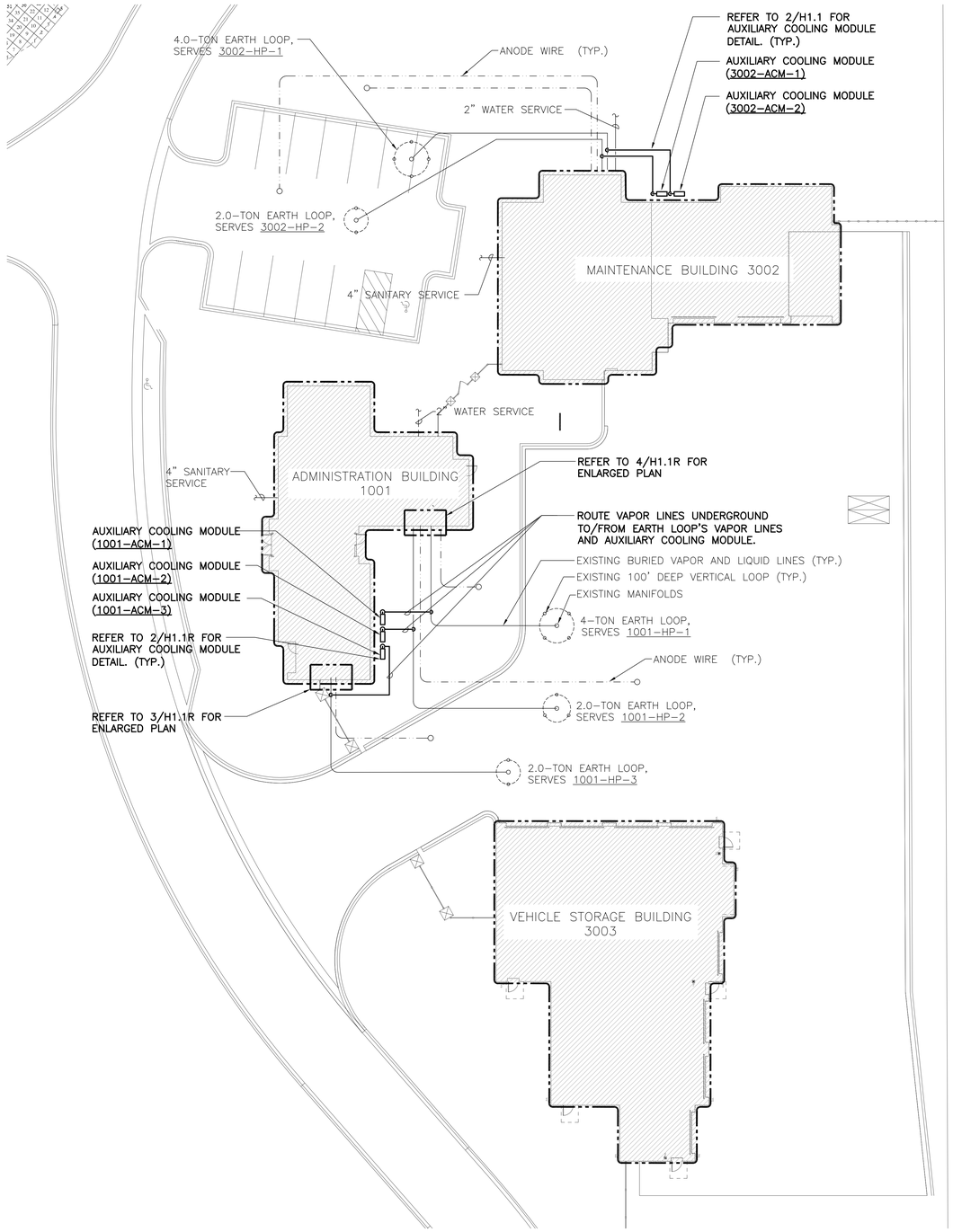
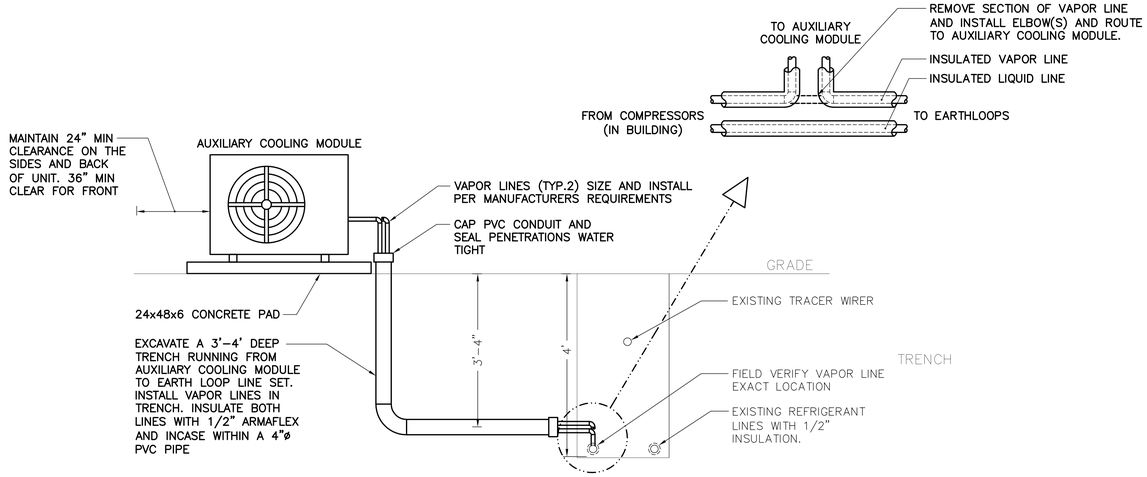


1 MECHANICAL SITE PLAN

SCALE: 1/16"-1'-0"



2 AUXILIARY COOLING MODULE DETAIL

NO SCALE

NOTES:

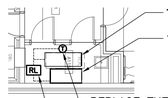
1. INSTALL AUXILIARY COOLING MODULE AND PIPING PER MANUFACTURER'S REQUIREMENTS.
2. BOTH REFRIGERANT LINES SHALL BE INSULATED THE ENTIRE LENGTH.
3. TUBING BENDS SHALL HAVE A MINIMUM RADIUS OF 12".
4. BACKFILL TRENCH WITH IMPORTED ENGINEERED FILL – NO ROCKS OR SHARP OBJECTS SHALL BE IN FILL.
5. ALL LINE SET SIZES PER MANUFACTURER REQUIREMENTS.

AUXILIARY COOLING MODULE SCHEDULE

MARK	HEAT PUMP SYSTEM SERVED	REFRIGERANT	TYPE	NOMINAL CAPACITY	FAN AIR FLOW	FAN RPM	CONNECTION SIZES		ELECTRICAL		MANUFACTURER (EARTHLINKED) MODEL # (NOTE 1)	REMARKS
				MBH	CFM	RPM	ACM	VAPOR LINE SET	VOLT	HP		
1001-ACM-1	1001-HP-1	R-410A	AIR COOLED	48	1800	810	1-1/8"	7/8"	208-1	1/6	4272C	-----
1001-ACM-2	1001-HP-2	R-410A	AIR COOLED	24	1800	810	7/8"	5/8"	208-1	1/6	1836C	
1001-ACM-3	1001-HP-3	R-410A	AIR COOLED	24	1800	810	7/8"	5/8"	208-1	1/6	1836C	
3002-ACM-1	3002-HP-1	R-410A	AIR COOLED	48	1800	810	1-1/8"	7/8"	208-1	1/6	4272C	-----
3002-ACM-2	3002-HP-2	R-410A	AIR COOLED	24	1800	810	7/8"	5/8"	208-1	1/6	1836C	

NOTES

1. THE AUXILIARY COOLING MODULE IS SOLD AS A SYSTEM COMPONENT AND MUST BE PROPERLY SIZED/MATCHED WTH THE COMPRESSOR UNIT PER MANUFACTURER'S (EARTHLINKED) REQUIREMENTS.



REPLACE THERMOSTAT FOR 1001-AHU-3, THERE IS A REMOTE SENSOR FOR THE THERMOSTAT, LOCATED IN WOMEN'S A112. THE REMOTE SENSOR DOES NOT NEED TO BE REPLACED. THERMOSTAT IS A HONEYWELL-PRESTIGE IAQ (MODEL NUMBER YTHX9421R5101).

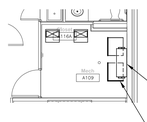
INSTALL A NEW 24V TIME DELAY RELAY TO DELAY THE START OF THE ENERGY RECOVERY VENTILATOR (1001-ERV-2) FANS. CURRENTLY THE ERV AND AIR HANDLING UNIT (1001-AHU-3) START AT THE SAME TIME. THE AHU HAS AN ECM MOTOR THAT STARTS SLOWER THAN THE FULL VOLTAGE MOTORS FOR THE ERV. THE DIFFERENCE IN START SPEEDS RESULTS IN THE AHU FAN TO SPIN BACKWARDS. CONTRACTOR SHALL ADJUST THE TIME DELAY RELAY TO ALLOW FOR THE AHU FAN TO REACH FULL SPEED PRIOR TO STARTING THE ERV FANS. SEE NOTE 1 FOR TIME DELAY DESCRIPTION.

3 ADMINISTRATION BLDG ENLARGED PLAN

SCALE: 1/8"-1'-0"

NOTES:

1. PROVIDE A TIMING RELAY IN GENERAL PURPOSE NEMA 1 ENCLOSURE. RELAY TO HAVE 1 N.O. AND 1 N.C. CONVERTIBLE TIMED CONTACTS AND 2 N.O. INSTANTANEOUS CONTACTS, AND ADJUSTABLE TIME ON DELAY DIAL THAT IS ADJUSTABLE FORM 0.2-60 SECONDS. CONTRACTOR TO VERIFY IF 24V SIGNAL FROM THERMOSTAT IS AC OR DC AND PROVIDE THE APPROPRIATE RELAY. RELAY TO BE SQUARE D CLASS 8510 TYPE X OR EQUAL.



REBALANCE SUPPLY AIRFLOW ON ENERGY RECOVERY VENTILATOR (1001-ERV-1) TO DELIVER A MAXIMUM OF 300 CFM.

REPLACE 2-TON COMPRESSOR ON 1001-HP-2, CONTACT EARTHLINKED'S TECH SUPPORT STAFF FOR DIAGNOSIS OF COMPRESSOR PRIOR TO COMPRESSOR REPLACEMENT.

4 ADMINISTRATION BLDG ENLARGED PLAN

SCALE: 1/8"-1'-0"

HVAC REPAIRS 1-12-15

Revisions	Date

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I hearby certify that this Plan, Specification, or Report was prepared by me, or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Oregon.

Signature:
Name: Warren L. Lloyd
Discipline: Mechanical
Oregon Registration No. 78701PE Expiration date: 12.31.16
Date Issued: 01.12.14

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NATIONAL CEMETERY ADMINISTRATION

Drawing Title	MECHANICAL SITE PLAN
Approved: Director, Office of Construction Management	
Approved: Director, Project Management Service	
Project Title	REPLACE ADMINISTRATION AND MAINTENANCE BUILDING AND SITE IMPROVEMENTS
Building Number	
Checked	WadRos
Drawn	JamTho
Location	EAGLE POINT NATIONAL CEMETERY 2763 RILEY ROAD EAGLE POINT, OR 97524
Date	01-12-2015
Project No.	906CM3009
DRAWING NO.	H-1.1R
Dwg. • Of •	