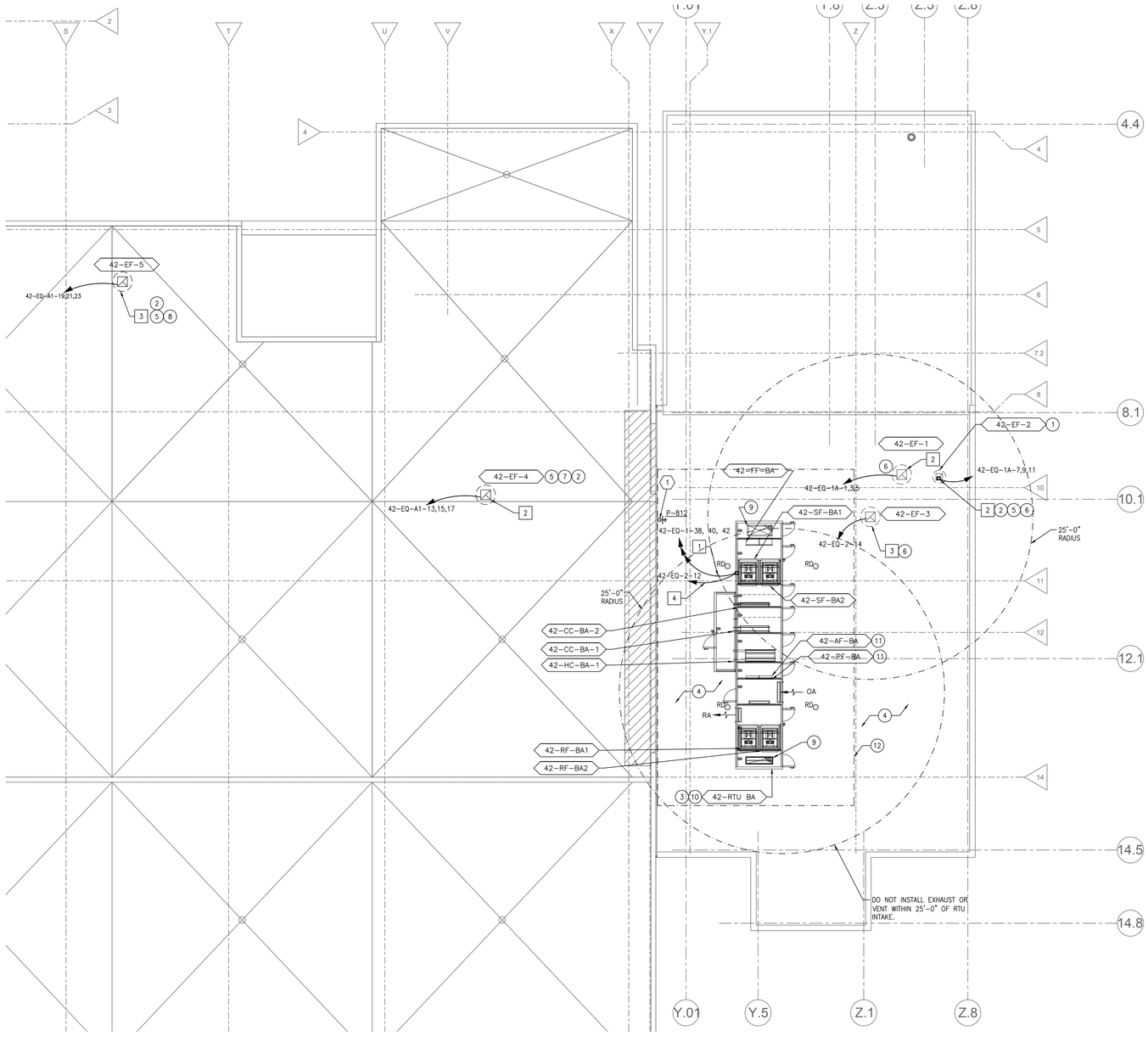

1 ELECTRICAL AND MECHANICAL ROOF PLAN - PHASE 1A
SCALE 1/8" = 1'-0"

NORTH

GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT GENERAL SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO REVIEW GENERAL CONSTRUCTION DRAWINGS, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICT OR DISCREPANCIES PRIOR TO BID.
2. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
3. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY COTR OF ANY DISCREPANCIES BEFORE STARTING WORK.
4. DRAWINGS FOR HVAC WORK ARE DIACRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
5. REFER TO ARCHITECTURAL PHASING PLANS FOR SEQUENCING OF WORK ON PHASE 1A, PHASE 1B & PHASE 1C.

MECHANICAL NOTES

1. PROVIDE ROOF MOUNTED BELT-DRIVE EXHAUST FAN COMPLETE WITH DISCONNECT AND ROOF CURB. PROVIDE ROOF OPENING AND FLASH ROOF CURB INTO ROOF AS REQUIRED. COORDINATE CURB INSTALLATION WITH STRUCTURAL FRAMING AND EXISTING CONDITIONS. EXTEND 10"x10" EXHAUST DUCT UP TO FAN. PROVIDE DUCT TRANSITION, FLEXIBLE DUCT CONNECTION, AND MAKE FINAL DUCT CONNECTION AS REQUIRED.
2. PROVIDE ROOF MOUNTED BELT-DRIVE EXHAUST FAN COMPLETE WITH DISCONNECT AND ROOF CURB. PROVIDE ROOF OPENING AND FLASH ROOF CURB INTO ROOF AS REQUIRED. COORDINATE CURB INSTALLATION WITH STRUCTURAL FRAMING AND EXISTING CONDITIONS. EXTEND 16"x16" EXHAUST DUCT UP TO FAN. PROVIDE DUCT TRANSITION, FLEXIBLE DUCT CONNECTION, AND MAKE FINAL DUCT CONNECTION AS REQUIRED.
3. PROVIDE NEW FACTORY ASSEMBLED CUSTOM ROOFTOP UNIT WITH INSULATED ROOF CURB, CHILLED WATER COOLING AND HEATING HOT WATER COIL. REFER TO ROOFTOP UNIT SCHEDULE FOR UNIT CAPACITY. FLASH ROOF CURB INTO ROOF AS REQUIRED. COORDINATE CURB INSTALLATION WITH STRUCTURAL FRAMING AND EXISTING CONDITIONS. RTU CASING TO BE 2" DOUBLE WALL CONSTRUCTION WITH FOAM FILL INSULATION. UNIT CONSTRUCTED FOR MINIMUM 8" PRESSURE CLASS RATING. UNIT DIMENSION AND LAYOUT BASED UPON CLIMATE CRAFT AS MANUFACTURER. UNIT TO BE PROVIDED WITH SINGLE POWER CONNECTION SUPPLIED BY MANUFACTURER AND WITH FULLY REDUNDANT VFDS FOR FAN OPERATION.
4. ALL PLUMBING VENTS WITHIN 25' RADIUS TO BE PIPED AWAY FROM OUTSIDE AIR INTAKE. ROUTE PIPE ABOVE ROOF AND TURN UP OUTSIDE OF RADIUS.
5. INSTALL 3500 FPM VERTICAL NOZZLE FOR EXHAUST FAN. SEE DETAIL FOR ADDITIONAL INFORMATION.
6. EXHAUST FAN TO BE INSTALLED IN PHASE 1A.
7. EXHAUST FAN TO BE INSTALLED IN PHASE 1B.
8. EXHAUST FAN TO BE INSTALLED IN PHASE 1C.
9. CONTRACTOR TO COORDINATE SUPPLY AIR AND RETURN AIR OPENINGS AND TRANSITIONS WITH UNIT FROM MANUFACTURER PROVIDED.
10. RTU-BA TO BE CAPABLE TO SUPPLY COOLING AND HEATING AT STANDARD OPERATING STATUS. UNIT TO BE PROVIDED WITH CAPACITY AND CAPABILITY TO CONDITION AND PROVIDE 100% OUTSIDE AIR UPON CALL FOR EMERGENCY STATUS. CONTRACTOR TO LOCATE EMERGENCY STATUS SWITCH IN LOCATION AS SHOWN ON M101.
11. FILTER RACK TO BE SIZED AND PROVIDED WITH 2" PRE-FILTER WITH 4" AFTER-FILTER.
12. PROVIDE SCREENING FOR ROOFTOP UNIT. REFER TO ARCHITECTURAL SHEETS FOR SCREENING INFORMATION.

ELECTRICAL NOTES

1. PROVIDE CONNECTION FOR ROOF TOP UNIT-RTU-AB IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. FURNISH AND INSTALL NEW CIRCUIT BREAKER IN EXISTING SPACE IN EXISTING PANEL "42-EQ-1" FOR THIS BRANCHES.
2. PROVIDE CONNECTION FOR EXHAUST FANS FED FROM PANEL "42-EQ-2A".
3. PROVIDE CONNECTION FOR EXHAUST FANS FED FROM PANEL "42-EQ-1".
4. PROVIDE 120V, 20A CIRCUIT FED FROM PANEL "42-EQ-2" FOR THE LIGHTING INSIDE THE RTU.

PLUMBING NOTES

1. PROVIDE 3/4" CW UP THROUGH ROOF TO FREEZE PROOF HYDRANT IN LOCATION SHOWN. REFER TO PP101 FOR CONTINUATION.

FULLY SPRINKLERED

Revisions	Date
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Drawing Title: ELECTRICAL AND MECHANICAL ROOF PLAN - PHASE 1A

Approved: Project Director

Project Title: EMERGENCY DEPARTMENT REMODEL

Location: MARION, ILLINOIS

Date: April 3, 2017 | Checked: HGS | Drawn: FSC

Project Number: 657-500

Building Number: 42

Drawing Number: ME104

Dwg. 109 of 156

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

one eighth inch = one foot | one quarter inch = one foot | three eighths inch = one foot | one half inch = one foot | three quarters inch = one foot | one inch = one foot | one and one half inches = one foot | three inches = one foot
O:\FSC MEP\Projects 14-446\14-474 Marion VA ER Renovation see 10-282\Drawings\657A5-10-108-42-ME104.dwg 7-27-17 04:28:19 PM arodriguez