

LEGEND	EXISTING
GROUND CONTOUR	
AIRPORT PROPERTY	— — — — —
OBSTACLE FREE AREA (OFA)	— · — · — · —
TREE LINE	~~~~~
SECURITY FENCE	— x — x —
SWALE/DITCH	
R/W END IDENTIFIER LIGHTS (REIL)	▷
WETLAND BOUNDARY	≡ ≡ ≡ ≡
UNIMPROVED ROADWAYS	
PAVEMENT	=====

EXISTING	BUILDINGS
①	T—Hangar 10 Units
②	48' x 48' Hangar (Under Construction)
③	Hangar 3 Units Each
④	T—Hangars
⑤	GA Hangar
⑥	Hangar 3 Units
⑦	Hangar
⑧	Prestige Paint Shop Hangar
⑨	Storage Building
⑩	Terminal / Hangar
⑪	T—Hangar
⑫	T—Hangars
EXISTING	TERMINAL AREA PAVEMENT
A	Main Apron
B	Fuel Apron
C	South Apron
D	Auto Parking

AWOS TOWER
COORDINATES
NORTH 890379.76
EAST 1485135.50

IRON ROD 1
3/8" IR
NORTH 890094.70
EAST 1485197.75
ELEV 227.38

IRON ROD 2
3/8" IR
NORTH 890484.32
EAST 1485128.36
ELEV 228.76

AWOS TOWER
COORDINATES
NORTH 44°56'27.94919"
WEST 73°05'58.89799"

KEY NOTES:

INSTALL POWER HANDHOLES

 $\frac{C}{2}$

Ⓟ DIRECT BURIAL CABLE TO AWOS SERVICE. 2/C#8, 1/C#8 GROUND.

 $\frac{B}{2}$

INSTALL AWOS-IIIIP SENSOR ARRAY
(ITEMS SHOWN ON SHEET 7)

CONSTRUCT AWOS SERVICE

B
C

CONSTRUCT TOWER AND SENSOR SUITE FOUNDATIONS	A 8.9
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CONSTRUCT 10 METER
WIND TOWER FOUNDATION

 INSTALL 10 METER
WIND TOWER

TREES TO BE CLEAR
CUT AND ROOTS
GRUBBED IN THIS
AREA (SINGLE
HATCHING)

— TREES TO BE CLEA
CUT ONLY IN THIS
AREA (DOUBLE
HATCHING)

— ARCHEOLOGICALLY
SENSITIVE AREA
(SEE SPECIAL
NOTE, SHEET 2)

CONTRACTOR

EVATION 246.3

IRON ROD 1

IRON ROD 2
AWOS TOWER AND
SENSOR ARRAY LOCATION

Runway 1-19 North 10°06' W (Grid) 3000'x60

Taxiway "B"

— Taxiway "A"

2 Taxiway "C"

NEW RISER POLE
W/METER, DISCONNECT,
AND SERVICE DROP

EXISTING UTILITY POLE
W/ PROPOSED 120/240V
POWER CO.
TRANSFORMER

A INSTALL AWOS CENTRAL
DATA PROCESSING
STATION

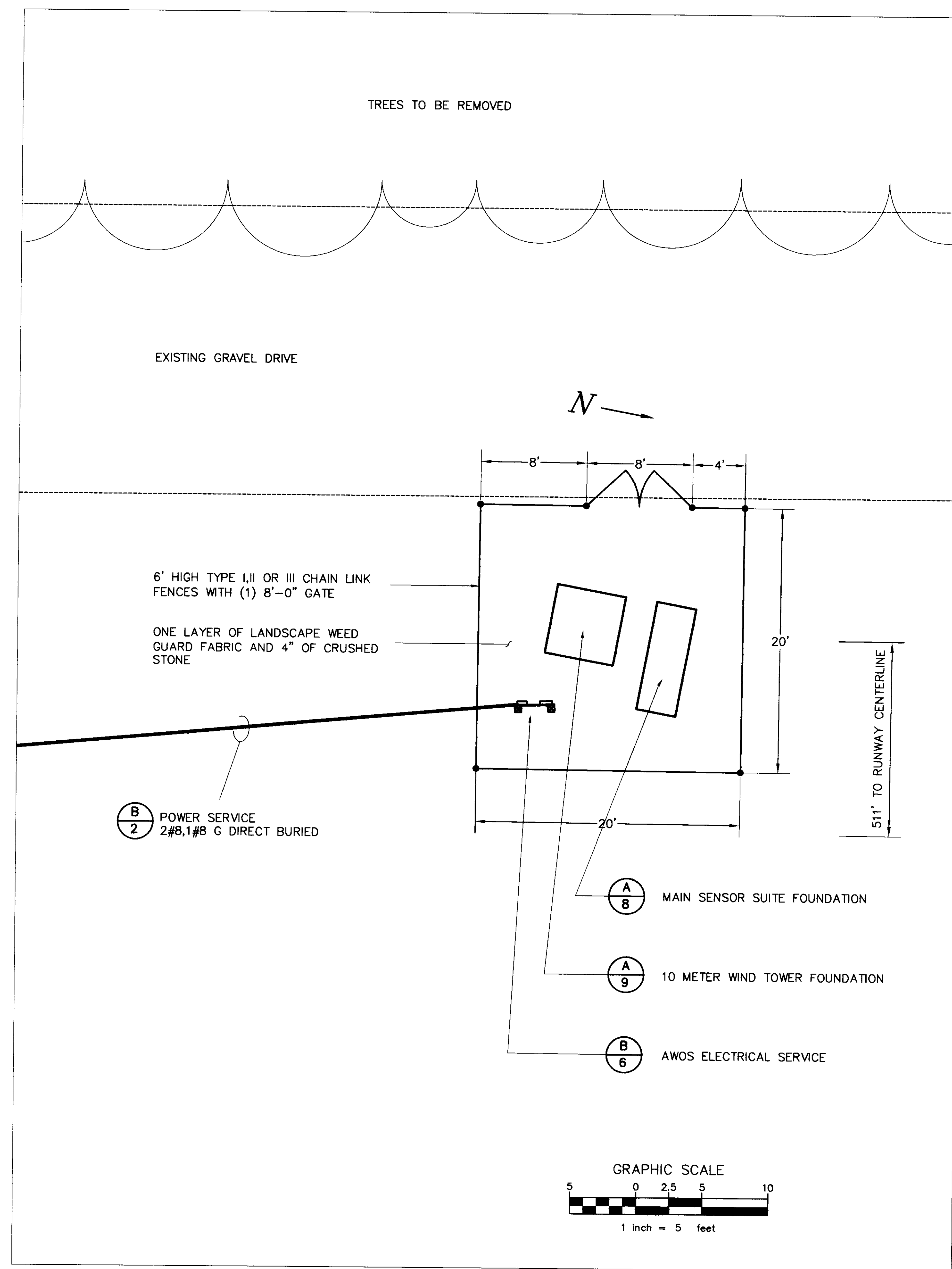
GRAPHIC SCALE



1 inch = 400 feet

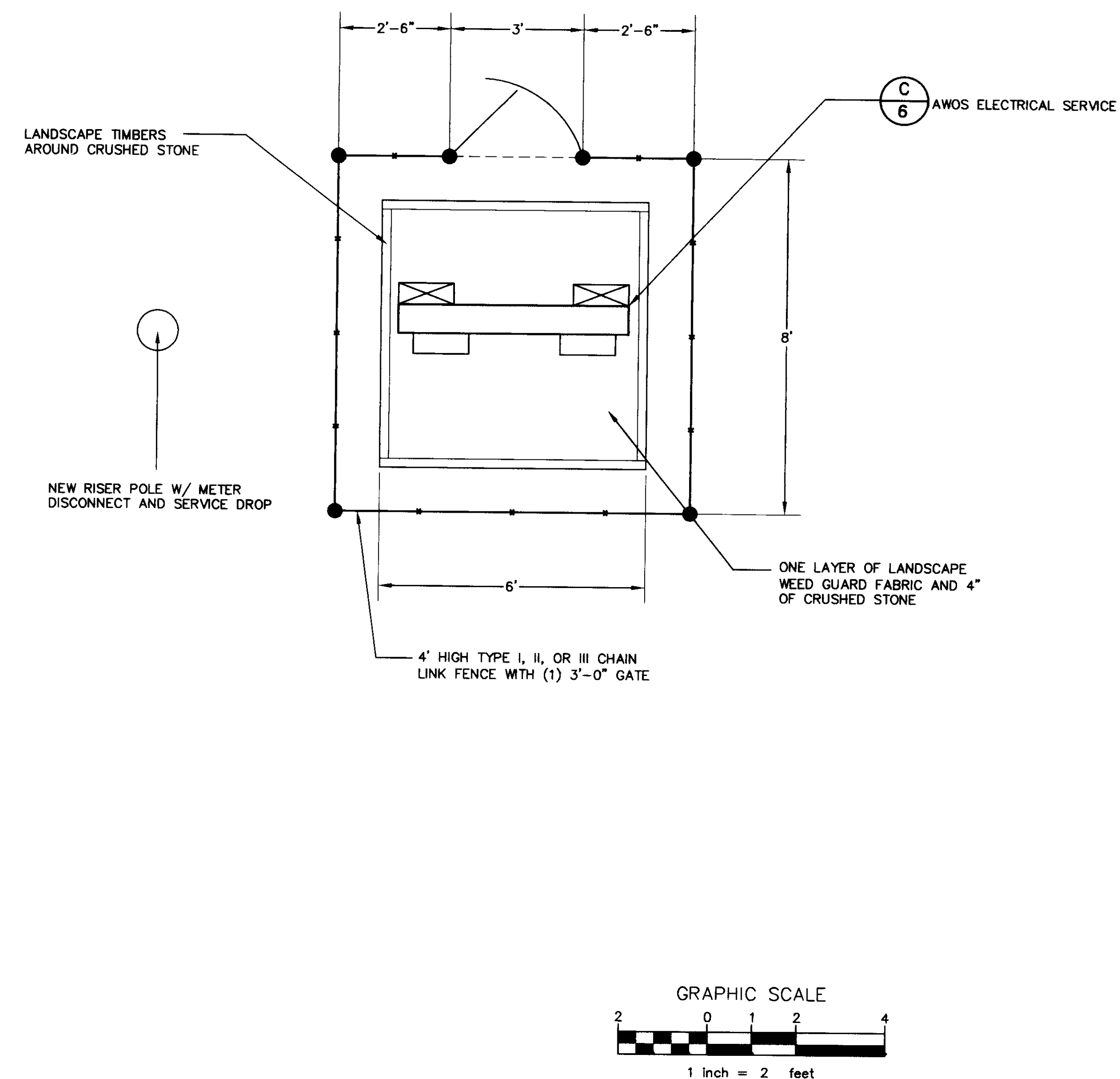
NOTES:

1. Horizontal Datum NAD 83 (1986) International Feet.
2. Vertical Datum NAVD 88 International Feet.
3. Existing easement & property lines based on "Airport Property Map" prepared for VAOT by Clough Harbour Associates March 1999.



A
5 AWOS TOWER AND SENSOR ARRAY LOCATION SITE LAYOUT DETAIL
SCALE = 1"=5'

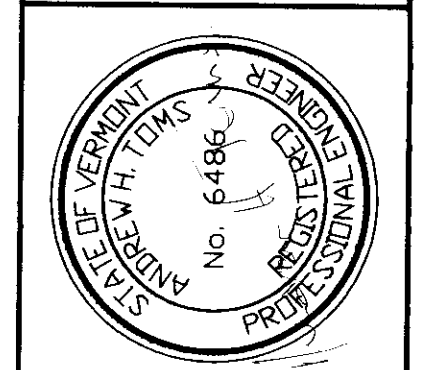
AIRPORT ACCESS ROAD



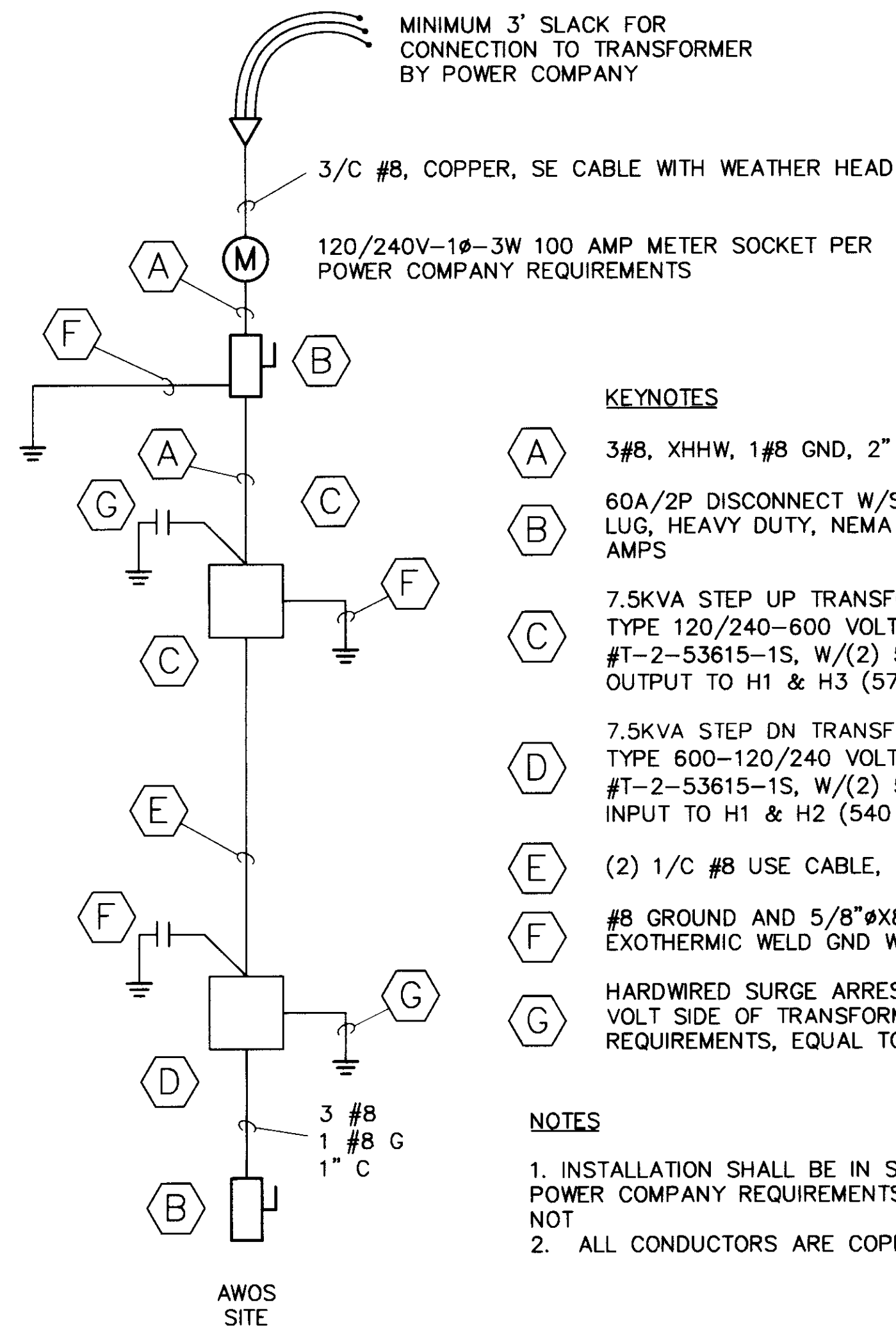
B
5 AWOS SERVICE DROP SITE LAYOUT DETAIL
SCALE = 1"=2'

Rev.	Description	By	Date

VERMONT
HIGHGATE
FRANKLIN COUNTY STATE AIRPORT
SITE LAYOUT PLAN
AWOS INSTALLATION
FRANKLIN AIR 04-3144 C1



Project No.	8180066
Proj. Manager	AHT
Proj. Designer	AHT
Drawn By	DNF
Checked By	MC
Scale	NTS
Approved	MC
Date	05-07-01



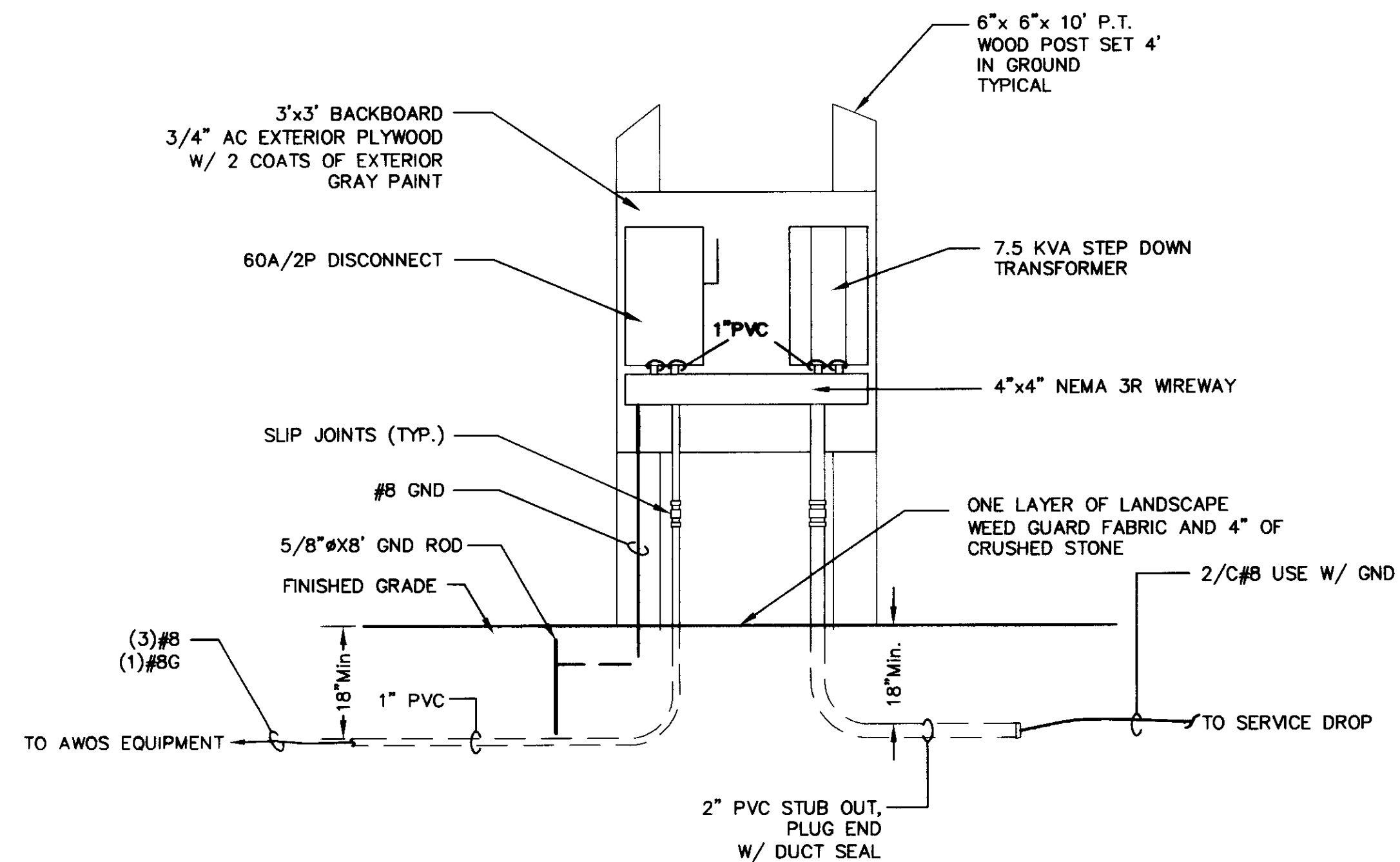
KEYNOTES

- A 3#8, XHHW, 1#8 GND, 2" PVC CONDUIT
- B 60A/2P DISCONNECT W/SOLID NEUTRAL AND GROUND LUG, HEAVY DUTY, NEMA 3R ENCLOSURE, FUSED @ 40 AMPS
- C 7.5KVA STEP UP TRANSFORMER ENCAPSULATED DRY TYPE 120/240-600 VOLTS. EQUAL TO ACME #T-2-53615-1S, W/(2) 5% FCBN TAPS. CONNECT OUTPUT TO H1 & H3 (570 VOLTS), GROUND H1
- D 7.5KVA STEP DN TRANSFORMER ENCAPSULATED DRY TYPE 600-120/240 VOLTS. EQUAL TO ACME #T-2-53615-1S, W/(2) 5% FCBN TAPS. CONNECT INPUT TO H1 & H2 (540 VOLTS), GROUND H1
- E (2) 1/C #8 USE CABLE, (1) #8 DIRECT BURIED
- F #8 GROUND AND 5/8"ØX8' COPPER CLAD GND ROD. EXOTHERMIC WELD GND WIRE TO GND ROD
- G HARDWIRED SURGE ARRESTER. CONNECT ON 600 VOLT SIDE OF TRANSFORMER PER MANUFACTURES REQUIREMENTS, EQUAL TO SQUARE D #SDSA 3650

NOTES

1. INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH POWER COMPANY REQUIREMENTS WHETHER INDICATED OR NOT
2. ALL CONDUCTORS ARE COPPER

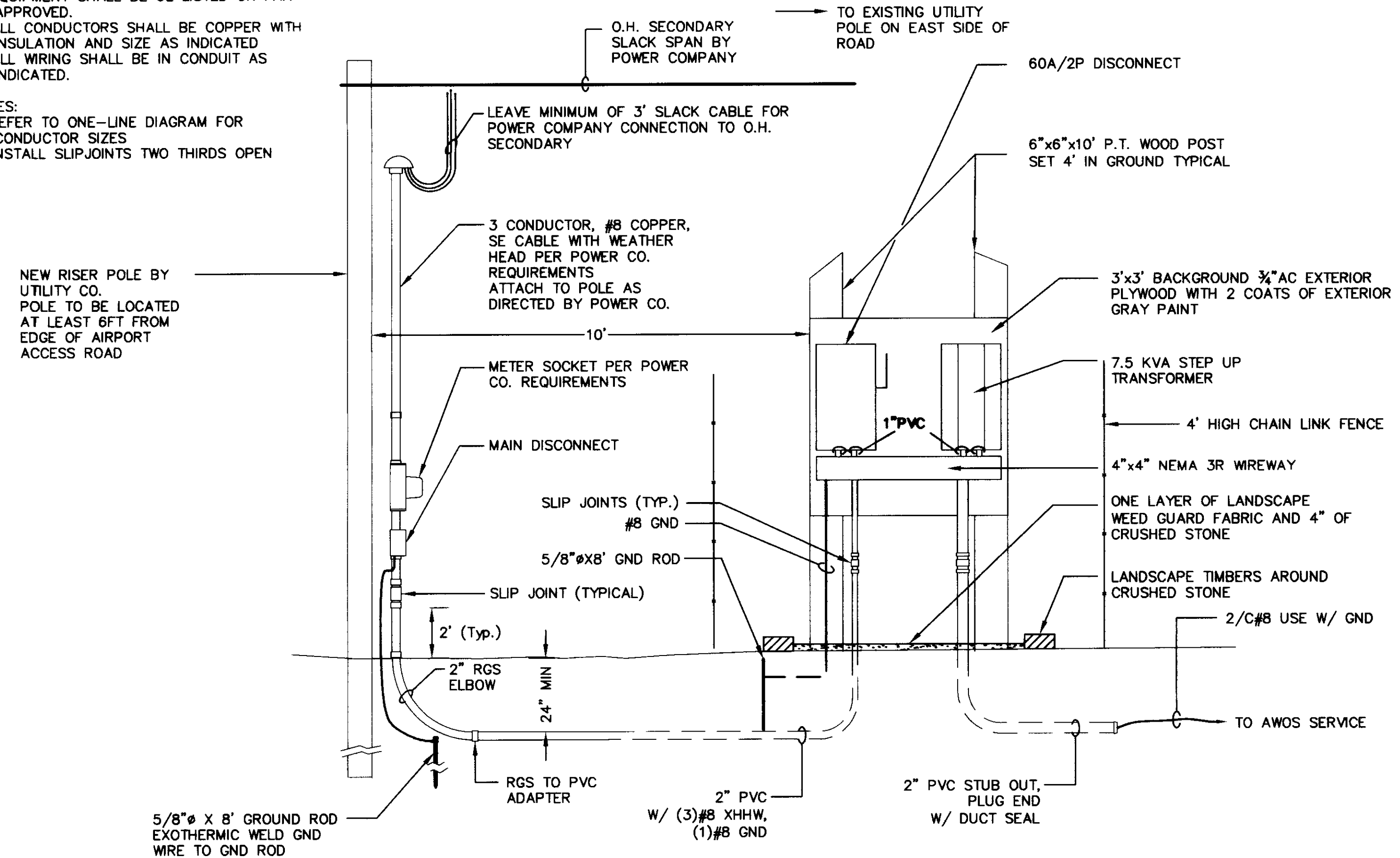
A
ONE-LINE DIAGRAM
NOT TO SCALE



B
AWOS SERVICE ELEVATION
NOT TO SCALE

- GENERAL NOTES:
1. INSTALLATION SHALL BE PER 1999 NEC AND MANUFACTURES REQUIREMENTS.
 2. EQUIPMENT SHALL BE UL LISTED OR FAA APPROVED.
 3. ALL CONDUCTORS SHALL BE COPPER WITH INSULATION AND SIZE AS INDICATED
 4. ALL WIRING SHALL BE IN CONDUIT AS INDICATED.

- NOTES:
1. REFER TO ONE-LINE DIAGRAM FOR CONDUCTOR SIZES
 2. INSTALL SLIPJOINTS TWO THIRDS OPEN



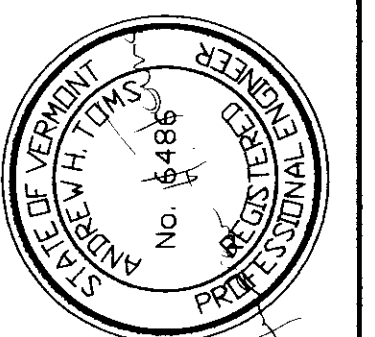
C
AWOS SERVICE DROP ELEVATION
NOT TO SCALE

Rev.	Description	By	Date

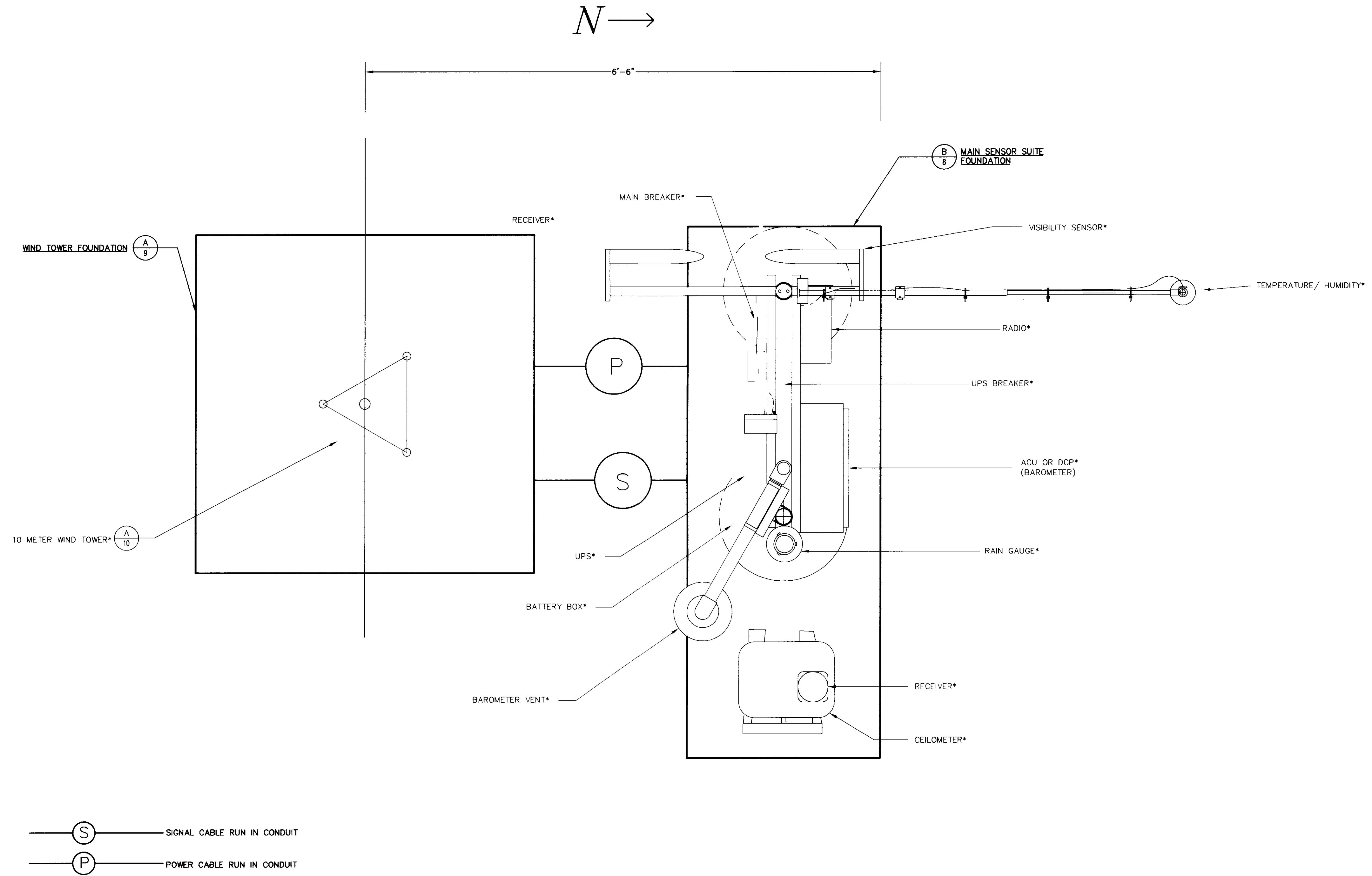
VERMONT

FRANKLIN COUNTY STATE AIRPORT ELECTICAL DETAILS

HIGHGATE



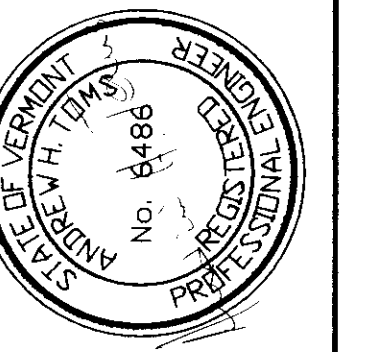
Project No.	8190066
Proj. Manager	AHT
Proj. Designer	AHT
Drawn By	DNF
Checked By	MC
Scale	NTS
Approved	MC
Date	05-07-01



(A 7) FOUNDATION LAYOUT PLAN
NOT TO SCALE

Rev	Description	By	Date

VERMONT
HIGHGATE
FRANKLIN COUNTY STATE AIRPORT
FOUNDATION LAYOUT PLAN
AWOS INSTALLATION
FRANKLIN AIR 04-3144 C/1

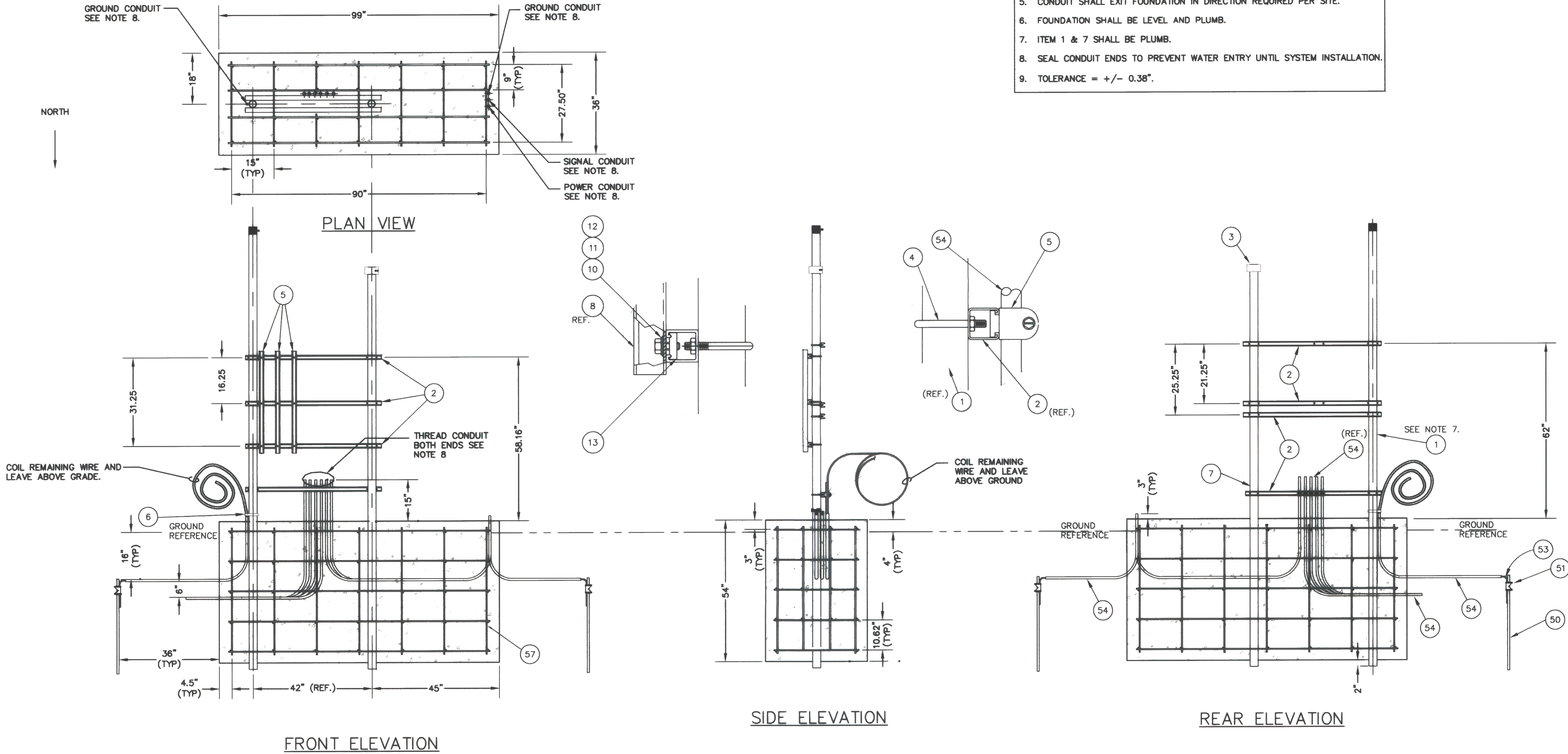


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Proj. Designer	AHT
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Date	05/07/01

Items To Be Supplied by Contractor			
Item	Description	Recommended Manufacturer Name and Part Number	Quantity Required
50	Ground Rod, 3/4"DIA	Robbins #9710	2 EA
51	Ground Clamp	Robbins #98B	2 EA
53	Ground Wire, 2AWG Copper	Rohn #CW2ST	20 Ft.
54	Rigid Galv. St. Conduit, 3/4"DIA	Allied #Rigid 3/4"	As Required
57	Reinforced Steel Bar 15M	Parker Steel International #4	254 Ft.

Items Supplied by Vaisala Inc., Artals Division				
Item	Number	REV	Description	QTY U/M
1	39-22893	0	Pipe 2.5x156 T.O.E. White	1 EA
2	51-22892	1	Strut 48" White	7 EA
3	39-22888	0	Cap, Pipe 2 1/2" Sch 40 White	1 EA
4	45-22883	0	Clamp, U-Bolt 2 1/2" W/O Strap	14 EA
5	45-21378	0	Clamp, Pipe 3/4 GRC and IMC	5 EA
6	45-21280	0	Clamp, Ground 2-4 DIA Aluminum	1 EA
7	39-22894	0	Pipe 2.5x142 T.O.E. White	1 EA
8	70-22297	0	Strut 36" Painted	3 EA
10	45-21041	0	Bolt, Hex 3/8-16x1 SS	6 EA
11	42-21063	0	Washer, Lock Split 3/8 SS	6 EA
12	45-21059	0	Washer, Flat 3.8 SS	6 EA
13	45-21663	0	Nut, Top Grip W/ Spring 3/8-16 Galv.	6 EA

FOUNDATION TO BE ORIENTATED AS SHOWN DUE TO THE VISIBILITY SENSOR. THE SUN MAY NOT SHINE DIRECTLY INTO THE RECEIVER OPTICS.



- NOTES
- ALL DIMENSIONS IN ENGLISH (INCHES) UNLESS SPECIFIED OTHERWISE.
 - PULL STRINGS SHALL BE PLACED IN ALL CONDUIT.
 - FOUNDATION SIZE AND DEPTH BASED ON SOIL CONDITION OF A CBR 4.0.
 - CONCRETE SHALL BE MINIMUM OF 3000 PSI @ 28 DAYS.
 - CONDUIT SHALL EXIT FOUNDATION IN DIRECTION REQUIRED PER SITE.
 - FOUNDATION SHALL BE LEVEL AND PLUMB.
 - ITEM 1 & 7 SHALL BE PLUMB.
 - SEAL CONDUIT ENDS TO PREVENT WATER ENTRY UNTIL SYSTEM INSTALLATION.
 - TOLERANCE = +/- 0.38".

A

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MAIN SENSOR SUITE FOUNDATION

NOT TO SCALE

AWOS INSTALLATION
FRANKLIN AIR 04-3144 C/1

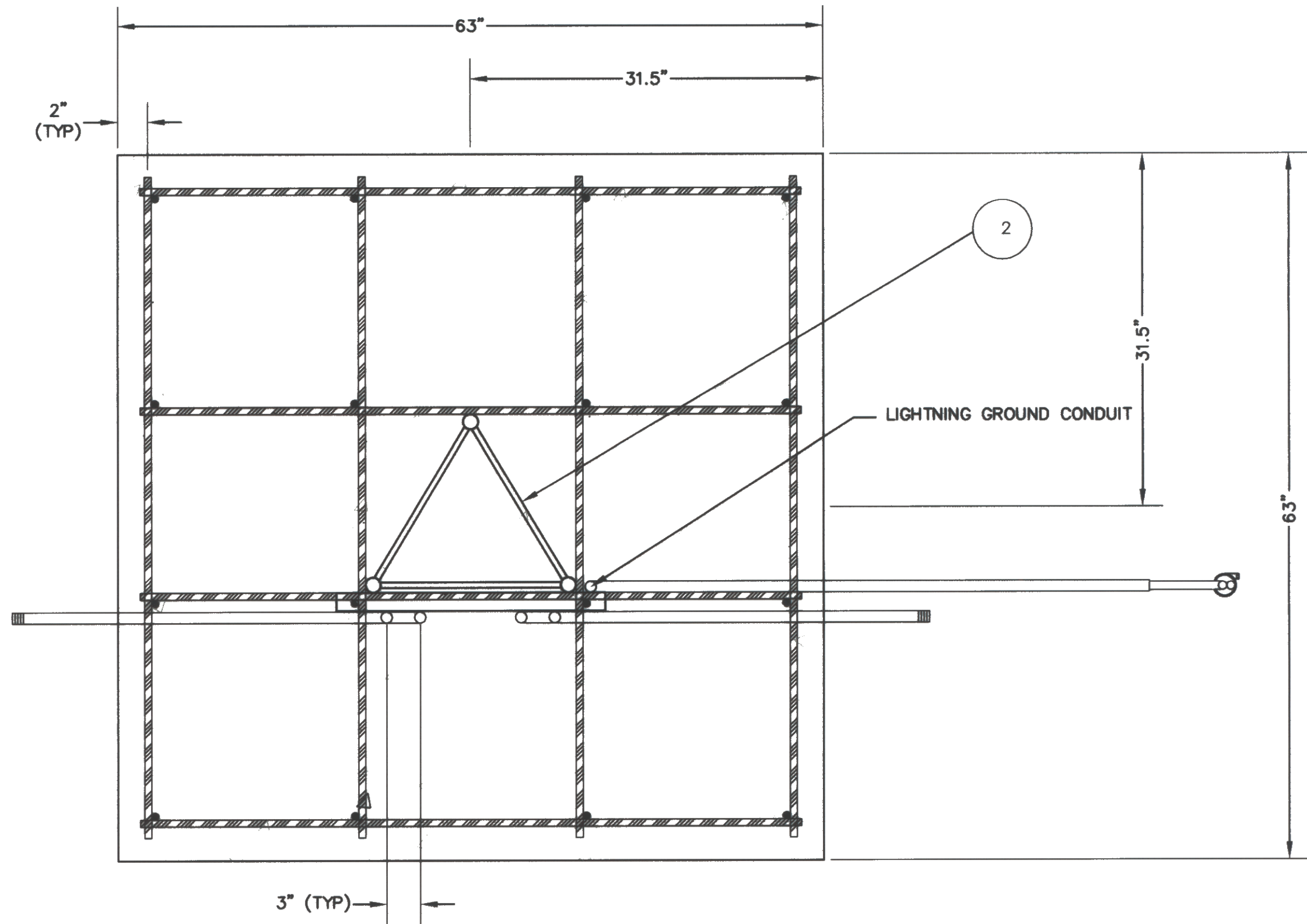
FRANKLIN COUNTY STATE AIRPORT
MAIN SENSOR SUITE FOUNDATION



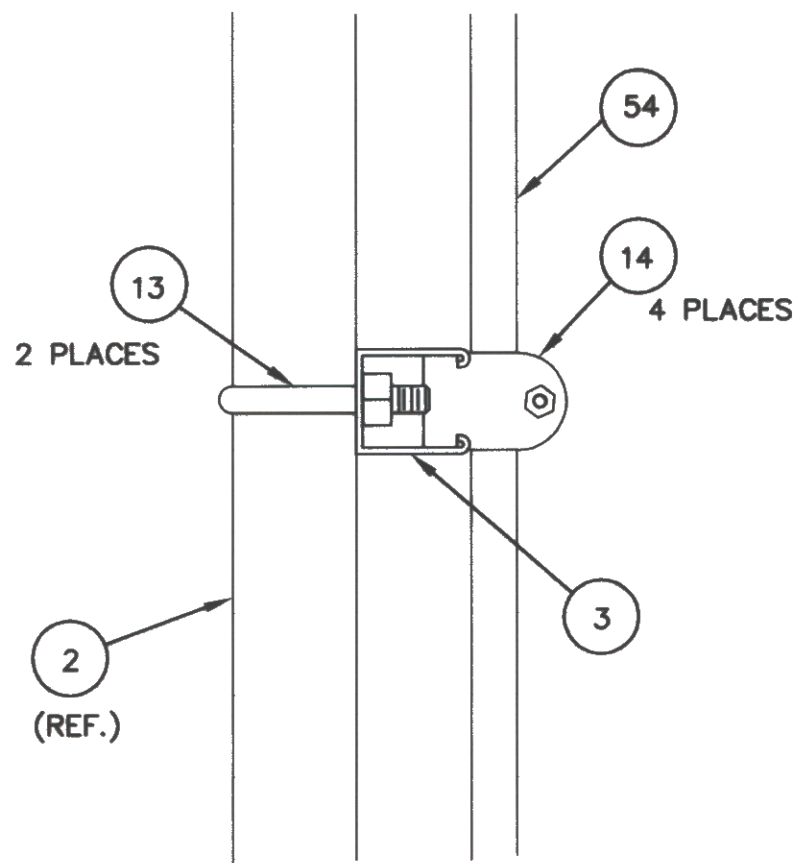
Project No.	8190066
Proj. Manager	AHT
Proj. Designer	AHT
Drawn By	DNF
Checked By	MC
Scale	NTS
Approved	MC
Date	05-07-01

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NORTH

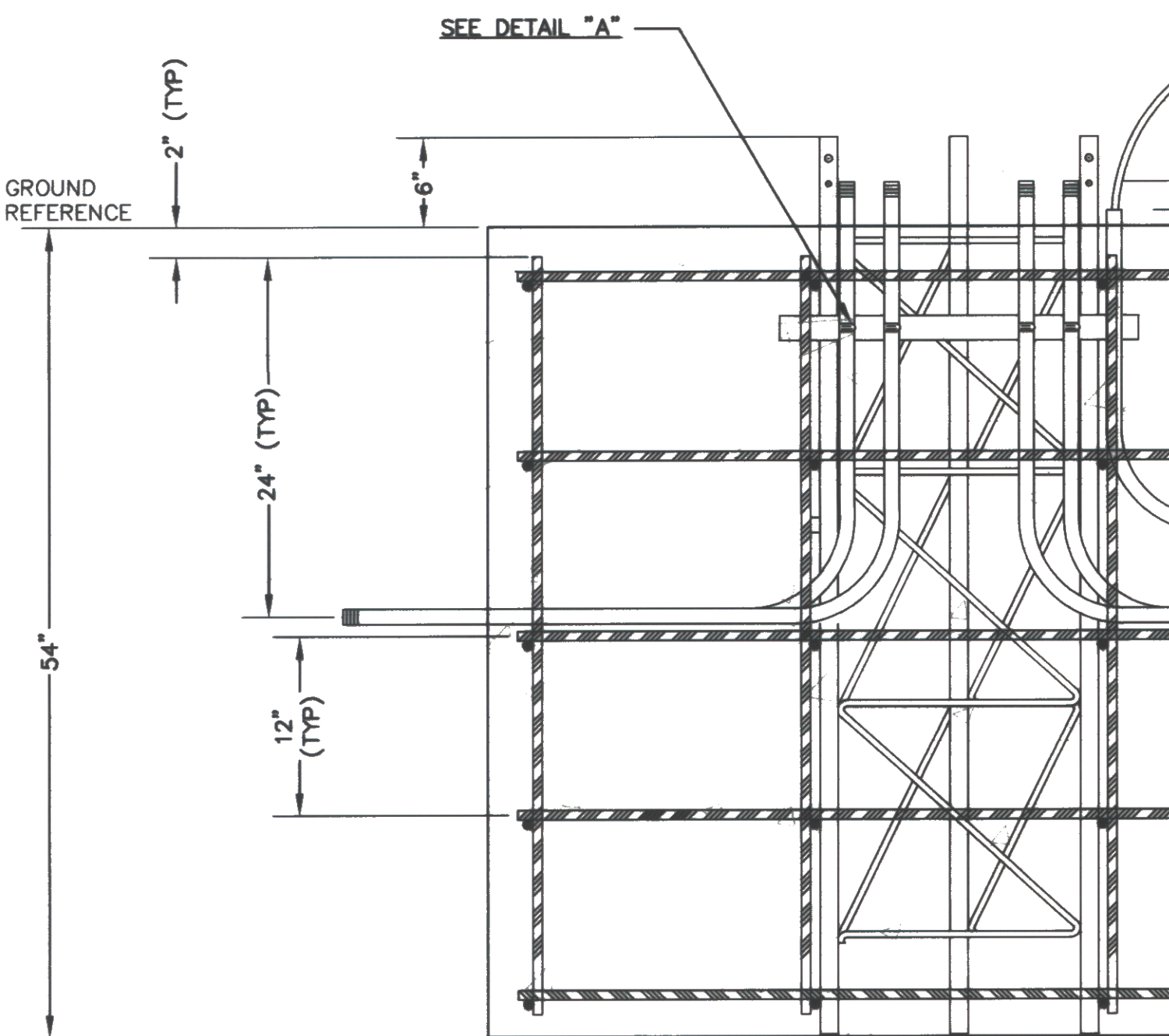


PLAN VIEW

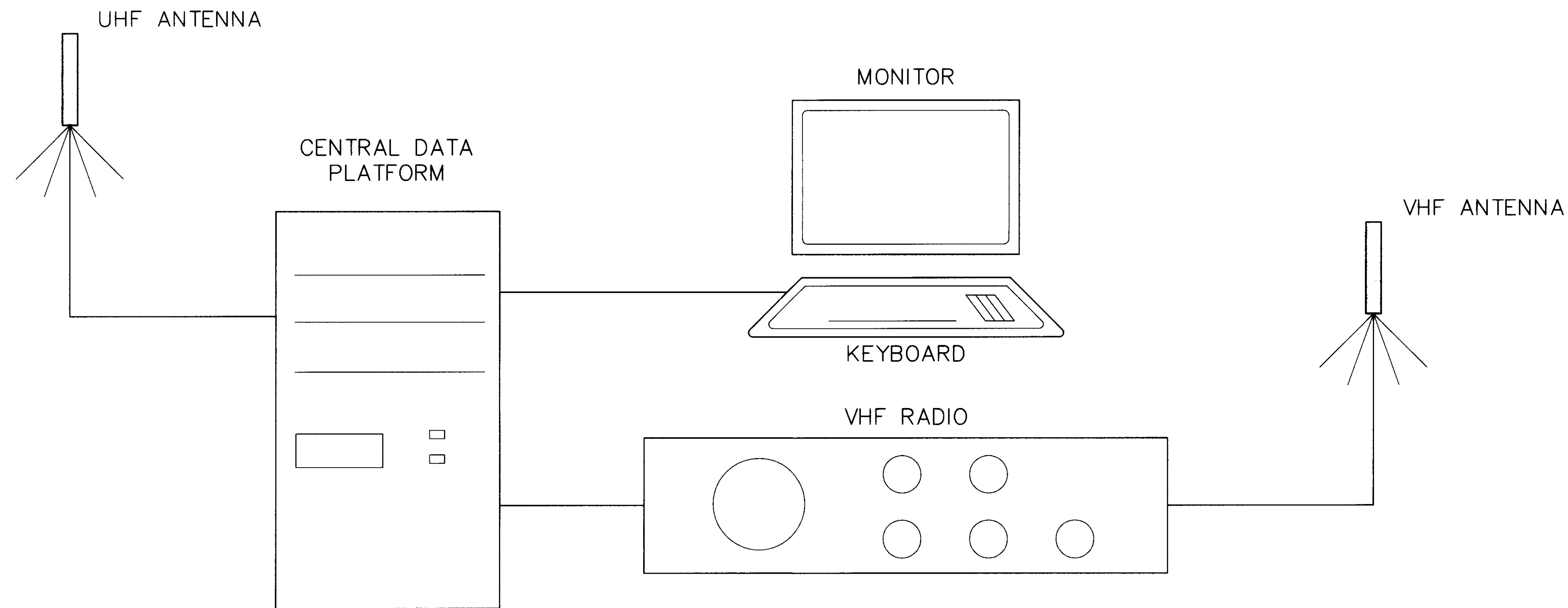


DETAIL "A"

- NOTES
1. ALL DIMENSIONS IN ENGLISH (INCHES) UNLESS SPECIFIED OTHERWISE.
 2. PULL STRINGS SHALL BE PLACED IN ALL CONDUIT.
 3. FOUNDATION SIZE AND DEPTH BASED ON SOIL CONDITION OF A CBR 4.0.
 4. CONCRETE SHALL BE MINIMUM OF 3000 PSI @ 28 DAYS.
 5. CONDUIT SHALL EXIT FOUNDATION IN DIRECTION REQUIRED PER SITE.
 6. FOUNDATION SHALL BE LEVEL AND PLUMB.
 7. TOWER AND CONDUIT SHALL BE PLUMB.
 8. SEAL TOWER AND CONDUIT ENDS TO PREVENT WATER ENTRY UNTIL SYSTEM INSTALLATION.
 9. TOLERANCE = $\pm 0.38"$.



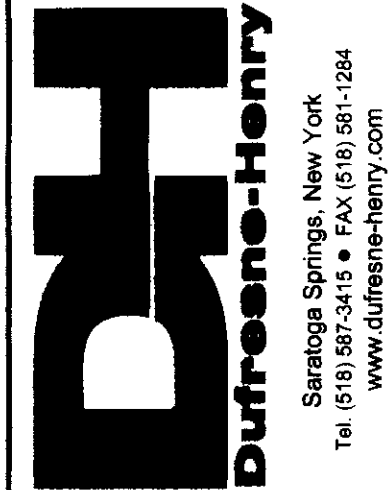
FRONT ELEVATION



- NOTES:
- 1) THE UHF AND VHF ANTENNA ARE TO BE INSTALLED ON THE ROOF OF THE TERMINAL/HANGAR BUILDING (LOCATION ⑪ SHEET 4). EXACT LOCATION TO BE ADVISED BY THE ENGINEER.
 - 2) CENTRAL DATA PROCESSING STATION HARDWARE, INCLUDING CENTRAL DATA PLATFORM, VHF RADIO, KEYBOARD, MONITOR, ETC. WILL BE LOCATED IN THE ADMINISTRATIVE AREA OF THE TERMINAL/HANGAR BUILDING. EXACT LOCATIONS WILL BE ADVISED BY THE AIRPORT MANAGER TO SUIT HIS REQUIREMENTS.
 - 3) ALL CENTRAL DATA PROCESSING STATION ITEMS, INCLUDING VHF AND UHF ANTENNAS, WILL BE SUPPLIED BY VAISALA, INC.

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AWOS CENTRAL DATA PROCESSING STATION SYSTEM SCHEMATIC
NOT TO SCALE

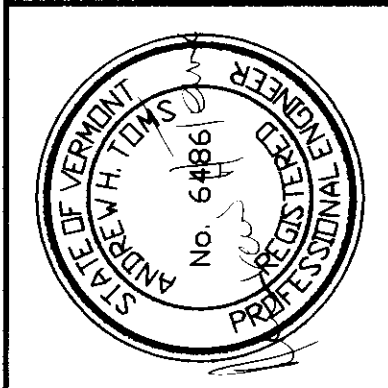


Rev.	Description	By	Date

VERMONT
HIGHGATE

AVOS INSTALLATION
FRANKLIN AIR 04-3144 C/1

FRANKLIN COUNTY STATE AIRPORT
CENTRAL DATA PROCESSING STATION



Project No.	8190066
Proj. Manager	AHT
Proj. Designer	AHT
Drawn By	DNF
Checked By	MC
Scale	NTS
Approved	MC
Date	05-07-01