P #	MAKE	MODEL	TYPE	HANDI- CAPPED	SAN	VENT	CW	нw		
P-1A	AMERICAN STANDARD	MADERA 3461.712	FLOOR MOUNTED HC ELONGATED FLOW WISE WC, 1.28 GPF, COMPRESSION STOPS, AMSTD 5901.100 ELONGATED SEAT	2	YES	3"	1-1/2"	1/2"	-	
P-2A	AMERICAN STANDARD	REGLYN 4867.008	WALL MOUNTED LAVATORY WITH HERITAGE 7400.172H FAUCET, COMPRESSION STOPS & 2 YES 1-1/2" 1 1/2" 1 GRID DRAIN 1 1/2" 1							
P-3	ELKAY	GOURMET CR2521	25"X21" SINGLE BOWL 20 GAUGE STAINLESS STEEL SINK W/AMSTD 6542.170 FAUCET, GRID DRAIN AND STOPS	2	YES	1-1/2*	1-1/2"	1/2"	1/2"	
P-4	GUY-GRAY	WB 200	WASHING MACHINE SYPPLY & DRAIN W/WATTS DUO-CLOZ BALL SHUT OFF VALVE, HOSE CONNECTION & DRAIN	1	-	2"	1-1-/2"	1/2"	1/2"	
P-5	JOSAM	30003-A	CAST IRON FLOOR DRAIN TWO PIECE BODY, BOTTOM OUTLET & SATIN NIKALOY STRINER	1	-	3"	1-1/2*	-	_	
P-6	JOSAM	56003-2	3" FLOOR CLEANOUT WITH SATIN FINISH BRONZE TOP	-	-	3"	-	_	-	
					2 - 10 K 2 K 10 K 1 K 1					

		ELE(CTRIC	WATE	IR H	EATE	ER S	CHED	ULE	
DESIGNATION	MAKE	MODEL	STORAGE CAPACITY (GAL)	RECOVERY RATE (GPH)	INLET TEMP (F)	OUTLET TEMP (F)	POWER INPUT (KWH)	VOLTAGE PHASE	WEIGHT	NOTES
EWH-1	A.O.SMITH	PV-40-20LS	40	20	50	120	1.5	120/1	120	LOCATE IN

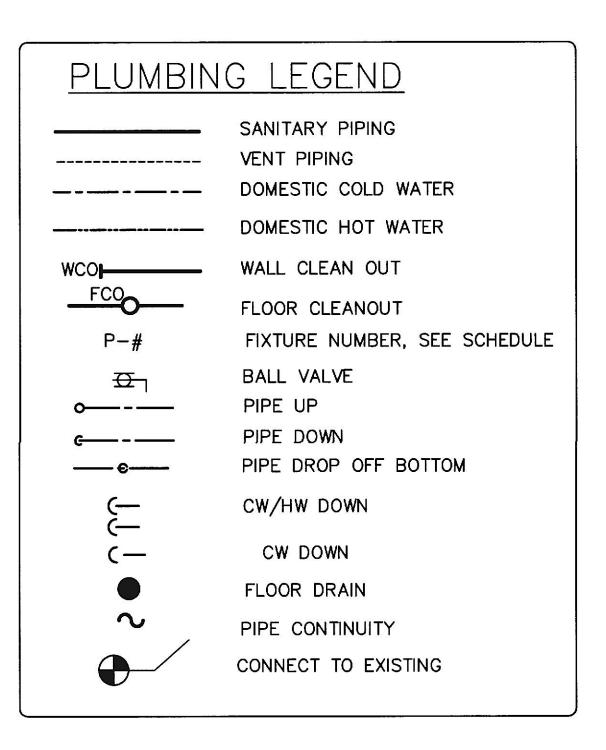
	EXHAUST FAN SCHEDULE											
SYMBOL	MAKE	MODEL #	TYPE	VOLTS	AMPS	CFM	S.P.	HP	RPM	WEIGHT	ACCESSORIES	AREA SERVED
EF-1	GREENHECK	SP-B90	CABINET FAN	120	-	80	0.2	50W	700	10	BDD, DISC	BATHROOM

MECHANIC	CAL LEGEND
	24"X24" LAY-IN SUPPLY DIFFUSER
	24"X24" LAY-IN RETURN GRILLE
	12"X12" LAY-IN SUPPLY DIFFUSER
	NEW DUCTWORK
	EXISTING DUCTWORK
	NEW EXHAUST DUCTWORK
	NEW RETURN AIR DUCTWORK
~~~~~	FLEX DUCT
\sim	DUCT CONTINUATION
∐	TAPPING COLLAR W/DAMPER
_	MANUAL VOLUME DAMPER
	AIR FLOW DIRECTION
	DUCT TRANSITION
	EXHAUST FAN
(1)	THERMOSTAT

DIFFUSER AIR QUANTITY

6"ø SAD

100 CFM



PLUMBING SPECIFICATIONS

- 1. ALL WORK SHALL BE DONE IN A NEAT AND WORKMAN LIKE MANNER AND IN ACCORDANCE WITH THE 2012 INTERNATIONAL PLUMBING CODE (IPC).
- 2. ALL DOMESTIC WATER HOT & COLD WATER PIPING SHALL BE INSULATED WITH 3/4" FIBERGLASS INSULATION EQUIVALENT TO OWENS CORNING ASF W/ PAPER BACKED ALUMINUM
- 3. ALL EXPOSED INTERIOR DOMESTIC WATER PIPING SHALL BE TYPE L COPPER WITH CAST BRASS WROUGHT COPPER OR WROUGHT BRASS SWEAT FITTINGS. LEAD FREE SOLDER AND FLUX SHALL
- BE USED ON ALL POTABLE WATER PIPING (ASTM B32). CEILING IS AIR PLENUM RETURN. 4. ALL CONCEALED INTERIOR DOMESTIC WATER PIPING MAY BE SCHEDULE 40 CPVC WITH FUSED
- JOINTS AND INSTALLED PER IPC, AS ALLOWED BY BALTIMORE COUNTY. 5. CONCEALED SANITARY, VENT & COND PIPING SHALL BE DWV COPPER OR NO-HUB CAST IRON
- IN PLENUM CEILING. 6. BRANCH LINE RUNOUTS, LESS THAN 12 FEET LONG & CONNECTED TO FIXTURES, SHALL USE
- 1/2" INSULATION.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR SIZES OF PIPE CONNECTIONS TO ALL PLUMBING
- 8. INSTALL FIRE STOPPING SEALANT IN FIRE RATED WALLS AND FLOOR PENETRATION VOIDS.
- ALL NEW EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.
- 10. PROVIDE TRAP PRIMERS WITH WATER SAVER TRAP PRIMER EQUIV TO ZURN Z1021-CONN TO LAV TRAP AND RUN TO FLOOR DRAIN.
- 11. ALL FLOOR TRAPS SHALL BE DEEP SEAL TYPE. 12. ALL PLUMBING EQUIPMENT AND MATERIALS SHALL CONFORM TO THE 2012 NATIONAL STANDARD
- 13. THE PRODUCTS INCLUDED IN THE PLUMBING SCHEDULES ARE THE BASIS OR DESIGN ONLY. EQIVALENT MANUFACTURERS ARE ACCEPTABLE UPON SUBMISSION OF SHOP DRAWINGS. THE PRESCRIBED DUTY OF ALL EQUIPMENT SHALL BE MAINTAINED.
- 14. PROVIDE PROTECTIVE COVERS FOR ALL ACCESSIBLE LAVATORY PIPING, EQUIVALENT TO TRUEBRO LAV GUARD 2 MODEL #402 EZ
- 15. CONTRACTOR SHALL NOT SCALE THE PLANS & MUST VERIFY CONNECTION POINTS & FIT IN THE FIELD PRIOR TO THE START OF WORK.
- 16. THE LEVER OPERATORS ON ALL ADA ACCESSIBLE WATER CLOSETS SHALL BE MOUNTED ON THE ACCESSIBLE SIDE. REFER TO ARCHITECTURAL PLANS.
- 17. CONTRACTOR TO VERIFY THE AVAILABLE SANITARY PIPING SLOPE IN THE CEILING OF THE SECOND FLOOR (BELOW). ALL WORK IN SECOND FLOOR CEILING WILL BE OFF-HOURS WORK. COORDINATE WITH BUILDING OWNER IN ADVANCE.

MECHANICAL SPECIFICATIONS:

- 1. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
- RECIRCULATION OF VENTILATION AIR SHALL BE IN ACCORDANCE WITH SECTION 403 OF THE 2012 INTERNATIONAL MECHANICAL CODE, VENTILATION AIR SHALL BE IN ACCORDANCE WITH SECTION 403.3, TABLE 403.3
- CONSTRUCTION AND INSTALLATION OF DUCTWORK SHALL COMPLY WITH SECTION 603 OF THE
- 2012 INTERNATIONAL MECHANICAL CODE. 4. SMOKE DETECTORS ARE EXISTING TO REMAIN.
- 5. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S
- INSTRUCTIONS PER 2012 INTERNATIONAL MECHANICAL CODE.
- 6. ALL HEATING AND AIR CONDITIONING EQUIPMENT SHALL BE UL LISTED ALL SUPPLY AND RETURN AIR DUCTS LOCATED ABOVE THE CEILING SHALL BE INSULATED WITH

1-1/2" FLEXIBLE DUCT WRAP WITH FOIL FACED BARRIER. INSTALATION SHALL BE PER

- MANUFACTURER'S & SMACNA INSTRUCTIONS. 8. INSULATED FLEX DUCTS SHALL BE USED WHERE SHOWN AND SHALL MEET SMACNA STANDARDS
- WITH AN INSULATION RATING OF 4.2 AND LISTED BY UL 181 STANDARD. 9. ALL SUPPLY AIR DUCTS SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT SMACNA
- STANDARDS. 10. THE PRODUCTS INCLUDED IN THE MECHANICAL SCHEDULES ARE THE BASIS OR DESIGN ONLY.
- EQIVALENT MANUFACTURERS ARE ACCEPTABLE UPON SUBMISSION OF SHOP DRAWINGS. THE PRESCRIBED DUTY OF ALL EQUIPMENT SHALL BE MAINTAINED.
- 11. UPON COMPLETION OF ALL WORK AND START UP, AIR BALANCING TESTING SHALL BE PERFORMED BY THE CONTRACTOR. ALL RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
- 12. MECHANICAL CONTRACTOR TO COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS WITH
- ELECTRICAL CONTRACTOR PRIOR TO THE START OF WORK. 13. MECHANICAL DRAWINGS SHALL NOT BE SCALED. EQUIPMENT LOCATION SHALL BE COORDINATED
- WITH THE EQUIPMENT INSTALLED AND COORDINATED WITH THE ARCHITECTURAL AND STRUCTURAL DESIGN. REFER LOCATION RFI BEYOND THIS TO THE ARCHITECT & ENGINEER. 14. CONTRACTOR TO INSPECT THE SITE PRIOR TO THE START OF WORK. NO ALLOWANCE WILL BE PROVIDED FOR WORK THAT MUST BE CORRECTED DUE TO LACK OF A PRE-CONSTRUCTION
- 15. CONTRACTOR TO COMPLETE A PRELIMINARY AIR BALANCE, INCLUDING THE SUPPLY AND

POORLY OPERATING EQUIPMENT TO THE ARCHITECT / ENGINEER.

RETURN AIR QUANTITIES FOR EACH MAJOR SUPPLY AIR BRANCH. THIS SHALL BE FORWARDED TO THE ARCHITECT AND ENGINEER PRIOR TO DEMOLITION. 16. CONTRACTOR TO INSPECT AND CHECK EXISTING HVAC UNITS, ELECTRIC DUCT HEATERS.

EXHAUST FANS AND CONTROLS FOR PROPER OPERATION. REPORT ANY FINDINGS REGARDING

ORTHOWD Date: 12/12/12 Revisions No. Date Reference 1 2.5.13 PRICING Drawing Title M & P

Drawing Number

I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the law of the State of Maryland, license number 9240, expiration date, May 31, 2013.