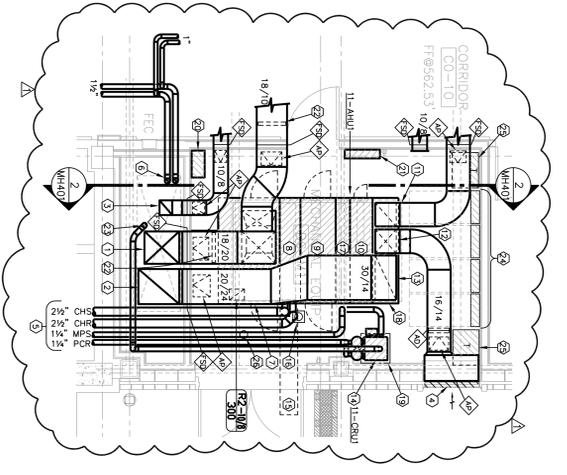


2 SECTION AT 11-AHU-1
SCALE: 1/4" = 1'-0"



1 ENLARGED BASEMENT MECHANICAL ROOM PLAN
SCALE: 1/4" = 1'-0"

KEYED PLAN NOTES

- 18/20 C.A. (PRIMARY AIR) DUCT UP IN CHASE TO THE FIRST FLOOR. RE: SHEET WH01 FOR CONTINUATION OF THE DUCTWORK.
- 20/24 R.A. DUCT DOWN IN CHASE FROM THE FIRST FLOOR. RE: SHEET WH01 FOR CONTINUATION OF THE DUCTWORK.
- 10/8 EXHAUST DUCT UP IN CHASE TO THE FIRST FLOOR. RE: SHEET WH01 FOR CONTINUATION OF THE DUCTWORK.
- OUTSIDE AIR INTAKE LOUVER THAT IS APPROXIMATELY 36" WIDE BY 30" HIGH. RE: SHEET WH01 FOR CONTINUATION OF THE DUCTWORK. CONNECT 16'/14" O.A. DUCT TO PLENUM AND EXTEND TO THE O.A./R.A. PLENUM FOR INSPECTION AND CLEANING.
- EXTEND PIPING ABOVE CEILING IN THE CEILING PLENUM OF THE (E) BASE-MENT. RE: SHEET WH01 FOR CONTINUATION OF THIS PIPING.
- EXTEND 1 1/2" HWS AND HWK PIPING UP IN CHASE TO THE FIRST FLOOR. RE: SHEET WH01 FOR CONTINUATION OF PIPING.
- FAN SECTION WITH THE FAN AND MOTOR MOUNTED INTERNALLY WITH VIBRATION ISOLATION. THIS SECTION SHALL HAVE HINGED AND CASKETED HAVE A MARINE TYPE LIGHT WITH EXTERNAL TOGGLE SWITCH (FACTORY WIRED).
- COOLING COIL SECTION WITH CHILLED WATER COIL. RE: DETAIL #9 ON SHEET MH502 FOR VALVING AND PIPING SPECIALTIES REQUIRED AT THE CONNECTIONS AS SHOWN.
- 24" DEEP ACCESS SECTION BETWEEN THE PREHEAT COIL & THE COOLING COIL SECTION. THIS SECTION SHALL HAVE HINGED AND CASKETED WITH VIEW PORT ON EACH SIDE. THIS SECTION SHALL HAVE A MARINE TYPE LIGHT WITH EXTERNAL TOGGLE SWITCH (FACTORY WIRED).
- PREFILTER SECTION THAT ACCOMMODATES 4" THICK MERV 7 FILTER MEDIA SECTION TO HAVE HINGED AND CASKETED FILTER ACCESS DOOR ON EACH END.
- 18/20 C.A. (PRIMARY AIR) DUCT DOWN INTO THE TOP OF THE O.A./R.A. PLENUM SECTION OF UNIT. INSTALL MANUAL VOLUME DAMPER AND AIR FLOW MEASURING DEVICE IN THE VERTICAL SECTION OF THE DUCTWORK. RE: AIR INFORMATION.
- EXTEND 16'/14" O.A. DUCT DOWN INTO THE TOP OF THE O.A./R.A. PLENUM SECTION OF UNIT. INSTALL MANUAL VOLUME DAMPER AND AIR FLOW MEASURING DEVICE IN THE VERTICAL SECTION OF THE DUCTWORK. RE: AIR INFORMATION.
- EXTEND 30'/14" R.A. DUCT DOWN INTO THE TOP OF THE O.A./R.A. PLENUM SECTION OF UNIT. INSTALL MANUAL VOLUME DAMPER AND AIR FLOW MEASURING DEVICE IN THE VERTICAL SECTION OF THE DUCTWORK. RE: AIR INFORMATION.
- FURNISH AND INSTALL STEAM CONDENSATE RETURN UNIT, 11-CRU1. AT THIS APPROXIMATE LOCATION. RE: INSTALLATION DETAIL ON SHEET MH503 FOR FURTHER INFORMATION. EXTEND 2" VENT FROM THE RECEIVER TO ATMOSPHERE (OUTSIDE OF BUILDING). EXTEND 3/4" VALVED DRAIN PIPING FROM THE RECEIVER ON RECEIVER TERMINATING AT THE FLOOR DRAIN.
- AREA REQUIRED FOR THE REMOVAL OF THE COOLING COIL FROM THE UNIT FOR CLEANING, REPLACEMENT, ETC.
- PROPOSED LOCATION FOR FLOOR DRAIN. RE: PLUMBING DRAWINGS. CONNECTION OF UNIT AND TERMINATE CONDENSATE FLOOR DRAIN. TAP DRAIN PIPING AT THE CONNECTION TO UNIT. RE: DRAIN DETAIL ON SHEET MH503 FOR FURTHER INFORMATION.
- PREHEAT SECTION WITH STEAM COIL. EXTEND 1 1/2" WPS PIPING TO THE COIL CONNECTION. EXTEND 1 1/2" LPR PIPING FROM THE STEAM TRAP DIS-RETURN UNIT.
- 24" DEEP REINFORCED SHEET METAL R.A./O.A. PLENUM SECTION. DOUBLE WALL CONSTRUCTION AS TYPICAL FOR THE OTHER SECTIONS OF THE UNIT.
- PROVIDE A 4" THICK REINFORCED CONCRETE HOUSEKEEPING PAD FOR THIS FLOOR-MOUNTED EQUIPMENT. THE CONCRETE PAD SHALL EXTEND A MINIMUM OF 2' BEYOND THE EDGES OF THE EQUIPMENT.
- WALL-MOUNT VARIABLE FREQUENCY DRIVE (VFD) FOR THE AIR HANDLING UNIT AT THIS APPROXIMATE LOCATION. COORDINATE WITH THE ELECTRICAL REQUIREMENTS.
- WALL-MOUNT BUILDING ENERGY MANAGEMENT AND CONTROL SYSTEM PANEL AT THIS APPROXIMATE LOCATION. PROVIDE A DEDICATED 120 VOLT ELECTRICAL CIRCUIT FOR THE PANEL.
- INSTALL AIR FLOW MEASURING DEVICE IN THIS HORIZONTAL SECTION. MEASURING DEVICE IN THE VERTICAL SECTION OF THE DUCTWORK. RE: AIR INFORMATION.
- EXTEND 2" VENT PIPING FROM CONNECTION TO RECEIVER UP BRK CHASE TO THE ROOF. RE: SHEET WH01 FOR CONTINUATION OF THE PIPING.
- PROPOSED LOCATION FOR WALL-MOUNTED ELECTRICAL DISTRIBUTION ORDNATE WITH NEC CLEARANCE REQUIREMENTS ACCORDINGLY.
- PROPOSED LOCATION FOR PAD-MOUNTED ELECTRICAL TRANSFORMER. RE: ELECTRICAL REQUIREMENTS.
- PROPOSED LOCATION FOR A FLOOR CLEANOUT IN THE 4" SANITARY SEWER DRAINAGE PIPING TO BE ROUTED BELOW THE PROPOSED CONCRETE HOUSEKEEPING PADS.

SCHEMATIC DESIGN SUBMISSION	08/02/10
DESIGN DEVELOPMENT SUBMISSION	09/03/10
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PROTECTION DEVELOPMENT INC.
BREWER AND ESCALANTE

MECHANICAL LARGE SCALE PLANS AND SECTIONS

Project Title: BUILDING II ADDITION AND INTERIOR RENOVATIONS

Location: WACO, TEXAS

Date: 19 DEC 2011

Checked: FP

Drawn: JKL

Project Number: 67444-CS1-516

Building Number: 11

Drawing Number: MH401R

Sheet of: 11

Office of Construction and Facilities Management
 Department of Veterans Affairs

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