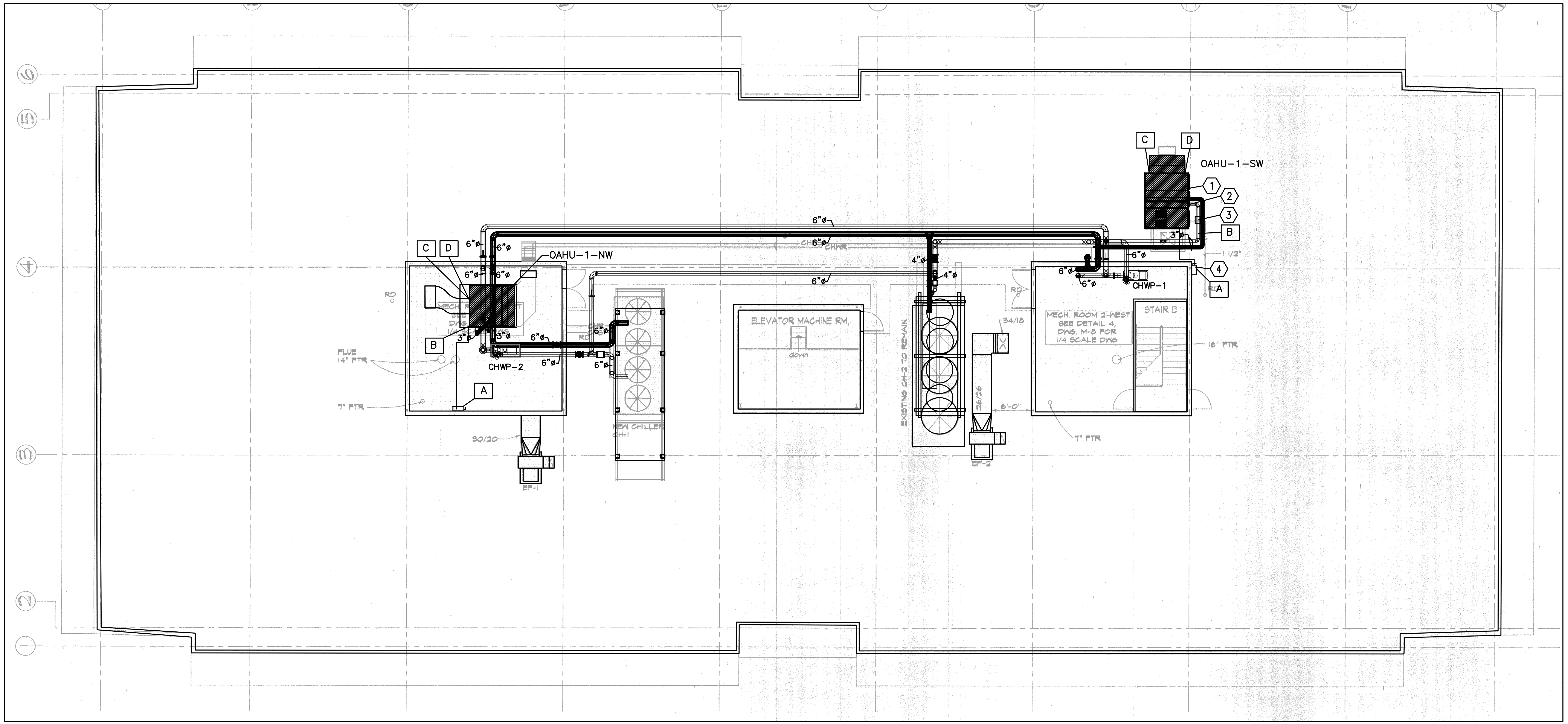

① ROOF LEVEL OUTSIDE AIR UNITS - ALTERNATE PROPOSAL

SCALE: 1/8" = 1'-0"

MECHANICAL DEMOLITION KEYED NOTES -ALTERNATE #1

A CONTRACTOR SHALL DISCONNECT ELECTRICAL POWER FROM THE EXISTING ROOF MOUNTED OUTSIDE AIR UNIT TO PREPARE FOR REMOVAL OF THE EXISTING PACKAGED UNIT. WALL MOUNTED DISCONNECT WILL BE LEFT IN PLACE FOR REUSE WITH NEW OUTSIDE AIR UNIT.

B CONTRACTOR SHALL DISCONNECT EXISTING CHILLED WATER SUPPLY AND RETURN BRANCH PIPING TO PREPARE FOR REMOVAL OF THE EXISTING PACKAGED UNIT. BRANCH PIPING WILL REMAIN IN PLACE TO PROVIDE CHILLED WATER FLOW TO THE NEW UNIT.

C ONCE THE ELECTRICAL POWER AND CHILLED WATER PIPING ARE DISCONNECTED, CONTRACTOR SHALL DISASSEMBLE THE EXISTING OUTSIDE AIR UNIT AND REMOVE FROM THE ROOF. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE EXISTING UNIT FROM THE ROOF AND THE SITE. CONTRACTOR SHALL COORDINATE DISPOSAL OF THE EXISTING UNIT WITH THE FACILITY MANAGER.

D ONCE THE EXISTING OUTSIDE AIR UNIT IS REMOVED FROM THE ROOF CURB, CONTRACTOR SHALL CLEAN AND REPAIR OR MODIFY THE EXISTING ROOF CURB FOR THE SW UNIT AND PAD FOR THE NW UNIT AS REQUIRED TO PREPARE FOR MOUNTING THE NEW OA UNITS.

MECHANICAL KEYED NOTES

① CONTRACTOR SHALL SUPPLY AND INSTALL NEW ROOF MOUNTED OUTSIDE AIR UNIT OAHU-1-SW ON THE MODIFIED ROOF CURB. (SEE SCHEDULE FOR UNIT SIZE ON SHEET M-4.00 AND CURB DETAIL ON SHEET M-4.10). CONTRACTOR SHALL PROVIDE ALL REQUIRED SHEET METAL AND FABRIC TRANSITIONS REQUIRED TO CONNECT NEW UNIT TO EXISTING DUCT CONNECTIONS.

② CONTRACTOR SHALL RECONNECT EXISTING CHILLED WATER SUPPLY AND RETURN BRANCH PIPING CONNECTIONS TO NEW ROOF MOUNTED UNITS. CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS TO COMPLETE THE CONNECTION. CONTRACTOR SHALL REPLACE OR REPAIR INSULATION AND METAL JACKET AS REQUIRED.

③ CONTRACTOR SHALL CLEAN AND REPAIR EXISTING TWO-WAY VALVE AS REQUIRED TO PREPARE VALVE TO CONTROL CHILLED WATER FLOW TO NEW CHILLED WATER COIL.

④ CONTRACTOR SHALL REUSE EXISTING ELECTRICAL CIRCUIT AND WALL MOUNTED DISCONNECT TO ENERGIZE NEW OUTSIDE AIR UNIT.

⑤ CONTRACTOR SHALL SUPPLY AND INSTALL NEW OUTSIDE AIR HANDLING UNIT OAHU-1-NW ON EXISTING HOUSEKEEPING PAD. (SEE SCHEDULE FOR UNIT SIZE ON SHEET M-4.00 AND PAD DETAIL ON SHEET M-4.10). CONTRACTOR SHALL PROVIDE ALL REQUIRED SHEET METAL AND FABRIC TRANSITIONS REQUIRED TO CONNECT NEW UNIT TO EXISTING DUCT CONNECTIONS.

THE EXISTING NW OUTSIDE AIR UNIT IS LOCATED IN THE NW MECHANICAL PENTHOUSE. CONTRACTOR SHALL PROVIDE AN ALTERNATE PROPOSAL TO REMOVE EXISTING UNIT AND REPLACE WITH NEW OUTSIDE AIR UNIT.

② EXISTING OAHU-1-NW IN PENTHOUSE

SCALE: NO SCALE

THE EXISTING SW OUTSIDE AIR UNIT IS LOCATED ON THE ROOF NEXT TO THE SW MECHANICAL PENTHOUSE. CONTRACTOR SHALL PROVIDE AN ALTERNATE PROPOSAL TO REMOVE EXISTING UNIT AND REPLACE WITH NEW OUTSIDE AIR UNIT.

④ EXISTING SW OUTSIDE AIR UNIT

SCALE: NO SCALE

EXISTING OUTSIDE AIR INTAKE LOCATED ON THE OUTER WALL OF THE NW MECHANICAL PENTHOUSE SHALL BE REUSED WITH NEW OUTSIDE AIR UNIT.

③ NW PENTHOUSE OUTSIDE AIR INTAKE

SCALE: NO SCALE

THE EXISTING CHILLED WATER AND HOT WATER PIPING SHALL BE REUSED TO SERVE THE NEW OUTSIDE AIR SW UNIT. THE EXISTING CONTROL VALVE WILL BE RE-USED BUT THE CONTRACTOR SHALL PROVIDE A PRICE TO REPLACE OR REPAIR EXISTING INSULATION AND METAL JACKET.

⑤ SW OAHU CHILLED AND HOT WATER PIPING

SCALE: NO SCALE

ELECTRICAL LOAD ANALYSIS

ALL NEW EQUIPMENT ON THIS LEVEL WILL HAVE THE SAME THE SAME MOTOR HP AS THE PREVIOUS UNIT AND WILL UTILIZE THE SAME ELECTRICAL CIRCUITS, DISCONNECTS AND VARIABLE FREQUENCY DRIVES TO POWER THE UNITS. THERE WILL BE NO INCREASE TO THE ELECTRICAL LOAD ON THIS LEVEL.

ELECTRICAL GENERAL NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR RE-INSTALLING ALL AHU SMOKE DETECTORS AND RELATED SAFETY INTERLOCKS FOR EACH AIR HANDLING UNIT REPLACED. ALL SAFETY DEVICES MUST BE FULLY FUNCTIONAL.

EQUIPMENT MOVEMENT GENERAL NOTES

① THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERING THE NEW EQUIPMENT TO THE ROOF AND MOVING THE VARIOUS COMPONENTS INTO THE PROPER LOCATION.

② CONTRACTOR SHALL UTILIZE THE CRANE PROCURED FOR THE CHILLER LIFT TO MOVE THE OLD EQUIPMENT OFF THE ROOF AND THE NEW EQUIPMENT ONTO THE ROOF AND SIT IN PLACE.

③ IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROTECT THE BUILDING FINISHES FOR THE ROOF WHILE MOVING EQUIPMENT. ANY DAMAGE ATTRIBUTED TO THE CONTRACTOR WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT HIS OR HER OWN EXPENSE.

④ CONTRACTOR SHALL DEVELOP HIS OR HER OWN EQUIPMENT MOVEMENT PLAN TO SHOW HOW EQUIPMENT WILL BE MOVED INTO PLACE. IF EXISTING DOOR FRAMES OR WALLS MUST BE REMOVED TO MOVE EQUIPMENT INTO THE MECHANICAL SPACES, THE COST FOR REMOVAL AND REPLACEMENT OF THE MATERIALS SHALL BE INCLUDED IN THE CONTRACTORS PROPOSAL.

GENERAL NOTES

1. THE DATA PROVIDED IS BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR MUST FIELD VERIFY ALL EXITING CONDITIONS PRIOR TO SUBMITTING HIS OR HER PROPOSAL.
2. THE MCQUAY AIR HANDLING UNITS DESCRIBED IN THE NEW EQUIPMENT SCHEDULE ARE MODULAR TYPE UNITS THAT ARE CONFIGURED WITH A LOWER COIL SECTION, WITH A REAR FILTER RACK, AND AN UPPER FAN CABINET. THESE COMPONENT MODULES ARE TOO WIDE FOR THE AVAILABLE DOOR OPENINGS FOR THE MECHANICAL ROOMS, SO THE CONTRACTOR MUST DISASSEMBLE THE MODULAR COMPONENTS TO MOVE THEM INTO THE MECHANICAL ROOMS AND THEN RE-ASSEMBLE THE UNITS IN PLACE ON THE HOUSE-KEEPING PAD. THE COST FOR THIS ADDITIONAL DISASSEMBLY/RE-ASSEMBLY MUST BE COVERED IN THE PROPOSAL.
3. ANY EQUIPMENT PROPOSED OTHER THAN THE MCQUAY UNITS SCHEDULED MUST ALSO BE CAPABLE OF DISASSEMBLY TO ALLOW MOVEMENT INTO THE MECHANICAL ROOMS.
4. SOME MODIFICATIONS WILL BE REQUIRED FOR THE EXISTING HOUSE-KEEPING PADS TO PROVIDE REQUIRED SUPPORT FOR THE NEW UNITS. REFER TO PAD DETAILS ON SHEET M-3.00 FOR DETAILS.
5. CONTRACTOR SHALL PROVIDE NEW CONTROL VALVES AS REQUIRED. COORDINATE SELECTION AND INSTALLATION WITH OWNERS CONTROL VENDOR.

#	REVISION DESCRIPTION	DATE
1	ISSUED FOR PROPOSAL	01/10/11

AIR HANDLING UNIT REPLACEMENT PROJECT
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39171

ISSUED FOR PRICING

DATE:
01/10/2011

PROJECT #
10467.01

SHEET #
ME-2.70

File Name: M:\MHMRA\10100.00 Chiller Replacement 7011 SW Freeway\Mech\7011 ahu's\7011 ahu's\7011 ahu's\7011 ME-2.70-AHU'S-FIN.DWG
User: rrogers
Date/Time: Jan 10, 2011 - 8:38am
Xref File(s):