

GENERAL NOTES

- CONTRACTOR TO SECURE, MAINTAIN, AND PAY FOR ALL REQUIRED LICENSES AND INSPECTIONS FOR DURATION OF WORK UNLESS DIRECTED OTHERWISE.
- 2. ALL DUCTWORK SHALL BE GALVANIZED STEEL, ROUND OR RECTANGULAR. SUPPORT PER SMACNA DUCT CONSTRUCTION STANDARDS AND INSTALL IN CONFORMANCE TO MECHANICAL CODES. EXHAUST AIR DUCTS SHALL BE CONSTRUCTED TO +1" PRESSURE STANDARD. SEAL ALL DUCTS TO CLASS "B" STANDARDS.
- PROVIDE TURNING VANES FOR ALL SUPPLY AIR AND RETURN AIR RECTANGULAR ELBOWS.
- 4. FLEXIBLE DUCTS SHALL BE INSULATED NONMETALLIC, FORM "NM-1L', MAXIMUM LENGTH OF 5'-0" AT DIFFUSER OR GRILLE CONNECTION. BUTTERFLY BALANCING OR DAMPERS WHERE SHOWN OR REQUIRED, ROUND OR RECTANGULAR, GALVANIZED SHEET METAL, WITH EXTERNAL INDICATING QUADRANT AND SETSCREW.
- 5. SHEET METAL DUCT SIZES SHOWN ARE NET CLEAR INSIDE DIMENSIONS. WHEN INTERNAL INSULATION IS REQUIRED, DUCT SIZE SHALL BE INCREASED TO PROVIDE NET CLEAR DIMENSIONS INDICATED.
- MECHANICALLY FASTEN CONNECTIONS BETWEEN METAL DUCTS AND THE INNER CORE OF FLEXIBLE DUCTS. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK, SHALL BE SECURELY FASTENED AND SEALED WITH

- WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, OR TAPES IN ACCORDANCE WITH UL 181A OR UL 181B.
- ALL EXHAUST AIR DUCTWORK SHALL BE INSULATED FROM THE AIR OUTLET TO 20 FEET IN WITH 1-1/2" THICK, 3/4 LB. DENSITY, FIBERGLASS DUCT WRAP FACED WITH OUTER FOIL BLANKET, MINIMUM INSTALLED R-VALUE 3.5.
- 8. MOTORIZED OUTDOOR AIR AND EXHAUST AIR DAMPERS SHALL HAVE A MAXIMUM LEAKAGE RATE OF 4 CFM / SF AT 1.0" W.G. EXCEPT FOR FACTORY BUILT PACKAGED SYSTEMS, WHICH MAY HAVE A LEAKAGE NOT TO EXCEED 20 CFM / SF AT 1.0" W.G.
- 9. TEST THE OPERATION OF MECHANICAL SYSTEMS AND EQUIPMENT FOR COMPLIANCE WITH CONTRACT CONDITIONS. MEASURE AIR QUANTITIES WITH CALIBRATED DEVICES CAPABLE OF MEASURING AIR QUANTITIES ON A CONTINUOUS BASIS AND DISPLAYING THAT QUANTITY ON A READILY ACCESSIBLE DISPLAY DEVICE. ADJUST ALL DAMPERS, DRIVES, MOTORS, AND OTHER ADJUSTABLE ITEMS TO DELIVER DESIGN QUANTITIES IN ACCORDANCE WITH NEBB PROCEDURAL STANDARDS (2005) OR AABC NATIONAL STANDARDS (2002). PROVIDE ALL NECESSARY BELTS, SHEAVES, ETC. PROVIDE BALANCE REPORT TO OWNER AND ENGINEER.
- 10. CONTRACTOR SHALL SUPPLY ALL REQUIRED STARTERS. DISCONNECTS AND POWER WIRING BY ELECTRICAL CONTRACTOR.

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FD FIRE DAMPER OBD OPPOSED BLADE DAMPER WG WATER GAUGE	FD	FIKE DAMPEK	ORD	OPPOSED BLADE DAMPER	WG	WATER GAUGE

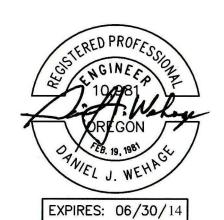
DRAWING LIST

M-1 MECHANICAL LEGEND, NOTES & ABBREVIATIONS

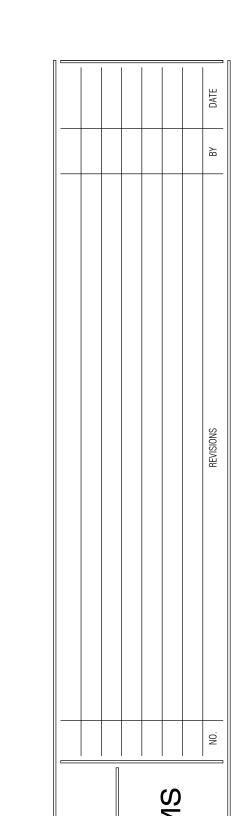
M-2 HVAC PLAN & EQUIPMENT SCHEDULES

M-3 HVAC PLANS & SECTION

NOTE: ABBREVIATIONS AND SYMBOLS ARE ARCSINE ENGINEERING STANDARDIZED SYMBOL LEGENDS. AS SUCH, ALL SYMBOLS SHOWN MAY NOT APPEAR ON OR WITHIN THIS SET OF CONTRACT DOCUMENTS.





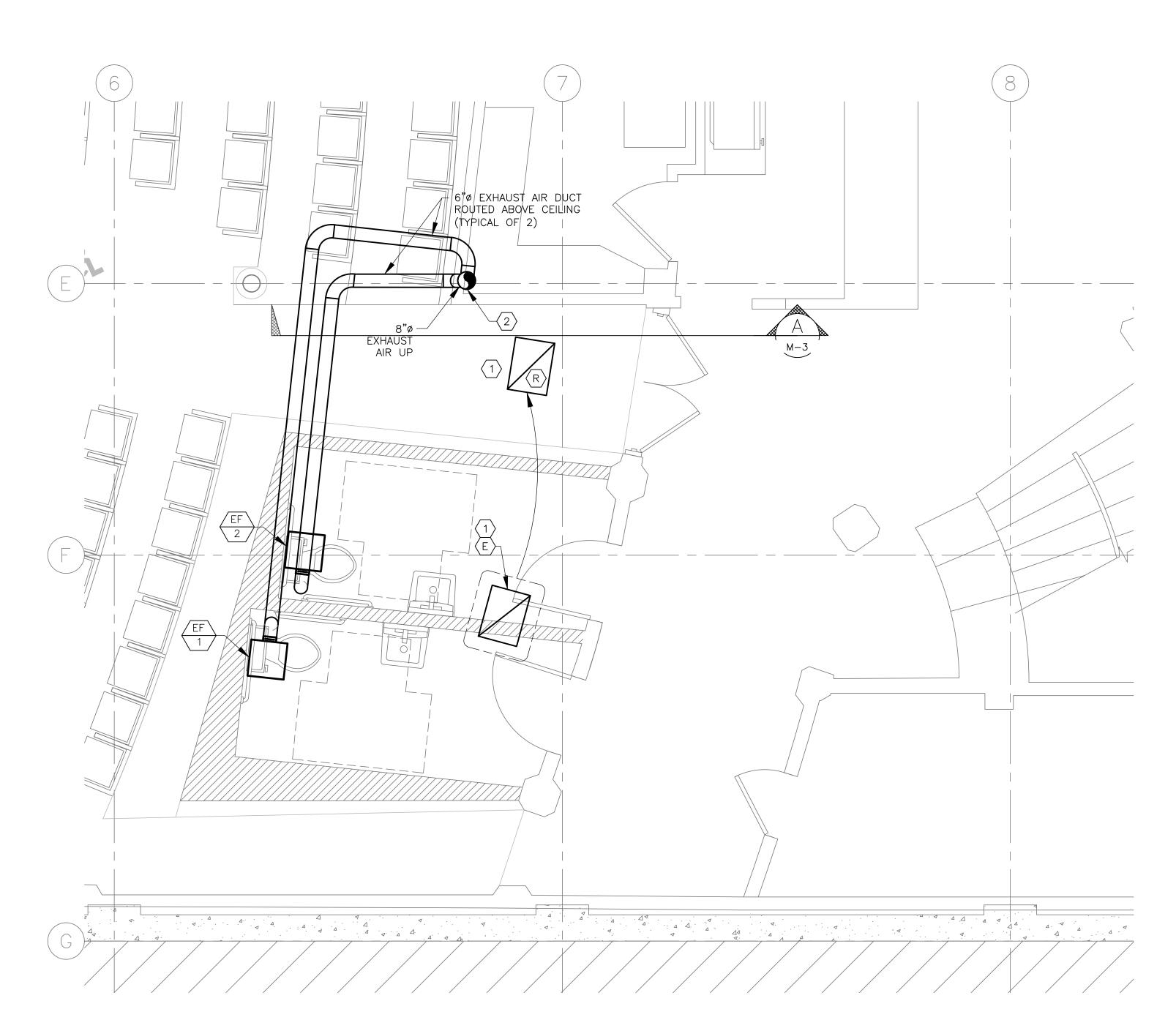


1325

PROJECT NO: 1325-M-1.dwg DRAWN: JJ CHECKED: D. WEHAGE

DATE: 6-17-2013

LEGEND, NOTES & **ABBREVIATIONS**



HVAC PLAN - FIRST FLOOR SCALE: 3/8"=1'-0"

GENERAL NOTES

○ KEYED NOTES

- RELOCATE EXISTING 18x24 (APPROX.) RETURN AIR GRILLE AND RETURN AIR DUCT ABOVE CEILING TO CORRIDOR AS SHOWN.
- $\langle 2 \rangle$ for continuation see

FAN	SCHEDULE

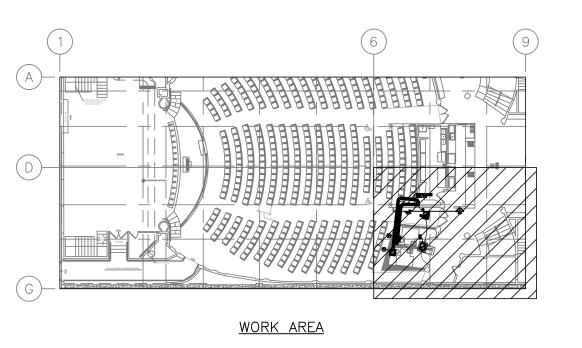
TAG	SERVICE	TYPE	CFM	ESP	ELECTRICAL		MANUFACTURER	MODEL	NOTES	
					VOLTS PHASE WATTS					
EF-1	WOMEN'S RR	CEILING	72	0.875"	115	1	80	GREENHECK	SP-B110	1-5
EF-2	MEN'S RR	CEILING	72	0.875"	115	1	80	GREENHECK	SP-B110	1-5

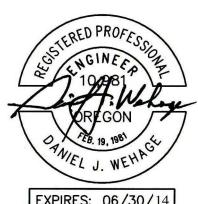
- 1. PROVIDE WITH UNIT MOUNTED SOLID STATE SPEED CONTROL FOR AIR BALANCING.
- 2. CONTROL ON-OFF OPERATION WITH LIGHT SWITCH
- 3. PROVIDE WITH ROOF CAP SEE ROOF HOOD SCHEDULE
- 4. PROVIDE WITH ALUMINUM BACKDRAFT DAMPER
- 5. GALVANIZED METAL DUCT FROM FAN UP TO ROOF CAP. INSULATE DUCT WITH 1" FIBERGLASS WRAP.

	$D \cap C E$	$\square \cap \cap \square$	CCHEDIII
- 1			

AIR MAX PRESSURE THROAT HOOD MODEL														
TAG	DIRECTION	CFM	DROP, "W.G.	DIMENSIONS	DIMENSIONS	HEIGHT	MANUFACTURER	NUMBER	WEIGHT	NOTES				
RH-1	EXHAUST	144	144 0.05	6"x9"	18 3/4"x14 1/4"	6 1/2"	GREENHECK	RJ-6x9	10	1				

1. ANCHOR HOOD TO 12" HIGH ROOF CURB.





EXPIRES: 06/30/14

NOTES:

1. SEE LEGEND AND GENERAL NOTES ON SHEET M-1.

BAR EQUALS ONE
INCH WHEN DRAWING
IS PLOTTED FULL SIZE.
IF NOT, SCALE ACCORDINGLY

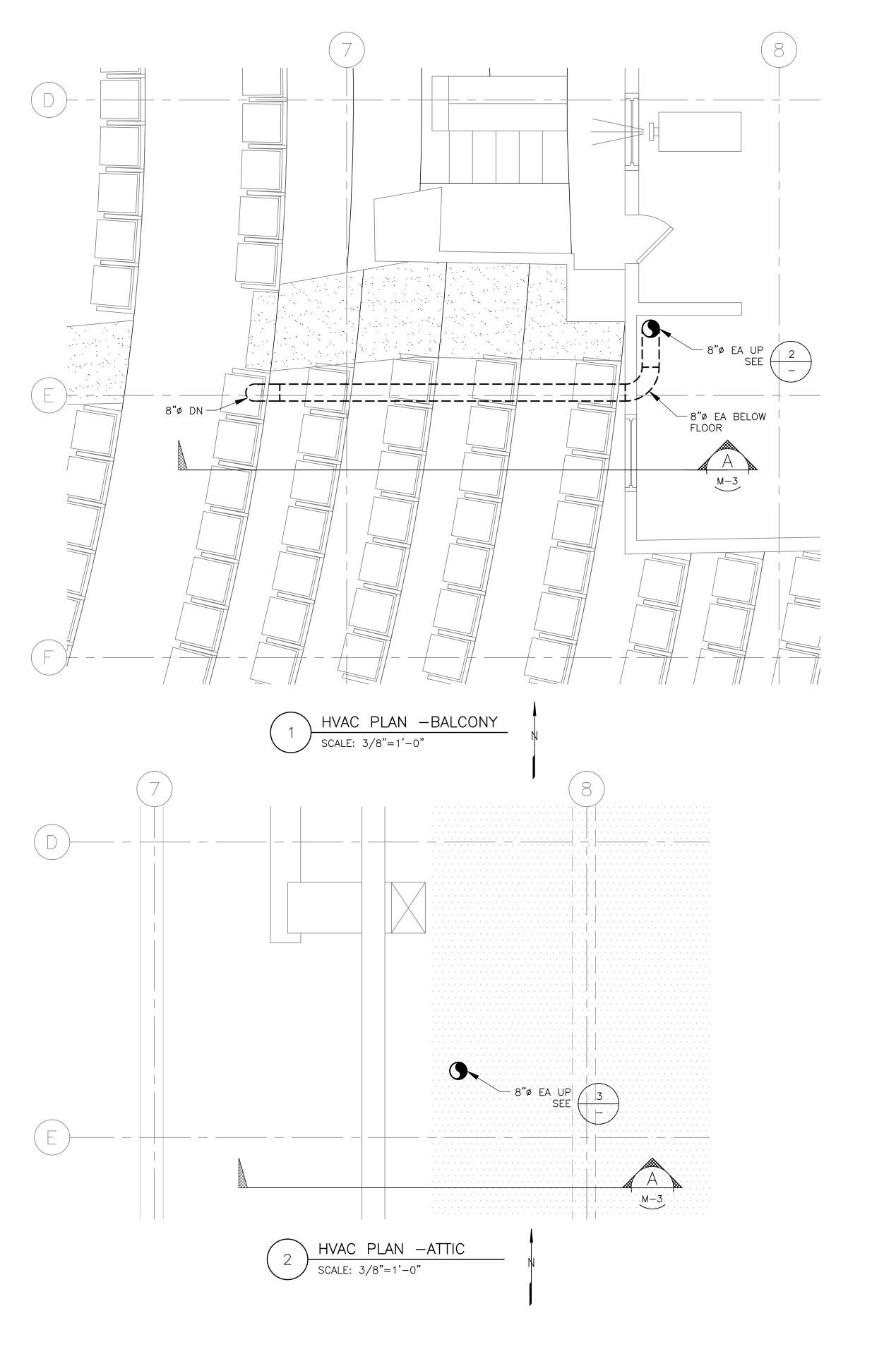


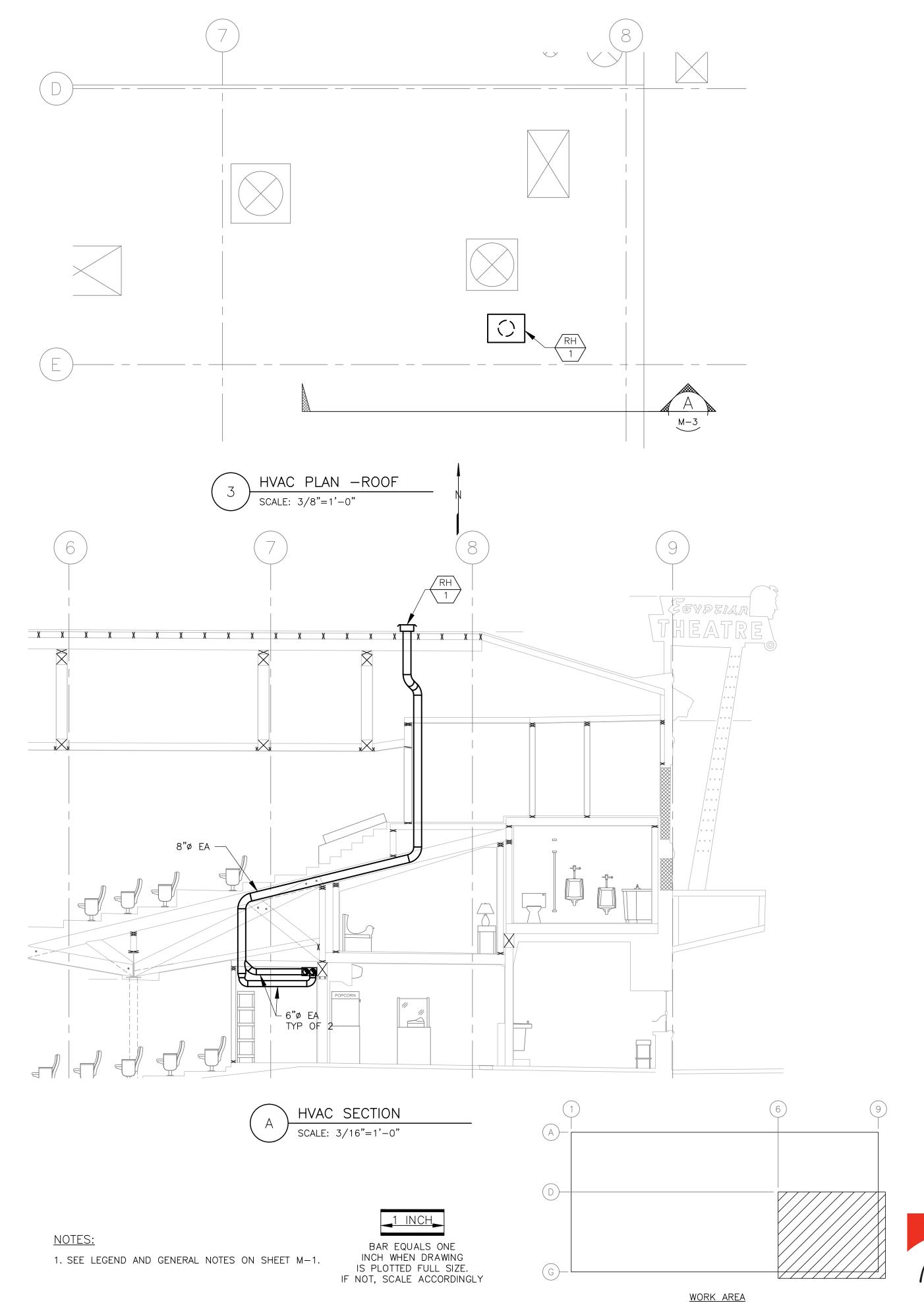
BAY

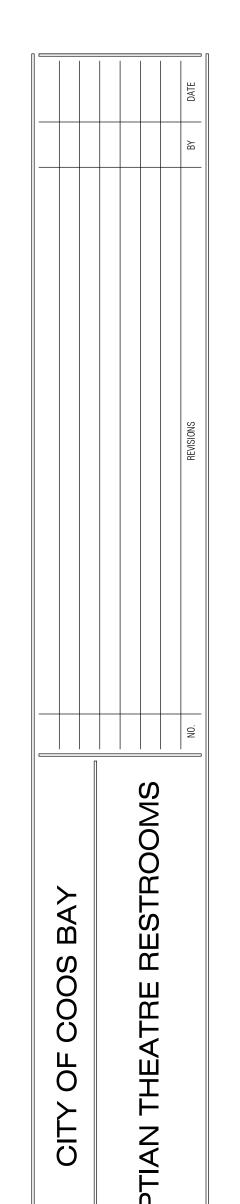
PROJECT NO: 1325 1325-M-2.dwg DRAWN: JJ

CHECKED: D. WEHAGE DATE: 6-17-2013

HVAC PLAN & EQUIPMENT SCHEDULES







PROJECT NO: 1325

DRAWN: JJ 1325-M-2.dwg

CHECKED: D. WEHAGE

DATE: 6-17-2013

CHECKED: D. WEHAGE

DATE: 6-17-2013

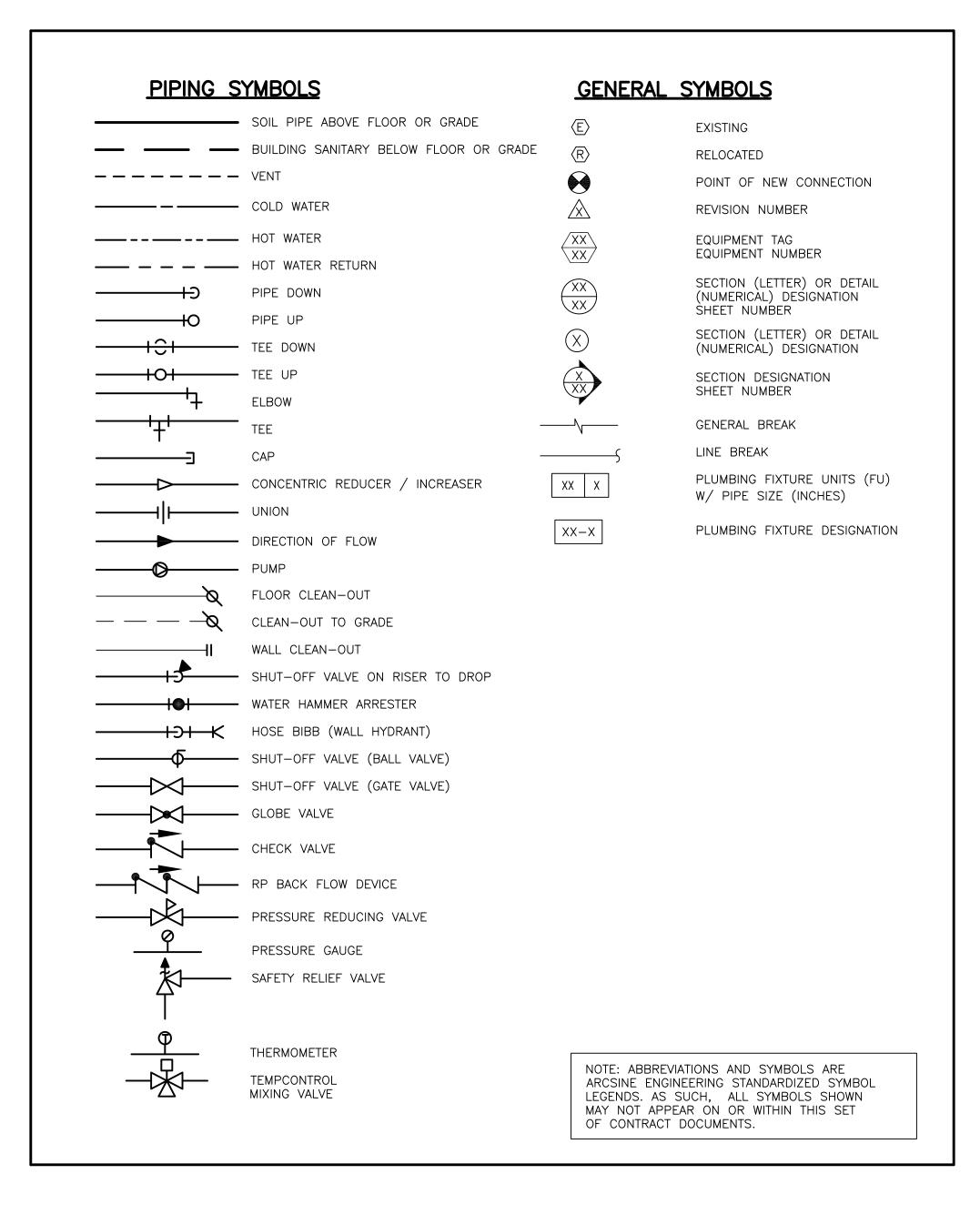
HVAC PLANS & SECTION

EXPIRES: 06/30/14

ArcSine engineering

A full-spectrum engineering company

950 Executive Way | Redding, CA 96002 | (530)222-7204 1236 Disk Drive | Medford, OR 97501 | (541)842-4188 563 North Main | Ashland, OR 97520 | (541)482-7204 www.arc-sine.com M-3



PLUMBING FIXTURE SCHEDULE

DESCRIPTION

L-1 | LAVATORY (WALL HUNG)

L-2 LAVATORY (WALL HUNG)

(FLOOR MOUNT)

(FLOOR MOUNT)

WATER HEATER

WC−1 | WATER CLOSET

WC−2 | WATER CLOSET

WH-2 WATER HEATER

MINIMUM CONNECTION SIZE

CW

1/2"

1/2"

1/2

1/2"

1/4"

1/4"

HW

1/4"

WASTE | VENT

REMARKS

. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT A COMPLETE, OPERATIONAL PLUMBING SYSTEM FOR THE ENTIRE PROJECT AS SHOWN ON THESE DRAWINGS, INCLUDING ALL NECESSARY FEES AND PERMITS.

- 2. THE ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY ADOPTED PLUMBING CODE, MECHANICAL CODE, BUILDING CODE AND ALL OTHER APPLICABLE CITY, COUNTY, AND STATE CODES AND REGULATIONS IN EFFECT AT THE DATE OF THE BID. CONFORM TO ANY CODES, RULES, REGULATIONS AND REQUIREMENTS THAT THE PROJECT OWNER
- OBTAIN ALL INSPECTION APPROVALS ON PLUMBING WORK FROM REGULATING AGENCIES WHERE REQUIRED.
- 4. PRIOR TO FABRICATION AND INSTALLATION THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL PLUMBING PIPING AND EQUIPMENT WITH MECHANICAL PIPING, EQUIPMENT, DUCTWORK, AND ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO THE MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR AND GENERAL CONTRACTOR. WHERE CONFLICTS MAY OCCUR, THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
- 5. THE DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENTS AND THE EXTENT OF THE SYSTEM. IT SHALL BE THE WORK OF THE CONTRACTOR TO MAKE SUCH SLIGHT ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL IN ACCORDANCE WITH THE DESIGN INTENT. MAJOR DEVIATIONS SUCH AS CHANGES IN COMPONENT SIZES, WEIGHTS, QUANTITIES, OR MATERIAL REQUIRE PRIOR APPROVAL BY THE CONSULTING
- 6. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
- 7. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING
- 8. THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR PLUMBING EQUIPMENT AND PIPING SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, STRUCTURAL AND ELECTRICAL DRAWINGS.
- 9. EXACT ROUTING OF WASTE, GAS, AND WATER SERVICE IS DEPENDENT ON LOCAL SITE CONDITIONS AND MODIFICATIONS IN EQUIPMENT CONNECTIONS. EXACT LOCATION OF EQUIPMENT MAY VARY DEPENDING ON LOCAL CODE, HEALTH DEPARTMENT AND CITY REQUIREMENTS.
- 10. DETAILS: THE CONTRACTOR IS RESPONSIBLE TO REVIEW AND USE WHERE APPROPRIATE ALL OF THE PLUMBING DETAILS SHOWN ON THE DRAWINGS. DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS OR KEYED NOTES. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE PLUMBING SYSTEM WITHOUT USING THE INCLUDED DETAILS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 11. THE DRAWINGS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND

857-E2805-665PSHCP METERING FAUCET. PROVIDE INSULATED PIPE COVERINGS.

857-E2805-665PSHCP METERING FAUCET. PROVIDE INSULATED PIPE COVERINGS.

CONNECTIONS, 49° F WATER TEMPERATURE RISE AT 0.5 GPM FLOW RATE. MOUNT BELOW L-1.

CONNECTIONS, 49° F WATER TEMPERATURE RISE AT 0.5 GPM FLOW RATE. MOUNT BELOW L-2.

AMERICAN STANDARD ROXALYN LAVATORY MODEL 0195.073, W/ CONCEALED ARMS LAVATORY SUPPORT, J.R. SMITH 0700(-E). CHICAGO FAUCETS

AMERICAN STANDARD ROXALYN LAVATORY MODEL 0195.073, W/ CONCEALED ARMS LAVATORY SUPPORT, J.R. SMITH 0700(-E). CHICAGO FAUCETS

AMERICAN STANDARD CADET 2377.100 FLOOR MOUNTED ELONGATED BOWL W/ PRESSURE ASSIST TYPE TANK TOILET. OPEN SEAT, WHITE. LEFT

AMERICAN STANDARD CADET 2377.100 FLOOR MOUNTED ELONGATED BOWL W/ PRESSURE ASSIST TYPE TANK TOILET. OPEN SEAT, WHITE. RIGHT

CHRONOMITE POINT OF USE WATER HEATER MODEL SR-30L, 3600W, 110/120V, 30A BREAKER SIZE, WT. 5 LB., 1/4" FEMALE NPT PIPE

CHRONOMITE POINT OF USE WATER HEATER MODEL SR-30L, 3600W, 110/120V, 30A BREAKER SIZE, WT. 5 LB., 1/4" FEMALE NPT PIPE

GENERAL NOTES

- THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN BOTH.
- 12. PREPARE 6 COPIES OF SUBMITTALS IN AN INDEXED, LABELED FOLDER CONTAINING FULL PERFORMANCE, MATERIAL AND INSTALLATION INFORMATION ABOUT ALL EQUIPMENT. PIPING. COMPONENTS AND ACCESSORIES TO BE USED. ARCSINE ENGINEERS WILL CHECK SUBMITTALS AT MOST TWICE. TIME SPENT ON SUBSEQUENT SUBMITTALS WILL BE BILLED TO THE CONTRACTOR BY THE ENGINEER AT ITS CURRENT HOURLY RATES.
- 13. THE STRUCTURE SHOWN ON ALL DETAILS MAY OR MAY NOT PERTAIN TO A PORTION OR ANY PORTION OF THE BUILDING. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 14. ANY PART OF THIS INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 15. IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
- 16. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES AND ACCESSORIES REQUIRED FOR A COMPLETE, WORKABLE INSTALLATION.
- 17. EXISTING INTERIOR PIPING AND EQUIPMENT HAS BEEN LOCATED IN AN OF CONNECTION, PIPE SIZES AND PIPE ROUTING THROUGH EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- 18. THE CONTRACTOR SHALL PERFORM THE WORK IN A MANNER THAT WILL CAUSE A MINIMUM DISRUPTION TO BUILDING TENANT USE AND SHALL COORDINATE THE WORK WITH THE BUILDING OWNER'S REPRESENTATIVE.
- 19. THE CONTRACTOR IS RESPONSIBLE FOR PLUMBING EQUIPMENT CHECK-IN, SAFEKEEPING, AND DAMAGE.
- 20. ALL OPENINGS FOR PIPING THROUGH FIRE-RATED ENCLOSURES SHALL BE CAULKED AS REQUIRED BY CODE TO MAINTAIN FIRE RATING.
- 21. PIPE INSULATION (ABOVE GRADE):
- 22. HOT WATER: PROVIDE A MINIMUM OF 1" THICK INSULATION (CONDUCTIVITY NOT EXCEEDING 0.27 BTU/IN/HR-FT2-°F) ON ALL SERVICE HOT WATER AND HOT WATER RECIRCULATION PIPING.
- 23. COLD WATER: PROVIDE 1/2" THICK INSULATION ON PIPE INSTALLED ABOVE GRADE WITHIN THE BUILDING FOR CONDENSATION CONTROL.
- 24. LAVATORY AND SINK FAUCETS SHALL HAVE A FLOW RATE OF 0.5 GPM.
- 25. ANY SHUT DOWNS REQUIRED TO CONNECT TO ALL ACTIVE PIPING ARE TO BE COORDINATED WITH OWNER.
- 26. ALL VALVES CONCEALED IN CEILING OR WALLS SHALL BE PROVIDED WITH

- ACCESS PANELS. LOCATE ON "AS BUILT" DRAWINGS.
- 27. ALL UNDERGROUND SOIL AND WASTE PIPING TO A POINT 5'-0" OUT FROM BUILDING SHALL BE RUN AT A MINIMUM SLOPE OF 1/4" PER FT.
- 28. BELOW GRADE CW PIPING SHALL BE TYPE K COPPER OR PEX TUBING (TYPE "A"). ABOVE GRADE PIPING SHALL BE TYPE L COPPER OR PEX TUBING (TYPE "A"). SANITARY DRAIN AND VENT PIPING SHALL BE ABS-DWV FOR BELOW AND ABOVE GRADE PIPING.
- 29. LOCATE ALL PLUMBING VENTS AT LEAST 3 FEET ABOVE OR 10 FEET AWAY FROM ALL OUTSIDE AIR INTAKES INTO THE BUILDING.
- 30. SEE "PLUMBING FIXTURE SCHEDULE" FOR FIXTURE MAKE AND TYPE, AND SIZE OF INDIVIDUAL WASTE, VENT, AND DOMESTIC WATER PIPING TO FIXTURES.
- 31. ALL PLUMBING EQUIPMENT SHALL BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY.
- 32. EQUIPMENT AND INSTALLATION SHALL MEET NATIONAL SANITATION FOUNDATION (NSF) STANDARDS, OR EQUIVALENT.
- 33. PROVIDE PROPER PROVISIONS FOR EXPANSION OR MOVEMENT OF ALL PIPING.
- 34. ALL PIPING SHALL BE SECURED BY DOUBLE NUTTING AT THE HANGER ROD ATTACHMENT TO THE STRUCTURE AND AT THE PIPE HANGER.
- APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL VERIFY LOCATIONS. POINTS 35. TWO OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED IN HARD BACK LOOSE LEAF BINDERS. MANUALS SHALL CONTAIN PRODUCT CUT SHEETS AND OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL EQUIPMENT. ACCESSORIES, FIXTURES, VALVES, ETC., PROVIDED FOR THE PROJECT.
 - 36. UPON COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS AND RUBBISH. MAKE ALL REQUIRED PATCHING AND REPAIRS OF OTHER TRADES' WORK DAMAGED BY THIS CONTRACTOR, AND LEAVE THE PREMISES IN A CLEAN. ORDERLY CONDITION.
 - 37. THE CONTRACTOR SHALL OPERATE THE SYSTEM AND DEMONSTRATE ALL ASPECTS TO THE ENGINEER AND/OR OWNER, TO PROVE ITS OPERATION.
 - 38. THE CONTRACTOR SHALL GUARANTEE THE PLUMBING SYSTEM FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
 - 39. THE CONTRACTOR SHALL, DURING CONSTRUCTION. MAINTAIN A SET OF AS-BUILT REDLINED RECORD DRAWINGS AT THE PROJECT SITE. ALL CHANGES IN LAYOUT, ROUTING, EQUIPMENT, COMPONENTS, AND ACCESSORIES SHALL BE RECORDED. THE CONTRACTOR IS RESPONSIBLE FOR CONVERTING THE CONSTRUCTION REDLINE DRAWINGS INTO "AS BUILT" DRAWINGS USING AUTOCAD BACKGROUNDS PROVIDED BY THE ENGINEER. IF THE CONTRACTOR DOES NOT HAVE AUTOCAD DRAFTING CAPABILITIES, THE CONTRACTOR SHALL HIRE THE ENGINEER TO PRODUCE THE "AS BUILT" DRAWINGS FROM HIS FIELD REDLINES. COMPLETED AUTOCAD "AS BUILTS" SHALL BE GIVEN TO THE ARCHITECT/ENGINEER AFTER THE FINAL INSPECTION.

PLUMBING ABBREVIATIONS										
AD	ACCESS DOOR	DN	DOWN	HW	HOT WATER (POTABLE)			SF/SQFT	SQUARE FEET	
AFF	ABOVE FINISH FLOOR	DW	DISHWASHER	HWR	HOT WATER RETURN	OC	ON CENTER	SH	SHOWER	
ARCH	ARCHITECT OR ARCHITECTURAL	DWG	DRAWING			OA/OSA	OUTSIDE AIR	SIM	SIMILAR	
				INT	INITIAL WORK TO BE DONE	OMSC	OREGON MECHANICAL SPECIALTY CODE	SPEC	SPECIFICATION OR SPECIFIED	
BLDG	BUILDING	ELEV	ELEVATION			OPSC	OREGON PLUMBING SPECIALTY CODE	SRV	SAFETY RELIEF VALVE	
BFF	BELOW FINISH FLOOR	ET	EXPANSION TANK	L	LAVATORY	OSSC	OREGON STRUCTURAL SPECIALTY CODE	SS	STAINLESS STEEL	
ВМ	BEAM	EWT	ENTERING WATER TEMPERATURE	LB(S)	POUND, POUNDS			STD	STANDARD	
BOP	BOTTOM OF PIPE	EWF	EYE WASH FOUNTAIN	` ,		PRV	PRESSURE RELIEF VALVE			
BOS	BOTTOM OF STEEL	EWH	ELECTRIC WATER HEATER	MBH	THOUSAND BTU PER HOUR	PT	PRESSURE TANK	TOS	TOP OF STEEL	
BTU	BRITISH THERMAL UNIT			MC	MECHANICAL CONTRACTOR	PSI	POUNDS PER SQUARE INCH	TYP	TYPICAL	
		FC_	FLEXIBLE CONNECTION	MCA	MINIMUM CIRCUIT CAPACITY	PT	PRESSURE / TEMPERATURE PLUG			
CA	COMPRESSED AIR	FLR	FLOOR	MECH	MECHANICAL	PVC	POLYVINYL CHLORIDE	U	URINAL	
CLG	CEILING	FU	FIXTURE UNITS	MFGR	MANUFACTURER			UNO	UNLESS NOTED OTHERWISE	
CO	CLEAN OUT	FUT	FUTURE WORK TO BE DONE	MIN	MINIMUM	RD	RAIN DRAIN			
CTG	CLEAN OUT TO GRADE	0.0	05115044 00117040700	MOCP	MAXIMUM OVERCURRENT PROTECTION	RDO	RAIN DRAIN OVERFLOW	V	VENT	
CONSTR	CONSTRUCTION	GC	GENERAL CONTRACTOR			RECT	RECTANGULAR			
CW	COLD WATER (POTABLE)	GPM	GALLONS PER MINUTE	NC	NORMALLY CLOSED	REQ'D	REQUIRED	W/	WITH	
		LID	LIGGE DIDD	NG	NATURAL GAS	RPM	REVOLUTIONS PER MINUTE	WC	WATER CLOSET	
DCW	DOMESTIC CLOTHES WASHER	HB	HOSE BIBB	NIC	NOT IN CONTRACT			WCO	WALL CLEAN OUT	
DF	DRINKING FOUNTAIN	HP	MOTOR HORSEPOWER	NO	NORMALLY OPEN	SAN	SANITARY DRAIN LINE	WH	WATER HEATER	
DIA	DIAMETER	HR	HOUR	NTS	NOT TO SCALE			WHA	WATER HAMMER ARRESTER	

DRAWING LIST

- P-1 LEGEND, NOTES, ABBREVIATIONS & FIXTURE SCHEDULE
- P-2 UNDER FLOOR/FIRST FLOOR PLUMBING PLAN AND DETAILS
- P-3 PLUMBING DETAILS





LEGEND, NOTES, **ABBREVIATIONS &** FIXTURE SCHEDULE



PROJECT NO: 1325-P-1.dwg CHECKED: D. WEHAGE DATE: 6-17-2013

