

Missouri Valley Maintenance Garage Radiant Heat Replacement

2308 U.S. 30
Missouri Valley, IA 51555



INDEX OF DRAWINGS:

SHEET NO.	SHEET NAME
01 M-1	RADIANT HEAT REPLACEMENT PLAN

OFFICE OF SUPPORT SERVICES
800 LINCOLN WAY, AMES, IOWA 50010

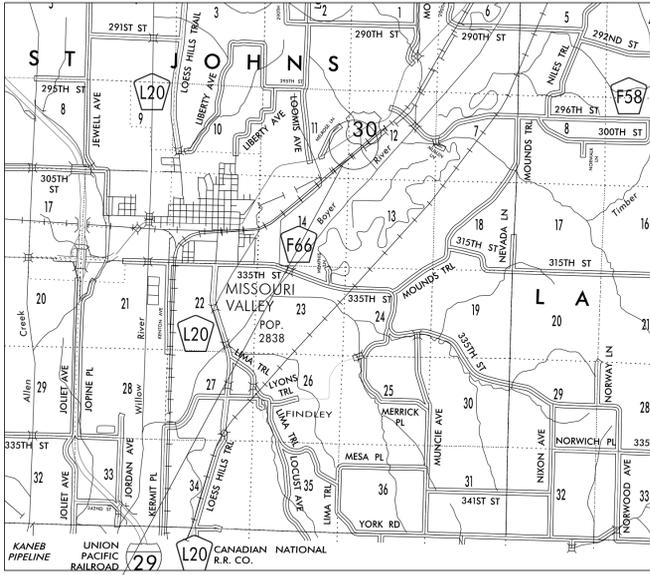
FOR CONSTRUCTION QUESTIONS CALL:
LYNN RUSHER (515) 239-1186

FOR CONTRACT DOCUMENT QUESTIONS CALL:
MARY ZIMMERMAN (515) 239-1298

OFFICE OF SUPPORT SERVICES		
FACILITIES ENGINEER	DATE	TELEPHONE: (515) 239-1443
FIELD FACILITIES MANAGER	DATE	TELEPHONE: (515) 239-1627
FACILITIES DIRECTOR	DATE	TELEPHONE: (515) 239-1327

I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly registered architect under the laws of the state of Iowa.

Printed or typed name _____
 Signature _____ Date _____
 Registration expires _____ Date issued _____
 Pages or sheets covered by this seal: _____



PROJECT LOCATION
SCALE: 1" = 1 MILE



KEY:

B-1: (TYP OF 3)
CRV-B3
80,000 BTU/HR
(NATURAL GAS TYPE)

VP-1: (TYP OF 3)
EP-201 3/4 HP
VACUUM PUMP
115/208/230V - 1ø

DAMPER: (TYP OF 3)

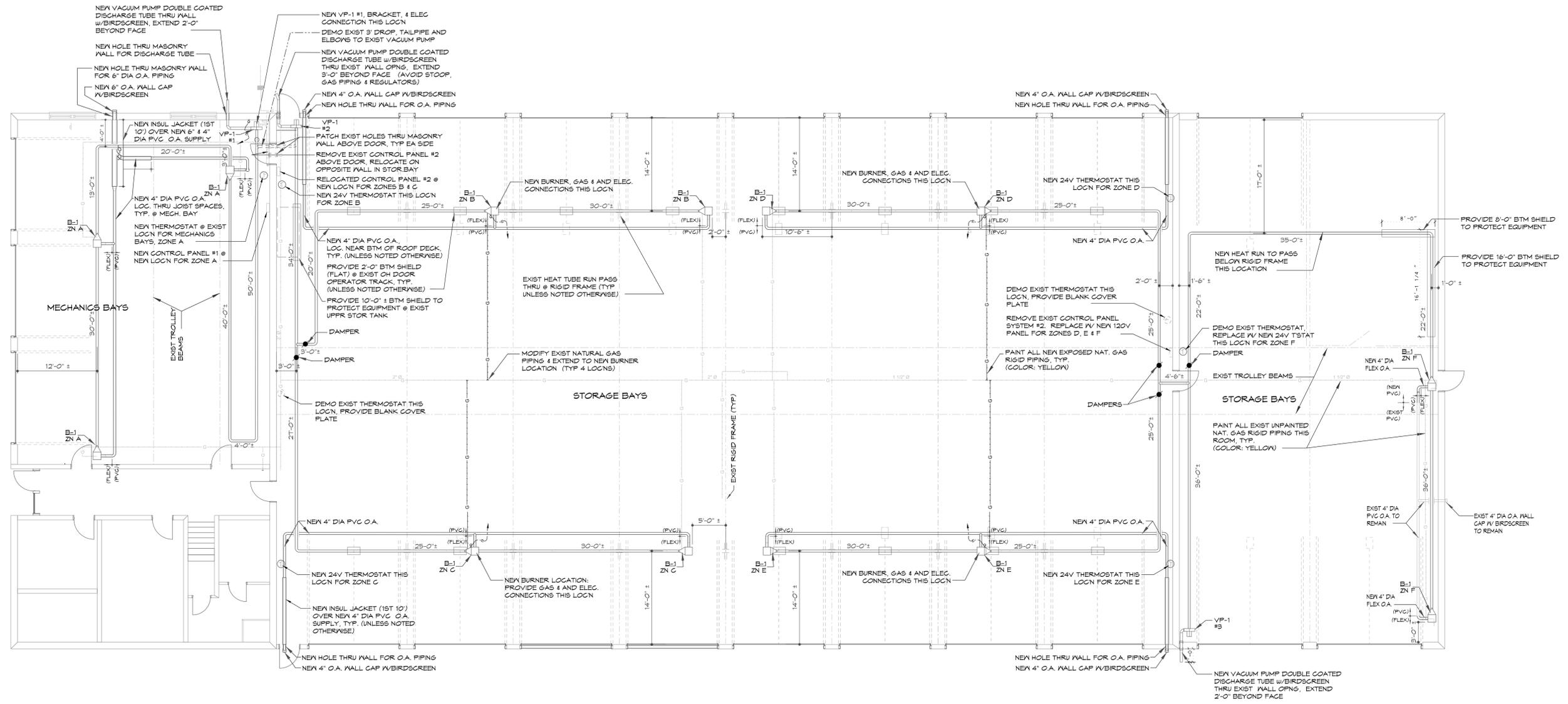
O.A. OUTSIDE AIR:

CONTROL PANEL: (TYP OF 3)
120V - 1ø

THERMOSTAT: (TYP OF 6)
24V

NOTES:

- ALL DIMENSIONS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD PRIOR TO BIDDING
- CONTRACTOR TO REMOVE ALL EXISTING INFRARED SYSTEMS AND ASSOCIATED TUBES / REFLECTORS / HANGERS / CONTROL PANELS / WIRING / THERMOSTATS / VACUUM PUMPS / ETC.
- CONTRACTOR TO INSTALL A COMPLETE NEW RADIANT HEAT SYSTEM THROUGHOUT
- CONTRACTOR TO USE EXISTING OPENINGS IN RIGID FRAME TO RUN NEW EQUIPMENT THROUGH
- ALL OUTSIDE AIR PIPING ARE 4" OR 6" DIAMETER AS NOTED, EQUIPPED WITH BIRD SCREENS.
- EXIST OUTSIDE AIR PIPING WAS ONLY INSTALLED IN SOUTH STORAGE BAY. PROVIDE NEW PVC/FLEX OUTSIDE AIR PIPING AND INSULATION IN THE MECHANICS AND CENTER STORAGE BAYS, PLUS OTHER AREAS AS NOTED. REMOVE EXISTING FLEX IN SOUTH STORAGE BAY AND REPLACE WITH NEW. PROVIDE PROPER SUPPORTS FOR POSITIVE AIR FLOW (NO TRAPS/DIPS ALLOWED)
- ALL PIPING ENTERING OR EXITING BUILDING TO BE EQUIPPED WITH BIRD SCREENS
- RADIANT HEATING REFLECTORS NOT SHOWN ON DRAWINGS FOR CLARITY. CONTRACTOR TO FURNISH AND INSTALL REFLECTORS ON NEW INSTALLATION
- ALL BURNER/VACUUM PUMP/THERMOSTAT/TUBE LOCATIONS ARE SAME AS EXISTING UNLESS OTHERWISE NOTED (CONTRACTOR TO COORDINATE)
- PROVIDE 6" PIPE SLEEVE AT RIGID FRAME PENETRATIONS AROUND TUBES IN HEATED STORAGE AREAS. EXTEND 6" ON EA. SIDE OF FRAME
- INSTALL BOTTOM SHIELD REFLECTORS AS NOTED AT OVERHEAD DOOR TRACKS AND OTHER LOCATIONS WHERE INDICATED
- PROVIDE NEW THERMOSTAT AT EXISTING (SOUTH WALL) LOCATION FOR MECHANICS BAY AREA ZONE A; NEW THERMOSTATS AT 4 LOCATIONS IN CENTER STORAGE BAY AREA (NORTH & SOUTH WALLS) FOR ZONES B - E; NEW THERMOSTAT AT EXISTING (NORTH WALL) LOCATION FOR SOUTH STORAGE BAY AREA ZONE F
- NEW CONTROL PANEL LOCATIONS ARE AS SHOWN
- CONTRACTOR TO EXTEND GAS PIPING AND POWER WIRING TO NEW BURNERS, CONTROL PANELS, THERMOSTATS, AND VACUUM PUMPS FOR COMPLETE SYSTEM INSTALLATION
- CONTRACTOR TO PAINT NATURAL GAS RIGID PIPING AS INDICATED. SHERWIN-WILLIAMS COLOR: SINO84 SYSTEM TYPE: ALKYD. SURFACE PREP: S6PG S62/S63. PAINT: 1 COAT PRIMER (KEM BOND H5), 2 COATS FINISH (INDUSTRIAL ENAMEL)



RADIANT HEAT PLAN
 SCALE: 1/8"=1'-0"