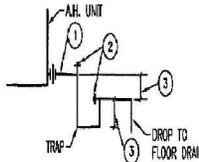


GENERAL NOTES

- THESE NOTES APPLY EQUALLY TO THE FULL SET OF DOCUMENTS.
- INSULATE DUCTWORK AND PIPING WHERE EXISTING INSULATION HAS BEEN DAMAGED AND/OR REMOVED IN THE PERFORMANCE OF WORK IN THIS PROJECT.
- THE CONTRACTORS SHALL REFER TO ALL SPECIFICATION SECTIONS AND THESE DRAWINGS FOR DETAILS OF BUILDING CONSTRUCTION TO ENSURE SPACE AND SATISFACTORY ARRANGEMENTS FOR THEIR WORK. THE VARIOUS DRAWINGS CLEARLY SHOW THE INTERDEPENDENCE AND MUST BE USED JOINTLY AT ALL TIMES. EACH CONTRACTOR SHALL REFER TO THE GENERAL REQUIREMENTS OF THE CONTRACT. THE NOTES AND DIMENSIONS NOTED ON THE DRAWINGS ARE FOR THE QUANTITY OF ALL TRADES INVOLVED IN THE PROJECT AND MUST BE FOLLOWED TO EXECUTE THE WORK AS INTENDED. IF DISCREPANCIES OCCUR, CONTACT THE PROJECT ENGINEER (CONTINUING) THE CONTRACTING OFFICER FOR CLARIFICATION BEFORE PROCEEDING.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS WILL APPLY TO CONTRACTORS WHO ARE NOT BE LIMITED TO NORMAL WORKING HOURS. SEE SPECIFICATIONS FOR MORE SPECIFIC DETAILS ON RESPONSIBILITIES.
- ALL WORK MUST BE COORDINATED WITH THE CONTRACTING OFFICER AND PROJECT ENGINEER (CONTINUING) TO MAINTAIN OPERATION OF THE EXISTING FACILITY.
- EACH CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHERS. HE SHALL KEEP HIMSELF INFORMED OF THE PROGRESS AND DETAILED DEVELOPMENT OF THE WORK OF OTHERS AND SHALL BE RESPONSIBLE FOR COORDINATING AND EXPEDITING HIS WORK WITH OTHERS SO THAT THE PROGRESS OF THE TOTAL WORK SHALL BE STRICTLY SCHEDULED.
- ALL WORK SHALL BE PERFORMED IN COMPLETE COMPLIANCE WITH ALL GOVERNING CODES AND STANDARDS.
- EXISTING CONDITIONS SHOWN HAVE BEEN BASED UPON AVAILABLE DRAWING INFORMATION, AND MAY BE AT VARIANCE WITH ACTUAL WORK IN PLACE. THE CONTRACTOR SHALL TAKE ALL NECESSARY FIELD MEASUREMENTS AND FIELD VERIFY ALL CONDITIONS AFFECTING THE EXECUTION OF THE WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE WORK SHOWN ON THE CONTRACT DOCUMENTS WHICH MAY IMPACT THE PROGRESS OF THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER IN WRITING FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- EACH CONTRACTOR AND/OR TRADE, FITTING OR PLACING HIS WORK IN OR ON THE WORK OF OTHERS DOES SO WITH THE UNDERSTANDING THAT THE INSTALLATION OF HIS WORK CONSTITUTES HIS ACCEPTANCE OF THE SUITABILITY OF THE WORK IN PLACE. IF THE WORK OF OTHERS IS NOT ACCEPTABLE, HE SHALL NOTIFY THE PROJECT ENGINEER (CONTINUING) SUCH WORK SHALL BE CORRECTED. ANY NEW WORK NOT INSTALLED IN UNSUITABLE EXISTING WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR TRADE INSTALLING THE NEW WORK. NO CLAIMS FOR ADDITIONAL COMPENSATION FOR CORRECTING WORK INSTALLED IN UNSUITABLE EXISTING CONDITIONS WILL BE CONSIDERED.
- FREERATINGS OF EXISTING WALL ASSEMBLIES SHALL BE MAINTAINED. ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE PROTECTED AND/OR REFORMED AS REQUIRED TO MAINTAIN EXISTING FIRE-RATING. COORDINATE WITH ALL TRADES TO ENSURE FIRE-RATED PENETRATION REQUIREMENTS AND DETAIL AS SHOWN.
- ANGULAR SPACE OF ALL PIPES, CONDUIT, DUCT & OTHER SIMILAR PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. IN ADDITION, PENETRATIONS THROUGH 4-HOUR RATED WALLS & FLOORS SHALL BE FIRESTOPPED TO RETARD AND PASSAGE OF FIRE & SMOKE.
- ALL PIPING, DUCTS, CONDUITS, ETC. IN FINISHED ROOMS, CORRIDORS, ETC. SHALL BE CONCEALED IN A FINISHED SPACE ON OR ABOVE THE SUSPENDED CEILING.
- THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION ON FACE SHOWN ON INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
- ACCESS PANELS IN NON ACCESSIBLE SUSPENDED CEILING SHALL BE PROVIDED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, FLOW METERS, CONTROLS, ETC.
- TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
- WHERE DUCTS OR PIPES ARE REMOVED THRU WALL THAT IS TO REMAIN, PATCH WALL OPENING TO MATCH EXISTING WHERE OPENING IS NOT RE-USED.
- ALL PRESSURES LISTED ARE GAGE PRESSURE UNLESS OTHERWISE NOTED.
- ALL CUTTING AND PATCHING REQUIRED FOR THIS PROJECT SHALL BE INCLUDED IN THE CONTRACT. REFINISH ANY SURFACE DISTURBED UNDER THE WORK TO MATCH EXISTING.
- IN GENERAL, KEEP DUCT AND PIPING MANS NEXT TO UNDERSIDE OF STRUCTURE.
- ANY REMOVED EQUIPMENT SHALL BE TURNED OVER TO THE VA. ITEMS NOT DESIRED BY THE VA SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF PROPERLY BY THE CONTRACTOR. RECYCLE ITEMS AND KEEP RECORD PER SPECIFICATIONS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE CONTRACT DRAWINGS ARE NOT INTENDED TO SHOW EVERY VERTICAL OR HORIZONTAL OFFSET WHICH MAY BE NECESSARY TO COMPLETE THE SYSTEMS. COORDINATE WORK IN ADVANCE WITH ALL OTHER TRADES AND REPORT IMMEDIATELY ANY DIFFICULTIES WHICH CAN BE ANTICIPATED.
- FIELD VERIFY EXISTING CONDITIONS, INCLUDING DUCT, PIPE AND EQUIPMENT SIZES, SERVICES AND LOCATIONS PRIOR TO PERFORMING WORK.
- ALL ABANDONED EXTRANEOUS PIPING, DUCTWORK, SUPPORTS, CONTROLS, ETC. SHALL BE REMOVED.
- TERMINATE PIPING AND DUCTWORK ABOVE GELING, ETC., IN CONCEALED SPACES. ALL CUTTING AND PATCHING SHALL MATCH EXISTING FINISHES.
- WHERE CONTROL DEVICES ARE REMOVED, PNEUMATIC LINES SHALL BE REMOVED BACK TO MAIN AND CAPPED, AND CONTROL WIRING AND CONDUIT SHALL BE REMOVED BACK TO SOURCE.
- ALL EXISTING DUCTWORK, PIPING, EQUIPMENT, CONTROLS, ETC. SHOWN DAMAGED SHALL BE REMOVED. THE MAJORITY OF WORK TO BE REMOVED IS SHOWN. REMOVE ALL INCIDENTAL, ABANDONED DUCTWORK, PIPING, ETC. THAT MAY NOT BE SHOWN BUT IS ASSOCIATED WITH THE REMOVAL WORK.
- ALL ITEMS THAT REQUIRE ACCESS, SUCH AS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE BY PERSONS STANDING AT FLOOR LEVEL, OR STANDING ON PERMANENT PLATFORMS, WITHOUT THE USE OF PORTABLE LADDERS. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS AND STRAINERS, TRANSMITTERS, CONTROL DEVICES, ETC.
- WHERE EXISTING HVAC UTILITIES IN SERVICE WILL BE DISRUPTED DURING THE CONSTRUCTION OF THIS PROJECT, THIS WORK SHALL BE LIMITED TO ONE UNIT AT A TIME AND KEPT TO WITHIN A ONE WEEK PERIOD. DOWNTIME SHALL BE KEPT TO A MINIMUM, AND SHALL BE COORDINATED AND SCHEDULED WELL IN ADVANCE WITH THE PROJECT ENGINEER (CONTINUING).
- WHEN NEW SUPPLY AND RETURN AIR DUCTS BE CONNECTED TO EXISTING DUCTWORK, CLEAN BOTH NEW AND EXISTING DUCTWORK BY MOPPING AND VACUUM CLEANING INSIDE AND OUTSIDE BEFORE OPERATION. PROVIDE EVIDENCE OF CLEANING TO ODR.
- APPROXIMATE ELEVATIONS NOTED ARE TO THE CENTER OF THE PIPE/DUCT.

SYMBOL SCHEDULE			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
①	REMOVING EX. CLING TAPE & STRIPS	NC	NON-FRAME CONDUIT
②	DRIP TRAP	CC	CONDENSATE COLLECTION
③	TRAP	CR	CORRODED RAIN WATER
④	TRAP	CC	CONDENSATE COLLECTION
⑤	TRAP	CC	CONDENSATE COLLECTION
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1. DRAIN PIPE SAME SIZE AS UNIT DRAIN PAN CONNECTION.
2. TEE WITH CLEANOUT PLUG.
3. 4" MINIMUM - CENTERLINE TO CENTERLINE.
4. CENTERLINE DIMENSION NOT LESS THAN SUPPLY FAN T.S.P. (INCH W.G.) + 2".

AIR HANDLING UNIT DRAIN PIPING
 SUSPENDED UNIT
 SCALE: NONE

Furnace-Natural Gas						
Unit	Area served	Input MBTH	Output MBTU	Blower motor HP	Electrical Service Amps	Notes
FUR-1	Ste. 1-6	120	117	1	19.1	115/60/1 1, 2
FUR-2	Ste. 7-12	120	117	1	19.1	115/60/1 1, 2
FUR-3	1st Flr East	120	117	1	19.1	115/60/1 1, 2
FUR-4	1st Flr West	120	117	1	19.1	115/60/1 1, 2

1. Provide humidifier designed for furnace 2. Provide six zone controller

Heat Pump							SEER	HSPF	Sound dBA	Power	Notes
Unit	Area served	CFM	Cooling Capacity BTU	Electrical MCA	CKT Breaker Amps						
CU-1	Ste. 1-6	1525	60,000	208/230/60/1	38.7		60	18		69	1, 2
CU-2	Ste. 7-12	2150	60,000	208/230/60/1	38.7		60	18		69	1, 2
CU-3	1st Flr East	1730	60,000	208/230/60/1	38.7		60	18		69	1, 2
CU-4	1st Flr West	2030	48,000	208/230/60/1	29.2		40	18		69	1, 2

1. Refrigerant Piping to be sized per manufacturer recommendation but vapor line not to be less than 1 1/8" OD
 2. Provide with Low Ambient Kit, Matched Evaporator Coil, and Hi/Lo Pressure Switch

Drawing Title Fisher House HVAC	Project Title SPACE UTILIZATION	Date 5/25/16	 Department of Veterans Affairs
		064-R	
NOTES & SCHEDULES	Building Number 016	H-1	