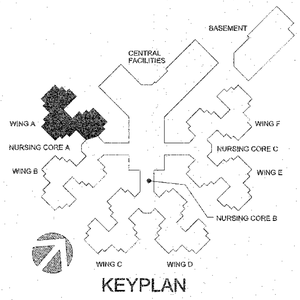
1 M-117 WING "A" - HYDRONIC IMPROVEMENT PLAN

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

NORTH



KEYPLAN

Consulting Engineers
3333 East Battlefield, Suite 1000
Springfield, Missouri 65804
phone 417.881.0020
fax 417.881.0053
mfec.com
Mulkey Finkle Eckhardt & Collins, Inc.

NOTES:

1. 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 ACCOMODATE NEW AIR HANDLING UNIT. PROVIDE 1.25" CONDENSATE DRAIN PIPING AND TERMINATE WITH AIR GAP OVER EXISTING FLOOR DRAIN.
2. EXISTING HORIZONTAL 4-PIPE FAN COIL UNIT TO REMAIN.
3. EXISTING REHEAT COIL TO REMAIN.

GENERAL NOTES:

1. FOR ALL MECHANICAL QUESTIONS DURING BIDDING OR DURING CONSTRUCTION, CONTACT SCOTT VANDOREN AT MALONE FINKLE EICKHARDT AND COLLINS, INC. (417-881-0020)
2. 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.
3. 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.
4. 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.
5. 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.

STATE OF MISSOURI
ERIC R. GREITENS,
GOVERNOR

CAMERON K. COLLINS NUMBER E-2441 REGISTERED PROFESSIONAL ENGINEER STATE OF MISSOURI
10-27-17

Missouri State Certificate of Authority #001075
PROFESSIONAL SEAL

ESTERLY SCHNEIDER & ASSOCIATES, INC. AIA architects & planners
1736 East Sunshine, Suite 417
Springfield, Missouri 65804
417.862.6558
Fax: 417.862.3265
e-mail: architect@esterlyschneider.com
Certificate of Authority #000718

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-117.DWG
DRAWN BY: JMO
CHECKED BY: CKC
DESIGNED BY: JMO

SHEET TITLE:

HYDRONIC PLAN

SHEET NUMBER:

M-117

21 OF 41 SHEETS

10-27-17

H:\ESA\SP1\DRAWINGS\SP1M-117 23 Oct 2017 - 3:31 pm