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PROFESSIONAL SEAL

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**ESTERLY
SCHNEIDER
&
ASSOCIATES, INC.**
AIA
architects & planners
COMM. # 4092

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
PUBLIC SAFETY,
MISSOURI VETERANS
COMMISSION

HVAC REPLACEMENT
PROJECT

MISSOURI VETERANS
HOME

620 N. JEFFERSON
ST. JAMES, MO 65559

PROJECT # U1503-03
FAI # 29-051
SITE # 4700
FACILITY # 55019

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10-27-17

CAD DWG FILE: M-119.DWG
DRAWN BY: JMO
CHECKED BY: CKC
DESIGNED BY: JMO

SHEET TITLE:

**HYDRONIC
PLAN**

SHEET NUMBER:

M-119
23 OF 41 SHEETS

10-27-17

NOTES:

- NEW AIR HANDLING UNIT. REMOVE AND REPLACE PIPING AND VALVING. REMOVE AND REPLACE 1.5" HWS, 1.5" HWR, 2" CWS AND 2" CWR BRANCH PIPING BACK TO MAIN CONNECTION AND REPLACE ALL DIELECTRIC FITTINGS. PROVIDE NEW SHUT-OFF VALVES AT MAIN PIPING CONNECTION AND RECONNECT TO MAIN PIPING. FIELD VERIFY EXISTING CONDITIONS, AND LOCATION OF CONNECTIONS TO ALL EXISTING PIPING CONNECTIONS PRIOR TO SUBMITTAL OF AIR HANDLING UNIT. PROVIDE ALL REQUIRED ADJUSTMENTS TO EXISTING PIPING TO ACCOMMODATE NEW AIR HANDLING UNIT. PROVIDE 1.25" CONDENSATE DRAIN PIPING AND TERMINATE WITH AIR GAP OVER EXISTING FLOOR DRAIN.
- EXISTING HORIZONTAL 4-PIPE FAN COIL UNIT TO REMAIN.
- EXISTING REHEAT COIL TO REMAIN.

GENERAL NOTES:

- FOR ALL MECHANICAL QUESTIONS DURING BIDDING OR DURING CONSTRUCTION, CONTACT SCOTT VANDOREN AT MALONE FINKLE ECKHART AND COLLINS, INC. (417-881-0020)
- MECHANICAL HOT WATER HEATING SYSTEM SHALL BE DRAINED DOWN DURING THE COOLING SEASON. BOILER SYSTEM, HOT WATER PUMPS, AND ALL HOT WATER PIPING CHANGES SHALL BE PERFORMED DURING THE COOLING SEASON. ALL WORK SHALL BE PERFORMED, STARTING JUNE 1, 2018 AND SUBSTANTIALLY COMPLETE BY AUGUST 31, 2018.
- MECHANICAL CHILLED WATER AND CONDENSER WATER SYSTEMS SHALL BE DRAINED DOWN DURING THE HEATING SEASON. CHILLED WATER PUMPS, CONDENSER WATER PUMPS AND ALL CHILLED WATER PIPING CHANGES SHALL BE PERFORMED DURING THE HEATING SEASON. ALL WORK SHALL BE PERFORMED, STARTING DECEMBER 1, 2017 AND SUBSTANTIALLY COMPLETE BY FEBRUARY 28, 2018.
- CONTRACTOR SHALL COORDINATE WITH THE HVAC WATER TREATMENT CONTRACTOR PER SPECIFICATIONS SECTION 232500. ALL WATER TREATMENT SHALL BE COMPLETED BY THE SYSTEM SUBSTANTIAL COMPLETION DATE.
- TEST, ADJUST AND BALANCE REPORT FOR THE WATER SYSTEMS SHALL BE COMPLETE AND APPROVED BY THE ENGINEER PRIOR TO THE SUBSTANTIAL COMPLETION DATE OF EACH WATER SYSTEM.



TAB CONTRACTOR SHALL TEST THE CW AND HW FLOWRATE WITH EACH SYSTEM UNDER SIMULATED PEAK LOAD, PRIOR TO COMMENCING WITH ANY HYDRONIC DEMOLITION WORK. REPORT FINDINGS TO ARCHITECT/ENGINEER AND OBTAIN APPROVAL PRIOR TO COMMENCING WITH ANY HYDRONIC DEMOLITION WORK. BALANCE WHEN THE CHILLED WATER AND HOT WATER SYSTEMS ARE BALANCED

1 WING 'C' - HYDRONIC IMPROVEMENT PLAN
SCALE: 1/8"=1'-0"
NORTH

