

Melone Filk Dechardt & Collins, Inc.

NOTES:

UNDER ALTERNATE #2, NEW PUMP TO REPLACE EXISTING.
REUSE EXISTING CIRCUIT FOR NEW PUMP. MAKE ALL
REQUIRED CONNECTIONS. VERIFY REQUIREMENTS FOR NEW
PUMP PRIOR TO MAKING FINAL CONNECTIONS. VERIFY THAT
EXISTING MOTOR STARTERS IN MOTOR CONTROL CENTER ARE
SIZED PROPERLY FOR NEW PUMPS. PROVIDE NEW 20-AMP
FUSES IN EXISTING MOTOR CONTROL CENTER.

UNDER ALTERNATE BID #1, FURNISH AND INSTALL EMERGENCY
BOILER SHUTDOWN BUTTON. PROVIDE KELE WPS-MP-BS-CLM
SERIES. INTERLOCK WITH CONTACTOR "LC1" SO THAT ALL
GAS FIRED EQUIPMENT IN THE BOILER ROOM SHUTS DOWN
UPON ACTIVATION OF PUSH BUTTON. THIS WOULD INCLUDE
THE NEW BOILERS, THE NEW WATER HEATERS, AND THE
EXISTING WATER HEATERS. COVERPLATE SHALL BE LABELED
"EMERGENCY BOILER SHUTDOWN".

UNDER ALTERNATE BID #3. NEW BOILER TO REPLACE EXISTING. REUSE EXISTING CIRCUIT FOR NEW BOILER. MAKE ALL REQUIRED CONNECTIONS. ROUTE CIRCUIT THRU CONTACTOR "LC1" FOR BOILER SHUTDOWN SEQUENCE. REPLACE EXISTING 20-AMP, 1-POLE CIRCUIT BREAKER SERVING CIRCUIT WITH NEW 15-AMP, 1-POLE CIRCUIT BREAKER. VERIFY REQUIREMENTS FOR BOILER PRIOR TO MAKING FINAL CONNECTIONS.

UNDER ALTERNATE BID #1, NEW DOMESTIC WATER HEATERS TO REPLACE EXISTING. REUSE EXISTING CIRCUIT FOR NEW WATER HEATERS. MAKE ALL REQUIRED CONNECTIONS. ROUTE CIRCUIT THRU CONTACTOR "LC1" FOR SHUTDOWN SEQUENCE. REPLACE EXISTING 20-AMP, 1-POLE CIRCUIT BREAKER SERVING CIRCUIT WITH NEW 15-AMP, 1-POLE CIRCUIT BREAKER. VERIFY REQUIREMENTS FOR WATER HEATER PRIOR TO MAKING FINAL CONNECTIONS.

UNDER ALTERNATE BID #1. EXISTING DOMESTIC WATER HEATER TO REMAIN. ROUTE EXISTING CIRCUIT THRU CONTACTOR "LC1" FOR SHUTDOWN SEQUENCE.

PROVIDE NEW 15-AMP, 1-FOLE CIRCUIT BREAKER IN INDICATED PANELBOARD. CONNECT CIRCUIT TO NEW CIRCUIT BREAKER. REMOVE EXISTING SPARE CIRCUIT BREAKER TO MAKE ROOM FOR NEW BREAKER.

DUNDER ALTERNATE BID #1, EXISTING DOMESTIC WATER HEATER TO BE REMOVED. PROVIDE REQUIRED ELECTRICAL DEMOLITION. REUSE EXISTING CIRCUIT FOR NEW WATER HEATERS.

WITH VFD. THE EXISTING STARTERS IN THE MOTOR CONTROL CENTER THAT SERVES THE EXISTING PUMPS SHALL BE REPLACED WITH A DISCONNECT WITHOUT STARTER COMPONENTS. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL VFD. COORDINATE MOTOR HP, VOLTAGE AND PHASE WITH PUMP MOTOR. PROVIDE NEW 20-AMP FUSES.

9 UNDER ALTERNATE BID #1, PROVIDE NEW SWITCH WITH LOCKABLE COVER. COVER SHALL BE EQUAL TO MASTERLOCK 496B.

REPLACE EXISTING DUCT DETECTOR WITH NEW DETECTOR. CONNECT TO EXISTING FIRE ALARM SYSTEM.

PROVIDE NEW FAN SHUTDOWN RELAY. INTERCONNECT WITH ASSOCIATED DUCT DETECTOR.

PROVIDE NEW 15-AMP, 1-POLE CIRCUIT BREAKER IN INDICATED PANELBOARD. CONNECT CIRCUIT TO NEW CIRCUIT BREAKER.

The other trades.

The pump "Pit". Coordinate exact Location in field with other trades.

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PROVIDE NEW 30-AMP, 1-POLE CIRCUIT BREAKER IN INDICATED PANELBOARD. CONNECT CIRCUIT TO NEW CIRCUIT

UNDER ALTERNATE BID #1, MAKE ALL REQUIRED CONNECTIONS
TO CIRC PUMP TERMINALS ON BOILER AND PROVIDE REQUIRED
WIRING BETWEEN BOILER AND CIRC PUMP. PROVIDE NEW 25—
AMP, 1—POLE CIRCUIT BREAKER IN INDICATED PANELBOARD.
REMOVE EXISTING SPARE CIRCUIT BREAKER TO MAKE ROOM
FOR NEW BREAKER. CONNECT CIRCUIT TO NEW CIRCUIT
BREAKER. VERIFY ALL REQUIRED PUMP REQUIREMENTS PRIOR
TO ROUGH—IN.

UNDER ALTERNATE BID #3. PROVIDE NEW SWITCH WITH LOCKABLE COVER. COVER SHALL BE EQUAL TO MASTERLOCK 496B.

UNDER ALTERNATE BID #1, PROVIDE NEW 15-AMP, 1-POLE CIRCUIT BREAKER IN INDICATED PANELBOARD, CONNECT CIRCUIT TO NEW CIRCUIT BREAKER.

PROVIDE NEW 15-AMP, 2-POLE CIRCUIT BREAKER IN INDICATED PANELBOARD. CONNECT CIRCUIT TO NEW CIRCUIT BREAKER. REMOVE EXISTING SPARE CIRCUIT BREAKER TO MAKE ROOM FOR NEW BREAKER.

BRANCH CIRCUIT & FEEDER SCHEDULE:

(1) 2 - #10 AND 1 - #10 GROUND IN 0.5" CONBUIT

GENERAL DEMOLITION NOTES.

 INFORMATION ON THESE DRAWINGS REPRESENT INFORMATION FROM EXISTING DRAWINGS AND LIMITED SITE INSPECTIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID. NO EXTRAS SHALL BE PAID DUE TO UNANTICIPATED CONDITIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING, PATCHING, AND REPAIR OF ALL WALL AND FLOOR SYSTEM AS REQUIRED DUE TO NEW CONSTRUCTION. MAINTAIN ALL FIRE RATINGS.

3. FOR ALL EXISTING WIRING, EQUIPMENT, ETC. SHOWN TO BE REMOVED, THE OWNER SHALL HAVE THE FIRST RIGHT OF REFUSAL.

WHERE DEMOLISHED DEVICES ARE PART OF A CIRCUIT THAT IS THRU-WIRED, OR HAS ADDITIONAL DEVICES ON THE CIRCUIT THAT ARE TO REMAIN UNCHANGED, THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE EXISTING CIRCUIT. ANY ADDITIONAL CONDUIT, CONDUCTOR, BOXES, ETC NEEDED TO MODIFY THE EXISTING CIRCUIT TO MAINTAIN THE INTEGRITY ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND SHALL BE INCLUDED IN BID.

5. REMOVE ANY UNUSED CONDUCTORS, CONDUIT, AND WIRING LOCATED WITHIN THE AREA OF CONSTRUCTION.

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRIC CODE.

2. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.

 THE CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING.

4. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED.

 ALL WIRING SHALL BE IN COMDUIT.
 CONDUIT CONNECTORS AND COUPLINGS SHALL COMPRESSION TYPE. SET SCREW TYPE CONDUIT FITTINGS SHALL NOT BE

ALLOWED.

7. ALL POWER CIRCUITS SHALL HAVE A GROUNDING CONDUCTOR.

8. ELECTRICAL CONTRACTOR SHALL PROVIDE A TYPED CIRCUIT DIRECTORY FOR ALL PANELS. DIRECTORY INFORMATION SHALL INCLUDE CIRCUIT NUMBER AND EQUIPMENT SERVED.

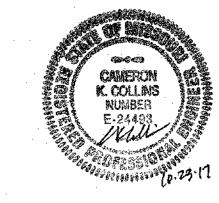
9. ELECTRICAL CONTRACTOR SHALL PROVIDE DUCT SMOKE DETECTORS FOR ALL HVAC UNITS GREATER THAN 2,000 CFM SUPPLY. DUCT DETECTORS SHALL HAVE SAMPLING TUBE IN LENGTH PROPER FOR DUCT SIZE AND REMOTE KEYED TEST

LENGTH PROPER FOR DUCT SIZE AND REMOTE KEYED TEST STATION.

CONTRACTOR SHALL CONFIRM EXISTING POWER, VOLTAGE A PHASE OF AVAILABLE CIRCUITS FOR EQUIPMENT BEING REPLACED PRIOR TO SUBMISSION OF EQUIPMENT SHOP

1. FOR ALL ELECTRICAL QUESTIONS DURING BIDDING OR CONSTRUCTION, CONTACT ANTHONY BEIER (417)-881-0020)

STATE OF MISSOURI ERIC R. GREITENS, GOVERNOR



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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF PUBLIC SAFETY, MISSOURI VETERANS COMMISSION

HVAC REPLACEMENT PROJECT

MISSOURI VETERANS

620 N. JEFFERSON ST. JAMES, MO 65559

PROJECT# **U1503-03**FAI# **29-051**

SITE#

FACILITY # 55019

REVISION:
DATE:

4700

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DATE:
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DATE:
ISSUE DATE: 10-27-17

CAD DWG FILE: E-100.DWG
DRAWN BY: AGB
CHECKED BY: CKC
DESIGNED BY: AGB

SHEET TITLE:

ELECTRICAL PLAN

SHEET NUMBER:

E-100

35 OF 41 SHEETS

10-27-17