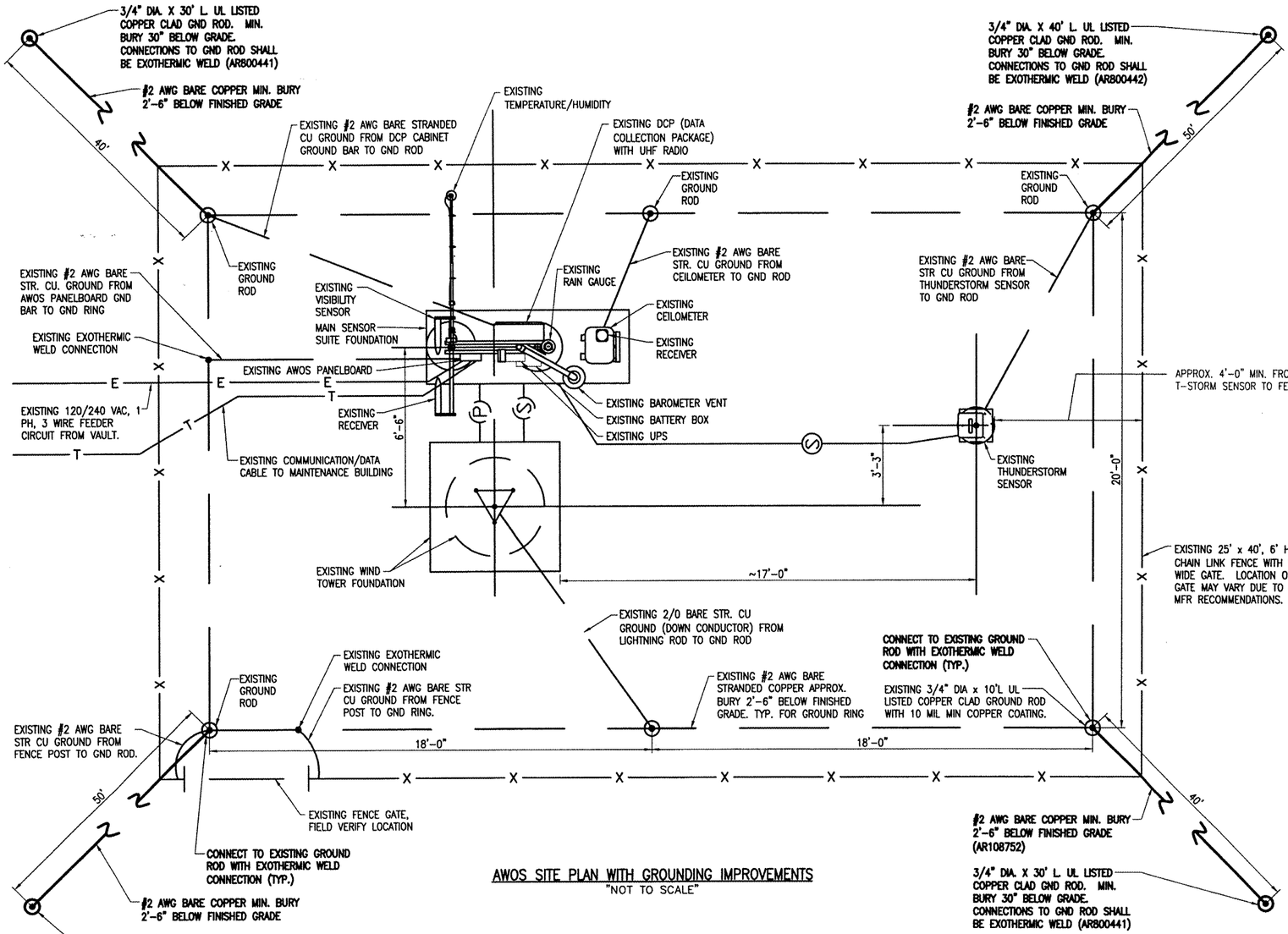

AWOS SITE PLAN WITH GROUNDING IMPROVEMENTS
"NOT TO SCALE"

NOTES:

ALL WORK SHALL BE PERFORMED IN THE PRESENCE OF THE RESIDENT ENGINEER.

ALL WORK SHALL BE PERFORMED WITH THE AWOS SHUT OFF.

COORDINATE WORK TO AVOID INTERFERENCES WITH EXISTING FENCE POSTS.

GROUNDING NOTES:

THE EXISTING GROUND RING FOR THE AWOS SHALL BE EXCAVATED AT TWO OF THE RESPECTIVE CORNERS TO LOCATE THE EXISTING CORNER GROUND RODS. A 3/4" DIAMETER BY 30-FOOT GROUND ROD SHALL BE INSTALLED 40 FEET OUTWARD DIAGONALLY FROM THE RESPECTIVE EXITING CORNER GROUND ROD IN THE GROUND RING. A #2 AWG BARE COPPER LATERAL CONDUCTOR WILL BE CONNECTED TO THE EXISTING GROUND ROD IN THE GROUND RING AND EXTENDED 40 FEET DIAGONALLY OUTWARD FROM THE GROUND RING IN A 30-INCH MINIMUM DEPTH TRENCH AND CONNECTED TO THE 30 FOOT GROUND ROD. AT THE OPPOSITE CORNER OF THE EXISTING GROUND RING FOR THE AWOS A SECOND 3/4" DIAMETER BY 30-FOOT GROUND ROD SHALL BE INSTALLED 40 FEET OUTWARD DIAGONALLY FROM THE RESPECTIVE EXISTING CORNER GROUND ROD IN THE GROUND RING. A #2 AWG BARE COPPER LATERAL CONDUCTOR WILL BE CONNECTED TO THE EXISTING GROUND ROD AND EXTENDED 40 FEET DIAGONALLY OUTWARD FROM THE GROUND RING IN A 30-INCH MINIMUM DEPTH TRENCH AND CONNECTED TO THE 30 FOOT GROUND ROD. AFTER THE TWO LATERALS AND GROUND RODS ARE INSTALLED THE CONTRACTOR SHALL TEST THE AWOS GROUND RING WITH AN INSTRUMENT SPECIFICALLY DESIGNED FOR TESTING GROUND SYSTEMS. GROUND RESISTANCE TEST SHALL BE CONDUCTED IN THE PRESENCE OF THE RESIDENT ENGINEER. TEST RESULTS SHALL BE RECORDED AND PROVIDED TO THE RESIDENT ENGINEER.

IF GROUND RESISTANCE EXCEEDS 10 OHMS, TWO ADDITIONAL GROUND RODS AND LATERAL GROUNDING ELECTRODE CONDUCTORS WILL BE CONNECTED TO THE AWOS GROUND RING AS FOLLOWS:

THE EXISTING GROUND RING FOR THE AWOS SHALL BE EXCAVATED AT THE TWO REMAINING RESPECTIVE CORNERS TO LOCATE THE EXISTING CORNER GROUND RODS. A 3/4" DIAMETER BY 40-FOOT GROUND ROD SHALL BE INSTALLED 50 FEET OUTWARD DIAGONALLY FROM THE RESPECTIVE EXITING CORNER GROUND ROD IN THE GROUND RING. A #2 AWG BARE COPPER LATERAL CONDUCTOR WILL BE CONNECTED TO THE EXISTING GROUND ROD IN THE GROUND RING AND EXTENDED 50 FEET DIAGONALLY OUTWARD FROM THE GROUND RING IN A 30-INCH MINIMUM DEPTH TRENCH AND CONNECTED TO THE 40 FOOT GROUND ROD. AT THE OPPOSITE CORNER OF THE EXISTING GROUND RING, FOR THE AWOS, A SECOND 3/4" DIAMETER BY 40-FOOT GROUND ROD SHALL BE INSTALLED 50 FEET OUTWARD DIAGONALLY FROM THE RESPECTIVE EXISTING CORNER GROUND ROD IN THE GROUND RING. A #2 AWG BARE COPPER LATERAL CONDUCTOR WILL BE CONNECTED TO THE EXISTING GROUND ROD AND EXTENDED 50 FEET DIAGONALLY OUTWARD FROM THE GROUND RING IN A 30-INCH MINIMUM DEPTH TRENCH AND CONNECTED TO THE 30 FOOT GROUND ROD. AFTER THE TWO ADDITIONAL LATERALS AND GROUND RODS ARE INSTALLED THE CONTRACTOR SHALL TEST THE AWOS GROUND RING WITH AN INSTRUMENT SPECIFICALLY DESIGNED FOR TESTING GROUND SYSTEMS. GROUND RESISTANCE TEST SHALL BE CONDUCTED IN THE PRESENCE OF THE RESIDENT ENGINEER. TEST RESULTS SHALL BE RECORDED AND PROVIDED TO THE RESIDENT ENGINEER.

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.

BY	REVISION	DATE

TRI-TOWNSHIP AIRPORT
SAVANNA, CARROLL COUNTY
ILLINOIS

IL PROJ.: SFY-3782 A.I.P. PROJ.: 3-17-0091-B14

HS Project No. 07A0144D 0800
Filename E-102.DWG
Scale NOT TO SCALE
Date 05/13/08

LAYOUT	KNL	05/12/08
DRAWN	BAK	05/12/08
REVIEWED	CAH	05/13/2008

HANSON
Hanson Professional Services Inc.
1525 South Sixth Street
Springfield, Illinois 62703-2886
Offices Nationwide

CONSTRUCT NEW VAULT

AWOS GROUNDING IMPROVEMENTS