS.
 4. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF MECHANICAL WORK WITH ALL OTHER TRADES. VERIFY ALL MECHANICAL AND ELECTRICAL CLEARANCES PRIOR TO THE FABRICATION OF ANY WORK. DUCTWORK, PIPING, ETC. SHALL NOT BE LOCATED DIRECTLY OVER ELECTRICAL PANELS/EQUIPMENT, OR INTERFERE WITH MECHANICAL/ELECTRICAL EQUIPMENT CLEARANCES.
 5. COORDINATE ALL FLOOR, WALL, AND ROOF PENETRATIONS, EQUIPMENT PADS, ETC. WITH ARCHITECTURAL/STRUCTURAL TRADES PRIOR TO ROUGH-IN.
 6. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION/HEIGHTS OF FIXTURES (STANDARD AND BARRIER FREE), SINKS, TOILETS, LAVATORYS, WATER COOLERS, ETC. COORDINATE WITH ARCHITECTURAL PLANS FOR DETAILS ON CASEWORK, FURNITURE, ETC.
 7. CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, HANGERS, ETC., FOR THE PROPER INSTALLATION OF ALL MECHANICAL AND PLUMBING SYSTEMS. PIPING SHALL NOT BE SUPPORTED FROM/BY EQUIPMENT OR EQUIPMENT CONNECTIONS.
 8. MINIMUM UNDERGROUND SANITARY PIPE SIZE SHALL BE 3".
 9. ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING SHALL HAVE CODE REQUIRED CLEARANCES PROVIDED.
 10. ALL FIXTURES / EQUIPMENT SHALL BE PROVIDED WITH ISOLATION VALVES. ALL VALVES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.
 11. ALL FLOOR DRAINS SUBJECT TO LOSS OF SEAL (IE. RESTROOMS, STORAGE ROOMS, ETC.) SHALL BE PROTECTED BY A TRAP SEAL PRIMER.