

NORTH	HILLSIDE MANOR SITE PLAN
	SCALE: NONE

PUMP	SCHEDU	LE (P)									
MARK	LOCATION	TYPE	SERVICE	CAPACITY GPM	TDH (FT)	RPM	DESIGN TEMP	HP	VOLTS/PH/HZ	MANUFACTURER MODEL NO	REMARKS
HVAC-1020	UNIT 1020	INLINE	25% PROP. GLYCOL	9	30	-	45/120	1/6	120/1/60	GRUNDROS (2) UP26-99	SEE NOTES
HVAC-1022	UNIT 1022	INLINE	25% PROP. GLYCOL	9	30	-	45/120	1/6	120/1/60	GRUNDROS (2) UP26-99	SEE NOTES
HVAC-1030	UNIT 1030	INLINE	25% PROP. GLYCOL	9	30	-	45/120	1/6	120/1/60	GRUNDROS (2) UP26-99	SEE NOTES
HVAC-1032	UNIT 1032	INLINE	25% PROP. GLYCOL	9	30	-	45/120	1/6	120/1/60	GRUNDROS (2) UP26-99	SEE NOTES
HVAC-1040	UNIT 1040	INLINE	25% PROP. GLYCOL	9	30	-	45/120	1/6	120/1/60	GRUNDROS (2) UP26-99	SEE NOTES
HVAC-1042	UNIT 1042	INLINE	25% PROP. GLYCOL	9	30	-	45/120	1/6	120/1/60	GRUNDROS (2) UP26-99	SEE NOTES

. INFORMATION PROVIDED IS ONLY PRELIMINARY AND TO EXPRESS PROJECT INTENT.

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

MARK	ARE	AREA	MIN			FAN			FILTE	R					COOLING	CAPACITY						HEATIN	G CAPA	CITY				UNIT SIZE		ELECTRIC	OPER	MANUFACTURER	REMARKS
WARK	LOCATION	OCATION SERVED OA CFM CFM			ESP	P DIA H		VOLT/PH/HZ	TYPE EFF		MBH	GPM	EWT	LWT PD	EAT (°F, DB)	EAT (°F, WB)	LAT (°F, DB)	AT LAT DB) (°F, WB)	EER	MBH	EAT	LAT	EWT LW	LWT	HEATE KW N		СОР	L W	Н	FLA VOLT/PH/HZ	WT (LBS)		REMARKS
IVAC-1020	UNIT 1020	UNIT 1020	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 NOTES
IVAC-1022	UNIT 1022	UNIT 1022	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
IVAC-1030	UNIT 1030	UNIT 1030	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
IVAC-1032	UNIT 1032	UNIT 1032	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
VAC-1040	UNIT 1040	UNIT 1040	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
IVAC-1042	UNIT 1042	UNIT 1042	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
- (3) PRELIMINARY ROUTING OF UNDERGROUND PIPING. CONTRACTOR TO VERIFY ROUTING BASED ON LOCATIONS OF UNDERGROUND UTILITIES. SEE SCHEMATIC ON DRAWING \$2.0.

UTILITIES AND PIPING HAVE BEEN VERIFIED.

- 4 INSTALL FLOW CENTER (ABOVE NEW RETURN DUCT) NEXT TO HEAT PUMP UNIT. CONTRACTOR TO ROUTE PIPING FROM CRAWL SPACE AND UP TO UNITS.
- $\langle 5 \rangle$  Install flow center next to heat pump. Contractor to PROVIDE SUPPORTS AS REQUIRED FOR MOUNTING.
- 6 CONTRACTOR TO SEAL ALL WALL AND FLOOR PENETRATIONS TO MAINTAIN EXISTING FIRE RATING.
- 7 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 SPACE.
- CONTRACTOR TO REMOVE EXISTING BOARD INSULATION ON RETURN AIR PLENUM IN CRAWL SPACE, INSTALL METAL PANNING AND REINSULATE. (TYP FOR ALL FIRST FLOOR UNITS)
- (13) 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.
- (14) 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)

AIR FLOW

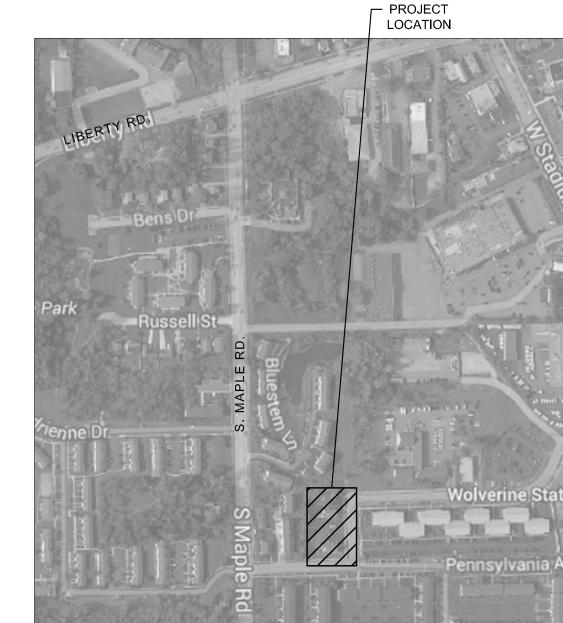
SUPPLY AIR DIFFUSER

RETURN AIR GRILLE DIAMETER

FIRST FLOOR/

SECOND FLOOR

ELECTRICAL PANEL (RECESSED)







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

B ISSUED FOR BIDS 8/20/14 A REVIEW 7/22/14 /\ REVISION DATE

PLOT DATE: 08/21/2014 9:37 AM DRAWN BY: REVIEWED BY: PROJECT MANAGER:

**MECHANICAL** 

HILLSIDE MANOR SITEPLAN

