

SCHEDULES GENERAL NOTES:

TYPICAL FOR ALL SCHEDULE SHEETS:

- REFER TO ELECTRICAL STANDARD SCHEDULES, ONE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL ELECTRICAL INFORMATION
- PROVIDE THE FOLLOWING FACTORY-WIRED ELECTRICAL OPTIONS/ACCESSORIES WHERE INDICATED IN SCHEDULE:
 - A - NON-FUSED DISCONNECT SWITCH
 - B - UNIT SHALL BE SINGLE POINT ELECTRICAL CONNECTION WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS
 - C - SERVICE RECEPTACLE
 - D - FUSED DISCONNECT SWITCH
 - E - COMBINATION STARTER
 - F - UNIT SHALL HAVE (2) SINGLE POINT CONNECTIONS WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS. (1) CONNECTION SHALL BE FOR CONDENSING SECTION AND (1) CONNECTION SHALL BE FOR THE REMAINDER OF THE UNIT.
- FOR MODULATION/CONTROL TYPE COLUMN, "VFC" INDICATES VARIABLE FREQUENCY CONTROLLERS. "AUTO" INDICATES AUTOMATIC OPERATION (CONTROLLED BY TEMPERATURE CONTROLS OR SELF CONTAINED CONTROLS), "MANUAL" INDICATES HAND OPERATION.
- IF VARIABLE FREQUENCY CONTROLLERS ARE INDICATED TO BE PROVIDED AND ARE NOT INSTALLED INTEGRAL TO THE UNIT, VARIABLE FREQUENCY CONTROLLERS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR (UNLESS OTHERWISE NOTED) AND INSTALLED BY THE ELECTRICAL CONTRACTOR INCLUDING THE LINE SIDE AND LOAD SIDE WIRING TO THE MOTOR AND INCLUDING MISCELLANEOUS STEEL REQUIRED FOR THE SUPPORT AND MOUNTING OF THE VFC. REFER TO FLOOR PLANS FOR LOCATION.
- WHERE EQUIPMENT IS INDICATED TO HAVE A SINGLE POINT ELECTRICAL CONNECTION, THAT EQUIPMENT SHALL COME COMPLETE WITH FACTORY INSTALLED STARTERS, MOTOR OVERLOAD PROTECTION, CONTACTORS, FUSING AND ALL NECESSARY INTERNAL WIRING AND CONTROLS. PROVIDE A FACTORY MOUNTED UNIT DISCONNECTING MEANS WHERE THE ELECTRICAL CONTRACTOR SHALL MAKE SINGLE POINT CONNECTION. INSTALL PACKAGED EQUIPMENT SUCH THAT THE ELECTRICAL CONNECTION AND CONTROLS ARE ACCESSIBLE AND HAVE CLEARANCES MEETING THE NATIONAL ELECTRICAL CODE.
- WHERE PACKAGED EQUIPMENT IS PROVIDED, NAMEPLATE MUST INDICATE MAXIMUM OVERCURRENT PROTECTION BY HACR RATED CIRCUIT BREAKERS OR FUSES. IF FUSE PROTECTION ONLY IS INDICATED, PROVIDE A FUSIBLE DISCONNECT AND FUSES WITH THE UNIT.
- WHERE EQUIPMENT IS DESIGNATED BY MANUFACTURER AND MODEL NUMBER, THIS IS THE BASIS OF DESIGN. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT BY OTHER SPECIFIED MANUFACTURERS OR PROPOSED ALTERNATE EQUIPMENT BY THE BASIS OF DESIGN MANUFACTURERS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS TO ELECTRICAL REQUIREMENTS, STRUCTURAL LOADING, OR ARCHITECTURAL APURTENANCES AND SHALL INCLUDE THE COST OF SUCH REVISIONS IN HIS BID.
- WHERE EQUIPMENT IS SCHEDULED TO INCLUDE A SERVICE RECEPTACLE, PROVIDE A FACTORY MOUNTED SERVICE RECEPTACLE WITH APPROPRIATE FUSES AND TRANSFORMERS CONNECTED ON THE LINE SIDE OF THE UNIT DISCONNECT. PROVIDE A NAMEPLATE ON THE DISCONNECT SWITCH INDICATING THE PRESENCE OF LIVE POWER TO THE SERVICE RECEPTACLE WHEN THE UNIT DISCONNECT IS IN THE OFF POSITION.
- SIZE ALL EQUIPMENT FEEDERS BASED ON THE LISTED MOP (MAXIMUM OVERCURRENT PROTECTION), REFER TO THE FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE ON THE ELECTRICAL STANDARD SCHEDULES SHEET.

CONDENSING BOILER SCHEDULE																							
UNIT IDENTIFICATION	FUEL			OUTPUT MBH	PRESSURE RATING PSIG	NUMBER OF CONTROL STAGES	DIMENSIONS			FLUID					MODULATION/CONTROL TYPE	ELECTRICAL					MODEL NUMBER	KEYED NOTES	
	TYPE	MIN/MAX MANUFACTURER REQUIRED INLET PRESSURE AT GAS TRAIN	INPUT MBH				WIDTH	LENGTH	HEIGHT	E.W.T. °F	L.W.T. °F	FLOW GPM	FLUID TYPE	W.P.D. FT		VOLTS	PHASE	FLA	MOP	SCCR KA			OPTIONS/ACCESSORIES
B-1	NATURAL GAS	4/14	2000	1750	160	20:1	28	43.6	78	135.0	180.0	75	W	5.5	AUTO	120	1	16.0	20	10	B	BMK-2000	#1
B-2	NATURAL GAS	4/14	2000	1750	160	20:1	28	43.6	78	135.0	180.0	75	W	5.5	AUTO	120	1	16.0	20	10	B	BMK-2000	#1
B-3	NATURAL GAS	4/14	2000	1750	160	20:1	28	43.6	78	135.0	180.0	75	W	5.5	AUTO	120	1	16.0	20	10	B	BMK-2000	#1
B-4	NATURAL GAS	4/14	2000	1750	160	20:1	28	43.6	78	135.0	180.0	75	W	5.5	AUTO	120	1	16.0	20	10	B	BMK-2000	#1

- GENERAL NOTES:**
- REFER TO SCHEDULES GENERAL NOTES.
 - MODEL NUMBERS ARE AERCO UNLESS OTHERWISE NOTED.
 - FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.

- KEYED NOTES:**
- PROVIDE MUFFLER FOR BOILER FLUE.

PUMP SCHEDULE																					
UNIT IDENTIFICATION	SYSTEM SERVED	LOCATION	TYPE	COUPLING TYPE	WATERFLOW GPM	FLUID TYPE	COLDEST SYSTEM OPERATING TEMP. °F FOR PUMP SELECTION	PUMP HEAD FT	OVERLOAD GPM	MINIMUM EFFICIENCY %	MOTOR			MODULATION/CONTROL TYPE	ELECTRICAL				MODEL NUMBER	KEYED NOTES	
											BHP	HP	RPM		VOLTS	PHASE	SCCR KA (NOTE 4)	OPTIONS/ACCESSORIES			
CP-1	B-1	BOILER ROOM	INLINE	FLEXIBLE	75	WATER	40	25	NON-OVERLOADING	67.5	0.699	1 1/2	1800	AUTO	480	3	10	---	E-60 2x2x5.25		
CP-2	B-2	BOILER ROOM	INLINE	FLEXIBLE	75	WATER	40	25	NON-OVERLOADING	67.5	0.699	1 1/2	1800	AUTO	480	3	10	---	E-60 2x2x5.25		
CP-3	B-3	BOILER ROOM	INLINE	FLEXIBLE	75	WATER	40	25	NON-OVERLOADING	67.5	0.699	1 1/2	1800	AUTO	480	3	10	---	E-60 2x2x5.25		
CP-4	B-4	BOILER ROOM	INLINE	FLEXIBLE	75	WATER	40	25	NON-OVERLOADING	67.5	0.699	1 1/2	1800	AUTO	480	3	10	---	E-60 2x2x5.25		
CP-401	HOT WATER HEATING SYSTEM	BOILER ROOM	BASE MOUNTED	FLEXIBLE	300	WATER	40	70	NON-OVERLOADING	75.6	6.89	10	1800	VFC	480	3	10	---	E-1510 2.588		
CP-402	HOT WATER HEATING SYSTEM	BOILER ROOM	BASE MOUNTED	FLEXIBLE	300	WATER	40	70	NON-OVERLOADING	75.6	6.89	10	1800	VFC	480	3	10	---	E-1510 2.588		

- GENERAL NOTES:**
- REFER TO SCHEDULES GENERAL NOTES.
 - MODEL NUMBER ARE BELL & GOSSETT UNLESS OTHERWISE NOTED.
 - FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.
 - CONTROLLER (E.G. VARIABLE FREQUENCY CONTROLLER, MOTOR STARTER) FOR SPECIFIED EQUIPMENT SHALL BE MANUFACTURED AND MARKED PER NEC WITH A MINIMUM SHORT CIRCUIT CURRENT RATING AS INDICATED.

REVISION

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PROJECT TITLE
**WYLLIE ELEMENTARY
 SCHOOL REMODELING
 DEXTER COMMUNITY SCHOOLS**
 DEXTER, MICHIGAN

SHEET TITLE
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