CODE NOTES:

1. ALL WORK HEREUNDER SHALL BE STRICTLY IN CONFORMANCE WITH APPLICABLE CODES AND REGULATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2006 INTERNATIONAL FIRE CODE, 2006 INTERNATIONAL MECHANICAL CODE, NFPA, AND CITY AND BOROUGH OF JUNEAU MODIFICATIONS IN SO FAR AS MINIMUM REQUIREMENTS. BUT THE DRAWINGS AND SPECIFICATIONS SHALL GOVERN IN CASES WHERE THE MINIMUM REQUIREMENTS ARE EXCEEDED. ALL ELECTRICAL EQUIPMENT SHALL BEAR THE UL LABEL.

SHEET NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON MATERIALS, METHODS, AND EQUIPMENT.

HEATING UNIT SCHEDULE

EQUIPMENT	MANUFACTURER AND MODEL	CAPACITY	FEATURES
FINNED PIPE, FP-1	RITTLING	NET WATER	SINGLE TIER, 4-1/4"x4-1/4" COPPER/ALUMINUM FINNED ELEMENT WITH MAXIMUM 40 FINS PER FOOT AND 1-INCH DIAMETER TUBE. LENGTH SHOWN ON PLANS IS FINNED LENGTH ONLY. WALL SUPPORTS EVERY 3 FEET. L-SHAPED SHEET METAL INSTALLED ABOVE ENTIRE CORE TO PREVENT AIR FROM BYPASSING CORE. 1=B=R APPROVED RATING. 14 INCH HIGH ENCLOSURE WITH SLOPED TOP.
FINNED PIPE, FP-2	RITTLING	NET WATER	BARE ELEMENT, 4-1/4"x4-1/4" COPPER/ALUMINUM FINNED ELEMENT WITH MAXIMUM 40 FINS PER FOOT AND 1-INCH DIAMETER TUBE. LENGTH SHOWN ON PLANS IS FINNED LENGTH ONLY. WALL SUPPORTS EVERY 3 FEET. L-SHAPED SHEET METAL INSTALLED ABOVE ENTIRE CORE TO PREVENT AIR FROM BYPASSING CORE. I=B=R APPROVED RATING. TO BE INSTALLED IN ARCHITECTURAL CABINET.

HEAT PUMP SCHEDULE

EQUIPMENT/ ZONE	AREA SERVED	HEATING EWT	COOLING EWT	NOMINAL HEATING OUTPUT	NOMINAL COOLING OUTPUT	BRINE FLOW RATE	VOLUME AT HIGH SPEED	DESIGN MANUFACTURER:	FEATURES	ELECTRICAL CHARACTERISTICS
		•F	' F	мвн	мвн	GPM	CFM	MODEL #		
HP-34	VESTIBULE 101 & VENDOR (CUP OF JOE) 124	32	77	33.1	40.0	5.5	1050	CLIMATEMASTER TRANQUILITY 20 SERIES TS-042	THREE SPEED FAN. SINGLE SPEED STAGE SCROLL COMPRESSOR. ECM MOTOR. COP OF 3.19 © EWT 32F.	BLOWER MOTOR: 1/2 HP, 460 VOLT, 3-PHASE. VARIABLE SPEED. COMPRESSOR: LRA 35.0, MAX FUSE 15 AMP. BLOWER FLA 4.1, TOTAL UNIT FLA 9.2. COORDINATE WITH ELECTRICAL FOR REQUIREMENTS.

^{*} GROUND LOOP HEAT PUMP

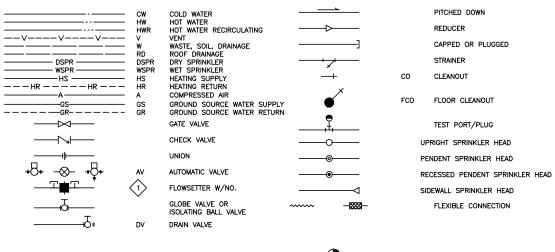
MECHANICAL ROOM/HEATING PLANT EQUIPMENT SCHEDULE

EQUIPMENT	MANUFACTURER	MODEL	FEATURES/CONTROLS/OPTIONS
CONDENSATE PUMP, CP-1	LITTLE GIANT	VCMA-20 ULST	1/2 GALLON CONDENSATE PUMP, 1/30HP, 120V, 1ø. VERTICAL TYPE PUMP WITH CONDENSATE BASIN. 40 GPH © 12 FT HEAD. SEPARATE POWER CONNECTION FROM HP-34.

FLOWSETTER AND AUTOMATIC VALVE SCHEDULE

	TESTISETTEN MAD MOTORINATE WALL SOTTEDOLE						
NUMBER	UNIT SERVED	LOCATION	DESIGN GPM	SETTER SIZE (INCHES)	VALVE TYPE	VALVE OPERATION	NORMAL POSITION
1	FP-1	GIFT SHOP 102	0.5	1/2	2-WAY	ON-OFF	OPEN
2	FP-2	RESTURANT 224	2.9	3/4	2-WAY	ON-OFF	OPEN
3	BYPASS	VENDOR (CUP OF JOE) 124	2.5	3/4	_	_	_
4	HP-34	VENDOR (CUP OF JOE) 124	6.8	1-1/4	2-WAY	MODULATING	OPEN

SYMBOLS



AFF	ABOVE FINISHED FLOOR	2	POINT OF CONNECTION OR REMOVAL
AV BD	AUTOMATIC VALVE BUTTERFLY DAMPER		CONSTRUCTION NOTE
BAS	BUILDING AUTOMATION SYSTEM		CONSTRUCTION NOTE
CFM CUH	CUBIC FEET PER MINUTE CABINET UNIT HEATER	Ф 🏻	THERMOSTAT - IMMERSION, ROOM
DDC	DIRECT DIGITAL CONTROL	Ţ	THERMOMETER
DI EA	DUCTILE IRON EXHAUST AIR		
EAT	ENTERING AIR TEMPERATURE	\$	CONTROL SWITCH
EF EG	EXHAUST FAN EXHAUST GRILLE	ø	DIAMETER
ESP	EXTERNAL STATIC PRESSURE		
EWT FD-1	ENTERING WATER TEMPERATURE FLOOR DRAIN	Q	CENTER LINE
FP I	FINNED PIPE	A	ACCESS DOOR
FS-1	FLOOR SINK	_ (B)	BELOW GRADE
HP LAT	HEAT PUMP LEAVING AIR TEMPERATURE	-	
LWT	LEAVING WATER TEMPERATURE	€	EXISTING
MA MAV	MIXED AIR MANUAL AIR VENT	®	TO BE RELOCATED
мв	MANUAL MULTIBLADE DAMPER	\otimes	TO BE REMOVED
MBH NC	1,000 BTU PER HOUR NORMALLY CLOSED		TO BE NEWOVED
NO	NORMALLY OPEN	a 5 (100 % a 5	CONCRETE WALL
OAD OC	OUTSIDE AIR DAMPER ON CENTER		INSULATED DUCT
ORD-1	OVERFLOW ROOF DRAIN	******** ****************************	MODENTED DOCT
OSA PSI	OUTSIDE AIR POUNDS PER SQUARE INCH	а В	MANUAL BUTTERFLY DAMPER
RA	RETURN AIR	h	
RD-1 RG	ROOF DRAIN RETURN GRILLE	\$	FLEXIBLE DUCT
RL	ROOF DRAIN LEADER	100	AIR VOLUME
S-1 SA	SINK SUPPLY AIR	9x9	DIFFUSER/GRILLE SIZE
SAT	SUPPLY AIR THERMOSTAT	- -	CEILING RETURN/EXHAUST GRILLE
SD SG	SPLITTER DAMPER SUPPLY GRILLE) -	,
TSP	TOTAL STATIC PRESSURE		CEILING SUPPLY DIFFUSER
TYP V	TYPICAL VENT	F	OLILINO GOLLET DILL'OCEN
WCO	WALL CLEAN OUT	*	DECTANGULAR TO ROUND
WH	WALL HYDRANT	<u>+ +</u>	RECTANGULAR TO ROUND DUCT TRANSITION
			RETURN/EXHAUST DUCT UP, DOWN
		\bowtie	SUPPLY DUCT UP, DOWN

DRAWING INDEX

LINE BREAK

Sheet Number	Sheet Title
M001	SYMBOLS & SCHEDULES
MD201	FIRST FLOOR DEMOLITION - PIPING
MD202	SECOND FLOOR DEMOLITION - PIPING
MD301	FIRST FLOOR DEMOLITION - DUCTWORK
MD302	SECOND FLOOR DEMOLITION - DUCTWORK
M201	FIRST FLOOR PLAN - PIPING
M202	SECOND FLOOR PLAN
M203	VENDOR TEMPORARY RELOCATION PLAN
M301	FIRST FLOOR PLAN - DUCTWORK
M302	SECOND FLOOR DUCTWORK
M401	DETAILS & DIAGRAMS
M501	CONTROLS



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> MAPC PROJECT NO. 10-190 4



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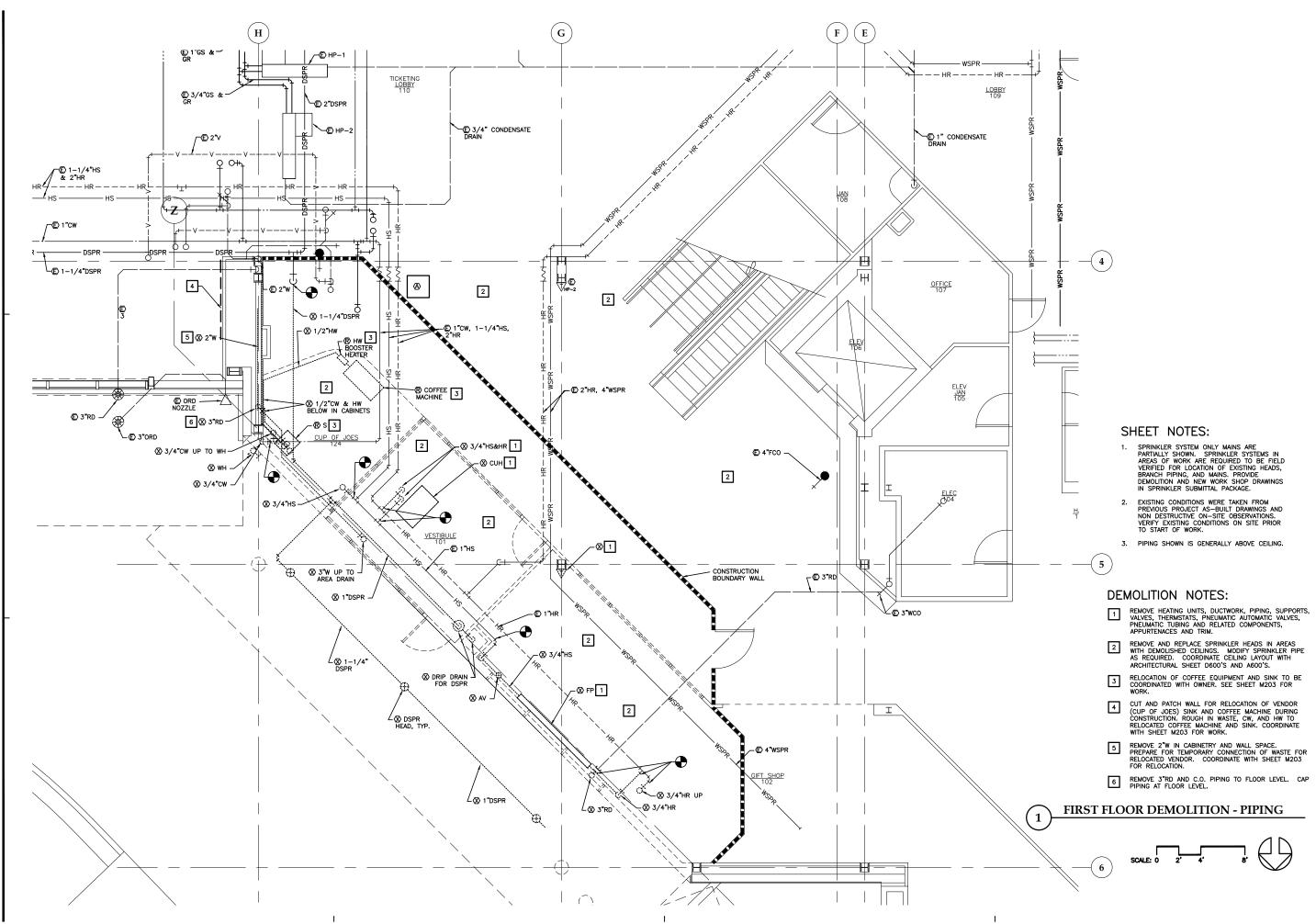
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SHEET TITLE
SYMBOLS &
SCHEDULES

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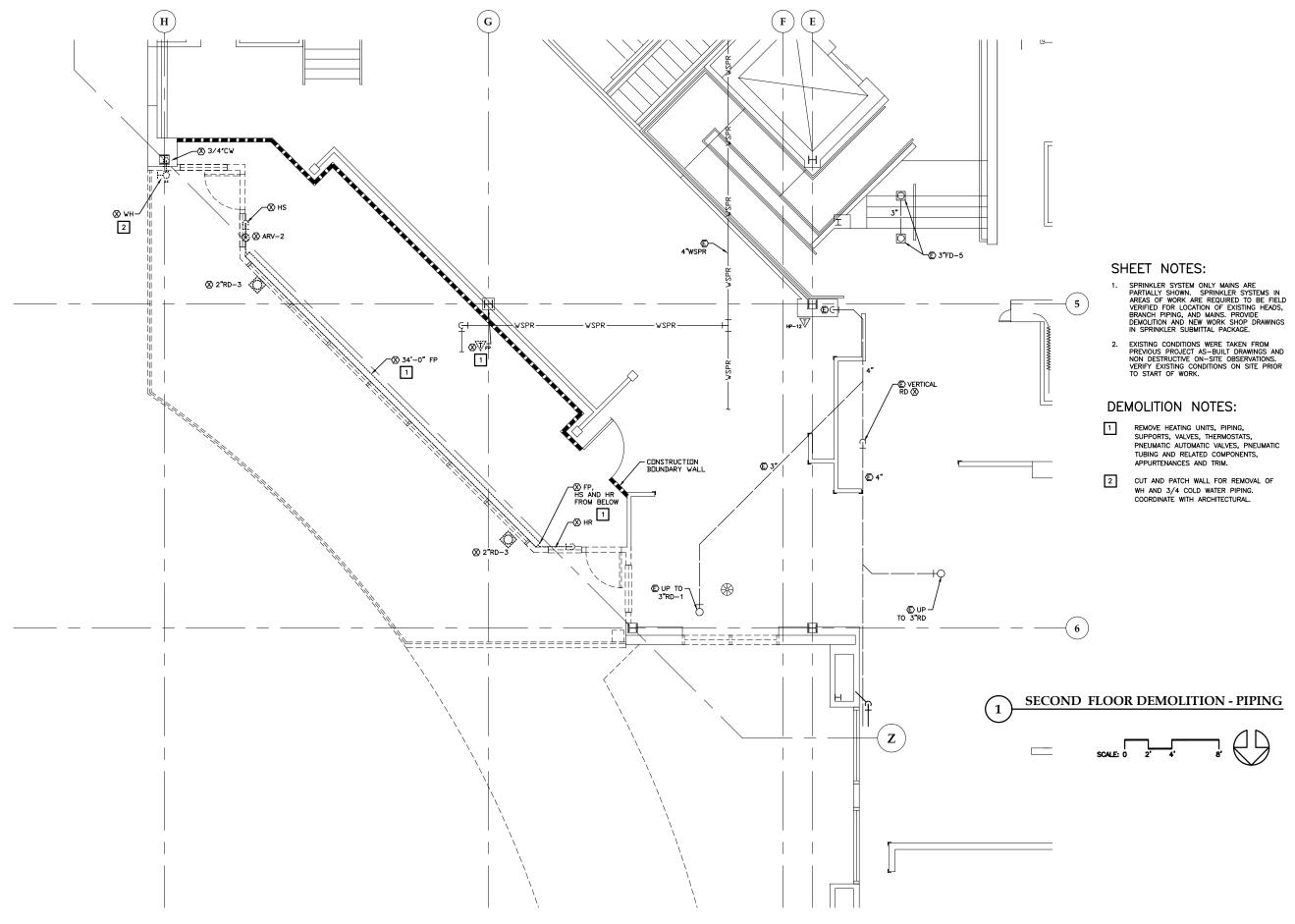


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SHEET TITLE FIRST FLOOR DEMOLITION PIPING

DATE: August 8, 2011 FILE: 0657





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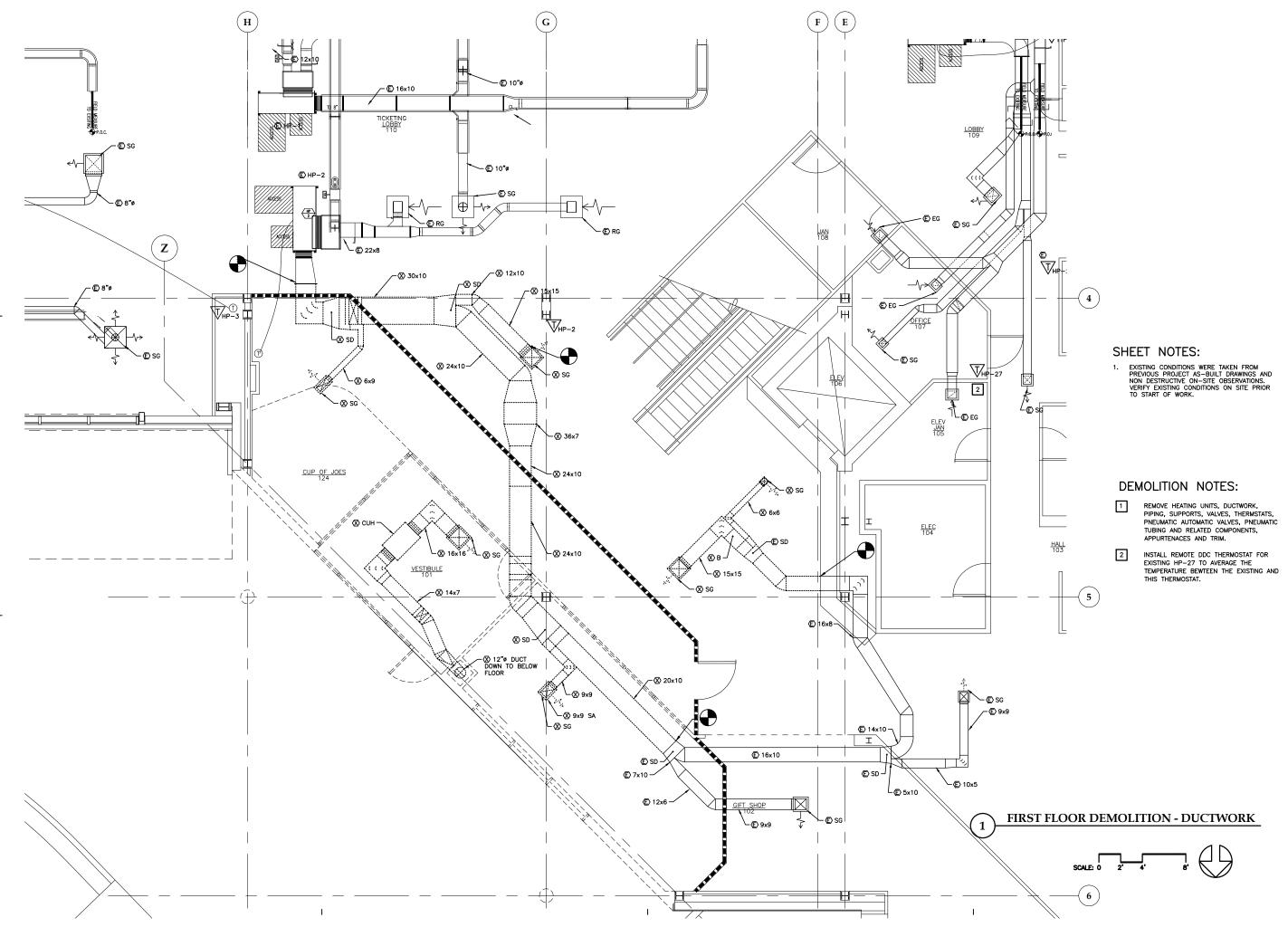
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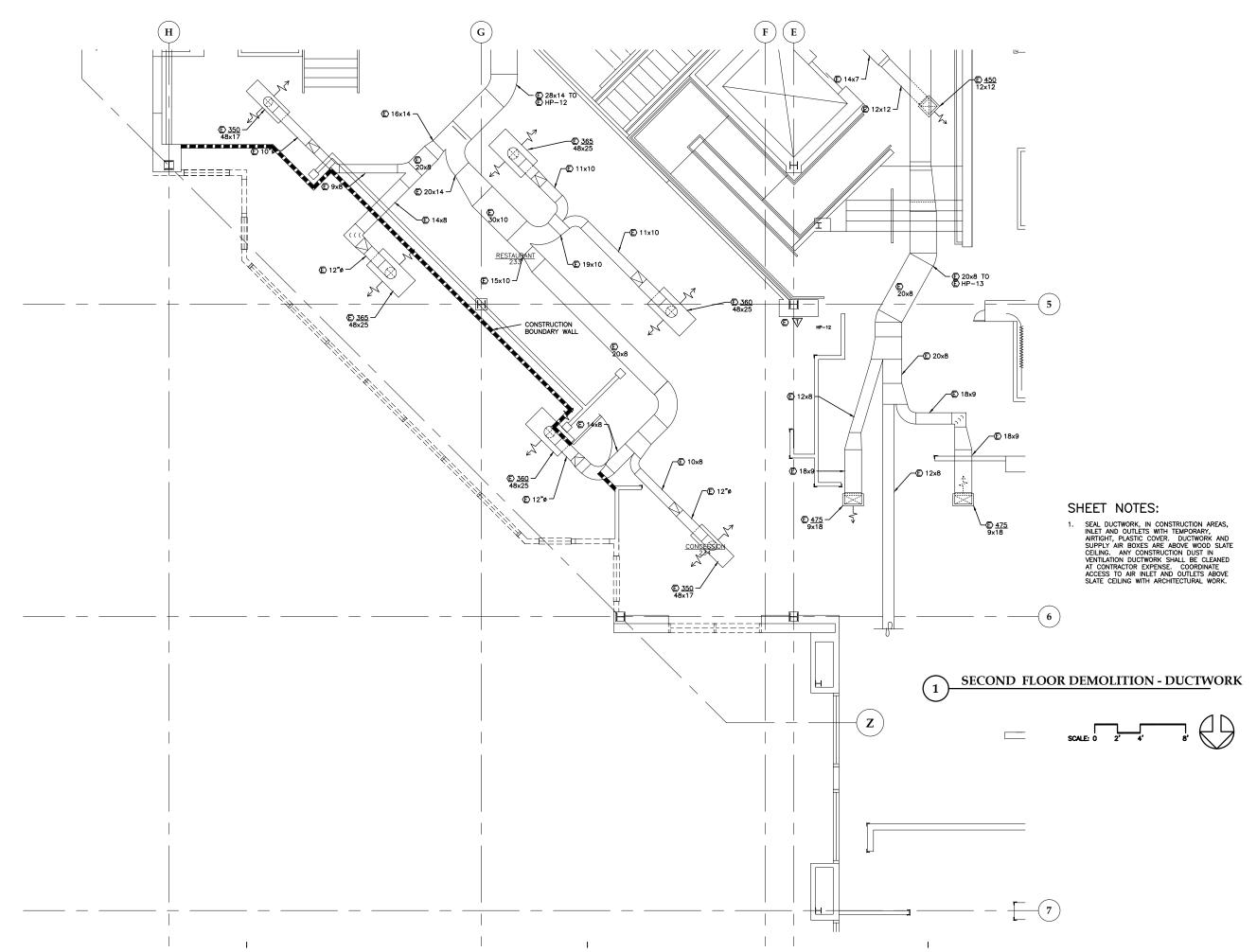


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SHEET TITLE FIRST FLOOR DEMOLITION DUCTWORK

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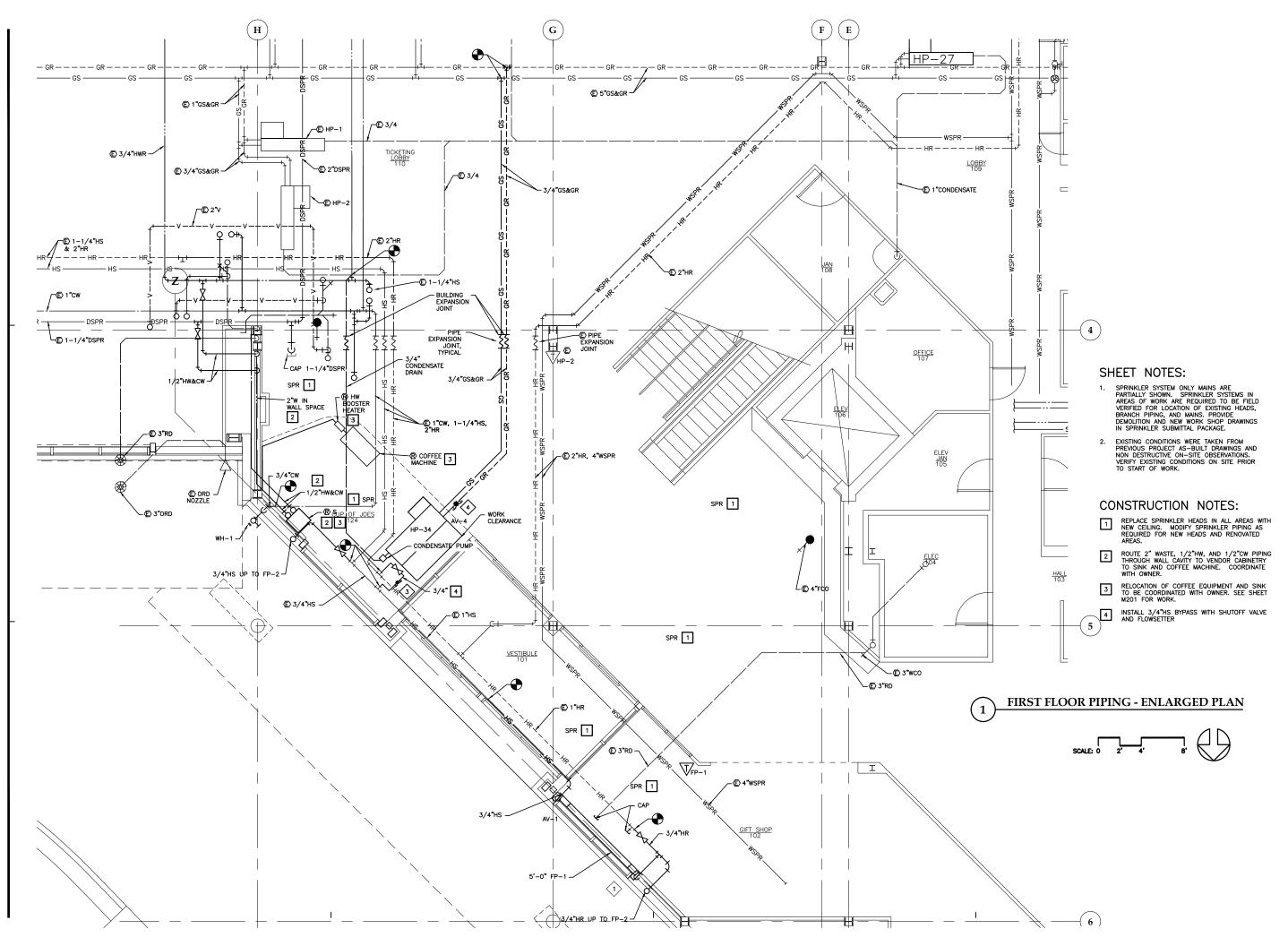
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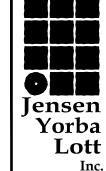
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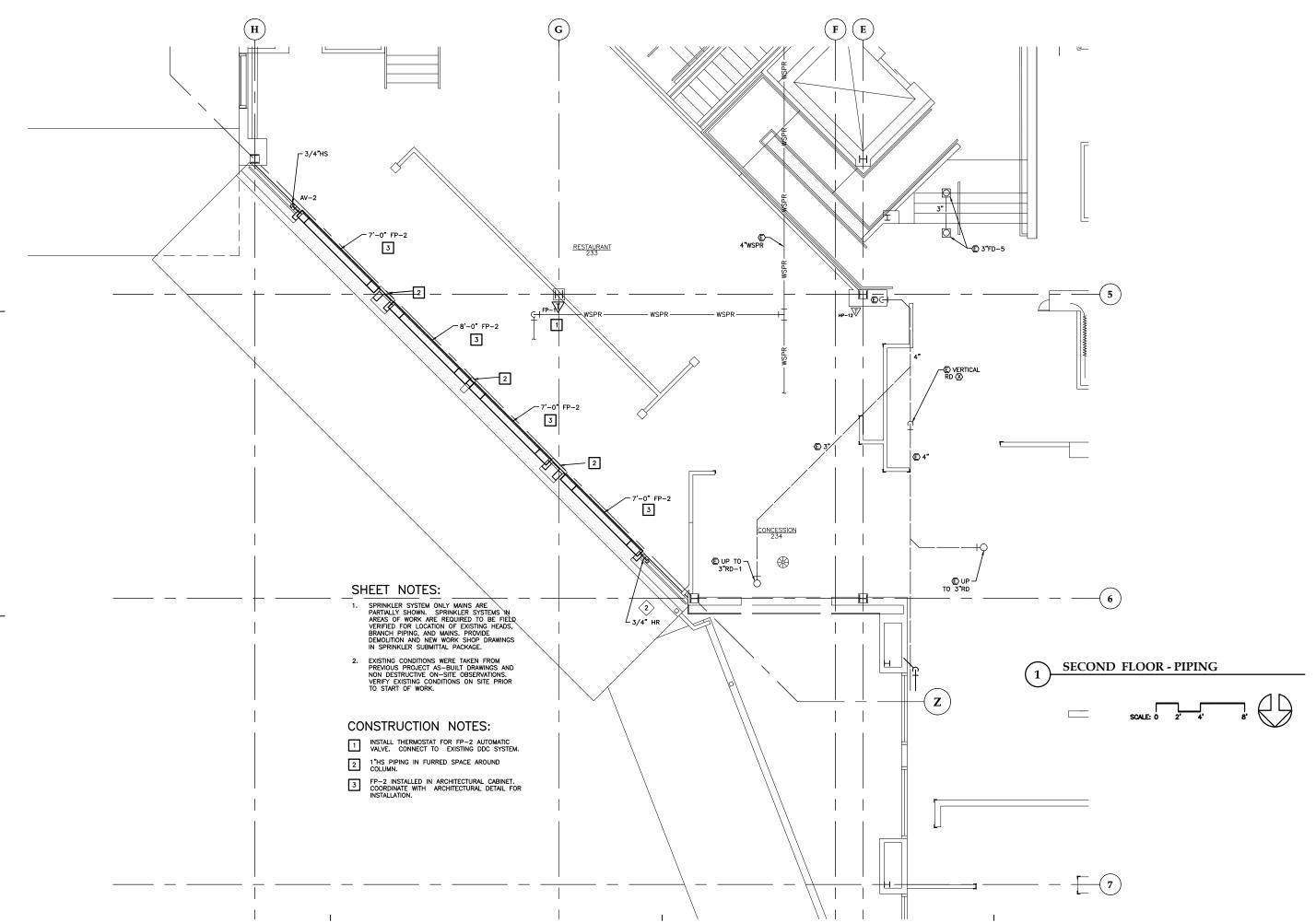
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SHEET TITLE FIRST FLOOR PIPING ENLARGED PLAN

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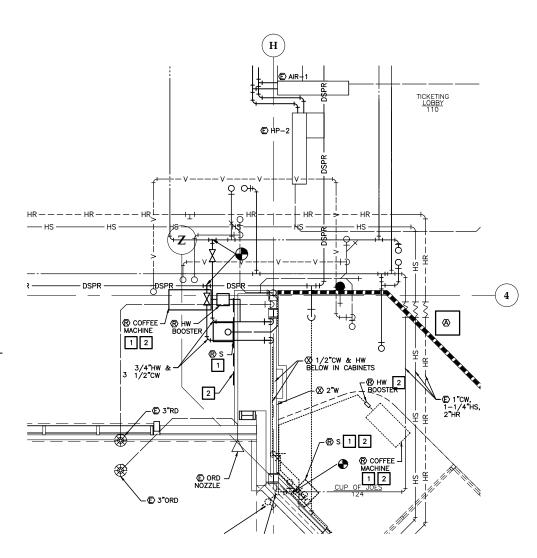
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SHEET TITLE SECOND FLOOR PIPING

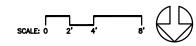
DATE: August 8, 2011

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FILE: 0657



CUP OF JOES



SHEET NOTES;

WORK FOR THIS SHEET IS THE RELOCATION OF COFFEE MACHINE, SINK AND ASSOCIATED W, V, HW, & CW FOR FIXTURES. RELOCATION OF VENDOR IS TO OCCUR BEFORE ENTRY DEMOLISH.

CONSTRUCTION NOTES:

- RELOCATION OF COFFEE EQUIPMENT AND SINK IN CUP OF JOE AREA TO TEMPORARY LOCATION TO BE COORDINATED WITH OWNER.
- CUT AND PATCH WALL FOR RELOCATION OF COFFEE EQUIPMENT AND SINK DURING CONSTRUCTION. ROUCH WASTE, CW AND HW FOR SINK AND COFFEE MACHINE.



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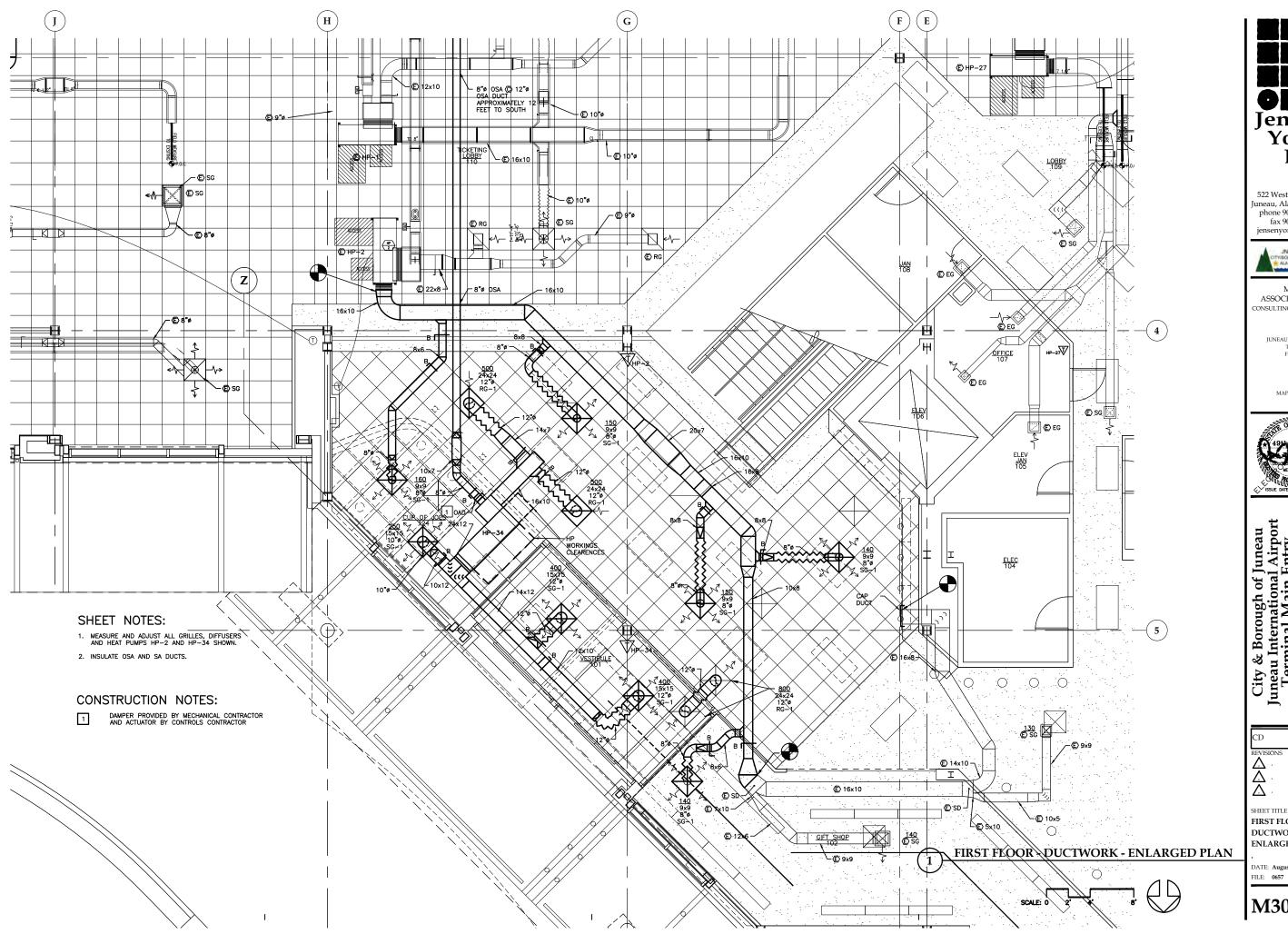
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SHEET TITLE VENDOR TEMPORARY RELOCATION PLAN

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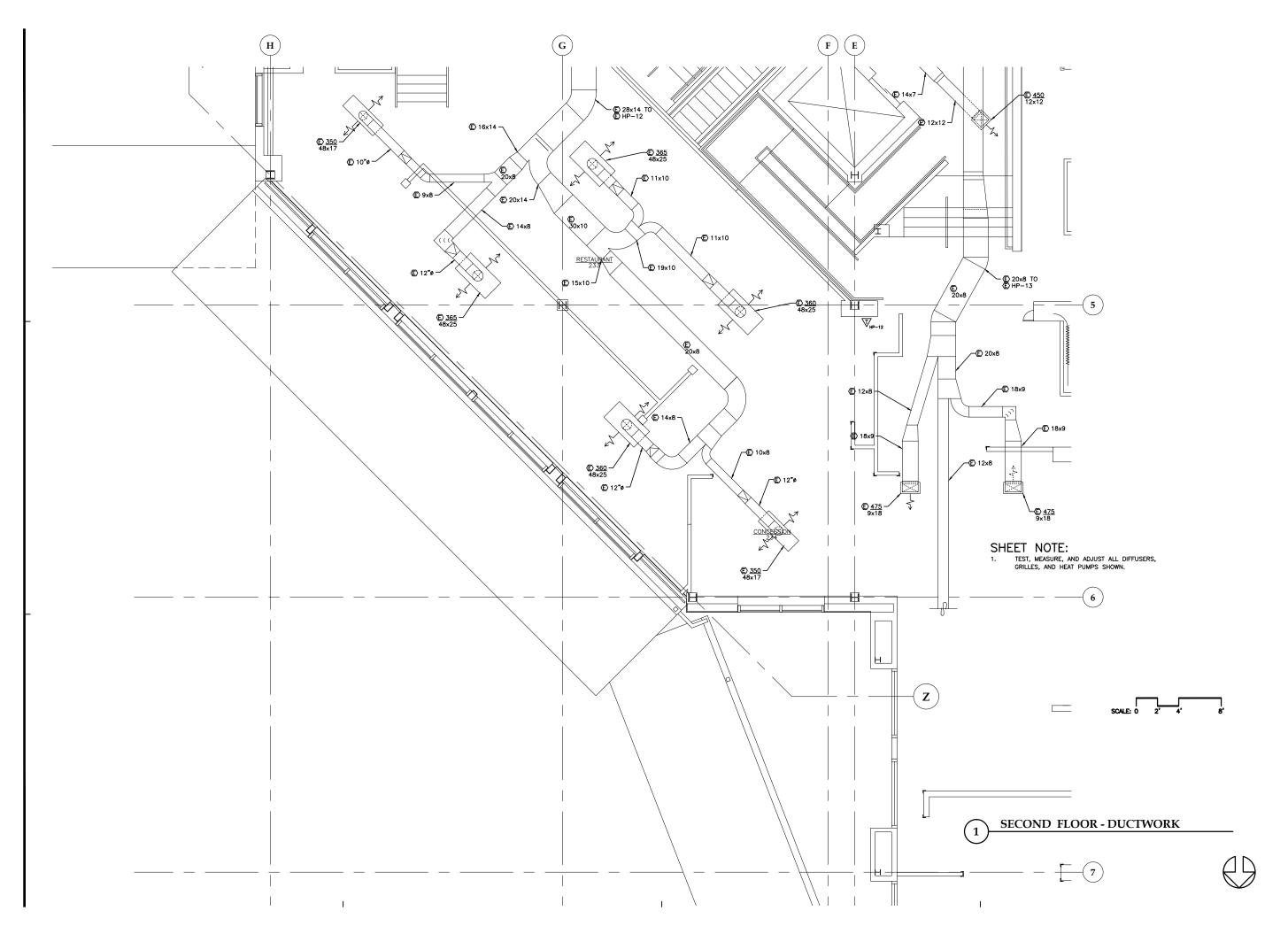
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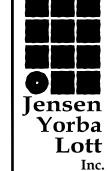
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SHEET TITLE FIRST FLOOR DUCTWORK ENLARGED PLAN

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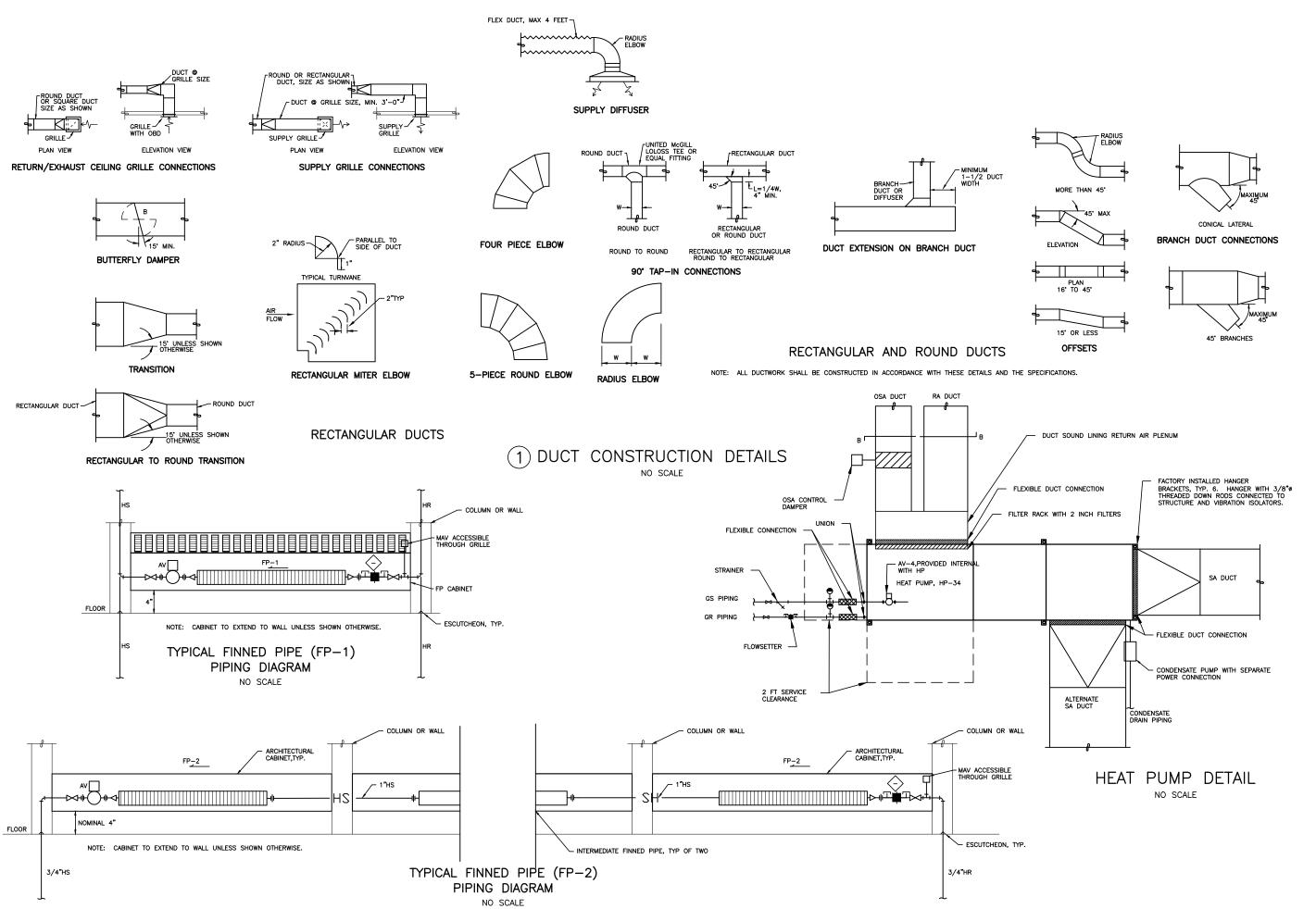
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SHEET TITLE
SECOND FLOOR

DUCTWORK .

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SHEET TITLE
DETAILS &
DIAGRAMS

DATE: **August 8, 2011**FILE: **0657**

CONTROLS LEGEND

C	CONTROLLER		
	IMMERSION THERMOSTAT OR THERMOSTATIC SENSOR	AI AO COM	ANALOG INPUT ANALOG OUTPUT COMMON
VA	VALVE ACTUATOR	DI	DIGITAL INPUT
DA	DAMPER ACTUATOR	DO EAD	DIGITAL OUTPUT EXHAUST AIR DAMPE
cs	CURRENT SENSOR	FP	FINNED PIPE
∇	ROOM THERMOSTAT	HR HS	HEATING RETURN HEATING SUPPLY
`←\-	AIR DIRECTION	NO NC	NORMALLY OPEN NORMALLY CLOSED
Į	THERMOMETER	OAD OSA	OUTSIDE AIR DAMPER
(M)	MOTOR	RA	RETURN AIR
\$	CONTROL SWITCH	SA SF	SUPPLY AIR SUPPLY FAN

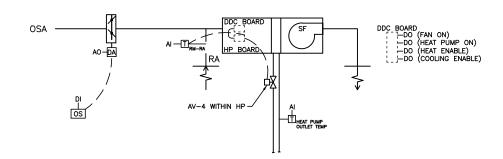
GENERAL NOTES:

- THE NOTES, DIAGRAMS, AND POINTS SHOWN HERE ARE SCHEMATIC ONLY. REFER TO SEQUENCE OF OPERATIONS AND SECTION 15900'S OF THE SPECIFICATIONS AND ALL CONTRACT DRAWINGS FOR COMPLETE REQUIREMENTS AND CONFIGURATION OF THE SYSTEMS. COORDINATE WITH ALL OTHER DISCIPLINES TO ACHIEVE RESULTS AS SHOWN AND INTENDED HEREUNDER IN THE DOCUMENTS. GENERAL NOTES APPLY TO ALL CONTROLS DRAWINGS
- SEE FLOOR PLANS AND PIPING DIAGRAMS FOR RESPECTIVE ROOM THERMOSTAT, IMMERSION THERMOSTAT, AND PRESSURE SWITCH LOCATIONS.
 SEE PLANS FOR OTHER CONTROL EQUIPMENT LOCATIONS. COORDINATE WITH DIVISION 15 AND 16 FOR EQUIPMENT INTERFACE REQUIREMENTS, INCLUDING PIPING TEES AND WELLS, SENSOR LOCATIONS, AND INTERCONNECTIONS.
- LISTED IN ALL SUBMITTAL DATA, O&M DATA, AND AS-BUILTS, AS SHOWN
- ALL SYSTEMS ABBREVIATIONS, FUNCTIONS, AND EQUIPMENT NAMES SHALL BE
- SEE DIVISION 16130 FOR ADDITIONAL REQUIREMENTS CONCERNING RACEWAYS

AI V FP CONTROL DIAGRAM

HP-34 WATER TO AIR

NO SCALE



CONTROL SCHEMATIC WATER TO AIR HEAT PUMP NO SCALE

SEQUENCE OF OPERATIONS:

- HEAT PUMP (HP) SYSTEM CONTROLS: PROVIDE AN OCCUPIED/UNOCCUPIED SCHEDULE FOR UNIT OPERATION, COORDINATE SCHEDULE WITH OWNER. IN OCCUPIED MODE HEAT PUMP OUTSIDE AIR DAMPER SHALL POSITION FULL OPEN. HEAT PUMP TO PROVIDE A SUPPLY AIR TEMPERATURE ACCORDING TO RETURN AIR THERMOSTAT AND ADJUSTABLE RESET SCHEDULE. RA TEMPERATURE SET AT ADJUSTABLE 65F WITH SUPPLY AIR AT 65F. AT RA OF 60F SUPPLY AIR TO BE 80F AND MODULATE TO 60F AT SUPPLY AIR AT 70F.
- SOLID STATE CONTROLS SYSTEMS FOR HEAT PUMPS SHALL HAVE THE FOLLOWING FEATURES.
 - ANTI SHORT CYCLE TIME DELAY ON COMPRESSOR OPERATION. RANDOM START ON POWER UP MODE.

 - LOW VOLTAGE PROTECTION

 - HIGH VOLTAGE PROTECTION.
 UNIT SHUTDOWN ON HIGH OR LOW REFRIGERANT PRESSURES.
 - UNIT SHUTDOWN ON HIGH OR LOW WATER TEMPERATURE.

 - CONDENSATE OVERFLOW ELECTRONIC PROTECTION.
 OPTION TO RESET UNIT AT THERMOSTAT OR DISCONNECT.
 AUTOMATIC INTELLIGENT RESET. UNIT SHALL AUTOMATICALLY RESET THE
 UNIT 5 MINUTES AFTER TRIP IF THE FAULT HAS CLEARED. IF A FAULT
 OCCURS 3 TIMES SEQUENTIALLY WITHOUT THERMOSTAT MEETING TEMPERATURE, THEN LOCKOUT REQUIRING MANUAL RESET WILL OCCUR. ABILITY TO EFEAR TIME DELAYS FOR SERVICING.

 - LIGHT EMITTING DIODE (LED) ON CURCUIT BOARD TO INDICATE HIGH PRESSURE, LOW PRESSURE, LOW VOLTAGE, HIGH VOLTAGE, LOW WATER/AIR TEMPERATURE CUT-OUT, CONDENSATE OVERFLOW, AND
 - CONTROL VOLTAGE STATUS.
 THE LOW-PRESSURE SWITCH SHALL NOT BE MONITORED FOR THE FIRST 120 SECONDS AFTER A COMPRESSOR START COMMAND TO PREVENT NUISANCE ALARMS AND UNIT SHUTDOWN.
 - 2-10V OUTPUT TO CYCLE A MOTORIZED WATER VALVE OR OTHER DEVICE WITH COMPRESSOR CONTACTOR.
 - UNIT PERFORMANCE SENTINEL (UPS). THE UPS WARNS WHEN THE HEAT
 - PUMP IS RUNNING INEFFICIENTLY.
 WATER COIL LOW TEMPERATURE SENSING (SELECTABLE FOR WATER OR
 - ANTI-FREEZE.)
 - AIR COIL LOW TEMPERATURE SENSING. REMOVABLE THERMOSTAT CONNECTOR.

 - NIGHT SETBACK CONTROL. RANDOM START ON RETURN FROM NIGHT SETBACK.

 - MINIMIZED REVERSING VALVE OPERATION.

 OVERRIDE TEMPERATURE CONTROL WITH 2 HOUR (ADJUSTABLE) TIMER FRO
 - ROOM OCCUPANT TO OVERRIDE SETBACK TEMPERATURE AT THE THERMOSTAT. DRY CONTRACT NIGHT SETBACK OUTPUT TO DIGITAL NIGHT SETBACK

 - ABILITY TO WORK WITH HEAT PUMP OR HEAT/COOL TYPE THERMOSTATS. ABILITY TO WORK WITH HEAT PUMP THERMOSTATS USING REVERING VALVE
 - CONTROL

 - EMERGENCY SHUTDOWN CONTACTS.

 BOILERLESS SYSTEM HEAT CONTROL AT LOW LOOP WATER TEMPERATURE.

 ABILITY TO ALLOW UP TO THREE UNITS TO BE CONTROLLED BY ONE THERMOSTAT

 - RELAY TO OPERATE AN EXTERNAL DAMPER.

 ABILITY TO AUTOMATICALLY CHANGE FAN SPEED FROM MULTISTAGE
 - RELAY TO START SYSTEM PUMP. ad.
 - 75 VA CONTROL TRANSFORMER.
 - 75 VA CONTROL TRANSFORMER.
 PROVIDE MULTIPLE PROTOCOL CONTROL INTERFACE SYSTEM. COORDINATE WITH BAS SYSTEM AND OPTIONS AVAILABLE FROM HEAT PUMP MANUFACTURER.
- THE FOLLOWING POINTS MUST BE AVAILABLE AT A CONTROL OR REMOTE COMPUTER
 - SPACE TEMPERATURE
 - LEAVING WATER TEMPERATURE SUPPLY AIR TEMPERATURE
 - COMMAND OF SPACE TEMPERATURE SET POINTS COOLING STATUS

aa.

- HEATING STATUS LOW TEMPERATURE SENSOR ALARM
- LOW PRESSURE SENSOR ALARM HIGH PRESSURE SWITCH ALARM
- CONDENSATE OVERFLOW ALARM HIGH/LOW VOLTAGE ALARM
- UNOCCUPIED/OCCUPIED COMMAND COOLING COMMAND
- HEATING COMMAND FAULT RESET COMMAND
- ITEMIZED FAULT CODES (MINIMUM OF 7).
- FINNED PIPE CONTROL (FP): RESPECTIVE ROOM THERMOSTAT, SET AT AN ADJUSTABLE 68'F TO OPEN FINNED PIPE AUTOMATIC VALVES TO SUPPLY HEAT TO INDIVIDUAL ROOMS AS NEEDED. NORMALLY OPEN AUTOMATIC VALVES OPEN ON FAILURE OF CONTROL POWER.



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SHEET TITLE CONTROLS

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