







(ADRITH	SECOND FLOOR PARTIAL HVAC PLAN
Ho H	SCALE: 3/16"=1'-0"

MARK	LOCATION	TYPE	SERVICE	CAPACITY GPM	TDH (FT)	RPM	DESIGN TEMP	HP	VOLTS/PH/HZ	MANUFACTURER MODEL NO	REMARKS
HVAC-2670	UNIT 2670	INLINE	25% PROP. GLYCOL	9	30	-	45/120	1/6	120/1/60	GRUNDROS (2) UP26-99	SEE NOTES
HVAC-2672	UNIT 2672	INLINE	25% PROP. GLYCOL	9	30	-	45/120	1/6	120/1/60	GRUNDROS (2) UP26-99	SEE NOTES
HVAC-2674	UNIT 2674	INLINE	25% PROP. GLYCOL	9	30	-	45/120	1/6	120/1/60	GRUNDROS (2) UP26-99	SEE NOTES
HVAC-2676	UNIT 2676	INLINE	25% PROP. GLYCOL	9	30	-	45/120	1/6	120/1/60	GRUNDROS (2) UP26-99	SEE NOTES
HVAC-2678	UNIT 2678	INLINE	25% PROP. GLYCOL	9	30	-	45/120	1/6	120/1/60	GRUNDROS (2) UP26-99	SEE NOTES
HVAC-2680	UNIT 2680	INLINE	25% PROP. GLYCOL	9	30	-	45/120	1/6	120/1/60	GRUNDROS (2) UP26-99	SEE NOTES

2. CONTRACTOR TO DESIGN AND SUBMIT PUMP SELECTION INFORMATION FOR APPROVAL BEFORE PURCHASING.

MARK LOCATION	AREA	MIN	FAN					FILTER				COOLING CAPACITY										HEATING CAPACITY				UNIT SIZE			SIZE	ELECTRIC		OPER	MANUFACTURER	REMARKS	
IVIARK	ARK LOCATION SERVED	OA CFM	CFM	ESP	DIA	HP	VOLT/PH/HZ	TYPE	EFF %	MBH	GPM	EWT	LWT	PD	EAT (°F, DB)	EAT (°F, WB)	LAT (°F, DB)	LAT (°F, WB)	EER	МВН	EAT	LAT	EWT	LWT	HEAT KW		СОР	L W	' Н	FLA	VOLT/PH/HZ	(LBS)	MODEL NO.	REMARKS	
	UNIT 2670	UNIT 2670	60	1200	1"	-	1/2"	208-230/1/60	2" MERV 8	50%	38.0	9.0	70	90	3.8	80	67	57	56	17.2	28.0	68	90	50	44	10	34.0	3.8	26.0 21.	5 47.25	-	208-230/1/60	290	BOSCH CE0351CFCFLB	SEE NOTE
HVAC-2672	UNIT 2672	UNIT 2672	60	1200	1"	-	1/2"	208-230/1/60	2" MERV 8	50%	38.0	9.0	70	90	3.8	80	67	57	56	17.2	28.0	68	90	50	44	10	34.0	3.8	26.0 21.	5 47.25	-	208-230/1/60	290	BOSCH CE0351VTCFLT	SEE NOTE
HVAC-2674	UNIT 2674	UNIT 2674	60	1200	1"	-	1/2"	208-230/1/60	2" MERV 8	50%	38.0	9.0	70	90	3.8	80	67	57	56	17.2	28.0	68	90	50	44	10	34.0	3.8	26.0 21.	5 47.25	-	208-230/1/60	290	BOSCH CE0351CFCFLB	SEE NOTE
HVAC-2676	UNIT 2676	UNIT 2676	60	1200	1"	-	1/2"	208-230/1/60	2" MERV 8	50%	38.0	9.0	70	90	3.8	80	67	57	56	17.2	28.0	68	90	50	44	10	34.0	3.8	26.0 21.	5 47.25	-	208-230/1/60	290	BOSCH CE0351VTCFLT	SEE NOTE
HVAC-2678	UNIT 2678	UNIT 2678	60	1200	1"	-	1/2"	208-230/1/60	2" MERV 8	50%	38.0	9.0	70	90	3.8	80	67	57	56	17.2	28.0	68	90	50	44	10	34.0	3.8	26.0 21.	5 47.25	-	208-230/1/60	290	BOSCH CE0351CFCFLB	SEE NOTE
HVAC-2680	UNIT 2680	UNIT 2680	60	1200	1"	-	1/2"	208-230/1/60	2" MERV 8	50%	38.0	9.0	70	90	3.8	80	67	57	56	17.2	28.0	68	90	50	44	10	34.0	3.8	26.0 21.	5 47.25	-	208-230/1/60	290	BOSCH CE0351VTCFLT	SEE NOTE

NOTES:

1. PROVIDE UNIT WITH INSULATED ENCLOSURE (CLOSED CELL FROM INSULATION), FRONT ACCESS, AIR AND WATER FREEZE PROTECTION, TRANSFORMER (75VA), SOFT START, SMOKE DETECTOR, SUPPLEMENTAL ELECTRIC HEATER, AND 10 YEAR WARRANTY ON PARTS AND LABOR. 2. CONTRACTOR TO SUBMIT EQUIPMENT SELECTION INFORMATION FOR APPROVAL BEFORE PURCHASING.

GENERAL NOTES:

1. SEE GENERAL NOTES ON TITLE SHEET.

KEY NOTES:

- 1 PRIOR TO STARTING ANY SITE WORK, CONTRACTOR TO CONTACT "MISS DIG" AND VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND PIPING.
- (2) PRELIMINARY/PROPOSED BOREHOLE LOCATIONS. FINAL BOREHOLE LOCATIONS TO BE DETERMINED BY CONTRACTOR AND APPROVED BY OWNER ONCE LOCATIONS OF UNDERGROUND UTILITIES AND PIPING HAVE BEEN VERIFIED.
- (3) PRELIMINARY ROUTING OF UNDERGROUND PIPING. CONTRACTOR TO VERIFY ROUTING BASED ON LOCATIONS OF UNDERGROUND UTILITIES. SEE SCHEMATIC ON DRAWING S2.0.
- 4 INSTALL FLOW CENTER (ABOVE NEW RETURN DUCT) NEXT TO HEAT PUMP UNIT. CONTRACTOR TO ROUTE PIPING FROM CRAWL SPACE AND UP TO UNITS.
- 5 INSTALL FLOW CENTER NEXT TO HEAT PUMP. CONTRACTOR TO PROVIDE SUPPORTS AS REQUIRED FOR MOUNTING.
- $\langle 6 \rangle$ CONTRACTOR TO SEAL ALL WALL AND FLOOR PENETRATIONS TO ─ MAINTAIN EXISTING FIRE RATING.
- $\langle 7 \rangle$ PIPING SHALL BE ROUTED UNDERGROUND, THROUGH FOUNDATION WALL AND INTO CRAWL SPACE. CONTRACTOR TO INSTALL SLEEVE IN FOUNDATION WALL PER DETAIL ON DRAWING \$2.0.
- (8) INSULATE ALL PIPING PER SPECIFICATIONS.
- (9) EXISTING RECESSED ELECTRICAL PANEL (100A)
- $\langle 10 \rangle$ contractor to provide and install new thermostat ── (ECO-BEE) FOR HEAT PUMP.
- SPACE IS LIMITED SO NEW HEAT PUMP, ASSOCIATED DUCT WORK, AND EQUIPMENT MUST FIT IN EXISTING 28"W x 58"L MECHANICAL
- CONTRACTOR TO REMOVE EXISTING BOARD INSULATION ON RETURN AIR PLENUM IN CRAWL SPACE, INSTALL METAL PANNING AND REINSULATE. (TYP FOR ALL FIRST FLOOR UNITS)
- REMOVE EXISTING RETURN AIR DUCT AND PATCH FLOOR. INSTALL RETURN AIR DUCT AS SHOWN (WITH FLEX CONNECTION). NEW ELBOW TO BE INSTALLED WITH TURNING VANES.
- $\langle 14 \rangle$ remove existing return air duct. Install new return air DUCT AS SHOWN (WITH FLEX CONNECTION). NEW RADIUS ELBOW OR TURNING VANES.

LEGEND:

BOREHOLE (PRELIMINARY LOCATION)

SUPPLY AIR DIFFUSER

RETURN AIR GRILLE

DIAMETER

FIRST FLOOR/ SECOND FLOOR

ELECTRICAL PANEL (RECESSED)

PROJECT LOCATION —







Norstar 200 South Division Street Buffalo, NY 14204 PH. (716)847-1098 FX. (716)847-1668 www.norstarus.com



Process Results, Inc. 201 South Ann Arbor St. Saline, MI 48176 PH:734.429.8900 FX:734.429.8901 www.processresults.com

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PROJECT MANAGER:

MECHANICAL

MALLET'S CREEK SITEPLAN

