

- 2 CAP THE EXISTING HYDRONIC LINES WHERE PIPING WAS REMOVED. (3) CAP THE DUCTWORK WHERE THE TERMINAL BOX WAS REMOVED.
- 4 CONNECT THE NEW 14% DUCT INTO THE EXISTING AT THIS LOCATION. INSULATE THE SUPPLY DUCT PER SPECS AND CONNECT INTO THE NEW TERMINAL BOX.
- 5 EXISTING TERMINAL BOXES THAT ARE SHOWN DASHED ARE TO REMAIN AND BE REBALANCED PER THE SHOWN AIRFLOWS. TYPICAL
- DUCTWORK, REBALANCE THE WATER AND AIRFLOWS AND REINSTALL A NEW THERMOSTAT IN THE SPACE AS SHOWN,
- 7 RELCATED THERMOSTATS SHALL BE INSTALLED WITHIN CONDUIT AND ELECTRICAL BOXES. TYPICAL
- (a) THESE DUCTS SHALL BE RECONNECTED INTO THE EXISTING SUPPLY AIR FROM THE MECHANICAL ROOM TO REDUCE THE AIR VELOCITY AT THE MECHANICAL ROOM MALL, THE EXISTING MECHANICAL HVAC UNITS SHALL HAVE THEIR SUPPLY FAN MOTORS CHANGED ALONG WITH THE EXISTING REQUENCY DRIVE WITH UNITS WITH NOISE FILTERS INTERNALLY BUILT INTO THE DRIVE. SEE MAIL EXISTING MEZZ PLANS FOR ADDITIONAL INFORMATION.
- (4) TAP INTO THE EXISTING HYDRONIC LINES AT THIS APPROXIMATE LOCATION.
- (II) EXISTING FIN-TUBE RADIATION TO REMAIN OPERATIONAL AS SHOWN, MODIFY THE WEST END ENCLOSURE TO ALLOW AN END-CAP INSTALLATION.
- REPOUTE NEW LINES DOWN WITHIN THE WALL AS SHOWN AND CONNECT INTO THE FIN-TUBE AND DEVICES PER THE DETAILS ON SHEET M4.2
- (2) INSTALL THE NEW CABINET HEATER IN STRICT COMPLIANCE WITH MANUFACTURERS RECOMMENDATIONS. SEE THE DETAILS ON SHEET M4.2
- (3) THESE NEW HYDRONIC LINES SHALL BE INSTALLED AS HIGH AS POSSIBLE UP WITHIN THE WEBS OF THE NEW BAR JOISTS WHERE POSSIBLE IN THE NORTH-SOUTH DIRECTION. IN ADDITION, OFFSET ALL HYDRONIC LINES UP TO WITHIN STTEL BAR JOISTS TO AVOID INTERPERENCES.

- (T) RETURN AIR DUCT UP TO 3RD FLOOR MECHANICAL MEZZANINE. SEE SHEET MI.2 FOR CONTINUATION.
- (9) INSTALL A NEW MOTOR OPERATED 30°/42° LOW LEAK DAMPER TO OPEN DURING EMAJST FAN (EF-I) OPERATION. TCC TO PROVIDE DAMPER, OPERATOR AND INTERLOCK OF UNIT.
- (20) FLAT OVAL HIGH PRESSURE SUPPLY AIR DUCT (INTERNALLY LINED K-27) UP TO SRD FLOOR MECHANICAL MEZZANINE. SEE SHEET MI.2 FOR CONTINUATION.
- (2) CORE THRU THE EXISTING WALL AND ROUTE THE NEW HYDRONIC LINES AS HIGH AS POSSIBLE. CONNECT INTO THE NEW UNIT HEATER PER DETAILS ON SHEET
- (22) INSTALL THE NEW UNIT HEATER IN STRICT COMPLIANCE WITH MANUFACTURERS RECOMMENDATIONS. TYPICAL, SEE THE DETAILS ON SHEET M4.2. MOUNT UNIT AS HIGH AS POSSIBLE TO MAINTAIN MANUFACTURERS RECOMMENDATIONS. (3) NEW THERMOSTAT SHALL BE INSTALLED WITHIN CONDUIT AND ELECTRICAL BOXES. TYPICAL
- (24) RETURN AIR DUCT FROM 1ST FLOOR UP TO 3RD FLOOR MECHANICAL MEZZANINE. SEE SHEET MI.1 AND THE ENLARGED MEZZANINE MECHANICAL PLAN AT RIGHT FOR CONTINUATION
- (25) HYDRONIC PIPING FROM IST FLOOR UP TO 3RD FLOOR MECHANICAL MEZZANINE. SEE SHEET MI.! AND THE ENLARGED MEZZANINE MECHANICAL PLAN AT RIGHT FOR CONTINUATION

- 30 SUPPLY DUCT FROM THE NEW HVAC UNIT. SEE THE ENLARGED MEZZANINE MECHANICAL PLAN AT RIGHT FOR CONTINUATION 27) SUPPLY AIR DUCT (INTERNALLY LINED K-27) DOWN TO IST FLOOR SEE SHEET MILL FOR CONTINUATION
- (26) TAP OR CONNECT INTO THE EXISTING DUCTWORK AT THESE APPROXIMATE LOCATIONS, TYPICAL
- (2) OFFSET HYDRONIC PIPING DOWN INSIDE THE RATED WALL AND FIRE CAULK WHERE THE PENETRATION IS MADE.
- 30 SANCUT THE EXISTING WALL TO THE EXACT DIMENSIONS OF THE NEW LOUVER SET THE LOUVERS BACK INTO THE BRICK APPROXIMATELY 1/41 AND SEAL THE LOUVERS 1008 MATER AND AIRTIGHT, LOUVERS ON THIS MALL SHALL MATCH EXISTING WINDOW FRAME COLOR. MOUNT THE LOVERS AT JUST BELOW THE EXISTING SOFFIT AS HIGH AS POSSIBLE. TYPICAL
- 3) ROUTE THE HYDRONIC PIPING DOWN INSIDE WALL AND FIRE CAULK AS REQUIRED.
- INSTALL THE NEW EF-I AS HIGH AS POSSIBLE. THIS FAN IS TO REMOVE HEAT $\ensuremath{\mathfrak{A}}\xspace$ TROM THE EXISTING EMERGENCY GENERATOR.
- install new duct as tight to the mall as possible. This exhaust duct shall be insulated internally with I' duct liner.
- EXISTING DUCTWORK THAT ROUTES VERTICALLY ALONG WALL TO REMAIN OPERATIONAL AS SHOWN.
- ROUTE NEW DUCT DOWN ALONG WALL AS SHOWN.

 ROUTE THIS DUCT UP WITHIN STEEL BAR JOISTS. CAREFULLY COORDINATE WITH ALL TRADES IN THESE CEILING AREAS AS THEY ARE VERY CONGESTED. TYPICAL ALL FIRST FLOOR AND BELOW MEZZANINE AREAS.
- OFFSET AS REQUIRED AVOIDING OTHER TRADES. offset as required avoiding other trades.

 ROUTE EXHAUST DUCT UP TO SECOND FLOOR. SEE SHEET MI.2 FOR CONTINUATION.

(40) INSTALL THE NEW SUPPLY DUCTWORK WITHIN THE NEW BULKHEAD



825 S. Barr Street - Suite 100 Fort Wayne, Indiana 46802 PH 260.422.4241 FX 260.422.4847 designcollaborative.com





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First Floor Mechanical Plan

& Notes

M1.1