

PLUMBING FIXTURE SCHEDULE						
FIXTURE MARK	MANUFACTURER SERIES NUMBER	FIXTURE AND TRIM DESCRIPTION			ACCESSORIES, FEATURES, AND NOTES	
WATER CLOSETS AND URINALS						
		BOWL TYPE	OUTLET	FLUSH VALVE	SEAT	CARRIER
WC-1	KOHLER "WELLWORTH K-3481-U" BARRIER FREE	FLOOR MOUNT ELONGATED - FLUSH TANK	BOTTOM	-- 1.6 GPM/FLUSH	LUSTRA #K-4650	N/A
WHITE COLOR. SEAT SHALL BE ANTIMICROBIAL PLASTIC OPEN-FRONT SEAT.						
LAVATORY						
		BOWL TYPE	FAUCET	SUPPLY PIPE	TRAP	TAIL-PIECE
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	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						
		BASIN TYPE	FAUCET	TRAP	CARRIER	ACCESSORIES
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						
		FINISH	SUPPLY/ DRAIN	MOUNTING	REMOTE CHILLER	
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

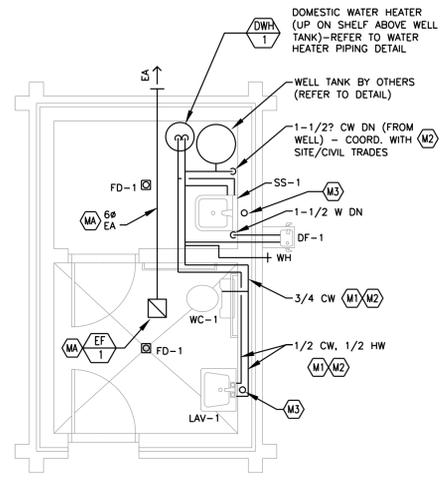
NOTES:
 1. ALL PLUMBING FIXTURES, EQUIPMENT, TRIM AND FITTINGS SHALL COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS AND CODES, INCLUDING, BUT NOT LIMITED TO, WATER AND ENERGY CONSERVATION CODES, ADA REQUIREMENTS.
 2. REFER TO SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS OF FIXTURES AND TRIM.
 3. PROVIDE/INSTALL POINT OF USE "ASSE 1070 LISTED" THERMOSTATIC MIXING VALVES ON SUPPLIES TO ALL ADA ACCESSIBLE LAVATORIES 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.

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	RPM	DRIVE	VOLTS					PHASE
EF-1	TOILET	CEILING MOUNTED EXHAUST	81	.125	1,380	FRACT.	50W	1,380	DIRECT	120	1	-	8	HD80	SEE NOTES

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

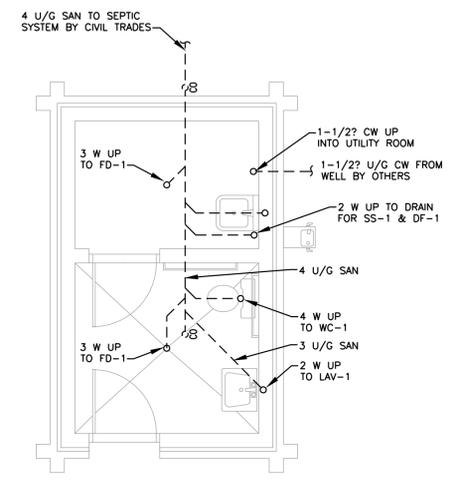
COMPACT ELECTRIC DOMESTIC WATER HEATER SCHEDULE						
UNIT I.D.	STORAGE CAPACITY GALLONS	VOLTAGE/ PHASE	ELEMENT WATTAGE	RECOVERY G.P.H. @ 90F RISE	WEIGHT LBS (DRY)	MODEL NO.
DWH-1	10	120/1	1,650	8	45	JRC010DS

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



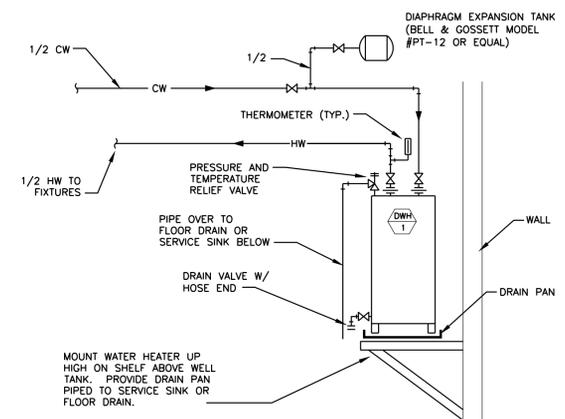
ABOVE GRADE MECHANICAL PLAN
 SCALE: 1/4" = 1'-0"

- KEYED MECHANICAL CONSTRUCTION NOTES:**
- M1 ROUTE SUPPLY PIPES (INSULATED PER SPECS) IN SPACE BETWEEN BLOCK AND SIDING.
 - 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.



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

- KEYED MECHANICAL CONSTRUCTION NOTES:**
- M4 ROUTE 60 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:**
- 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.
 - 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.).
 - 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.
 - 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.
 - COORDINATE ALL FLOOR, WALL, AND ROOF PENETRATIONS, EQUIPMENT PADS, ETC. WITH ARCHITECTURAL/STRUCTURAL TRADES PRIOR TO ROUGH-IN.
 - REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION/HEIGHTS OF FIXTURES (STANDARD AND BARRIER FREE), SINKS, TOILETS, LAVATORIES, WATER COOLERS, ETC. COORDINATE WITH ARCHITECTURAL PLANS FOR DETAILS ON CASEWORK, FURNITURE, ETC.
 - 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.
 - MINIMUM UNDERGROUND SANITARY PIPE SIZE SHALL BE 3".
 - ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING SHALL HAVE CODE REQUIRED CLEARANCES PROVIDED.
 - ALL FIXTURES / EQUIPMENT SHALL BE PROVIDED WITH ISOLATION VALVES. ALL VALVES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.
 - ALL FLOOR DRAINS SUBJECT TO LOSS OF SEAL (IE. RESTROOMS, STORAGE ROOMS, ETC.) SHALL BE PROTECTED BY A TRAP SEAL PRIMER.

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LOUIS M. GROEN NATURE PRESERVE
 SEIDELL ARCHITECTS
 GINGELL ROAD JOHANNESBURG, MI
MECHANICAL PLANS

ISSUED FOR	ISSUED BY
BIDDING AND CONSTRUCTION	JLK
DATE	DATE
4/30/2012	
JOB NO.	JOB NO.
TSAI 1203-01	
SHEET	SHEET
M1	