



GENERAL NOTES

1. PROTECT EXISTING WALL SURFACES AND SYSTEMS (PLUMBING, MECHANICAL, ELECTRICAL) TO REMAIN, FROM DAMAGE DUE TO PROJECT WORK. PATCH, REFINISH AND RESTORE DAMAGED SURFACES AND SYSTEMS TO MATCH CONDITION PRIOR TO CONSTRUCTION (TYPICAL, AND TO MATCH ADJACENT SURFACES).
2. OWNER SHALL REMOVE ALL PERSONAL EFFECTS PRIOR TO CONSTRUCTION; CONTRACTOR SHALL PARTICIPATE IN PRE-CONSTRUCTION SURVEY WITH OWNER.
3. UNLESS NOTED OTHERWISE, THE EXISTING STRUCTURAL COLUMNS, BEAMS, WALLS AND FLOOR FRAMING SHALL REMAIN INTACT AND BE UNDISTURBED.
4. WHERE INCIDENTAL WORK IS REQUIRED TO ACCOMPLISH WORK SHOWN ON THE DRAWINGS, THIS WORK IS IMPLIED AND SHALL BE INCLUDED AS PART OF THE BASE BID.
5. CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE WELLNESS OF STRUCTURES AND GROUNDS NOT SPECIFIED WITHIN THE CONTRACT BUT WHICH COULD BE DAMAGED BY CONSTRUCTION. ITEMS THAT CAN BE DAMAGED INCLUDE BUT ARE NOT LIMITED TO SIDEWALKS, CURBS, GRASS (RUTS, CONTAMINATION FROM CHEMICAL SPILLS) AND DAMAGE NOT PRESENT AT THE INITIAL PRE-CONSTRUCTION WALK-THRU.
6. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO (2) HARD COPIES OF OPERATING AND SERVICE MANUALS FOR EACH MECHANICAL, ELECTRICAL, ELECTRONIC, HVAC, OR OTHER EQUIPMENT INSTALLED AS PART OF THE PROJECT.
7. THE CONTRACTOR SHALL RECEIVE ALL DELIVERIES OF MATERIALS, EQUIPMENT, TOOLS, OR OTHER GOODS OFF OF STATION, AND BRING THEM TO THE JOB SITE. THE BATH VA SHALL NOT ACCEPT DELIVERIES FOR PROJECT PURPOSES.
8. AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COMPLETELY CLEAN ALL SURFACES OF CONSTRUCTION DEBRIS. SURFACES SHALL BE WIRED CLEAN OF DUST, INCLUDING FIXTURES, WINDOW SILLS, DOOR FRAMES, ETC. ANY TOILETS OR SINKS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY CLEANED AFTER THE CONSTRUCTION HAS BEEN COMPLETED USING NATURAL CLEANSER.
9. THE CONTRACTOR SHALL PROVIDE MANUALS AND TRAINING PER SPECIFICATIONS.

NOTES:
PROJECT SPECIFICATIONS:

- FURNISH AND COMPLETELY INSTALL ONE (1) R-410A 60 TON AIR COOLED CHILLER COMPARABLE IN PERFORMANCE TO THE EXISTING BOHN CHILLER AT BUILDING 24.
- ELAPSED TIME INDICATOR FOR EACH COMPRESSOR STAGE TO BE MOUNTED INSIDE A WEATHER-PROOF CENTRAL CONTROL CABINET.
- CONTRACTOR SHALL BE RESPONSIBLE TO RECOVER/RECLAIM THE EXIST. R-22 REFRIGERANT AND REFRIGERANT OIL FROM EXISTING CHILLER. THESE FLUIDS SHALL BE TURNED OVER TO THE BATH VA.
- DRAIN AND DEMO CHILLED WATER PIPING FROM EXISTING CHILLER.
- DEMO ELECTRICAL FROM EXISTING CHILLER (BOTH POWER AND CONTROLS).
- PROVIDE ALL RIGGING AND CRANE FOR REMOVAL OF EXISTING CHILLER. PROPERLY DISPOSE OF EXISTING CHILLER OFFSITE.
- PROVIDE ALL LABOR, PIPING REFRIGERANT, MATERIALS, AND SUPPORT MATERIALS NEEDED FOR THE NEW SYSTEM INSTALLATION.
- PROVIDE ALL LABOR AND ELECTRICAL MATERIALS NEEDED FOR THE NEW SYSTEM INSTALLATION.
- PROVIDE ALL LABOR AND MATERIALS NEEDED FOR INSULATING ALL CHILLED WATER PIPING.
- THE NEW CHILLER WILL USE ONBOARD MICROPROCESSORS FOR STANDALONE CONTROL.
- PROVIDE FOR FACTORY STARTUP OF THE COMPLETE SYSTEM.
- CLEAN UP WORK AREA AND PROPERLY PROVIDE OFF-SITE DISPOSAL OF CONSTRUCTION DEBRIS.
- PROVIDE CONTROL PACKAGE FOR AUTOMATIC SHUTOFF OF COOLANT ON LOSS OF FLOW.
- RE-USE EXISTING DISCONNECT. PROVIDE AND INSTALL NEW BREAKER AS PART OF WORK.
- IF THE EXISTING PAD IS NOT LARGE ENOUGH TO ACCOMMODATE THE PROPOSED NEW CHILLER, WORK SHALL INCLUDE POURING A NEW PAD TO INCREASE THE SIZE OF THE EXISTING AS REQUIRED.

EXISTING CHILLER SPECIFICATIONS:

- TOTAL COOLING CAPACITY - 60 TONS
- COMPRESSOR - 1 (60 TONS) AIR COOLED
- EVAPORATOR - 120 TONS; 60 GAL WATER STORAGE CAPACITY; MINIMUM FLOW RATE 144 GPM; MAXIMUM FLOW RATE 420 GPM
- CONDENSER - 120 TONS; COIL 2-49.5 INCHES IN HEIGHT BY 200 INCHES IN LENGTH; SUB COOLER 2-7.5 INCHES IN HEIGHT BY 200 INCHES IN LENGTH; TOTAL FACE AREA 158.3 SQUARE FEET; 3 COIL ROWS (EACH)
- CONDENSOR FANS - 3-48INCH PROP; TOTAL CFM 73,200; NOMINAL 610 RPM; TIP SPEED 7,660; 7.5 HP (EACH); BELT DRIVE
- MINIMUM STARTING AMBIENT OPTIONS - STANDARD AMBIENT 25; LOW AMBIENT 0
- ELECTRICAL - 460V/60HZ/3PH
- PAD DIMENSIONAL DATA (APPROXIMATE) - LENGTH 16'-0", WIDTH 9'-0"
- R22 LOAD - APPROXIMATELY 98 POUNDS
- ELECTRICAL CAPACITY - 208/230 @60 HZ
- RLA 205.1 AMPS
- LRA 1228 AMPS
- OIL CHARGE 236 OZ.
- MAX CIRCUIT AMP - 284

Revisions		Date		Drawing Title LAYOUT AND DETAILS		Project Title REPLACE B-24 HVAC CHILLER		Date 7-24-2012	
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