ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BAS	BUILDING AUTOMATION SYSTEM
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
COR	CONTRACTING OFFICER'S REPRESENTATIVE
Db	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROLS
EAT	ENTERING AIR TEMPERATURE
ECC	ENGINEERING CONTROL CENTER
ETC	ETCETERA
F	FAHRENHEIT
HP	HORSEPOWER
HVAC	HEATING VENTILATING AND AIR CONDITIONING
IT	CURRENT TRANSMITTER
LAT	LEAVING AIR TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTU/HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MOCP	MINIMUM OVERCURRENT PROTECTION
N/A	NOT APPLICABLE
NO	NUMBER
OSA	OUTSIDE AIR
REFRIG	REFRIGERANT
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SSAH	SPLIT SYSTEM AIR HANDLER
SSCU	SPLIT SYSTEM CONDENSING UNIT
SST	START/STOP
TEMP	TEMPERATURE
TT	TEMPERATURE TRANSMITTER
VAV	VARIABLE AIR VOLUME

GENERAL NOTES

1. COORDINATE ALL WORK WITH EXISTING CONDITIONS, ALL OTHER TRADES, AND IN ACCORDANCE WITH ALL STATE, LOCAL AND NATIONAL CODES, AS WELL AS WITH ALL FEDERAL HEALTHCARE REGULATIONS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES, PERMITS AND LICENSES FOR THE COMPLETE INSTALLATION OF THEIR WORK.
3. CONTRACTOR SHALL VISIT AND EXAMINE THE SITE PRIOR TO SUBMITTING BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS.
4. BEFORE ANY WORK IS STARTED, THE CONTRACTOR SHALL MAKE A THOROUGH SURVEY WITH THE COR OF THE AREAS IN WHICH ALTERATIONS OCCUR AND AREAS WHICH ARE ANTICIPATED ROUTES OF ACCESS, AND FURNISH A DETAILED REPORT. REPORT SHALL BE SIGNED BY BOTH COR AND THE CONTRACTOR, AND SHALL BE PROVIDED TO THE CONTRACTING OFFICER.
5. ALL NEW HVAC EQUIPMENT AND DDC CONTROLS SHALL CONNECTED TO, AND FULLY INTEGRATED WITH, THE EXISTING DDC SYSTEM.
6. CARE SHOULD BE TAKEN BY CONTRACTOR TO AVOID DAMAGING OR DISTURBING EXISTING CONSTRUCTION THAT IS TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ANY REPAIRS NECESSARY TO RECTIFY DAMAGE AND RESTORE EXISTING CONSTRUCTION TO UNDAMAGED STATE UPON COMPLETION OF WORK AT NO EXPENSE TO OWNER.
7. ALL NEW DEVICES, EQUIPMENT, CONTROLS, ETC. (INCLUDING, BUT NOT LIMITED TO: AHU'S, COILS, AND VALVES, ETC.) SHALL BE TESTED AND BALANCED AS PART OF THIS WORK.
8. ALL PIPING RUNS SHOWN ARE REPRESENTATIVE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONDITIONS IN THE FIELD (EXISTING, OR PREDICATED BY LOCATION OF NEW EQUIPMENT) THAT MAKE NECESSARY ALTERNATE ROUTING OF PIPING.
9. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL AND CONTROLS CONTRACTORS TO PROVIDE POWER CONNECTIONS TO EXISTING BMS FOR ALL EQUIPMENT. ALL CONTROLS SHALL BE DDC.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING (PATCHING, SEALING, FIRE-STOPPING, ETC.) ANY NEW PENETRATIONS CREATED DURING THE COURSE OF WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY ARCHITECTURAL WORK (INCLUDING, BUT NOT LIMITED TO: PAINT) THAT IS DAMAGED, DISTURBED, OR REMOVED INCIDENTAL TO THIS WORK.
12. MECHANICAL CONTRACTOR IS TO REMOVE ALL SCRAP EQUIPMENT AND MATERIALS. NO ADDITIONAL WALLS, CEILING, ETC. BEYOND THOSE SHOWN IN THIS PROJECT ARE NECESSARY FOR REMOVAL OF EQUIPMENT, PIPING, CONDUIT AND WIRING
13. PROVIDE UNIONS IN PIPING AT ALL NEW AND REPLACED EQUIPMENT TO ALLOW FOR FUTURE REMOVAL.
14. REFRIGERANT PIPING AND ACCESSORIES SHALL BE INSTALLED AND INSULATED PER MANUFACTURER'S INSTRUCTIONS.

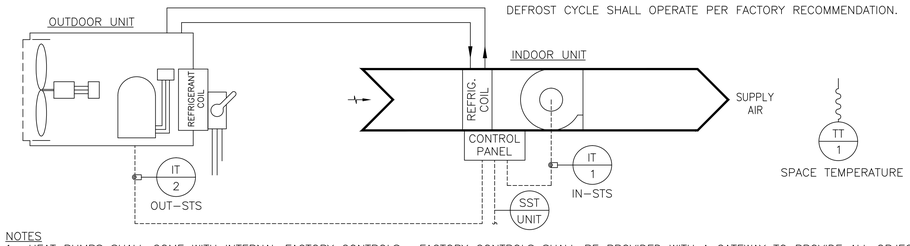
SEQUENCE OF OPERATION

SPLIT SYSTEM – AIR CONDITIONING UNIT

DURING COOLING MODE: THE FAN SHALL STAGE THE COOLING CYCLE TO MAINTAIN SPACE TEMPERATURE 75°F (ADJUSTABLE) 24 HOURS/DAY.

DURING HEATING MODE: THE FAN SHALL STAGE THE HEATING CYCLE TO MAINTAIN SPACE TEMPERATURE 70°F (ADJUSTABLE) 24 HOURS/DAY.

DEFROST CYCLE SHALL OPERATE PER FACTORY RECOMMENDATION.



NOTES
1. HEAT PUMPS SHALL COME WITH INTERNAL FACTORY CONTROLS. FACTORY CONTROLS SHALL BE PROVIDED WITH A GATEWAY TO PROVIDE ALL OBJECT PROPERTIES AND READ/WRITE ABILITY VIA ECC.
2. THE SYSTEM SHALL BE ABLE TO OPERATE UNDER STAND-ALONE MODE. MECHANICAL CONTRACTOR SHALL PROVIDE CONTROLLERS FOR THE SYSTEM. IN THE EVENT OF A NETWORK COMMUNICATION FAILURE, OR THE LOSS OF ANY OTHER CONTROLLER, THE CONTROL SYSTEM SHALL CONTINUE TO OPERATE INDEPENDENTLY. FAILURE OF THE ECC SHALL HAVE NO EFFECT ON THE FIELD CONTROLLERS, INCLUDING THOSE INVOLVED WITH GLOBAL STRATEGIES.

JOB: 521-14-112
BUILDING: –

POINT LEGEND | SYSTEM OUTPUTS: BINARY, ANALOG | SYSTEM INPUTS: BINARY, ANALOG | SYSTEM SOFTWARE/CONTROL: ALARM PROCESSING, APPLICATION/FUNCTION | PAGE:

SYSTEMS: SPLIT SYSTEMS / SYSTEM COMPONENT:	POINT ID	ABBREVIATION	PRIORITY ADD-ALTERNATE NO.	DETECTOR DEVICE	START-STOP	OPEN-CLOSE	SPEED COMMAND	VALVE POSITION	DAMPER POSITION	ALARM	PRESS-ERR	HIGH STATIC PRESSURE	LOW TEMPERATURE	TEMPERATURE	PRESSURE	LUBRICATION	POSITION	FLOW/AIR	PERCENT	STATUS	PRESSURE	CARBON MONOXIDE	LUBRICANT	LOCAL ALARM PANEL	MASTER ALARM PANEL	HIGH LIMIT	LOW LIMIT	SCHEDULING START/STOP	DURATION	DUTY CYCLE	TEMPERATURE ECONOMIZER	ENTHALPY ECONOMIZER	TEMPERATURE RESET	TEMPERATURE LIMITS	HUMIDITY LIMITS	STATIC PRESSURE RESET	OCCUPIED/UNOCCUPIED	PRESSURE/VOLUME CONTROL	SPACE TEMPERATURE	SPACE TEMPERATURE CONTROL	SPACE HUMIDITY CONTROL	TREND READINGS	REMARKS
SPACE TEMPERATURE	AI–1	TT–1												●											●	●	●										●		OUTPUT TO BAS
INDOOR UNIT STATUS	DI–1	IN–STS (IT–1)									●	●																												OUTPUT TO BAS
OUTDOOR UNIT STATUS	DI–2	OUT–STS (IT–2)									●	●																												OUTPUT TO BAS
UNIT ENABLE (START/STOP)	DO–1	SST–UNIT		●																																			OUTPUT TO BAS

C6 SPLIT SYSTEM – AIR CONDITIONING UNITS
SCALE: NONE

CONTROLS SYMBOLS

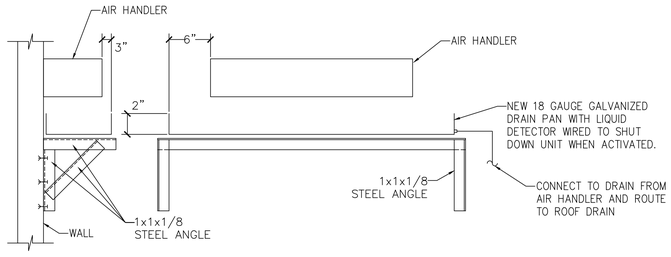
- (T) ROOM THERMOSTAT – WALL MOUNT
- (XX / XX) CONTROL SYSTEM COMPONENT
- CONTROL SYSTEM COMPONENT DESIGNATION EX=EXISTING, #=COMPONENT TAG
- (TT) TEMPERATURE TRANSMITTER
- (IT) CURRENT TRANSMITTER
- (SST) START/STOP

PIPING SYMBOLS

- R REFRIGERANT PIPING
- D DRAIN PIPING

GENERAL SYMBOLS

- C PIPE TURNING DOWN



E3 SECONDARY DRAIN PAN INSTALLATION DETAIL
SCALE: NONE

DUCTLESS SPLIT SYSTEM AIR CONDITIONER SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	TOTAL SUPPLY AIRFLOW (CFM)	MIN OUTSIDE AIRFLOW (CFM)	COOLING CAPACITY: MIN TOTAL CAPACITY (MBH)	COOLING CAPACITY: MIN SEER	COOLING CAPACITY: EAT Db (°F)	COOLING CAPACITY: LAT Db (°F)	COOLING CAPACITY: OSA DESIGN TEMP (°F)	HEATING CAPACITY: MIN. HEAT CAPACITY (MBH)	HEATING CAPACITY: EAT Db (°F)	HEATING CAPACITY: LAT Db (°F)	HEATING CAPACITY: OSA DESIGN TEMP (°F)	ELECTRICAL DATA: INDOOR UNIT MCA	ELECTRICAL DATA: OUTDOOR UNIT MCA	ELECTRICAL DATA: OUTDOOR UNIT MOCP	ELECTRICAL DATA: OUTDOOR UNIT PHASE	ELECTRICAL DATA: OUTDOOR UNIT VOLT	ELECTRICAL DATA: OUTDOOR UNIT EMERGENCY POWER	REMARKS
X–SSAH1/X–SSCU1	ELEVATOR MACHINE ROOM/ 7TH FLOOR ROOF	ELEVATOR MACHINE	WALL MOUNTED	735	0	22.5	19.0	77	58	95	27.6	68	105	19	1.0	17.1	20	1	208	YES	ALL

REMARKS
1. PROVIDE REMOTE 24-VOLT THERMOSTAT FOR WALL-MOUNTING.
2. STARTER IS PROVIDED INTEGRAL TO EQUIPMENT.
3. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.
4. MECHANICAL CONTRACTOR TO PROVIDE LINE VOLTAGE AND CONTROL WIRING TO AIR HANDLER FROM THE CONDENSING UNIT.
5. PROVIDE MOUNTED AND WIRED CONDENSATE LIFT MECHANISM.
6. INSTALL CONDENSING UNIT ON EQUIPMENT RAILS.
7. LOW AMBIENT CONTROLS.
8. HEAT PUMP.

REVISION NO.	REVISION DESCRIPTION	
Revisions		By Date

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SEAL

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HSH PROJECT # 13015

Recommended Approvals:	
1. MEDICAL DIRECTOR	6. OPERATIONS SERVICE LINE MANAGER
2. ASSOCIATE DIRECTOR	7. INFECTION CONTROL MANAGER
3. CHIEF OF STAFF	8. SAFETY MANAGER
4. ASSOC. DIRECTOR	9. GENERAL ENGINEER
5. SERVICE LINE MGRS.	10. COR

Drawing Title: MECHANICAL LEGEND, NOTES, SCHEDULES, DETAILS & CONTROLS

Project Title: REPLACE ELEVATORS P11 & P12

Date: 6/13/2014
Project Number: 521-14-112

FINAL BID DOCUMENTS
FULLY SPRINKLERED

Drawn: DJB
Checked
Building Number
Reviewed
AutoCAD File Name
Const. Contract No.

DRAWING No. M001

Veterans Affairs