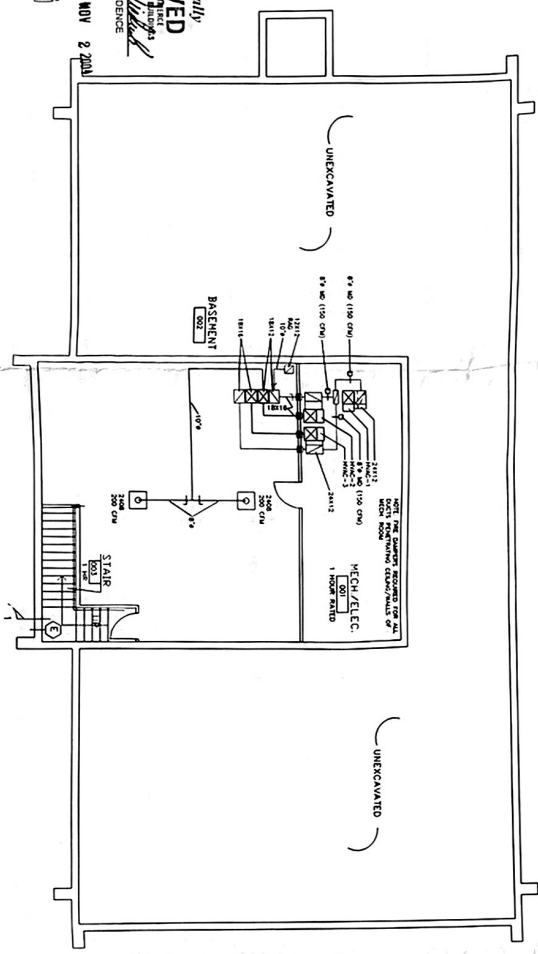


FIRST FLOOR HVAC PLAN
Scale 1/8" = 1'-0"



BASEMENT HVAC PLAN
Scale 1/8" = 1'-0"

Conditionally
APPROVED
MUNICIPALITY OF GREEN BAY
10/15/59
SEE CORRESPONDENCE
NOV 2 2008



William W. Dreyer

HVAC PLANS
PREPARED FOR: FOREMEN HEATING AND COOLING
819 MORLEY ROAD
GREEN BAY, WI 54307

COLDWELL BANKER
OSHKOSH, WI

SERVICE & SUPPLY CO.

707 N. PERKINS STREET
APPLETON, WI 54914
(920) 733-4981



DWG. 10-25-O
SCALE 1/8" = 1'-0"
DESIGNED BY TJH
REVISED
SHEET
H-1

GENERAL NOTES

- 1) COMBUSTION AIR INTAKES AND EXHAUST TO BE INSTALLED AS PER WISCONSIN STATE CODES AND MANUFACTURERS' GUIDELINES.
- 2) ALL OUTSIDE AIR INTAKES TO HAVE MOTORIZED DAMPERS AND BE A MINIMUM OF 10 FT. FROM ANY BUILDING EXHAUST (COMM. 64.0401, 1-3)
- 3) ALL SUPPLY AIR, RETURN AIR AND OUTSIDE AIR DUCTWORK TO BE INSULATED TO MEET REQUIREMENTS OF COMM. 64.0603(2)(c) ALL SUPPLY DUCTS AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-7.5 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND WITH A MINIMUM OF R-7.5 INSULATION WHEN LOCATED OUTSIDE THE BUILDING ENVELOPE. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EJECT SPACES BY A MINIMUM OF R-7.5 INSULATION. ALL SUPPLY DUCTS LOCATED IN PLENUMS WITHIN THE BUILDING ENVELOPE SHALL BE INSULATED TO R-4. EXCEPTIONS: 1) WHEN LOCATED WITHIN EQUIPMENT, 2) WHEN THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15°F.
- 4) PROVIDE DRAIN FOR SEALED COMBUSTION EQUIPMENT (MFC-307)
- 5) THERMAL EXPANSION VALVES TO BE INSTALLED ON ALL ZONED SYSTEM COILS.
- 6) BATHROOMS EXHAUST FANS TO PROVIDE NEGATIVE PRESSURE WHILE PEOPLE ARE PRESENT. (SUPPLY AIR DIFFUSERS) INTO TOILET ROOM(S) TO BE INSTALLED A MINIMUM OF 4 INCHES ABOVE FINISHED FLOOR.
- 7) BPIRE DAMPERS WITH ACCESS PANELS TO BE INSTALLED AS REQUIRED BY WISCONSIN STATE AND LOCAL CODES AT ALL FIRE WALL PENETRATIONS.
- 8) INSTALL TRANSFER DUCT AND GRILLE UNLESS OTHERWISE NOTED IN ALL ROOMS WITHOUT RETURN AIR GRILLES).
- 10) AS AN ALTERNATIVE TO TRANSFERS, UNDERCUT ALL DOORS AS REQUIRED TO PROVIDE PROPER RETURN AIR FLOW.
- 11) HVAC CONTRACTOR TO DETERMINE LOCATION OF ALL THERMOSTATS.
- 12) HVAC CONTRACTOR RESPONSIBLE TO COORDINATE WORK WITH OTHER TRADES.
- 13) LOCATION OF CONDENSING UNITS TO BE DETERMINED.
- 14) DUCT LAYOUTS ARE DIAGRAMMATIC ONLY AND MAY VARY SLIGHTLY DUE TO STRUCTURAL IMPEDIMENTS.
- 15) HVAC CONTRACTOR OR RECOGNIZED BALANCING AGENCY SHALL BE RESPONSIBLE FOR THE TESTING AND BALANCING OF THE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM. AIR SYSTEMS SHALL BE BALANCED IN A MANNER TO MINIMIZE LOSSES FROM DAMPER THROTTLING BY FIRST ADJUSTING FAN SPEED THEN ADJUSTING DAMPERS TO MEET DESIGN FLOW (COMM. 64.0313).
- 16) HVAC CONTRACTOR OR AGENCY RESPONSIBLE FOR BALANCING OF THE VENTILATION SYSTEM SHALL DOCUMENT IN WRITING THE AMOUNT OF OUTSIDE AIR BEING PROVIDED AND DISTRIBUTED FOR THE BUILDING OCCUPANTS AND ANY OTHER SPECIALTY VENTILATION. THE DOCUMENT SHALL BE RETAINED AT THE SITE AND MADE AVAILABLE TO AN INSPECTOR UPON REQUEST. (COMM. 64.0313)
- 17) VOLUME DAMPERS, SPLITTERS, AND DEFLECTORS SHALL BE PROVIDED IN ALL DUCTS TO PERMIT ACCURATE BALANCING OF THE SYSTEM. THE DAMPERS, SPLITTERS, AND DEFLECTORS SHALL BE ADJUSTED TO SATISFY THE HEATING AND VENTILATING REQUIREMENTS OF THE CONDITIONED SPACE AND LOCKED IN PLACE. AIR SUPPLY OUTLETS AND RETURNS SHALL BE EQUIPPED WITH GRILLES OR DEVICES WHICH WILL PROVIDE A UNIFORM DISTRIBUTION OF AIR. (COMM. 64.0313)
- 18) AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER OR OPERATOR. (COMM. 64.0102)
- 19) HVAC CONTROL SYSTEM SHALL BE TESTED TO ASSURE THAT CONTROL ELEMENTS ARE CALIBRATED, ADJUSTED, AND IN PROPER WORKING CONDITION. (COMM. 64.0309)
- 20) ALL SHEET METAL DUCTS, DUCT LINERS, AND FITTINGS SHALL BE CONSTRUCTED IN COMPLIANCE WITH STANDARDS FOR DUCTS IN THE ASHRAE HANDBOOK OF EQUIPMENT VOLUME. PUBLISHED BY THE AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS, OR AS ILLUSTRATED IN THE HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEX HVAC AIR DUCT LEAKAGE TEST MANUAL AS PUBLISHED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. (COMM. 64.0603 & 64.0604).
- 21) HE SUPPLY AIR IS PROVIDED TO TOILET ROOMS OR JANITOR CLOSETS, THE EXHAUST MUST ALSO BE PROVIDED SIMULTANEOUSLY.
- 22) ALL GAS PIPING MUST COMPLY WITH THE NATIONAL FUEL GAS CODE, NFPA 54 (COMM. 65.0400)

FURNACE SCHEDULE

LABEL	MAKE	MODEL	HTC. INPUT	HTC. OUTPUT	AFCR	S.A. CFM	O.A. CFM	VOLTAGE	CONTROL
HVAC-1	BRYANT	340MAY080000	90,000 BTUH	74,000 BTUH	91.0%	1540	150	115V/60/1	PROG. T-STAT
HVAC-2	BRYANT	340MAY080000	90,000 BTUH	74,000 BTUH	91.0%	1540	150	115V/60/1	PROG. T-STAT
HVAC-3	BRYANT	340MAY080000	90,000 BTUH	74,000 BTUH	91.0%	1540	150	115V/60/1	PROG. T-STAT

CONDENSER SCHEDULE

LABEL	MAKE	MODEL	COOL. CAP.	SEER	VOLTAGE	COIL	NOTES
CU-1	BRYANT	561CXA018000	46,000 BTUH	10.50	208V/60/1	CR56XK04R021	R-22
CU-2	BRYANT	561CXA030000	57,000 BTUH	10.50	208V/60/1	CR56XT05R024	R-22
CU-3	BRYANT	561CXA018000	46,000 BTUH	10.50	208V/60/1	CR56XK04R021	R-22

EXHAUST FAN SCHEDULE

LABEL	MAKE	MODEL	CFM	MOTOR VOLTAGE	BALANCING	CONTROL	NOTE
EF-1	BROAN	L200	150	131 W	115/60/1	SPEED CONTROLLER	OCCUPANCY SWITCH
EF-2	BROAN	L200	150	131 W	115/60/1	SPEED CONTROLLER	OCCUPANCY SWITCH
EF-3	BROAN	L100	75	72 W	115/60/1	SPEED CONTROLLER	OCCUPANCY SWITCH
EF-4	BROAN	L100	75	72 W	115/60/1	SPEED CONTROLLER	OCCUPANCY SWITCH

ELEC. BASEBOARD HEATER SCHEDULE

LABEL	MAKE	MODEL	LENGTH	VOLTAGE	BTUH	WATTS	BUILT-IN THERMOSTATS	ACCESSORIES
EBB-1-2,3	Q-MAK	QWR-2500W	6 FT.	208/60/1	5,130	1500		

ELEC. WALL HEATER SCHEDULE

LABEL	MAKE	MODEL	AMPS	VOLTAGE	BTUH	WATTS	ACCESSORIES
EBW-1	Q-MAK	QWR-1200HS	9.6	208V/60/1	6736	2000	BUILT-IN THERMOSTAT

ZONE CONTROL DAMPERS

ZONE	TOTAL CFM	DAMPER SIZE	SERVICE
ZD-1	540	14X10	115,116,117,118
ZD-2	1000	24X10	102,119,120
ZD-1**	DR-PASS	14"	

** NOT SHOWN ON DRAWINGS



W.L. RYGO



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DATE: 10-25-04
SCALE: 1/8" = 1'-0"
DRAWN BY: TJH
CHECKED BY: [blank]