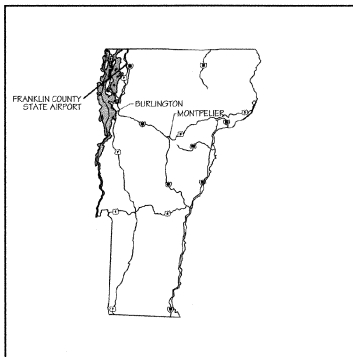


FRANKLIN COUNTY STATE AIRPORT HIGHGATE, VERMONT

PROPOSED IMPROVEMENTS TO INCLUDE INSTALLATION OF AUTOMATED WEATHER OBSERVATION STATIONS (AWOS)

FRANKLIN AIR 04-3144 C/1



LOCATION MAP

SHEET TITLE

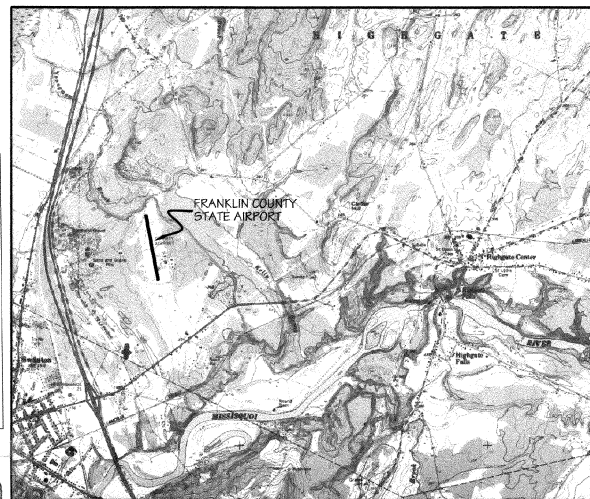
- 1 TITLE SHEET
- 2 QUANTITIES, PHASING NOTES, MISC DETAILS
- 3 CONSTRUCTION AND SAFETY NOTES
- 4 AWOS SITE PLAN
- 5 SITE LAYOUT PLAN
- 6 ELECTRICAL DETAILS
- 7 FOUNDATION LAYOUT PLAN
- 8 MAIN SENSOR SUITE FOUNDATION
- 9 10-METER WIND TOWER FOUNDATION
- 10 10-METER WIND TOWER WITH WIND SENSOR INSTALLATION
- 11 CENTRAL DATA PROCESSING STATION

VAOT STANDARD DRAWINGS

- 1 EROSION CONTROL DETAILS T-1
- 2 EROSION CONTROL DETAILS T-2
- 3 DRIVE GATE FOR WOVEN WIRE FENCE F-1
- 4 CHAIN LINK FENCE (TYPE I) F-2
- 5 CHAIN LINK FENCE (TYPE II) F-3
- 6 CHAIN LINK FENCE (TYPE III) F-4

INDEX OF SHEETS

RECORD PLANS	
CONTRACTOR:	NECCO INC. WAITSFIELD, VT.
RESIDENT ENGINEER:	D. WARNER
CONSTRUCTION BEGAN:	
CONSTRUCTION COMPLETE:	NOVEMBER 5, 2001
RECORD PLANS BY:	R. RICHERT
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
<i>[Signature]</i>	RESIDENT ENGINEER
DATE	5/17/01
NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found on microfilm in Central Files.	



FRANKLIN COUNTY STATE AIRPORT LOCATION MAP

BUILT AS DESIGNED

THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED IN ACCORDANCE WITH CURRENT FAA STANDARDS IDENTIFIED IN F.A.R. PART 152.

DESIGN ENGINEER *[Signature]* DATE 5/17/01

DUFRESNE-HENRY, INC.
SUBMITTED BY *[Signature]* SENIOR PROJECT MANAGER

DATE 5/17/01

VERMONT AGENCY OF TRANSPORTATION
APPROVED BY *[Signature]* DIRECTOR, MAINTENANCE & AVIATION DIVISION

DATE 5/17/01

OFFICES:
No. Springfield, Vermont
Montpelier, Vermont
St. Burlington, Vermont
Wilmington, Vermont
Canton, New Hampshire
Manchester, New Hampshire
Prague, New Hampshire
Nashua, New Hampshire
Greenfield, Massachusetts
Boston, Massachusetts
Portland, Maine
Saratoga Springs, New York

ENGINEERING DISCIPLINES
Civil
Electrical
Environmental
Industrial
Mechanical
Solid Waste
Structural
Transportation

ASSOCIATED DISCIPLINES
Construction Management
Site Assessment
Surveying
Weather/Forecast Operations

LANDSCAPE ARCHITECTURE
Public Involvement Strategies
Market & Policy Impact Analysis
Waterfront Master Planning
Urban Planning & Design
Hazard Management Planning
Local, State and Federal Permitting

APPLIED SCIENCES
Geologic
Hydrologic
Water Quality

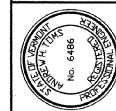


Saratoga Springs, NY 12866
Tel. (518) 587-3415 | FAX (518) 581-1284
<http://www.dufresne-henry.com>



Project No.	Project Name	Project Location	Project Date	Project Status
010000	AWOS INSTALLATION	FRANKLIN AIR 04-3144 C/1	5/17/01	Completed

AWOS INSTALLATION
FRANKLIN AIR 04-3144 C/1
FRANKLIN COUNTY STATE AIRPORT
AWOS INSTALLATION



Project No.	Project Name	Project Location	Project Date	Project Status
010000	AWOS INSTALLATION	FRANKLIN AIR 04-3144 C/1	5/17/01	Completed

Item	Description	Unit	Quantity
201.0	Clearing and Grubbing	Lump Sum	1
201.10	Clearing and Grubbing (Mod.)	Lump Sum	1
203.15	Common Excavation	Cu Yd	18
203.16	Solid Rock Excavation	Cu Yd	5
203.17	Unclassified Excavation	Cu Yd	5
203.32	Granular Borrow	Cu Yd	15
204.30	Granular Backfill for Structures	Cu Yd	5
301.35	Subbase of Dense Graded Stone	Cu Yd	5
501.30	Concrete, Class C	Cu Yd	10
507.15	Reinforcing Steel	LB	350
609.10	Dust Control with Water	Cu Yd	20
616.35	Treated Timber Curb	Lin Ft	24
620.11	Chain Link Fence 4 feet high	Lin Ft	29
620.12	Chain Link Fence 6 feet high	Lin Ft	72
620.15	Gate for Chain Link Fence 4 feet high	Lin Ft	3
620.16	Gate for Chain Link Fence 6 feet high	Lin Ft	8
620.20	Bracing Assembly for Chain Link Fence	Ea	6
620.21	Bracing Assembly for Chain Link Fence	Ea	6
631.16	Testing Equipment - Concrete	Lump Sum	1
635.10	Mobilization	Lump Sum	1
636.15	Utility System (Mod.)	Lump Sum	1
649.31	Geotextile under Stone Fill	Sq Yd	45
651.15	Seed	LB	25
651.18	Fertilizer	LB	250
651.20	Agricultural Limestone	Ton	0.5
651.25	Mulch	Ton	0.5
651.26	Hay Bales for Erosion Control	Ea	15
651.35	Topsoil	Cu Yd	5
654.10	Erosion Matting	Sq Yd	50

QUANTITIES

EROSION AND SEDIMENT CONTROL NOTES:

- THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE, AND SHALL HAVE THEM INSPECTED BY THE ENGINEER PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES. MINOR SEDIMENT CONTROL DEVICE LOCATION ADJUSTMENTS MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE ENGINEER. THE CONTRACTOR MUST OBTAIN PRIOR APPROVAL FOR CHANGES TO THE SEDIMENT CONTROL PLAN AND/OR SEQUENCE OF CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIMES AS THEY ARE REMOVED.
- THE CONTRACTOR SHALL APPLY SEED AND MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS AND STOCKPILES WITHIN FORTY EIGHT (48) HOURS OF FINAL DISTURBANCE.
- THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED IN CONFORMANCE WITH "THE VERMONT HANDBOOK FOR SOIL EROSION AND SEDIMENT CONTROL ON CONSTRUCTION SITES" AS PUBLISHED BY THE VERMONT GEOLOGICAL SURVEY.
- DURING THE PERIOD OF CONSTRUCTION ACTIVITY, ALL EROSION MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR. AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE TRANSFER OF MAINTENANCE RESPONSIBILITIES, IF REQUIRED, TO THE VERMONT AGENCY OF TRANSPORTATION (VADOT).
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE REMOVED AND DISPOSED OF WITHIN THIRTY (30) CALENDAR DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE STABILIZED OR REMOVED TO PREVENT FURTHER EROSION.
- EROSION CONTROL DEVICES REMOVED DURING GRADING OPERATIONS SHALL BE PUT BACK IN PLACE AT THE END OF THE DAY OR DURING INCLEMENT WEATHER AS DIRECTED BY THE ENGINEER.
- IF APPLICABLE, STREAMS INCLUDING BED AND BANKS SHALL BE STABILIZED IMMEDIATELY AFTER CHANNEL WORK IS COMPLETED, INTERRUPTED, OR STOPPED.
- NO SOIL, ROCK DEBRIS, OR ANY OTHER MATERIAL SHALL BE DUMPED OR PLACED INTO A WATER RESOURCE OR INTO SUCH PROXIMITY THAT IT MAY REEULT SLOUGH, SURF, OR ERODE INTO A WATER RESOURCE UNLESS SUCH DUMPING OR PLACING IS AUTHORIZED BY THE ENGINEER AND, WHEN APPLICABLE, BY THE U.S. ARMY CORPS OF ENGINEERS, FOR SUCH PURPOSES AS, BUT NOT LIMITED TO, CONSTRUCTION OF BRIDGES, CULVERTS, AND EROSION CONTROL STRUCTURES.
- PERMANENT SEEDING SHALL BE DONE BETWEEN APRIL 30 AND SEPTEMBER 15. IF SEEDING IS DONE AT OTHER TIMES, IT SHALL BE CLASSIFIED AS "TEMPORARY SEEDING". TEMPORARY SEED SHALL CONFORM TO THE SEEDING MIXTURE STATED IN THE SPECIFICATIONS. TEMPORARY AND PERMANENT SEEDING SHALL CONSIST OF FERTILIZING, WATERING AND SEEDING PLACED AT RATES IN ACCORDANCE WITH THE SPECIFICATIONS. PERMANENT SEEDING AND MULCHING SHALL BE PAID FOR UNDER 651.15 AND 651.25 RESPECTIVELY. TEMPORARY SEED, MULCH, AND FERTILIZER FOR EROSION AND SEDIMENT CONTROL SHALL BE PLACED IN ACCORDANCE WITH THE SPECIFICATIONS. NO PAYMENT WILL BE MADE FOR TEMPORARY SEEDING OR MULCHING.
- SURFACE DRAINAGE FLOWS OVER UNSTABILIZED CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER PREVENTING DRAINAGE FLOWS TRAVELING DOWN THE SLOPES OR BY INSTALLING PROTECTIVE DEVICES TO LOWER THE WATER DOWN THE SLOPE WITHOUT CAUSING EROSION. DIKES SHALL BE INSTALLED AND MAINTAINED AT THE TOP OF CUT OR FILL SLOPES UNTIL THE SLOPE AND DRAINAGE AREA TO IT ARE FULLY STABILIZED. THEY MUST BE REMOVED AND FINAL GRADING DONE TO PROMOTE SHEET FLOW DRAINAGE. PROTECTIVE METHODS MUST BE PROVIDED AT POINTS OF CONCENTRATED FLOW WHERE EROSION IS LIKELY TO OCCUR.
- ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS IN UNPAVED AREAS SHALL BE STABILIZED AND PROTECTED TO PREVENT TRACKING OF MUD ONTO PUBLIC OR PRIVATE ROADWAYS.
- IF PUBLIC OR PRIVATE ROADWAYS DO ACCUMULATE DEBRIS, THE CONTRACTOR SHALL USE A POWER BROOM TO REMOVE THE SEDIMENT TO THE SATISFACTION OF THE ENGINEER.
- SALVAGED TOPSOIL WILL BE PLACED ON WELL DRAINED LAND AWAY FROM STREAMS IN ACCORDANCE WITH APPROVED EROSION AND SEDIMENT CONTROL MEASURES. IT SHALL BE PLACED IN NEAT PILES. THE CONTRACTOR WILL PROVIDE AN ADEQUATE QUANTITY OF SILT FENCE TO CONTROL THE PERIMETER OF THE STOCKPILE. THE CONTRACTOR, WITH THE APPROVAL OF THE ENGINEER, MAY CONSTRUCT AN EARTH DIKE IN LIEU OF SILT FENCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST RISING FROM CONSTRUCTION OPERATIONS. DUST CONTROL, USING WATER, 609.10 WILL BE APPLIED WHENEVER DUST IS A PROBLEM OR WHEN ORDERED BY THE ENGINEER.

PHASING NOTES:

GENERAL

All work to be completed within Phase I, and II.

All work must comply with the requirements of FAA AC 150/5370-20, Operational Safety During Construction. See General Construction and Safety Notes for additional information.

The contractor must submit a schedule to the Engineer prior to commencing work on the airport. This schedule is to be upgraded weekly. No work will be allowed outside the areas included in the approved schedule.

PHASE I

All work on Phase I to be completed with 45 calendar days of notice to proceed.

Runway 1-19 is to be opened at all times during the project except as required to install underground utilities. No work shall be allowed within the Runway 1-19 primary surface without authorization from the Engineer. Work within the Runway 1-19 primary surface will require that the runway be closed. At least 48 hours notice is required prior to closing the runway.

CONSTRUCTION INCLUDES:

Installation of underground utilities to provide 30A 120V/240V power for the AWOS, improve and expand existing farm road to the AWOS, clear and grub in areas shown and clear only in areas shown, construct concrete structures to support 30' AWOS wind sensor tower and AWOS components, install AWOS system and opportunences, install AWOS data link from sensor site to terminal/hangar building using UHF radio link. Install central data platform and VHF antenna at terminal/hangar building.

PHASE II

All work on Phase II to be completed with 30 calendar days of notice to proceed.

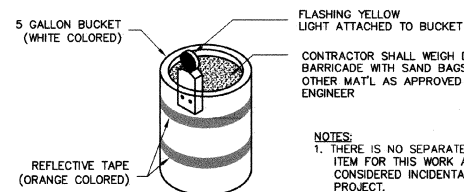
Runway 1-19 is to be opened at all times during the project. No work shall be allowed within the Runway 1-19 primary surface without authorization from the Engineer.

CONSTRUCTION INCLUDES:

Testing, calibration, and certification of the AWOS system.

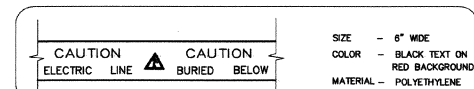
SPECIAL NOTE:

The Contractor's attention is drawn to the single and double hatched areas within the inner AWOS Critical Area depicted on Sheet 4. Prior to any earth disturbance, the contractor shall mark flag or fence the outer limit of the area to be cut and stumped (single hatching). No removal of stumps is to take place in the area which is double hatched; trees are to be clear cut only in this area. No clearing or any type of disturbance may occur immediately north of the double hatched area as this area is archeologically sensitive.



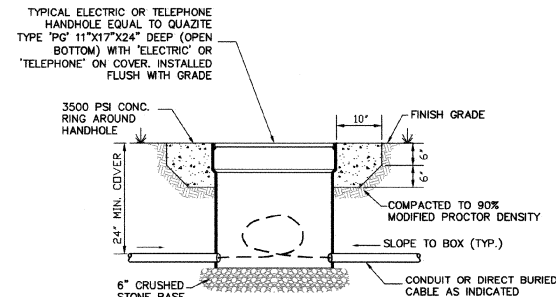
NOTES:

- THERE IS NO SEPARATE PAY ITEM FOR THIS WORK AND IT IS CONSIDERED INCIDENTAL TO THE PROJECT.
- BARRIERS SHALL BE PLACED 10'-0" O.C.
- PLACED AT DISCRETION OF RESIDENT ENGINEER



B TYPICAL CONDUIT TRENCH SECTION

NOT TO SCALE



C TYPICAL HAND-HOLE DETAIL

NOT TO SCALE



Rev	Description	By	Date

AWOS INSTALLATION
FRANKLIN COUNTY STATE AIRPORT
QUANTITIES, PHASING NOTES, MISC. DETAILS

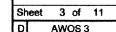


Project No.	010006
Design Manager	AMT
Design Engineer	AMT
Checked By	AMT
Drawn By	AMT
Scale	N/A
Approved	AMT
Date	06-27-01

(B) RUNWAY PROTECTION ZONE (RPZ): A TRAPEZOIDAL AREA CENTERED ON THE RUNWAY BEGINNING AT A POINT 200 FEET BEYOND THE END OF THE AREA USEABLE FOR TAKEOFF OR LANDING.

(2) THE CONTRACTOR SHALL CONDUCT ACTIVITIES SO AS NOT TO VIOLATE ANY SAFETY STANDARDS CONTAINED HEREIN. THE CONTRACTOR SHALL INSPECT ALL CONSTRUCTION AND STORAGE AREAS AS OFTEN AS NECESSARY AND PROMPTLY TAKE ALL STEPS NECESSARY TO PREVENT/REMEDY ANY UNSAFE OR POTENTIALLY UNSAFE CONDITIONS OR ACTIVITIES DISCOVERED.

CVPS 1-800-649-2877



LEGEND	EXISTING
GROUND CONTOUR	--- 100 ---
AIRPORT PROPERTY	-----
OBSTACLE FREE AREA (OFA)	-----
TREE LINE	-----
SECURITY FENCE	-----
SWALE/DITCH	-----
R/W END IDENTIFIER LIGHTS (NIEL)	-----
WETLAND BOUNDARY	-----
UNIMPROVED ROADWAYS	-----
PAVEMENT	-----

EXISTING	BUILDINGS
①	T-Hanger 10 Units
②	48' x 48' Hanger (Under Construction)
③	Hanger 3 Units Each
④	T-Hangers
⑤	GA Hanger
⑥	Hanger 3 Units
⑦	Hanger
⑧	Prestige Paint Shop Hanger
⑨	Storage Building
⑩	Terminal / Hanger
⑪	T-Hanger
⑫	T-Hangers
EXISTING	TERMINAL AREA PAVEMENT
⑬	Main Apron
⑭	Fuel Apron
⑮	South Apron
⑯	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:

① INSTALL POWER HANDHOLES

②

③ DIRECT BURIAL CABLE TO AWOS SERVICE. 2/C#8, 1/C#8

④

CONSTRUCT TOWER AND SENSOR
SUITE FOUNDATIONS

⑤

CONSTRUCT 10 METER
WIND TOWER FOUNDATION

⑥

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

⑦

CONSTRUCT AWOS SERVICE

⑧

INSTALL 10 METER
WIND TOWER

⑨

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

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

ARCHEOLOGICALLY
SENSITIVE AREA
(SEE SPECIAL
NOTE SHEET 2)

CONTRACTOR
STORAGE AREA

AWOS CRITICAL AREA ELEVATION 246.3

AWOS SECONDARY AREA ELEVATION 271.3

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"

Taxiway "C"

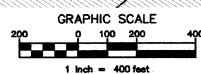
NEW RISER POLE
W/METER, DISCONNECT,
AND SERVICE DROP

⑩

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

INSTALL AWOS CENTRAL
DATA PROCESSING
STATION

⑪



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.



Project No.	Sheet	Date
610006	4	05/27/01

Project Manager	Author	Checker	Reviewer	Approver
ANT	ANT	ANT	ANT	ANT

Project Name	Project Location
AWOS INSTALLATION	FRANKLIN AIR 040144 G1

Project Description	Project Status
FRANKLIN COUNTY STATE AIRPORT	AWOS SITE PLAN

Project Date	Project Status
05/27/01	05/27/01

Project Date	Project Status
05/27/01	05/27/01

Project Date	Project Status
05/27/01	05/27/01

Project Date	Project Status
05/27/01	05/27/01

Project Date	Project Status
05/27/01	05/27/01

Project Date	Project Status
05/27/01	05/27/01

Project Date	Project Status
05/27/01	05/27/01

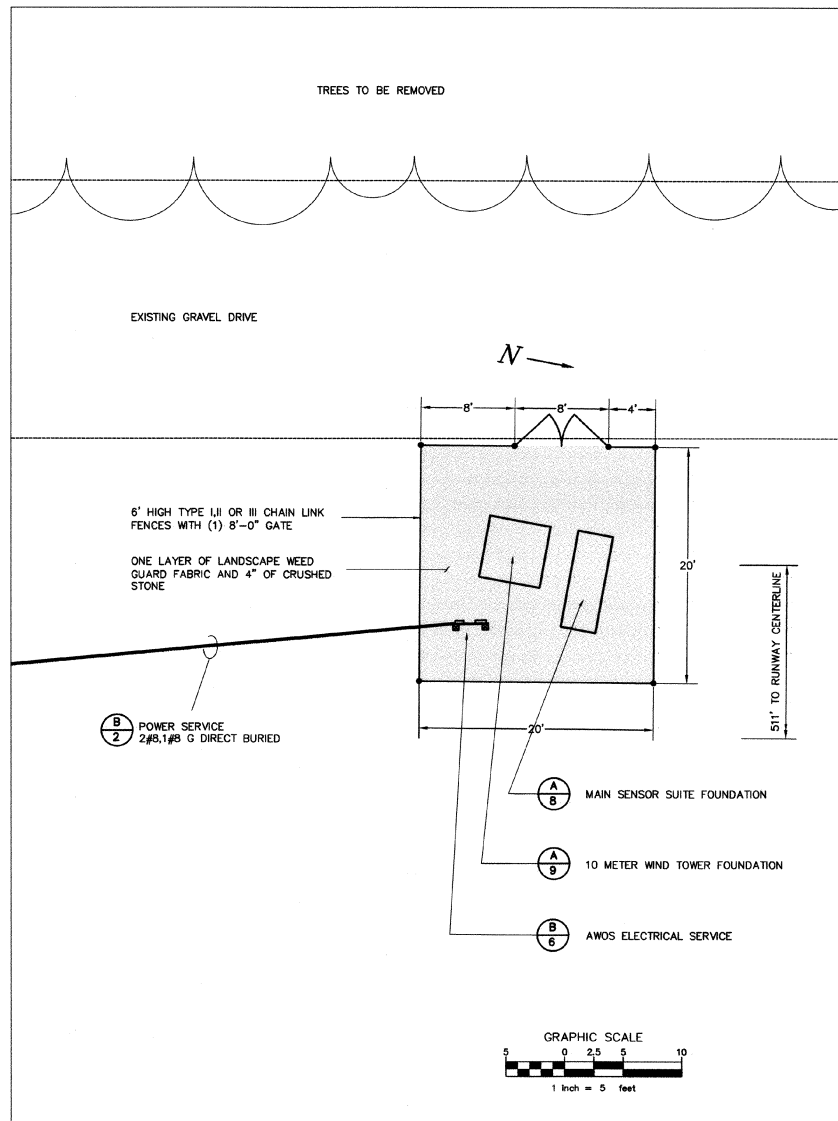
Project Date	Project Status
05/27/01	05/27/01

Project Date	Project Status
05/27/01	05/27/01

Project Date	Project Status
05/27/01	05/27/01

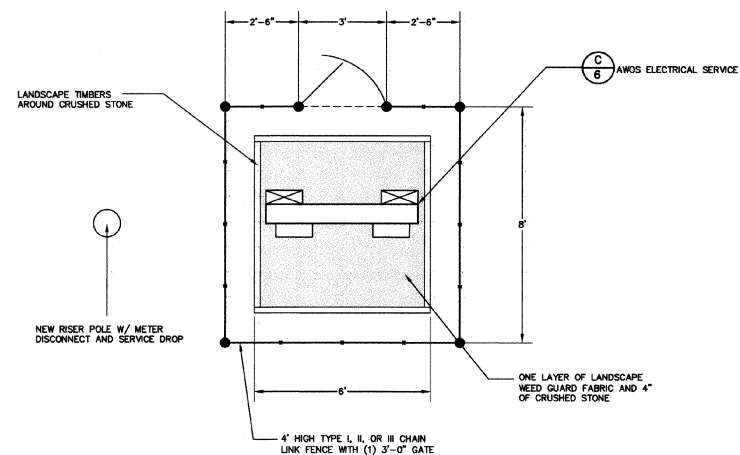
Project Date	Project Status
05/27/01	05/27/01

Project Date	Project Status
05/27/01	05/27/01



(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

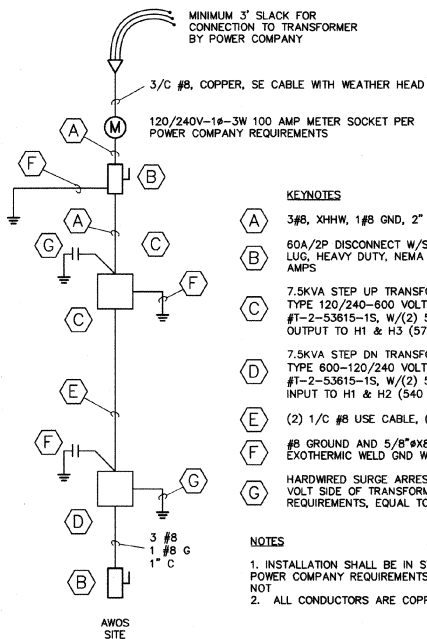
VERMONT

AWOS INSTALLATION
FRANKLIN AIR 04-3144 C11
FRANKLIN COUNTY STATE AIRPORT
SITE LAYOUT PLAN

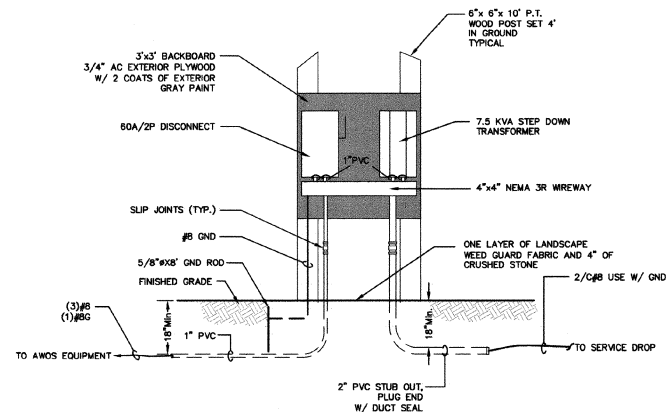
HIGHGATE



Project No.	610006
Proj. Manager	ART
Proj. Designer	ART
Drawn By	DM
Checked By	MC
Reviewed	RTS
Scale	AS SHOWN
Date	06-2-21

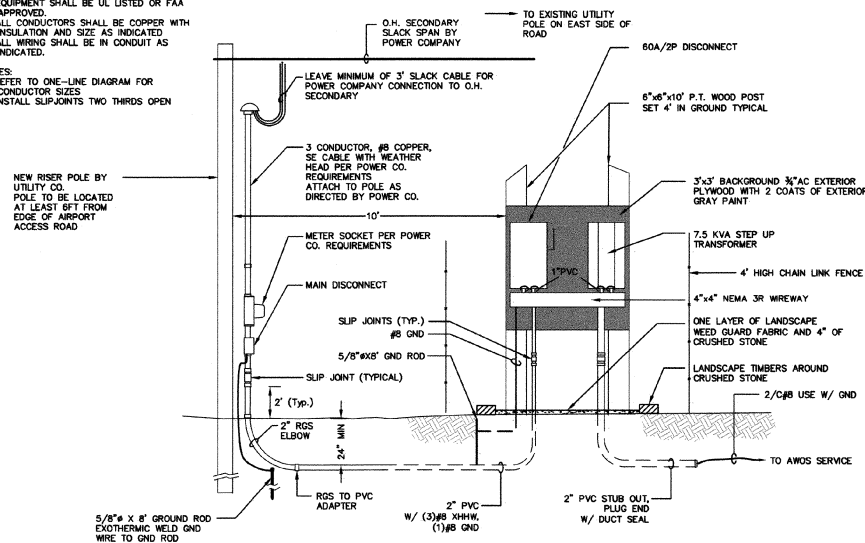


(A) ONE-LINE DIAGRAM
6 NOT TO SCALE



(B) AWOS SERVICE ELEVATION
6 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

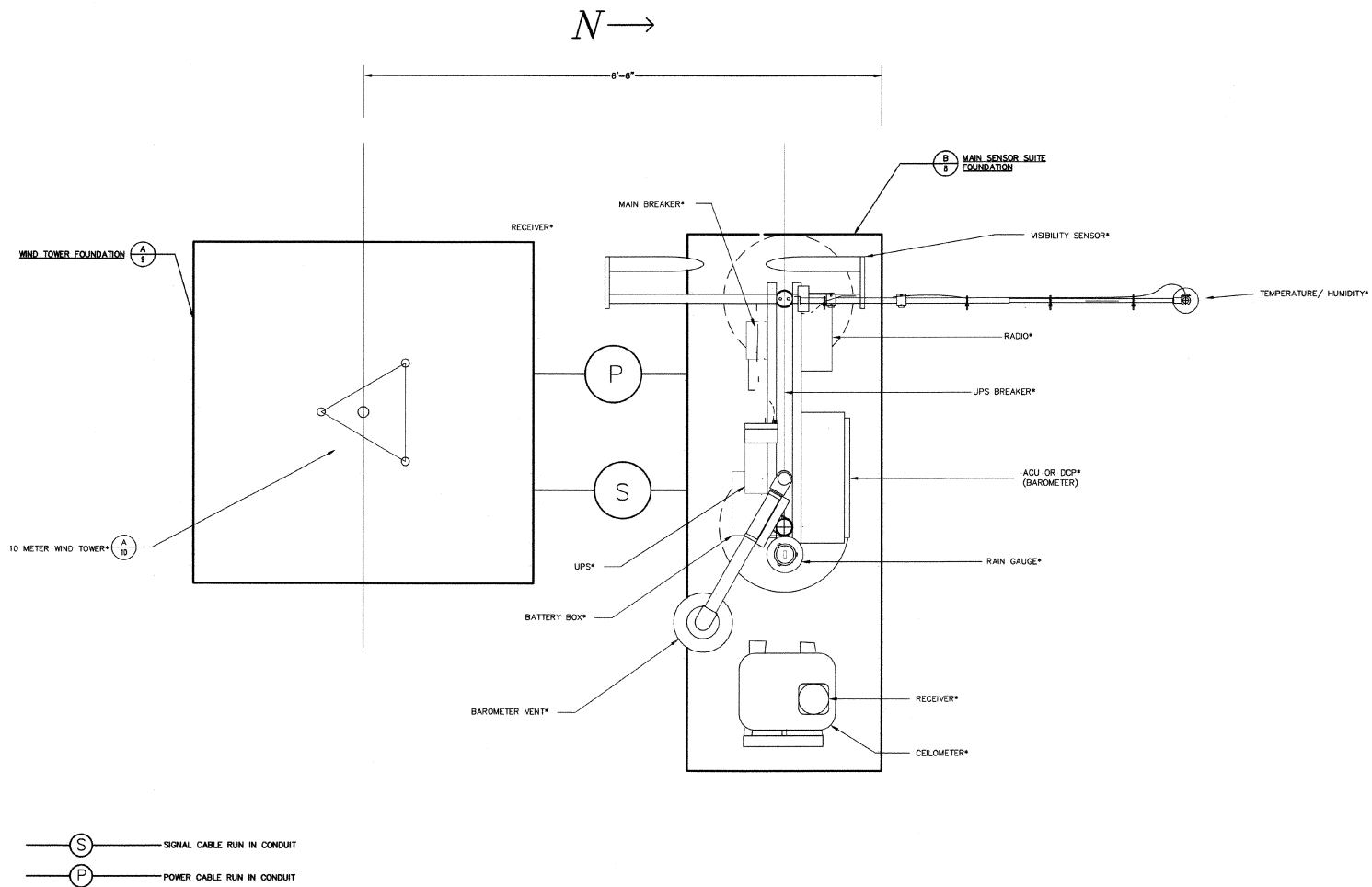


(C) AWOS SERVICE DROP ELEVATION
6 NOT TO SCALE

Rev.	Description	By	Date



Project No.	010006
Design Manager	AWT
Design Engineer	AWT
Checked By	AWT
Drawn By	AWT
Scale	N/A
Notes	
Approved	
Date	06-07-01



NOTE:
ITEMS INDICATED THUS * ARE BEING PROVIDED BY VAISALA
INC., ARTAIS DIVISION UNDER A SEPARATE CONTRACT.

(A-7) FOUNDATION LAYOUT PLAN
NOT TO SCALE

Rev	Description	By	Date

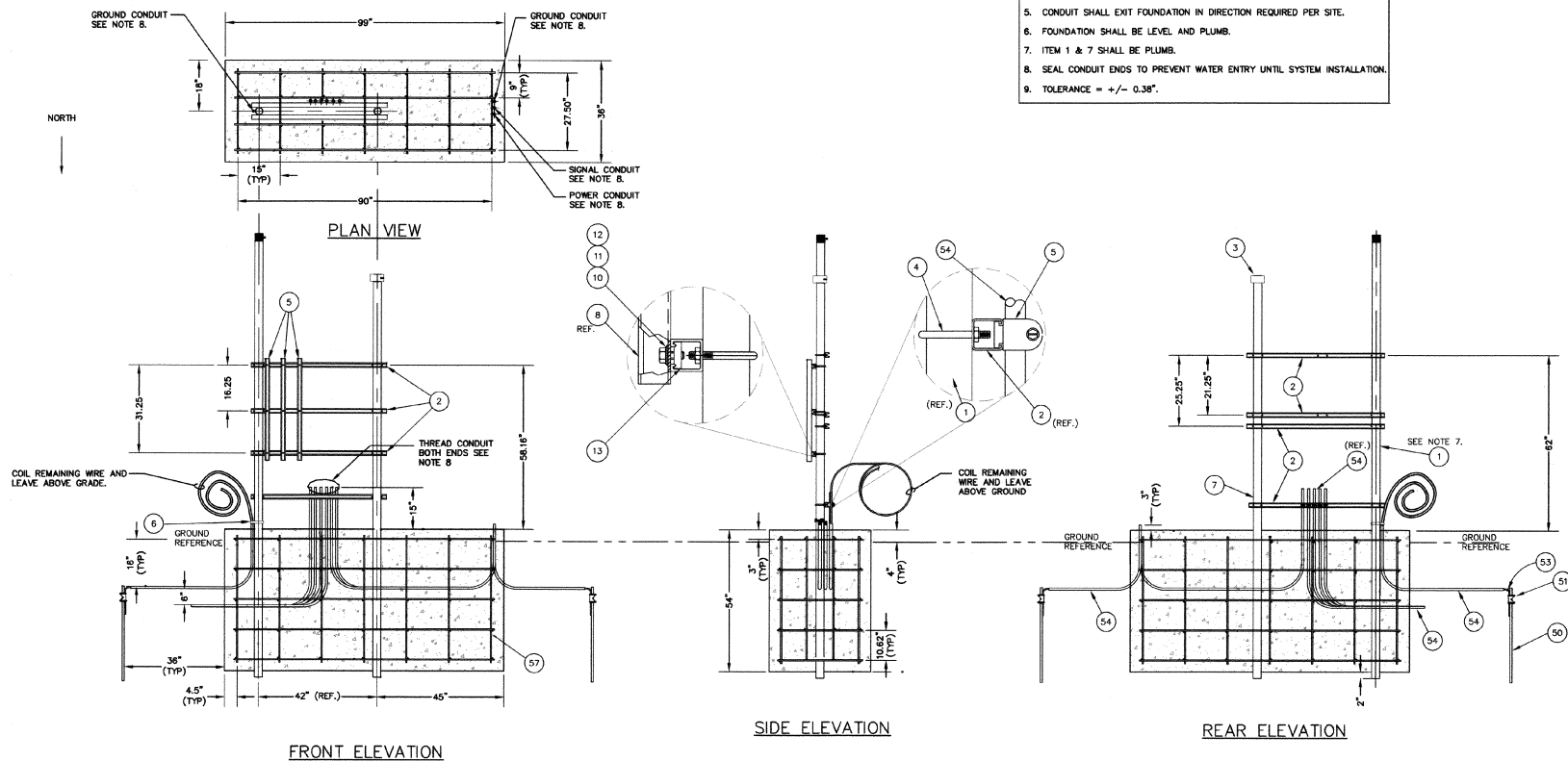


Project No.	819006
Eng. Manager	ANT
Eng. Designer	ANT
Drawn By	DMF
Checked By	DMF
Reviewed By	DMF
Approved	MC
Date	05-27-01

Items To Be Supplied by Contractor		
Item	Description	Quantity
50	Ground Rod, 3/4" DIA	2 EA
51	Ground Clamp	2 EA
53	Ground Wire, ZAWG Copper	20 Ft.
54	Rigid Galv. St. Conduit, 3/4" DIA	As Required
57	Reinforced Steel Bar 15M	254 Ft.

Items Supplied by Valsala Inc., Artals Division			
Item	Number	REV	Description
1	39-22893	0	Pipe 2.5x156 T.O.E. White
2	51-22892	1	Strut 48" White
3	39-22885	0	Cap, Pipe 2 1/2" Sch 40 White
4	45-22883	0	Clamp, U-Bolt 2 1/2" W/O Strap
5	45-21378	0	Clamp, Pipe 3/4 GRC and IMC
6	45-21280	0	Clamp, Ground 2-4 DIA Aluminum
7	39-22894	0	Pipe 2.5x142 T.O.E. White
8	70-22297	0	Strut 36" Painted
10	45-21041	0	Bolt, Hex 3/8-16x1 SS
11	42-21063	0	Washer, Lock Split 3/8 SS
12	45-21059	0	Washer, Flat 3.8 SS
13	45-21663	0	Nut, Top Grip W/ Spring 3/8-16 Galv.

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



- 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. ITEM 1 & 7 SHALL BE PLUMB.
 8. SEAL CONDUIT ENDS TO PREVENT WATER ENTRY UNTIL SYSTEM INSTALLATION.
 9. TOLERANCE = +/- 0.38".

A
8 MAIN SENSOR SUITE FOUNDATION
NOT TO SCALE



Rev	Description	By	Date

VERMONT

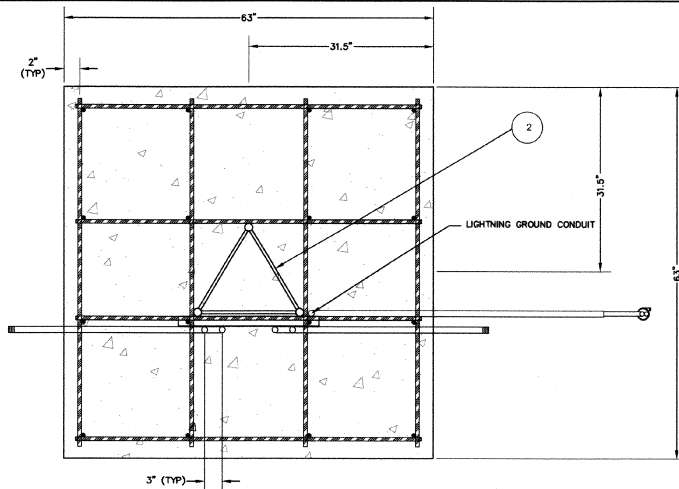
AWOS INSTALLATION
FRANKLIN AIR-PA-314 C1
FRANKLIN COUNTY STATE AIRPORT
MAIN SENSOR SUITE FOUNDATION

HIGHGATE



Project No.	610006
Drawn By	AWT
Check By	AWT
Design By	AWT
Scale	1/8" = 1'-0"
Sheet	8 of 11
Date	03-22-01

NORTH

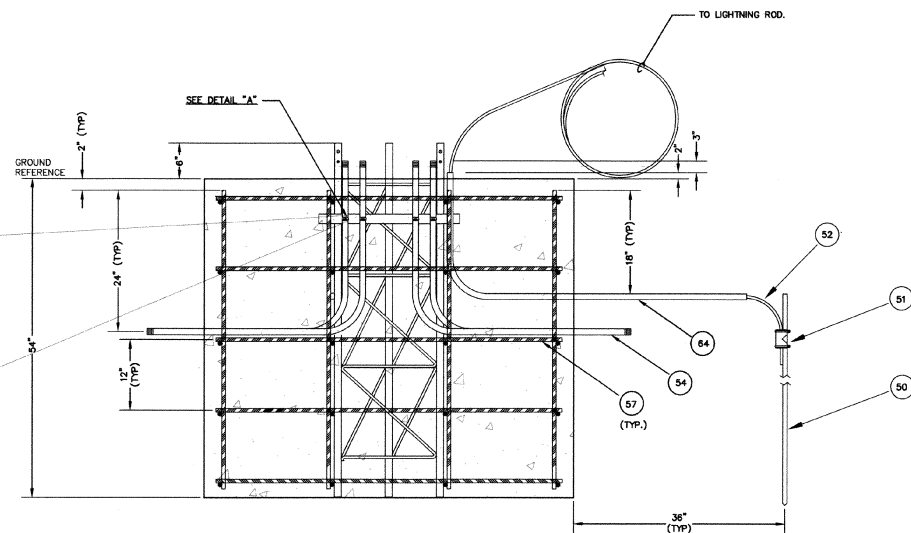


PLAN VIEW

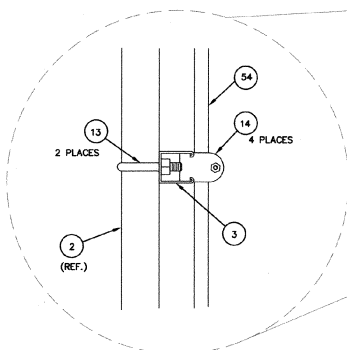
- NOTES
1. ALL DIMENSIONS IN ENGLISH (INCHES) UNLESS SPECIFIED OTHERWISE.
 2. PULL STRINGS SHALL BE PLACED IN ALL CONDUIT.
 3. FOUNDATION SIZE AND DEPTH BASED ON SOIL CONDITION OF A CBR 4.0.
 4. CONCRETE SHALL BE MINIMUM OF 3000 PSI @ 28 DAYS.
 5. CONDUIT SHALL EXIT FOUNDATION IN DIRECTION REQUIRED PER 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 = ± 0.38 .

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 #910B	2 EA
52	Ground Wire, 2/0 Copper	Robn #COW 2/0ST	40 Ft
54	Rigid Galv. St. Conduit, 3/4" DIA	Allied #RIGID 3/4"	As Required
57	Reinforced Steel Bar 15M	Parker Steel International #4	258 Ft
64	Nonmetallic Tubing 3/4"	Carlflex #15107	10 Ft

Items Supplied by Velsala Inc., Artals Division			
Item	Part No.	Description	QTY/U/M
2	72-21957	Tower Base Short 5' (18')	1 EA
3	51-22371	Strut, 24" Cut	1 EA
13	45-21271	U-Bolt 1"x3.75" Overall Length SS	2 EA
14	45-21378	Clamp, Pipe 3/4 GRC and IMC	4 EA



FRONT ELEVATION



DETAIL "A"

10 METER WIND TOWER FOUNDATION
NOT TO SCALE



AWOS INSTALLATION
FRANKLIN AIR 04-3144 C1
FRANKLIN COUNTY STATE AIRPORT
10-METER WIND TOWER FOUNDATION

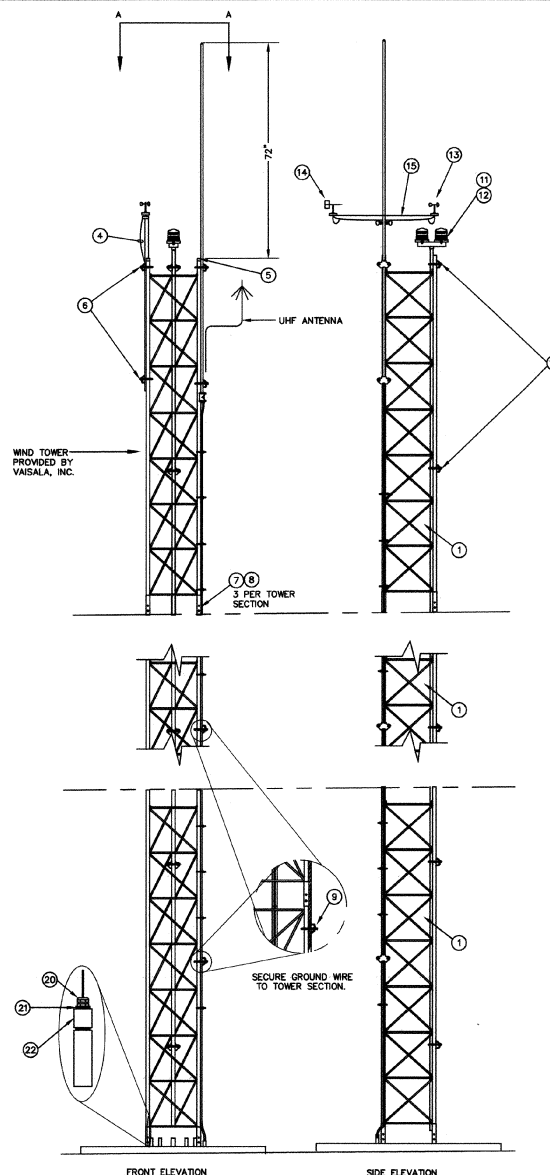
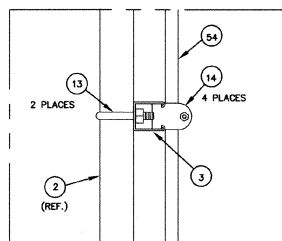
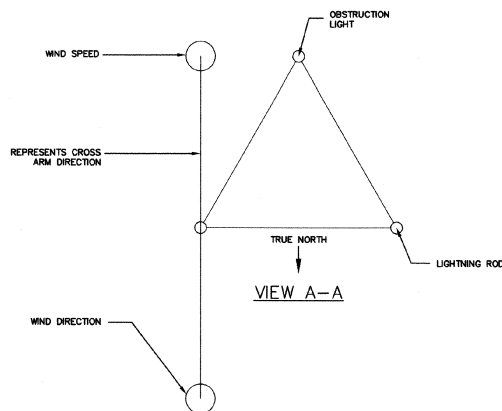


Project No.	B10006
Proj. Manager	ART
Proj. Designer	ART
Checked By	CMR
Drawn By	MC
Reviewed By	MC
Approved	MC
Date	06-01-01

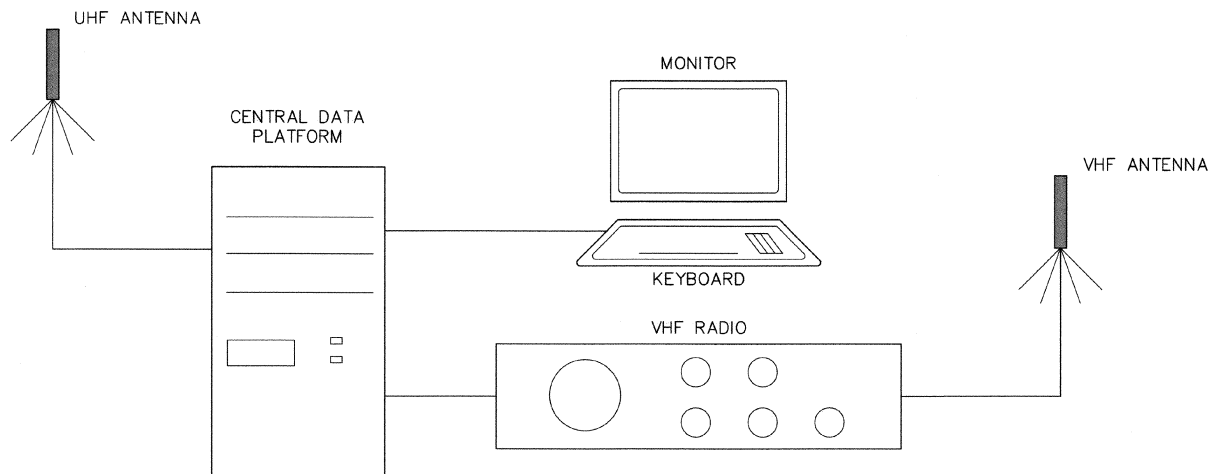
9

Items to be Supplied by Contractor				
B WIND SENSOR				
Item	Part No.	Description	QTY	U/M
55	N/A	Cable Tie 9.5 UV Resistant	12	E/A

- NOTES:
1. ITEMS 4 THROUGH 9 ARE PART OF 02-22827
2. ITEM 55 CABLE TIE 9.5 UV RESISTANT (QTY: 12) NOT SUPPLIED BY
VAISALA ARTAIS DIVISION
3. ITEM 10 IS INSTALLED IN THE ISI MODULE
4. UHF ANTENNA AND FITTINGS TO BE SUPPLIED BY VAISALA, INC.



(A) 10 METER WIND TOWER COMPLETE
10 NOT TO SCALE



NOTES:

- 1) THE UHF AND VHF ANTENNA ARE TO BE INSTALLED ON THE ROOF OF THE TERMINAL/HANGAR BUILDING (LOCATION ⑨ 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.

A
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AWOS CENTRAL DATA PROCESSING STATION SYSTEM SCHEMATIC
NOT TO SCALE



Rev	Description	By	Date

AWOS INSTALLATION
FRANKLIN AIR 04-014-01

VERMONT

FRANKLIN COUNTY STATE AIRPORT
CENTRAL DATA PROCESSING STATION

HIGHGATE



Project No.	04-014-01
Design Manager	ANT
Design Engineer	ANT
Checked By	MC
Stationed By	NTS
Approved	MC
Date	05-27-01

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Sheet 11 of 11

D AWOS 7