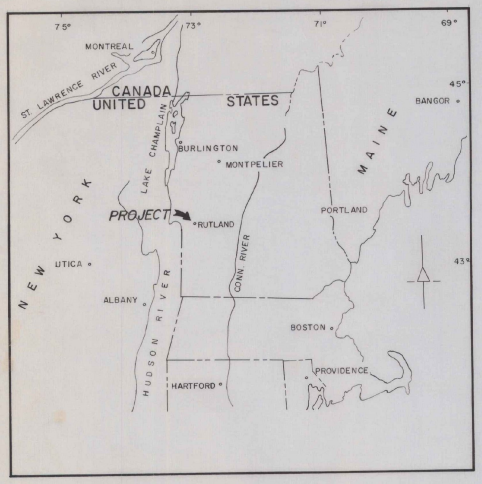
RUTLAND STATE AIRPORT

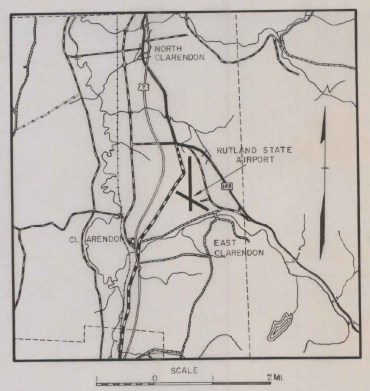
NORTH CLARENDON, VT.



RECONSTRUCT DRAINAGE SYSTEM

RUNWAY 1-19 (4000')

A.D.A.P. PROJECT NO. 8-50-0015-01



INDEX OF SHEETS	
DESCRIPTION	
PAGE	
1	LAYOUT PLAN
2	DROP INLET TYPICAL
3	BORING LOG

AS BUILT PLANS

I HEREBY CERTIFY THAT ALL CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY _____ RESIDENT INSPECTOR

DATED Nov 9, 1971

REVISIONS	
DESCRIPTION	DATE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

APPROVED _____ DATE _____
CHIEF, AIRPORTS DIVISION

RUTLAND STATE AIRPORT
NORTH CLARENDON, VERMONT

VERMONT AERONAUTICS BOARD

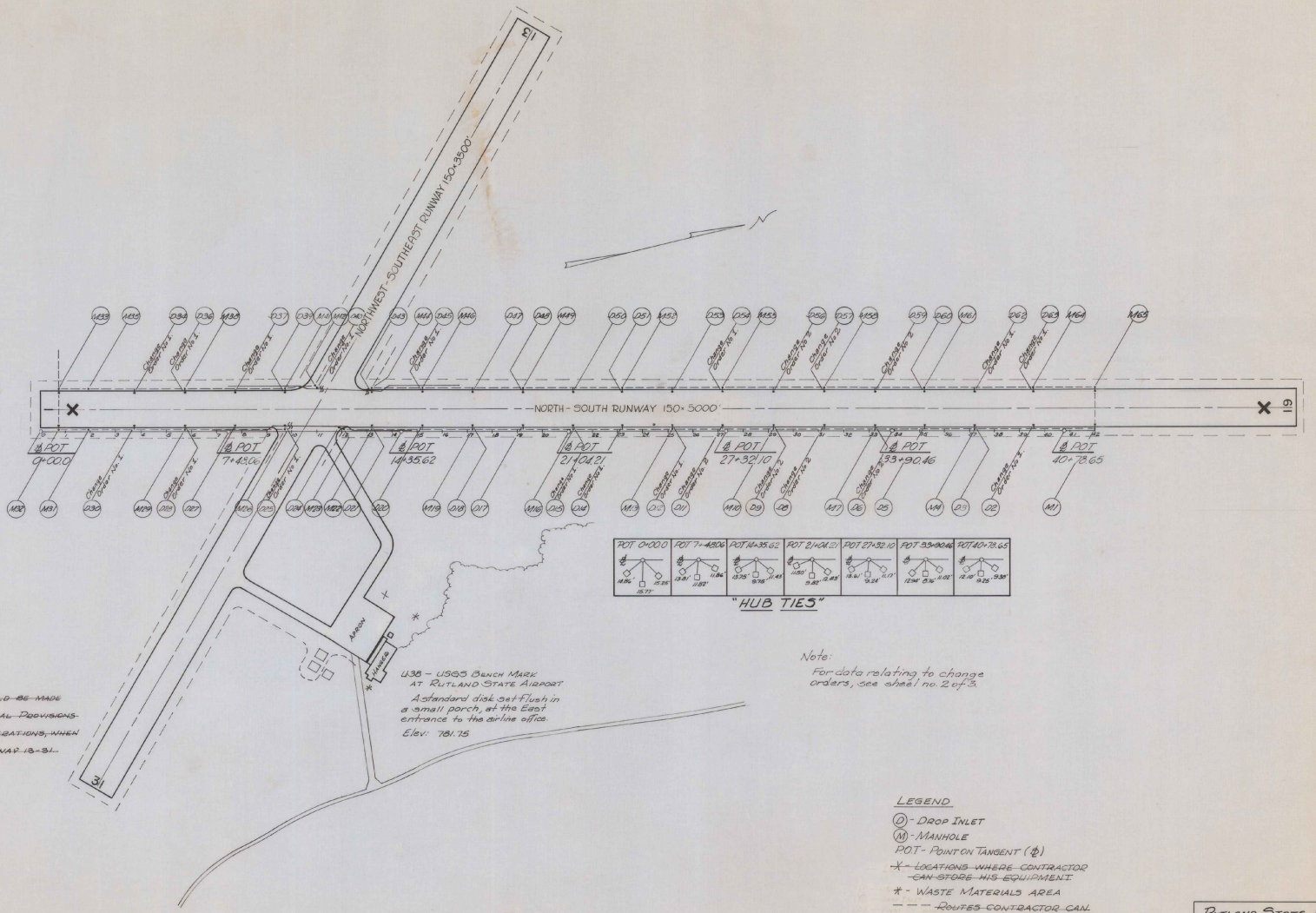
APPROVED _____ DATE Nov 5 '71
COMMISSIONER

APPROVED _____ DATE Nov 3, 71
AIRPORT ENGR.

PREPARED BY
VERMONT AERONAUTICS BOARD
MONTPELIER, VERMONT

STATE OF VERMONT — GEORGE H. SHEPARDSON — No. 2507 — REGISTERED PROFESSIONAL ENGINEER

G.H. SHEPARDSON—AIRPORT ENGR.
DATE: JUNE, 1971



~~NOTE~~

~~REFERENCE SHOULD BE MADE TO CONTRACT SPECIAL PROVISIONS IN REGARDS TO OPERATIONS WHEN IN VICINITY OF RUNWAY 13-31~~

U38 – USGS Bench Mark at Rutland State Airport

A standard disk set flush in a small porch, at the East entrance to the airline office.

Elev: 781.75

Note:

For data relating to change orders, see sheet no. 2 of 3.

LEGEND

(D) - Drop Inlet

(M) - Manhole

POT - Point on Tangent (℄)

~~X~~ - ~~Locations where contractor can store his equipment~~

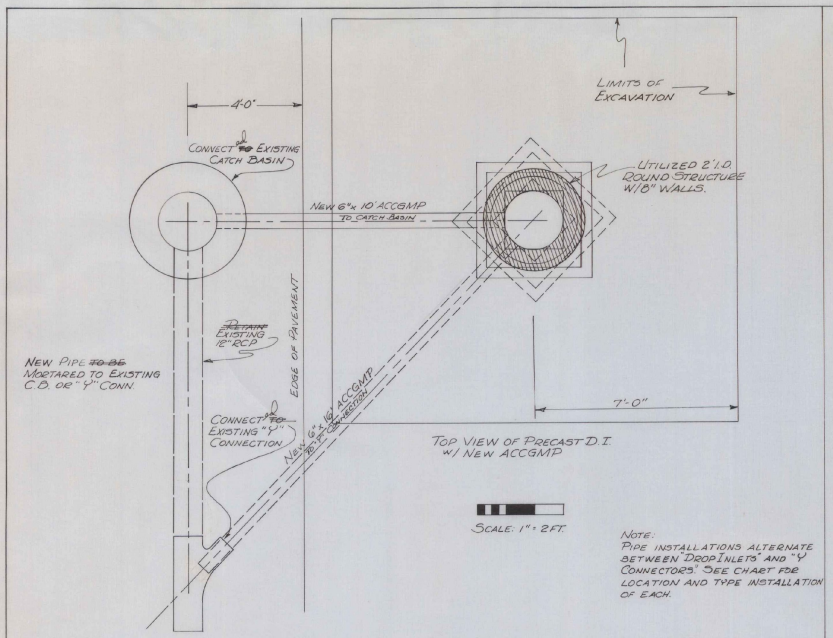
* - Waste Materials Area

~~– – –~~ Routes contractor can travel to get his equipment to the const. site.

~~SS~~ Location of splices in R/W lighting system

Rutland State Airport
ADAP 8-50-0015-01
"Drainage System Plan"
Scale: 1 inch = 200 Feet
Surveyed By: V.A.B. 1971, Drawn By: Herb
G. Shepardson – Airport Engineer

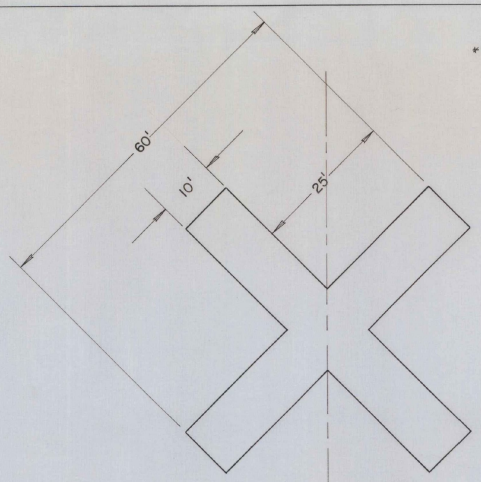
Sheet 1 of 3



TOP VIEW OF PRECAST D.I. W/ NEW ACCGMP

SCALE: 1" = 2 FT.

NOTE:
PIPE INSTALLATIONS ALTERNATE BETWEEN DROP INLETS AND 'Y CONNECTORS' SEE CHART FOR LOCATION AND TYPE INSTALLATION OF EACH.



TYPICAL CLOSED RUNWAY MARKING

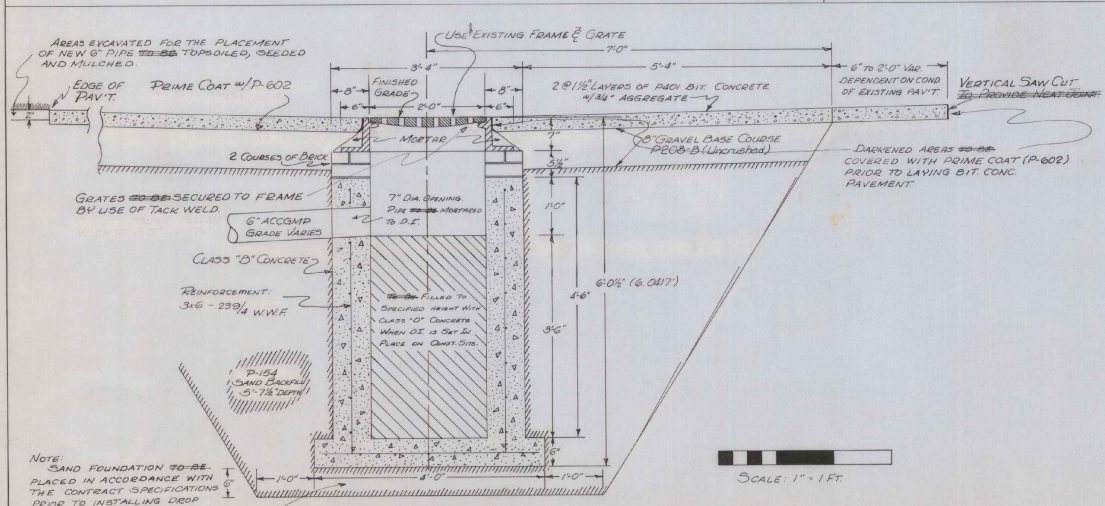
TEMPORARY CROSSES ~~TO BE~~ PAINTED WHITE AND CONSTRUCTED OF SUITABLE MATERIAL AS APPROVED BY THE ENGINEER. (NO DIRECT PAYMENT FOR CONSTRUCTION OF CLOSED RUNWAY MARKING ~~WILL BE~~ MADE. THIS ~~WILL BE~~ CONSIDERED AN INCIDENTAL PART OF THE DROP INLET CONSTRUCTION.

* = ADJUSTED ELEV. OF D.I. BASE.

CHANGE ORDER	DI #	STATION	FINISHED ** GRADE	DI INVERT	MH INVERT	EST. FLOW LINE OF "Y" CONNECTION	SIZE & LENGTH PIPE
C.O. #1	2	39+57	780.10	778.06		774.4	6"x 16' *
	3	37+20	781.23	779.19	776.9		6"x 10' *
	5	35+20.5	782.06	780.02		776.2	6"x 16' *
CO #2/~~778.21~~	6	33+21	783.17	781.13	778.9		6"x 10' *
CO #2/~~779.42~~	8	31+22	784.05	782.01		777.8	6"x 16' *
CO #2/~~780.87~~	9	29+21	785.16	783.12	779.9		6"x 10' *
CO #2/~~781.80~~	11	27+19.5	785.93	783.89		779.0	6"x 16' *
C.O. #1	12	25+18.5	786.21	784.17	781.2		6"x 10' *
C.O. #1	14	23+20	785.98	783.94		779.8	6"x 16' *
C.O. #1	15	21+21	785.53	783.49	780.7		6"x 10' *
	17	19+21	785.18	783.14		779.2	6"x 16' *
	18	17+21	784.44	782.40	779.8		6"x 10' *
	20	15+21	784.52	782.48		779.0	6"x 16' *
	21	13+20	784.53	782.49	780.8		6"x 10' *
	24	11+88	784.18	782.14	780.8		6"x 10' *
C.O. #1	25	9+72.5	783.45	781.41	780.6		6"x 10' *
	27	7+73	783.11	781.07		778.2	6"x 16' *
C.O. #1	28	5+73	782.49	780.45	779.2		6"x 10' *
C.O. #1	30	3+73	781.85	779.81		777.0	6"x 16' *
C.O. #1	34	3+73	781.52	779.48		776.0	6"x 16' *
C.O. #1	36	5+73	782.17	780.13	779.5		6"x 10' *
C.O. #1	37	7+73	782.81	780.77		776.7	6"x 16' *
	39	9+72.5	783.36	781.32	780.1		6"x 10' *
C.O. #1	40	11+00	784.08	782.04	781.2		6"x 10' *
	43	13+20	784.44	782.40	781.7		6"x 10' *
C.O. #1	45	15+21	784.71	782.67	780.9		6"x 10' *
	47	17+21	784.94	782.90		779.6	6"x 16' *
	48	19+21	785.34	783.30	781.9		6"x 10' *
	50	21+21	785.65	783.51		780.6	6"x 16' *
	51	23+20	786.16	784.12	782.9		6"x 10' *
	53	25+18.5	786.31	784.27		780.7	6"x 16' *
C.O. #1	54	27+19.5	786.05	784.01	782.2		6"x 10' *
CO #2/~~781.97~~	56	29+21	785.05	783.01		779.9	6"x 16' *
CO #2/~~780.54~~	57	31+22	784.06	782.02	780.7		6"x 10' *
CO #2/~~779.71~~	59	33+21	783.09	781.05		778.3	6"x 16' *
	60	35+20.5	782.08	780.04	779.2		6"x 10' *
C.O. #1	62	37+20	781.48	779.44		776.1	6"x 16' *
C.O. #1	63	39+57	780.09	778.05	777.0		6"x 10' *

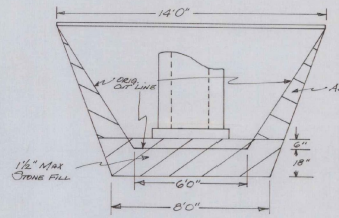
* DENOTES 16 GAUGE OR (.064) PIPE

** GRADES ARE ESTABLISHED BY USE OF C & G'S. (MEAN SEA LEVEL)

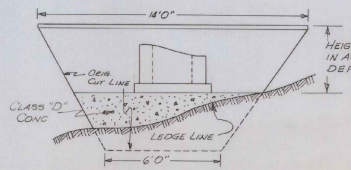


PRECAST DROP INLET STD. 525 (ESSEX STD.) AS CONSTRUCTED BY ~~S.T. GRISWOLD & COMPANY, INC. OR EQUIV.~~ HUME PIPE CORP.

SCALE: 1" = 1 FT.

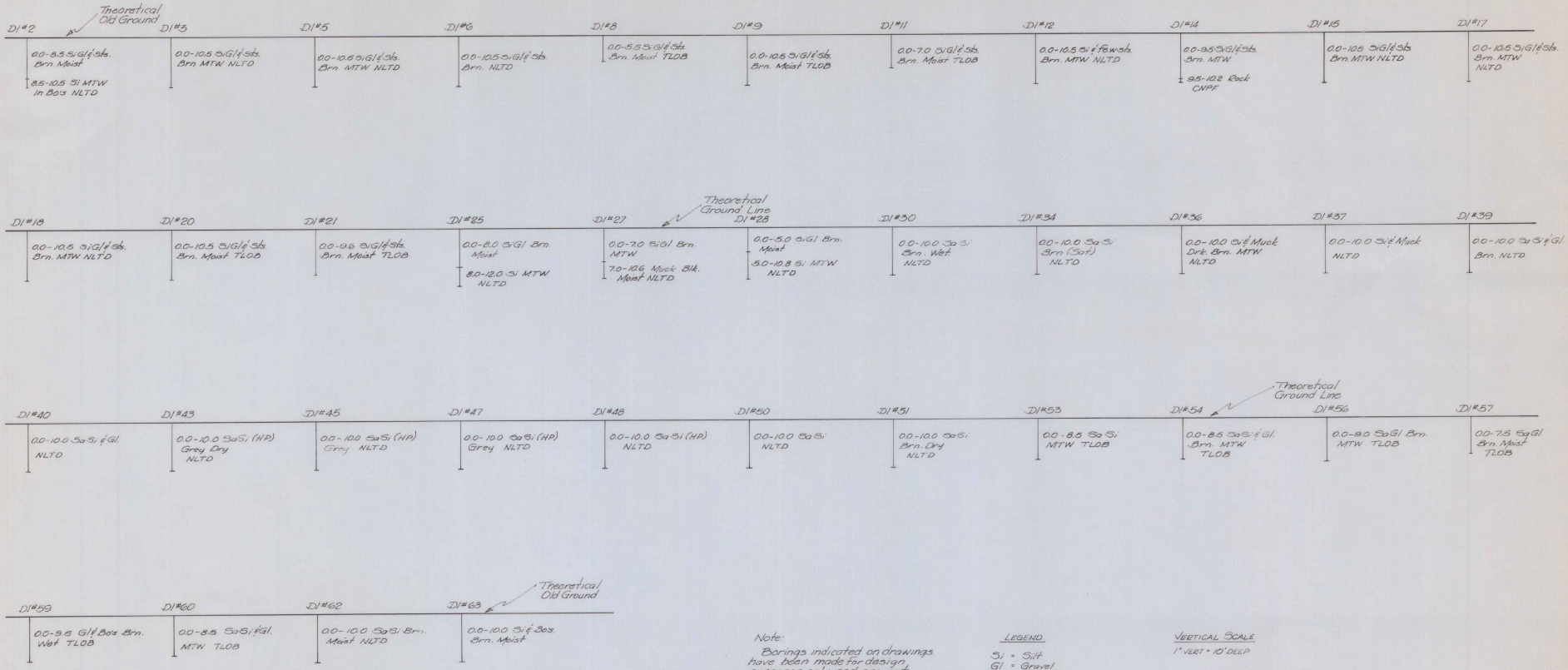


CHANGE ORDER NO. ONE



CHANGE ORDER NO. TWO

RUTLAND STATE AIRPORT
ADAP 8-50-0015-01
DROP INLET TYPICAL
DRAWN BY: R. KERR - 5,71 G. SHEPARDSON - AIRPORT ENGR.



Note:
Borings indicated on drawings have been made for design purposes only and are not warranted to show actual sub-surface conditions.

LEGEND

Si = Silt
Gl = Gravel
Sts = Stones
Bos = Boulders
Sa = Sand
TLOB = To ledge or boulders
MTW = Moist to Wet
NLTD = No ledge to depth
CNPF = Cannot penetrate further
(HP) = Hard Pan
(Sat) = Saturated
Brn = Brown
Blk = Black

VERTICAL SCALE

1" VERT = 10' DEEP

RUTLAND STATE AIRPORT

ADAP 8-50-0015-01

"BORING LOG"

BORINGS BY: VERMONT HWY. DEPT. FOR VERMONT AERONAUTICS BOARD

DRAWN BY: R. USER, 6-71

G. SHEPARDSON ~ AIRPORT ENGR.

AERONAUTICS BOARD
STATE OF VERMONT
MONTPELIER

AS BUILT PLANS
I HEREBY CERTIFY THAT ALL CONSTRUCTION
REQUIRED BY THIS SET OF DRAWINGS HAS BEEN
ACCOMPLISHED AS INDICATED HEREIN.
BY Gerald W. D'Amico PROJECT ENGINEER
DATE 4-17-74

RUTLAND STATE AIRPORT
NORTH CLARENDON, VERMONT
LAYOUT PLANS
LOCALIZER FACILITY

ADAP PROJECT NO. 8-50-0015-02

SHEET NO.	TITLE	REV.
1	COVER SHEET	A
2	LOCALIZER PLOT LAYOUT	A
3	CABLE TRENCHING DETAILS	A
4	MODEL 1203 ASSEMBLY & PRINCIPAL DIMENSIONS	A
5	MODEL 1203 FOUNDATION DETAILS	A
6	MODEL 1203 ASSEMBLY DRAWING	A
7	MODEL 1203 RF & AC SCHEMATIC	
8	MODEL 1203 SYSTEM CABLING	
9	8'X 19' TRAILER FLOOR PLAN TRENCHING & CONDUIT DETAILS	A
10	8'X 19' TRAILER FOUNDATION DETAILS	A
11	8'X 19' TRAILER W/ SPECIFICATIONS	A
12	NDB & LOCALIZER LOCATIONS ON NATIONAL GEOLOGICAL SURVEY MAP	
13	NDB PLOT LAYOUT	
14	NDB FOUNDATION & COUNTERPOISE DETAILS	
15	MODEL 1203 GROUNDING DETAILS	

U.S.
DEPARTMENT OF TRANSPORTATION
FEDERAL
AVIATION ADMINISTRATION

APPROVED: _____ DATE _____
CHEIF AIRPORTS DIVISION

APPROVED: _____ DATE _____
CHEIF FACILITIES DIVISION

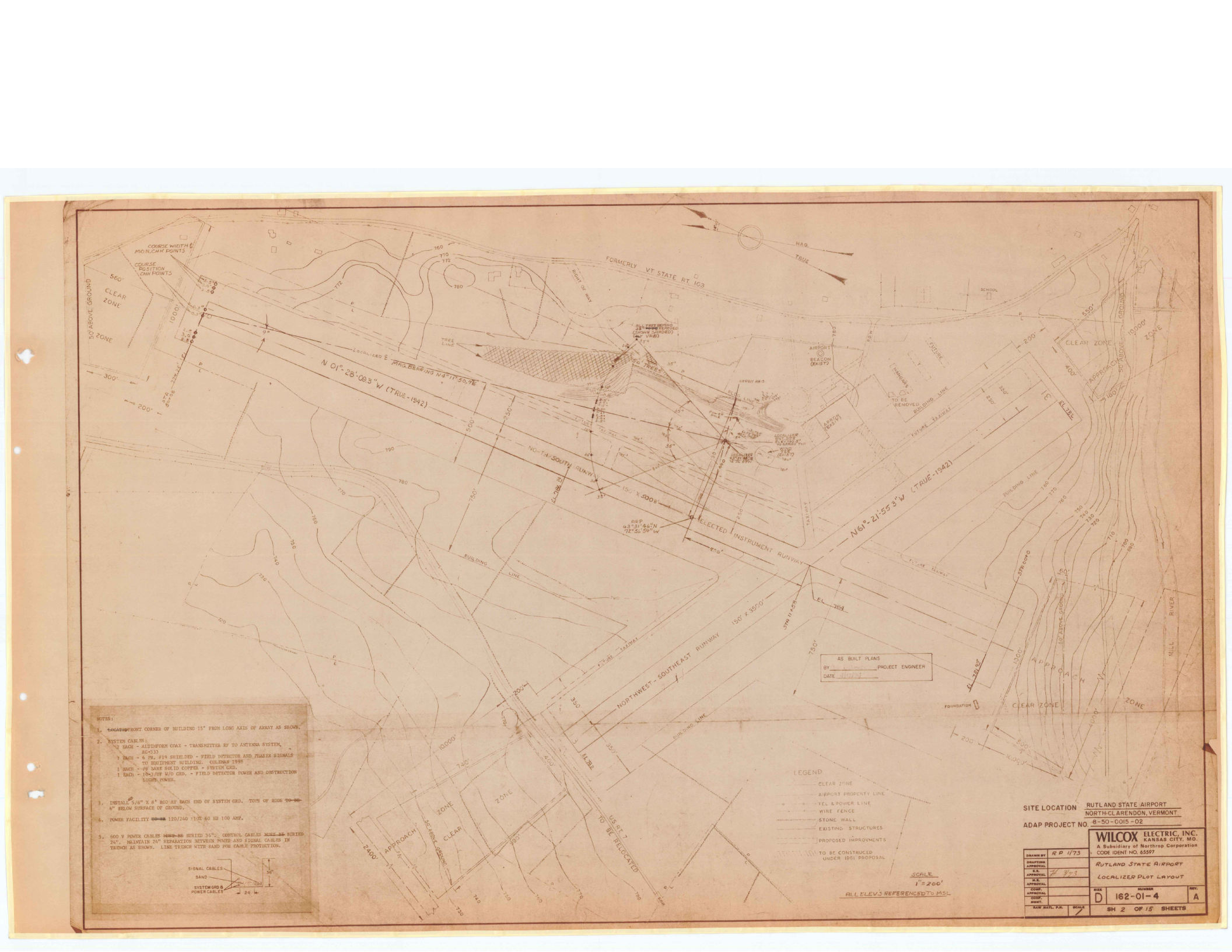
VERMONT
AERONAUTICS BOARD

APPROVED: _____ DATE _____
COMMISSIONER

APPROVED: _____ DATE _____
AIRPORT ENGINEER

SUPPLIED BY WILCOX ELECTRIC, INC.
KANSAS CITY, MO.
A Subsidiary of Northrop Corporation
CODE IDENT NO. 65597

DATE: MARCH 19, 1973
REV. MAY 10, 1973 SHEETS 1-11 ONLY



NOTES:

1. ~~LOCATE~~ FRONT CORNER OF BUILDING 15" FROM LONG AXIS OF ARRAY AS SHOWN.
2. SYSTEM CABLES:
   - 2 EACH - ALUMIFORM COAX - TRANSMITTER RF TO ANTENNA SYSTEM, RG-333
   - 1 EACH - 6 PR. #19 SHIELDED - FIELD DETECTOR AND PHASER SIGNALS TO EQUIPMENT BUILDING. COLEMAN 1998
   - 1 EACH - #8 BARE SOLID COPPER - SYSTEM GRD.
   - 1 EACH - 10-3/UF W/O GRD. - FIELD DETECTOR POWER AND OBSTRUCTION LIGHTS POWER.
3. INSTALL 5/8" X 8' ROD AT EACH END OF SYSTEM GRD. TOPS OF RODS ~~TO BE~~ 6" BELOW SURFACE OF GROUND.
4. POWER FACILITY ~~TO BE~~ 120/240 ±10% 60 HZ 100 AMP.
5. 600 V POWER CABLES ~~MUST BE~~ BURIED 36". CONTROL CABLES ~~MUST BE~~ BURIED 24". MAINTAIN 24" SEPARATION BETWEEN POWER AND SIGNAL CABLES IN TRENCH AS SHOWN. LINE TRENCH WITH SAND FOR CABLE PROTECTION.

LEGEND
- CLEAR ZONE
- AIRPORT PROPERTY LINE
- TEL & POWER LINE
- WIRE FENCE
- STONE WALL
- EXISTING STRUCTURES
- PROPOSED IMPROVMENTS
- TO BE CONSTRUCTED UNDER 1961 PROPOSAL

SCALE 1"=200'

ALL ELEVS REFERENCED TO MSL

SITE LOCATION RUTLAND STATE AIRPORT
NORTH CLARENDON, VERMONT

ADAP PROJECT NO. 8-50-0015-02

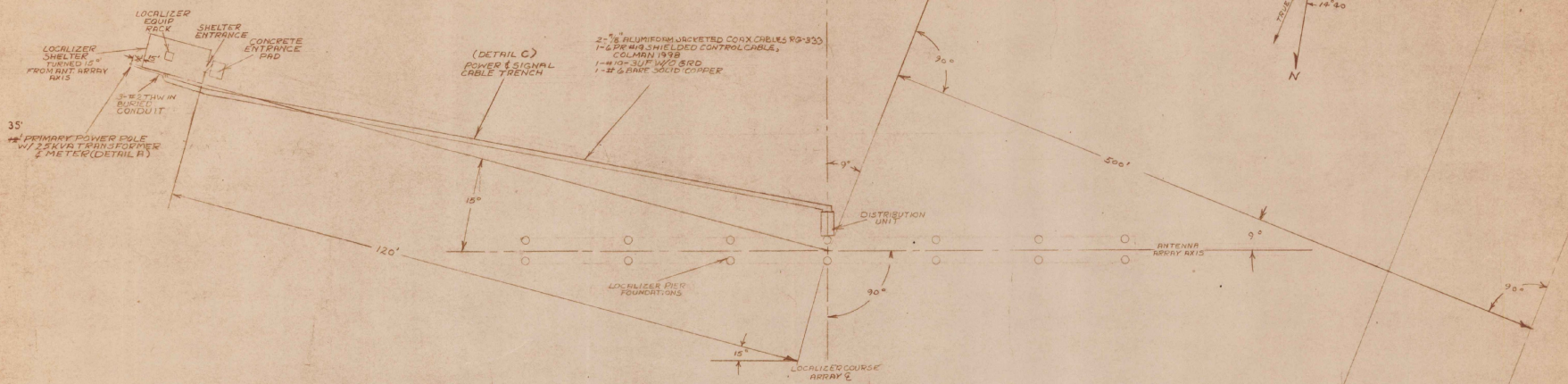
WILCOX ELECTRIC, INC.
KANSAS CITY, MO.
A Subsidiary of Northrop Corporation
CODE IDENT NO. 65597

DRAWN BY	R P 11/73
DRAFTING APPROVAL	
E.E. APPROVAL	H 1/23
R.E. APPROVAL	
CONST. APPROVAL	
CONST. MGMT.	
RAW MATL. P.R.	
SCALE	

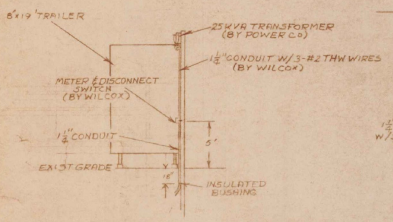
RUTLAND STATE AIRPORT
LOCALIZER PLOT LAYOUT

SIZE D | NUMBER 162-01-4 | REV. A

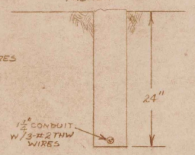
SH 2 OF 15 SHEETS



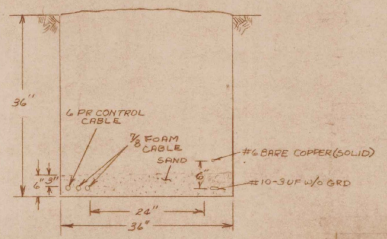
DETAIL A
PRIMARY POWER POLE



DETAIL B
SECONDARY POWER TRENCH



DETAIL C
POWER & SIGNAL CABLE TRENCH



NO SCALE

NOTES:

1. SUBCONTRACTOR ~~WILL~~ PROVIDE TRENCHES AS SHOWN AND INSTALL DIRECT BURIAL CABLE INDICATED BACKFILL AND COMPACT AS REQUIRED. UNLESS OTHERWISE SPECIFIED IN THE SUBCONTRACT DIRECT BURIAL CABLE WILL BE SUPPLIED BY WILCOX.
2. ~~PERMANENT AND PERMANENT CABLE MARKERS SHALL BE SUPPLIED AND INSTALLED BY THE SUBCONTRACTOR AT 200 FOOT INTERVALS AND AT EACH CHANGE OF DIRECTION OF TRENCH) AND WITHIN 25 FEET OF ANY MANHOLE OR PULL BOX. CABLE MARKER SHALL CONFORM TO FAA SPEC 1391. (NOT REQUIRED FOR THIS PROJECT)~~
3. POWER CABLES ~~TO BE~~ TERMINATED BY SUBCONTRACTOR. CABLES ~~TO BE~~ TAPED TO PROTECT OPEN ENDS. COAXIAL CABLES ARE MADE FROM SOFT ALUMINUM TUBING AND WILL BE RUINED IF KINKED. CABLE INSTALLATION ~~TO BE~~ INSPECTED BY THE PRIME CONTRACTOR BEFORE CONCEALMENT BY BACKFILLING. KINKING OR SHARP BENDS IN ANY CABLE SHALL REQUIRE REPLACEMENT OF THE CABLE.
4. PRIMARY POWER 25 KVA 120/240V, 60 HZ WITH STEP DOWN TRANSFORMER LOCATED ADJACENT TO LOCALIZER SHELTER.
5. COAXIAL CABLES ~~WILL BE~~ CUT TO LENGTH AND TERMINATED BY WILCOX.
6. ANTENNA DISTRIBUTION UNIT CONDUITS CONTRACTOR SUPPLIED.

AS BUILT PLANS
BY Gerald W. D'Amico PROJECT ENGINEER
DATE 4/17/74

SITE LOCATION RUTLAND STATE AIRPORT
NORTH CLARENDON, VERMONT

ADAP PROJECT NO. 8-50-0015-02

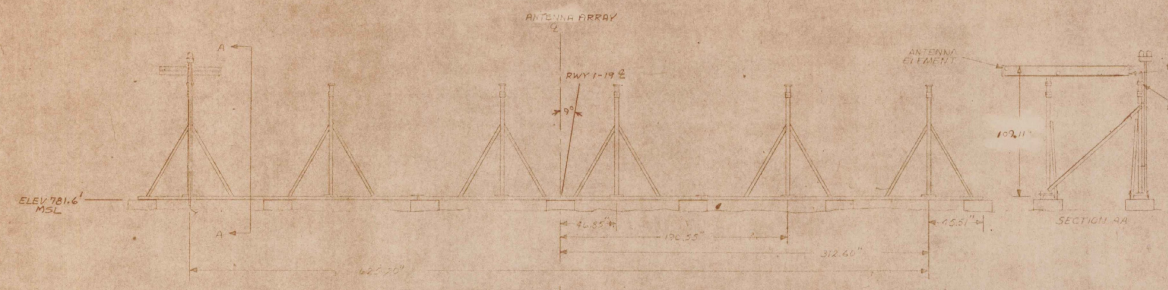
DRAWN BY	RD 10/72
DRAFTING APPROVAL	
E.E. APPROVAL	JH 8/23
M.E. APPROVAL	
CONF. APPROVAL	
CONF. MGMT.	
RAW MATL. P.R.	SCALE

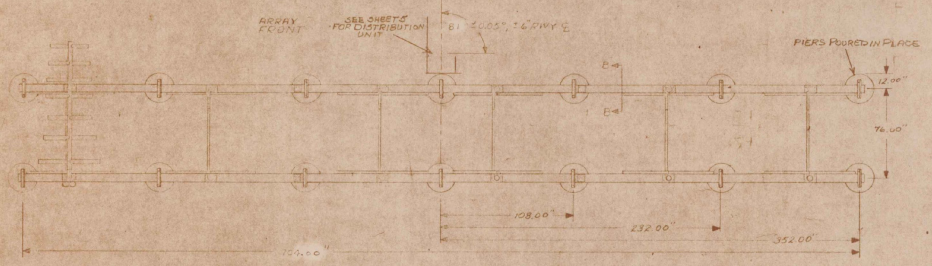
WILCOX ELECTRIC, INC.
KANSAS CITY, MO.
A Subsidiary of Northrop Corporation
CODE IDENT NO. 65597

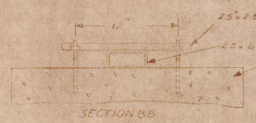
CABLE TRENCHING DETAILS
RUTLAND STATE AIRPORT

SIZE D | NUMBER 162-02-4 | REV. A

SH 3 OF 15 SHEETS







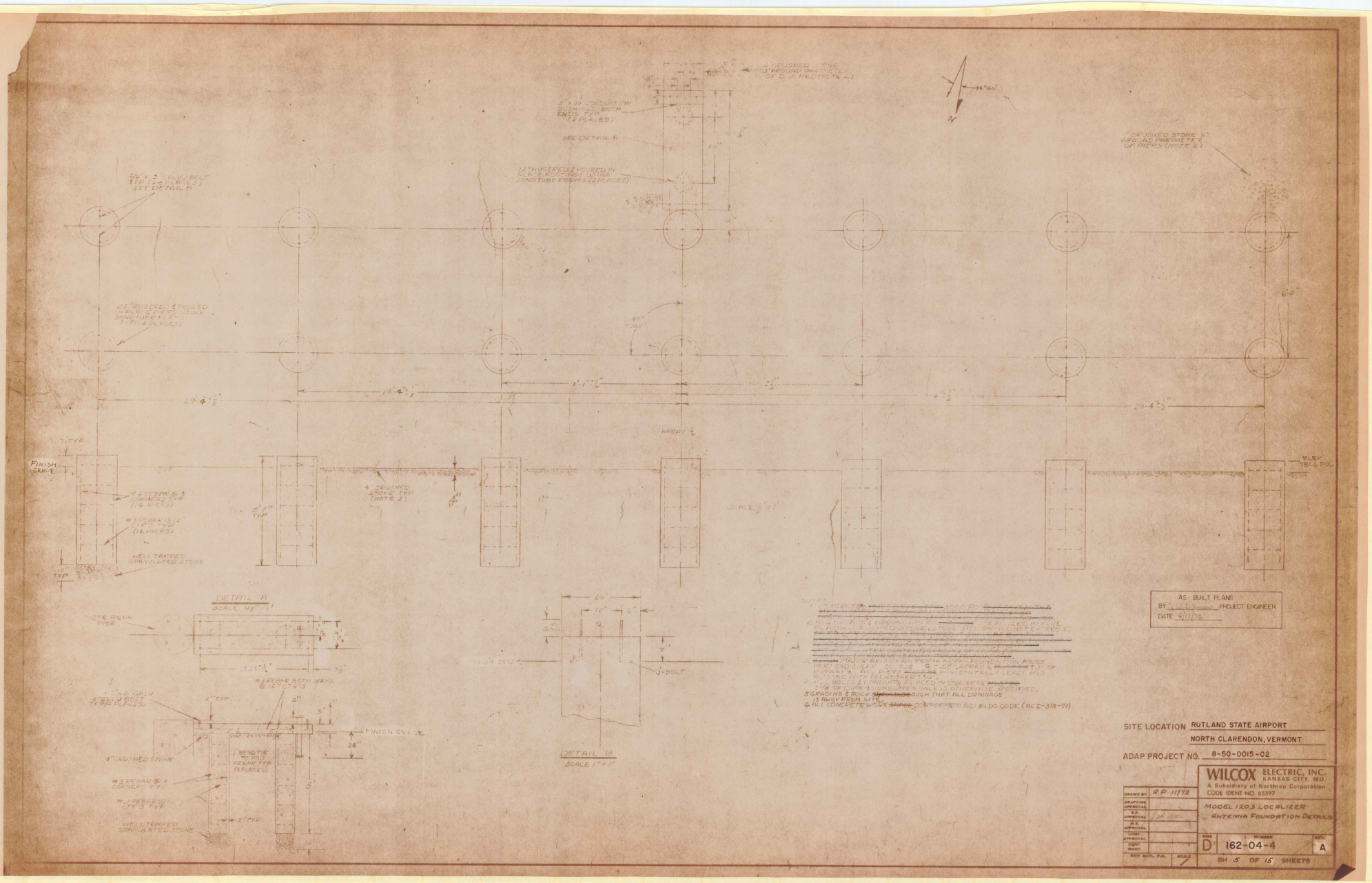
NOTE
1 CABLES ~~MARKED~~ INSERTED IN DXF'S MAST TO FORM ELEMENT ASSEMBLY
2 ANTENNA GROUNDING DETAILS SEE SHEET 14

AS BUILT PLANS
BY Gerald W Dimmick PROJECT ENGINEER
DATE 4/17/74

SITE LOCATION RUTLAND STATE AIRPORT
NORTH CLARENDON, VERMONT

ADAP PROJECT NO. 8-50-0015-02

DRAWN BY	E.P. 11/73	WILCOX ELECTRIC, INC. KANSAS CITY, MO. A Subsidiary of Northrop Corporation CODE IDENT NO. 65597
DRAFTING APPROVAL		
E.E. APPROVAL	[illegible] 11/73	MODEL 120-3 LOCALIZER ANTENNA ASSEMBLY & PRINCIPAL DIMENSIONS
M.E. APPROVAL		
CORP APPROVAL		
CORP MGMT.		
RAW MATL. P.R.	SCALE 1/	SIZE D DRAWING 162-03-4 REV. A
		SH 4 OF 15 SHEETS



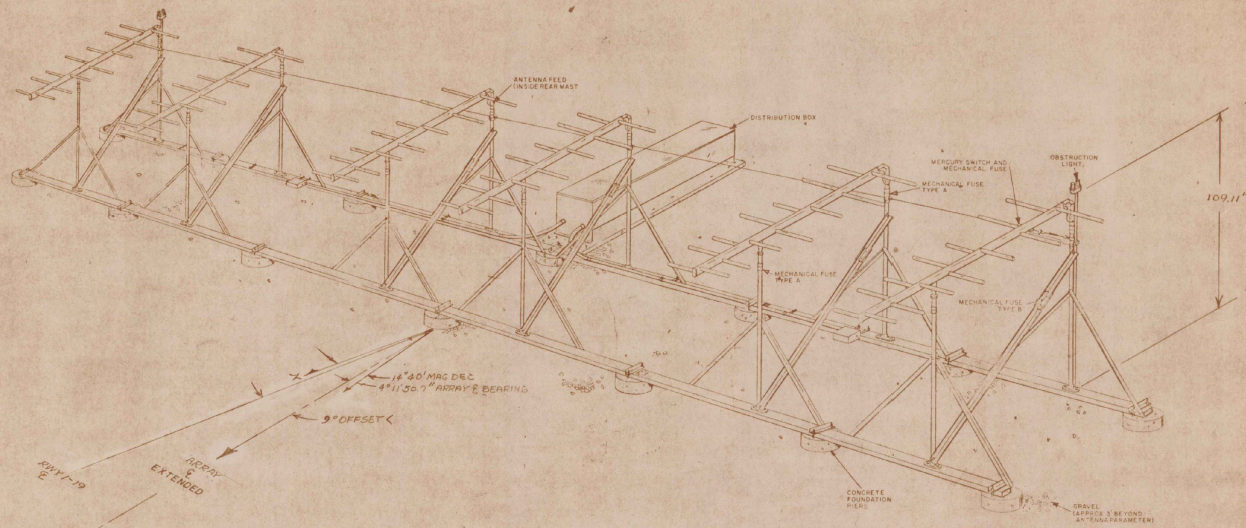
SITE LOCATION RUTLAND STATE AIRPORT
NORTH CLARENDON, VERMONT

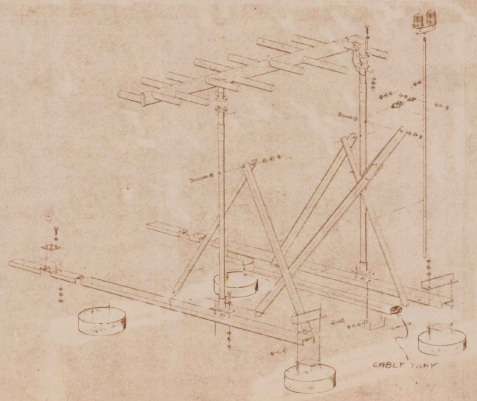
ADAP PROJECT NO. 8-50-0015-02

WILCOX ELECTRIC, INC.
KANSAS CITY, MO.
A Subsidiary of Northrop Corporation
CODE IDENT NO. 65397

DRAWN BY	RP 11/72	
DRAFTING APPROVAL		
E.E. APPROVAL		
R.E. APPROVAL		
QUALITY APPROVAL		
CONTRACT NUMBER		
SIZE	D	
NUMBER	162-04-4	
REV.	A	
SHT.	5 OF 15 SHEETS	

MODEL 1203 LOCALIZER
ANTENNA FOUNDATION DETAILS





AS BUILT PLANS
BY G.W. DAMES PROJECT ENGINEER
DATE 4/17/74

SITE LOCATION RUTLAND STATE AIRPORT
NORTH CLARENDON, VERMONT

ADAP PROJECT NO 8-50-0015-02

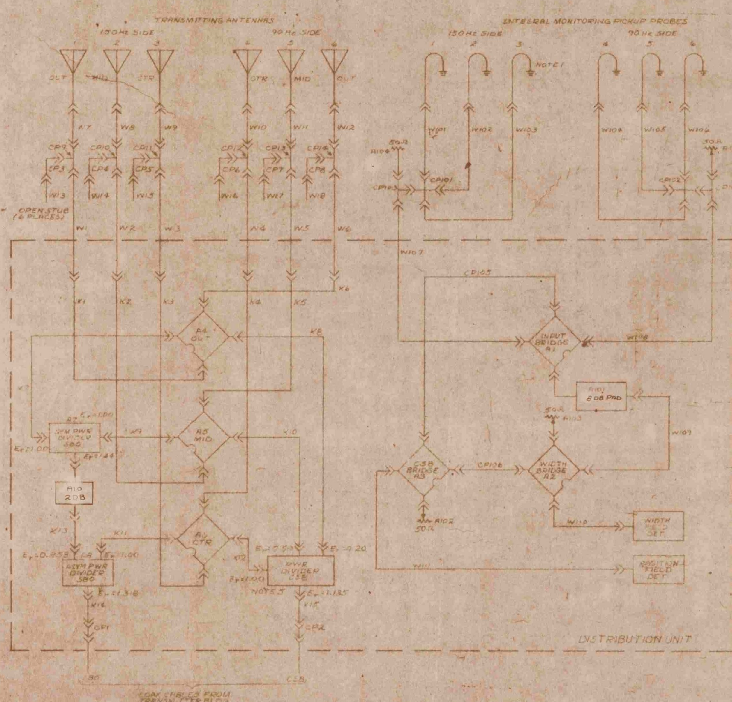
WILCOX ELECTRIC, INC.
KANSAS CITY, MO.
A Subsidiary of Northrop Corporation
CODE IDENT. NO. 65592

DRAWN BY	R.P. 11/72
DRAFTING APPROVAL	
E.E. APPROVAL	
M.E. APPROVAL	
CORP. APPROVAL	
CORP. ISSUE	
RAW MATL. P.N.	SCALE

MODEL 1203 LOCALIZER ANTENNA

SIZE D | NUMBER 162-05-4 | REV A

SH 6 OF 15 SHEETS



DISTRIBUTION AND MONITORING CABLES AND ADAPTERS

I. Cables

Symbol	Description	Length
K1-K6	RG-214/U coax with 1 each UG-1187B/U female type N flanged connector and 1 each UG-1185B/U male type N straight conn.	28 ½"
K7	RG-214/U coax with 2 ea. UG-1185B/U male type N straight connector.	53 ½"
K8	Similar to K7.	19 ½"
K9	Similar to K7.	53 5/8"
K10	Similar to K7.	23 7/8"
K11	RG-214/U coax with 1 ea. UG-1185B/U male type N straight connector and 1 ea. Ted # 7-30-5 or Gremar #5425 male type N right angle connector.	134 5/8"
K12	Similar to K7.	94"
K13	RG-214/U coax with 1 ea. UG-23D/U female type N straight connector and 1 ea. UG1185B/U male type N straight conn.	56"
K14	Similar to K13.	65 3/4"
K15	Similar to K13.	40 3/8"
W1-W6	RG-214/U coax with 1 ea. UG1185B/U male type N straight connector and 1 ea. Ted #7-30-5 or Gremar #5425 male type N right angle connector.	58'
W7-W12	RG-214/U coax with 2 ea. UG1185B/U male type N straight connectors.	18"
W13-W18	RG-223/U coax with 1 ea. Kings #KN-59-51 male type N straight connector. Cable is left open on one end and, field cut for lowest vswr. Final length approx. 30".	52 ½"
W101, W103, W104, W106	RG-214/U coax with 1 ea. UG-1185B/U male type N straight connector and 1 ea. Ted #7-30-5 or Gremar #5425 male type N right angle connector.	25'
W102-W105	RG-214/U coax with 2 ea. Ted #7-30-5 or Gremar #5425 male type N right angle connectors.	25"
W107-W108	RG-214/U coax eith 2 ea. UG1185B/U male type N straight connectors.	25 ft.
W109	Similar to W107-108.	75"
W110-W111	Similar to W107-108.	40"

II Connectors & Adapters

Symbol	Description	Wilcox Part No.
CP1-CP8	Type N Coaxial "L" adapter UG-27C/U	875004-0003
CP9-CP14	Type N Coaxial "T" adapter, all female connector, UG-28A/U	875015-0000
CP101-CP102	Type N coaxial "T" adapter, all female connectors UG-28A/U	875015-0000
CP103-CP104	Type N coaxial "T" adapter, 2 female and 1 male conn., UG107B/U.	875014-0000
CP105-CP106	Type N coaxial adapter, double male connectors, UG57B/U.	875021-0000
CP107-CP108	SAME AS CP103	

NOTES:

1. Probes are received with 50 OHM terminating resistors installed. Substitute buss wire.
2. Abbreviations
   - CTR - Center
   - OUT - Outer
   - ASYM - Asymmetrical
   - SYM - Symetrical
   - MID - Middle
   - SBO - Sideband Only
   - CSB - Carrier Plus Sideband

AS BUILT PLANS
BY Gerald W. D'Amico PROJECT ENGINEER
DATE 4/17/74

SITE LOCATION: RUTLAND STATE AIRPORT
NORTH CLARENDON, VERMONT
ADAP PROJECT NO. 8-50-0015-02

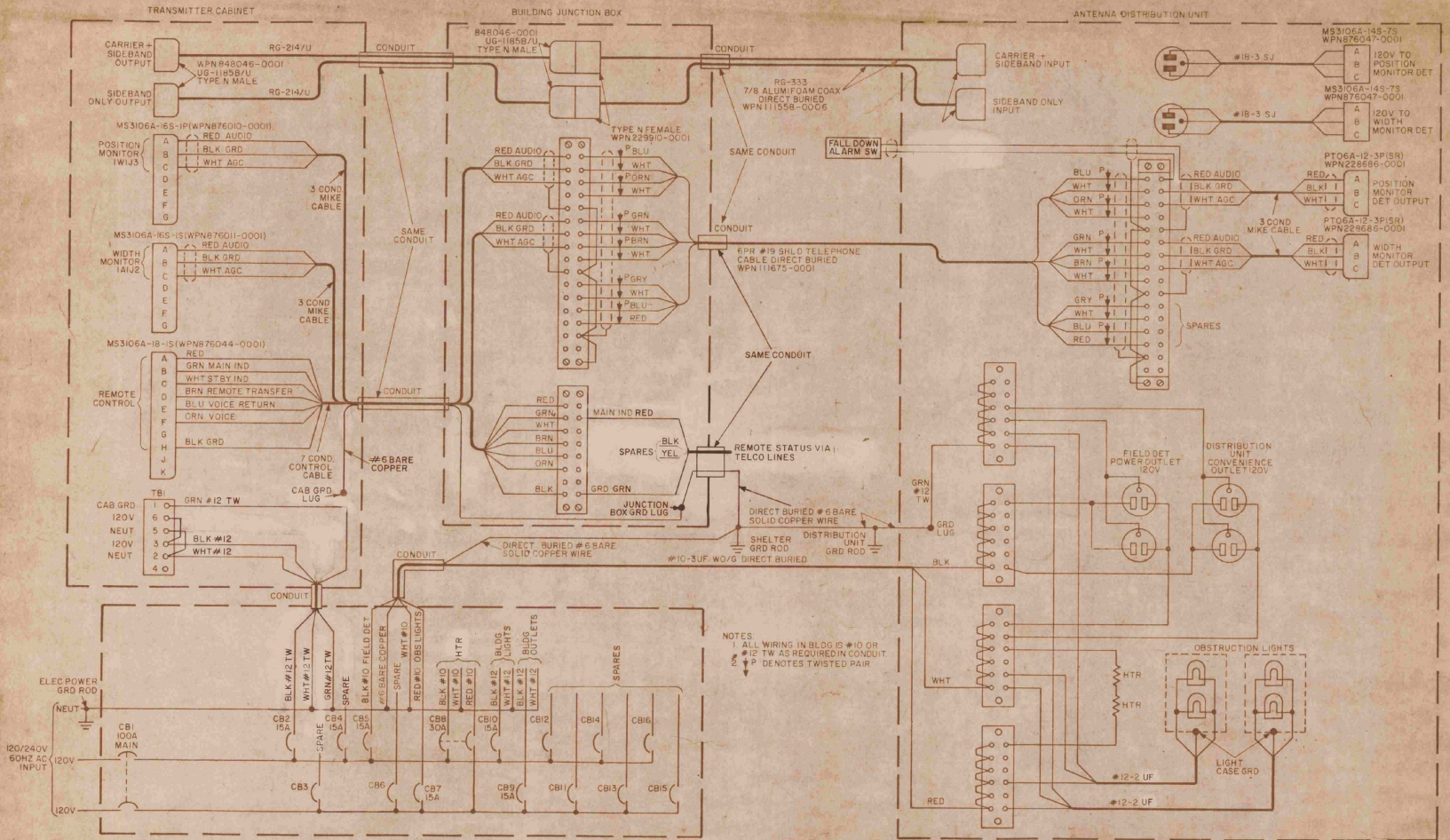
WILCOX ELECTRIC, INC. KANSAS CITY, MO.
A Subsidiary of Northrop Corporation
CODE IDENT NO. 63597

DRAWN BY R.P. 10/72
DRAFTING APPROVAL
E.E. APPROVAL
M.E. APPROVAL
COMP. APPROVAL
CONF. MGMT.
RAW MATL. P/N
SCALE /

MODEL 1203 LOCALIZER ANTENNA RF CABLING & PARTS LIST

SIZE D NUMBER 162-06-4 REV.

SH 7 OF 15 SHEETS



AS BUILT PLANS
BY J.W.D. Amico PROJECT ENGINEER
DATE 4/17/74

SITE LOCATION RUTLAND STATE AIRPORT
NORTH CLAREDON, VERMONT
ADAP PROJECT NO. 8-50-0015-02

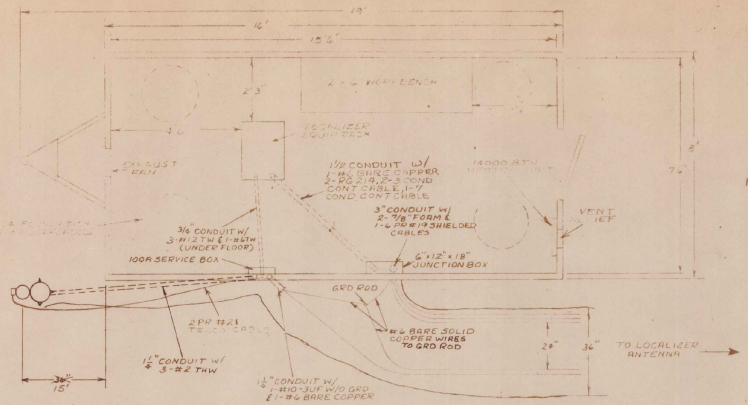
WILCOX ELECTRIC, INC. KANSAS CITY, MO.
A Subsidiary of Northrop Corporation
CODE IDENT NO. 65597

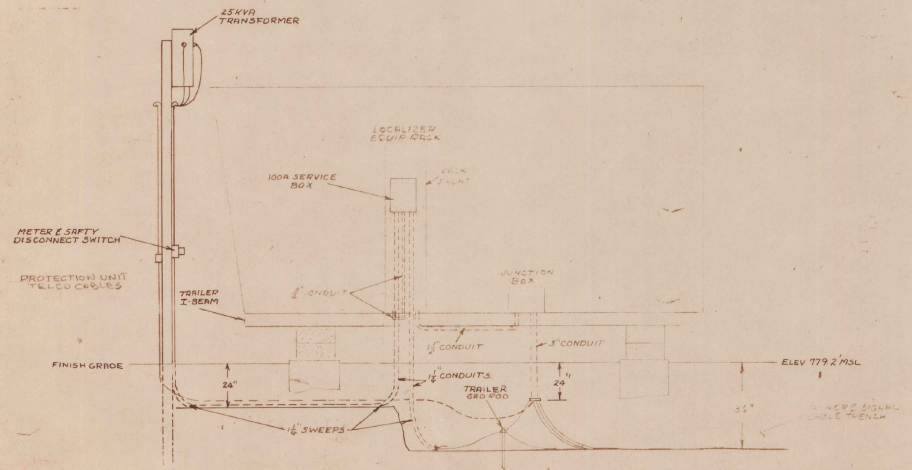
DRAWN BY	RP 11/72
DRAFTING APPROVAL	
E.E. APPROVAL	
M.E. APPROVAL	
QUAL. APPROVAL	
QUAL. MGMT.	
RAW MATL. P.N.	
SCALE	

MODEL 1203 LOCALIZER ANTENNA RF & AC SYSTEM CABLING

SIZE D | NUMBER 162-07-4 | REV

SH 8 OF 15 SHEETS





NOTES:
1. ALL CONDUITS ~~MUST BE~~ TERMINATED WITH BUSHING FOR CABLE PROTECTION & ~~BURIED MINIMUM~~ 24" BELOW GRADE.
2. ALL WIRING MUST MEET NATIONAL ELECTRIC CODE.
3. ALL CONDUITS ~~MUST BE~~ GALV STEEL RIGID.
4. ALL BUSHINGS INSIDE SHELTER ~~MUST BE~~ GROUNDED TO GROUND ROD W/ #6 BARE SOLID COPPER

AS BUILT PLANS
BY Gould & Dimmick PROJECT ENGINEER
DATE 4/1/74

SITE LOCATION: RUTLAND STATE AIRPORT
NORTH CLARENDON VERMONT

ADAP PROJECT NO. 8-50-0015-02

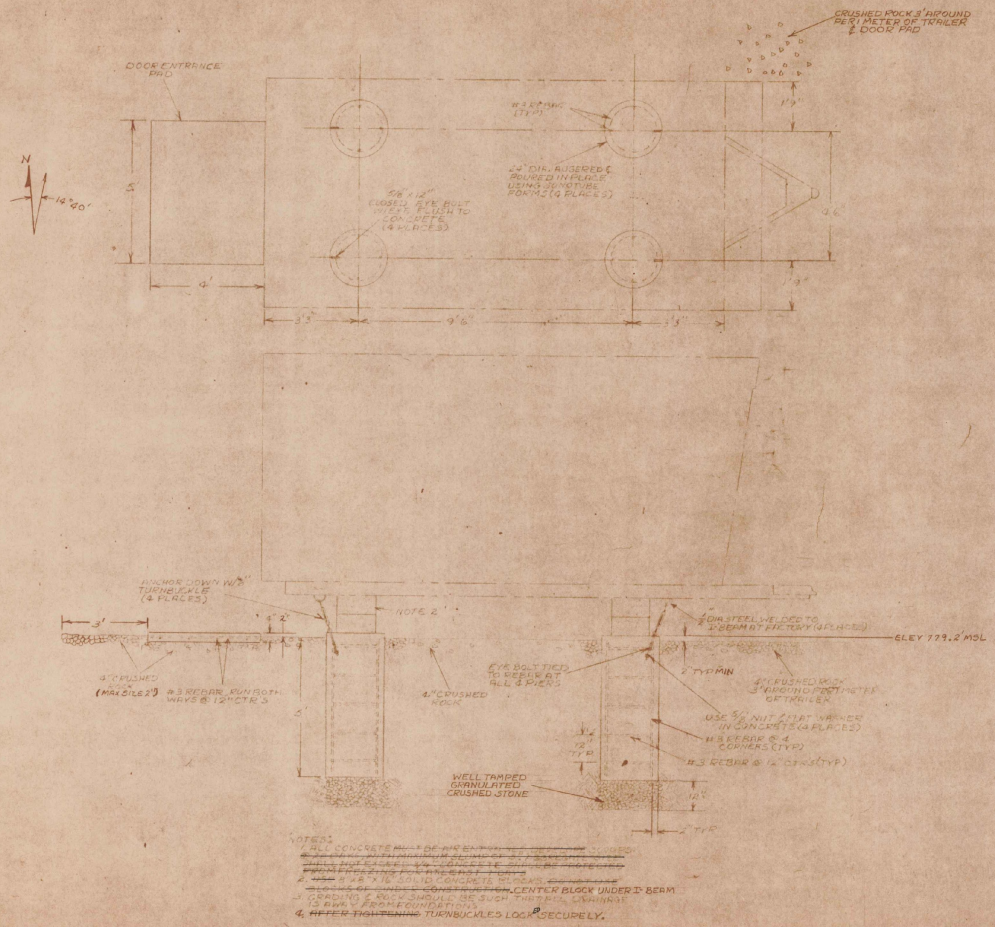
WILCOX ELECTRIC, INC.
KANSAS CITY, MO.
A Subsidiary of Northrop Corporation
CODE IDENT NO. 65597

DRAWN BY	R.F. 2/73	
DRAFTING APPROVAL		
E.E. APPROVAL		
M.E. APPROVAL		
CONT. APPROVAL		
CONT. MGMT		
RAW MAT'L P.N.	SCALE	

8 x 19' TRAILER TRENCHING, FLOOR PLAN & CONDUIT DETAILS (MODEL 1203 LOCALIZER ANTENNA)

SIZE D | NUMBER 162-08-4 | REV B

SH 9 OF 14 SHEETS



NOTES:

1. ALL CONCRETE MUST BE AIR ENTRAINED [illegible]
2. [illegible] CENTER BLOCK UNDER I-BEAM
3. [illegible]
4. AFTER TIGHTENING TURNBUCKLES LOCK SECURELY.

AS BUILT PLANS
BY W J Dennis PROJECT ENGINEER
DATE 4-17-74

SITE LOCATION RUTLAND STATE AIRPORT
NORTH CLARENDON, VERMONT

ADAP PROJECT NO. 8-50-0015-02

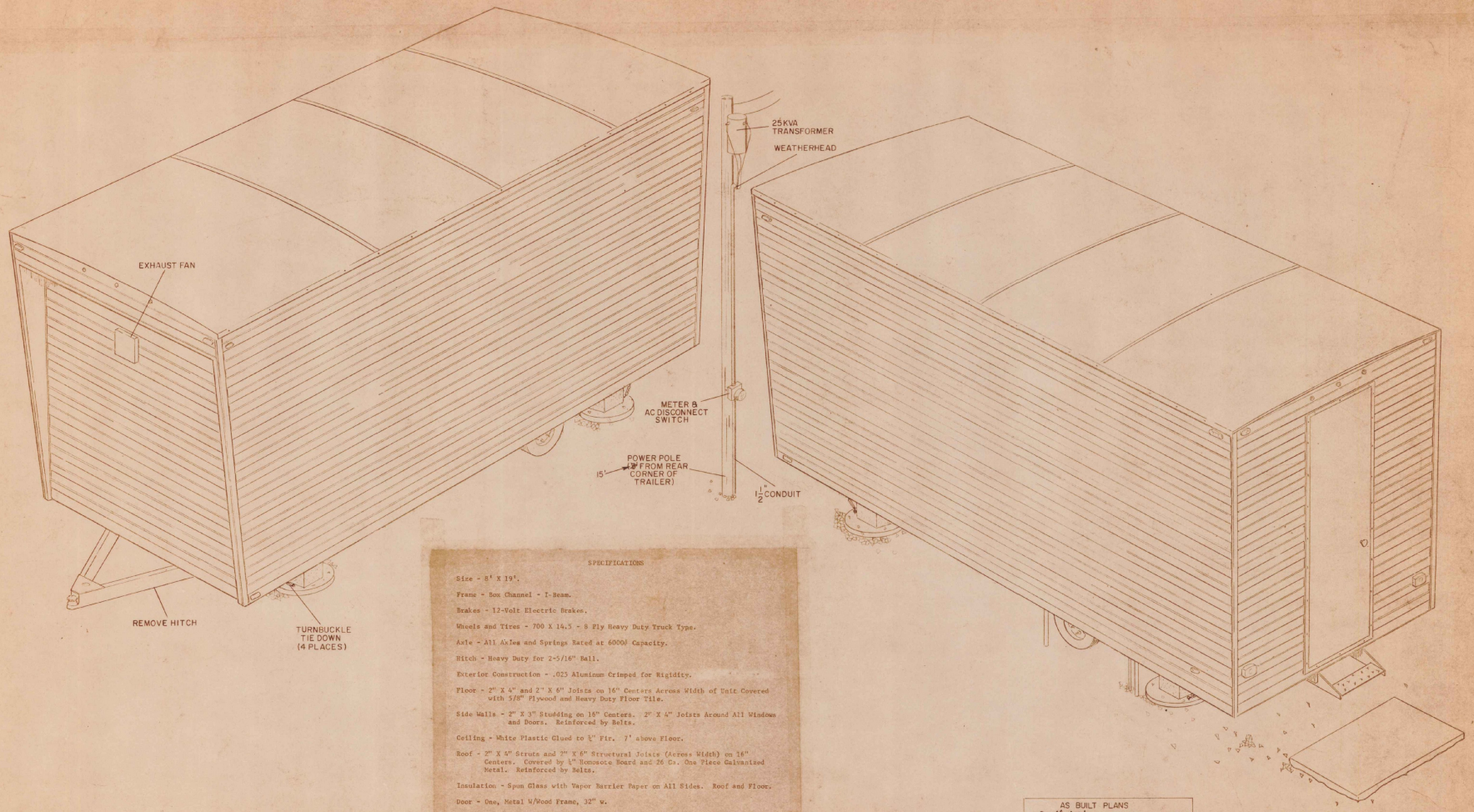
WILCOX ELECTRIC, INC.
KANSAS CITY, MO.
A Subsidiary of Northrop Corporation
CODE IDENT NO. 65397

DRAWN BY	R.P. 11/72
DRAFTING APPROVAL	
E.E. APPROVAL	W.W.S. 11/16/72
M.E. APPROVAL	
COMP. APPROVAL	
CONFIG. CONT.	
RAM MATL. P.N.	SCALE 1

8'x19' TRAILER FOUNDATION
DETAILS

SIZE D | NUMBER 162-09-4 | REV A

SH 10 OF 15 SHEETS



SPECIFICATIONS

Size - 8' X 19'.

Frame - Box Channel - I-Beam.

Brakes - 12-Volt Electric Brakes.

Wheels and Tires - 700 X 14.5 - 8 Ply Heavy Duty Truck Type.

Axle - All Axles and Springs Rated at 6000# Capacity.

Hitch - Heavy Duty for 2-5/16" Ball.

Exterior Construction - .025 Aluminum Crimped for Rigidity.

Floor - 2" X 4" and 2" X 6" Joists on 16" Centers Across Width of Unit Covered with 5/8" Plywood and Heavy Duty Floor Tile.

Side Walls - 2" X 3" Studding on 16" Centers. 2" X 4" Joists Around All Windows and Doors. Reinforced by Belts.

Ceiling - White Plastic Glued to ¼" Fir. 7' above Floor.

Roof - 2" X 4" Struts and 2" X 6" Structural Joists (Across Width) on 16" Centers. Covered by ½" Homosote Board and 26 Ga. One Piece Galvanized Metal. Reinforced by Belts.

Insulation - Spun Glass with Vapor Barrier Paper on All Sides. Roof and Floor.

Door - One, Metal W/Wood Frame, 32" w.

Interior Finish - ¼" Grade "A" Pre-Finished Hard Plywood.

Electrical - 120/240 Volt 100A Service, Wired with #12-2/W Ground.

Lighting - Dual 4' Long Fluorescent Lighting Fixtures Over All Working Areas.

Work Bench - 2' X 6' Covered W/Formica.

Heating - Electric wall furnace, 16,000 BTU

Wind Load- 100 MPH

Anchors - 4 U-Bolts, welded to I-Beams, tensile strength, 5,000 ft. lbs. each.

Color - Striped w/ International Orange & White

AS BUILT PLANS
BY Gerald W. D'Amico PROJECT ENGINEER
DATE 4/17/74

SITE LOCATION RUTLAND STATE AIRPORT
NORTH CLARENDON, VERMONT

ADAP PROJECT NO. 8-50-0015-02

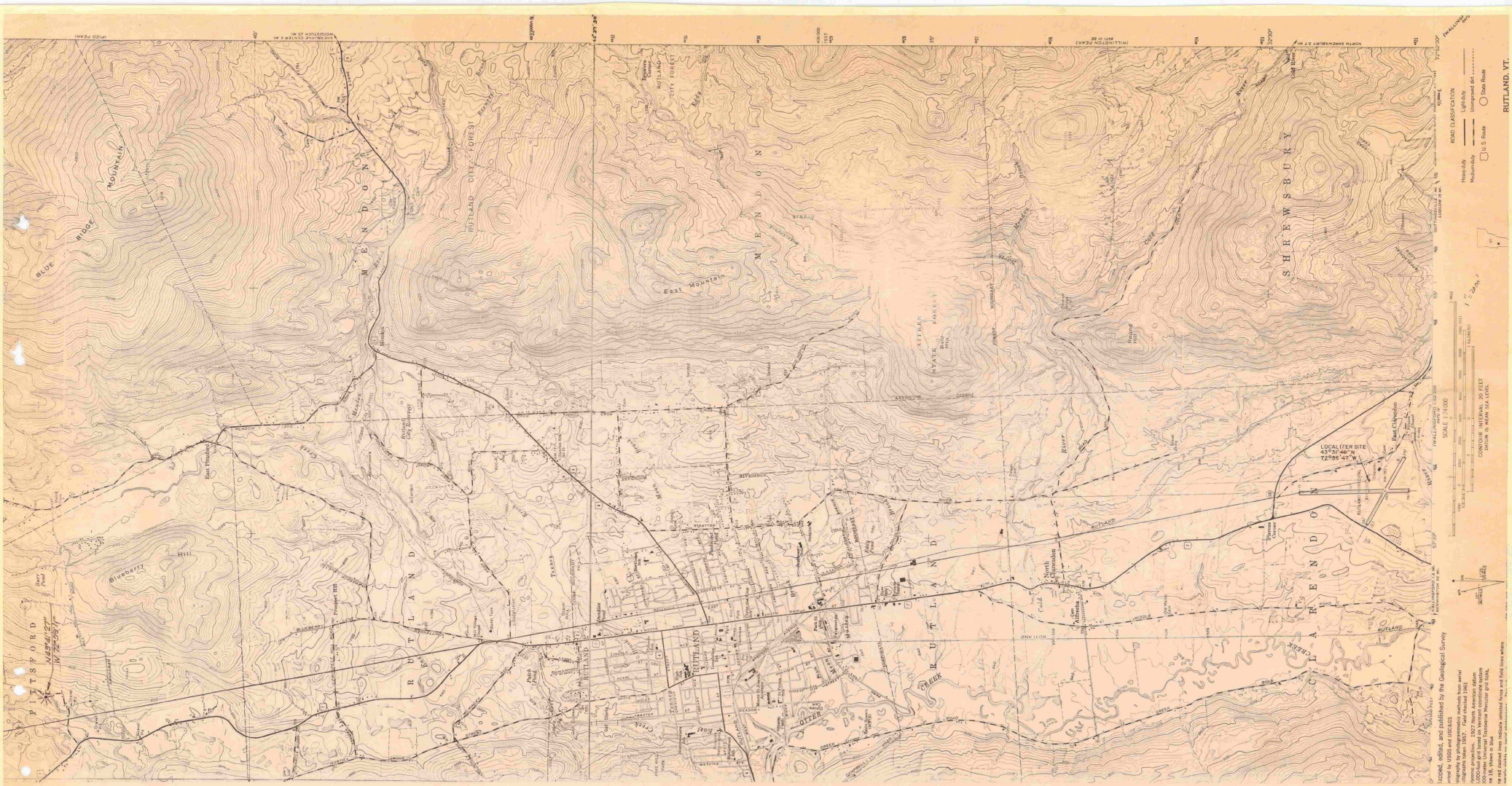
WILCOX ELECTRIC, INC.
KANSAS CITY, MO.
A Subsidiary of Northrop Corporation
CODE IDENT NO. 65597

DRAWN BY	RP 2173
DRAFTING APPROVAL	
E.E. APPROVAL	
M.E. APPROVAL	
COMP. APPROVAL	
CONF. MGMT.	
RAW MATL. P.N.	
SCALE	

8x19' TRAILER W/SPECIFICATIONS

SIZE D | NUMBER 162-10-4 | REV. A

SH 11 OF 15 SHEETS



AS BUILT PLANS
BY Donald Damico PROJECT ENGINEER
DATE 4/17/79

14°40

SITE LOCATION RUTLAND STATE AIRPORT
NORTH CLARENDON, VERMONT

ADAP PROJECT NO. 8-50-0015-02

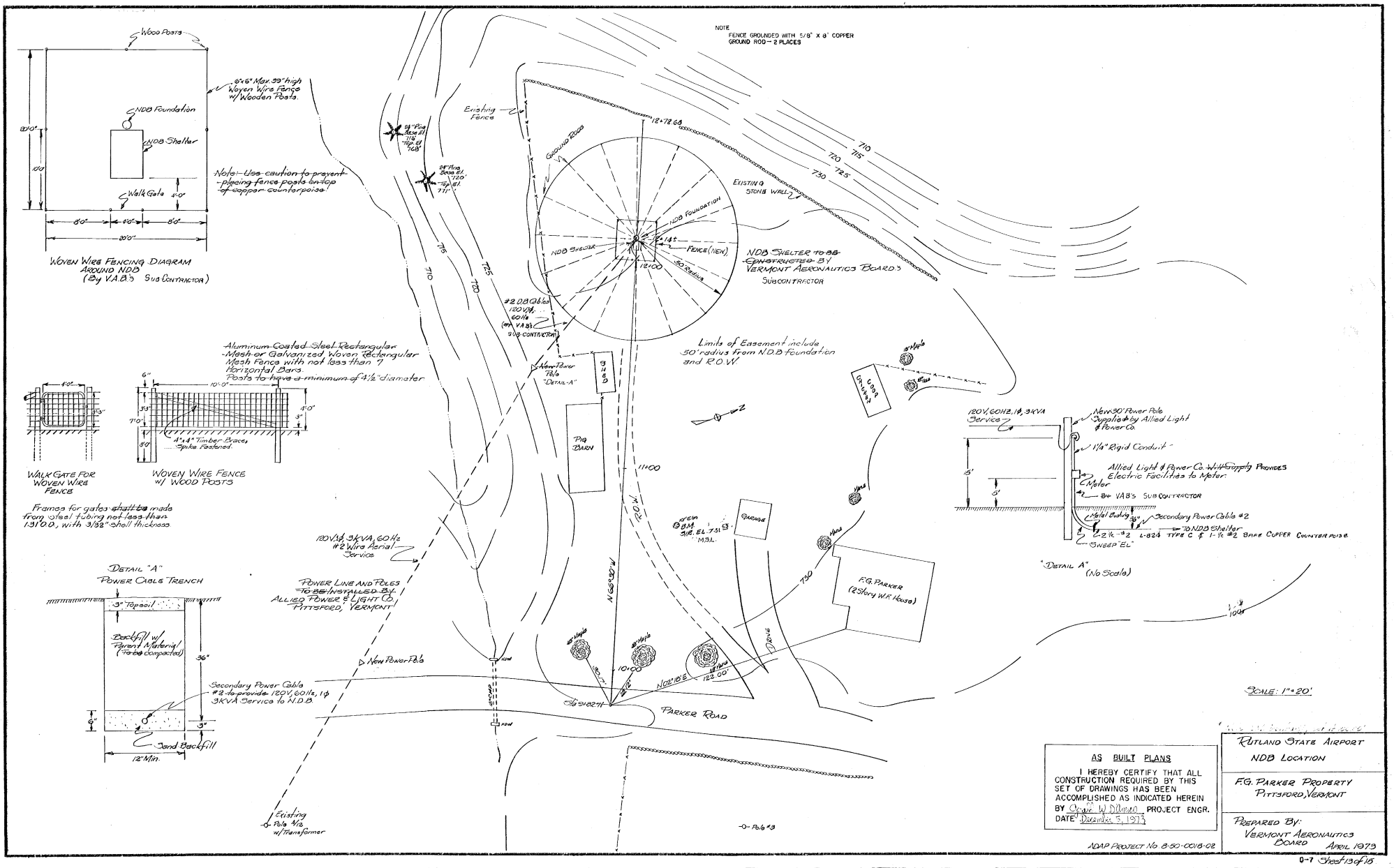
WILCOX ELECTRIC, INC.
KANSAS CITY, MO.
A Subsidiary of Northrop Corporation
CODE IDENT NO. 65597

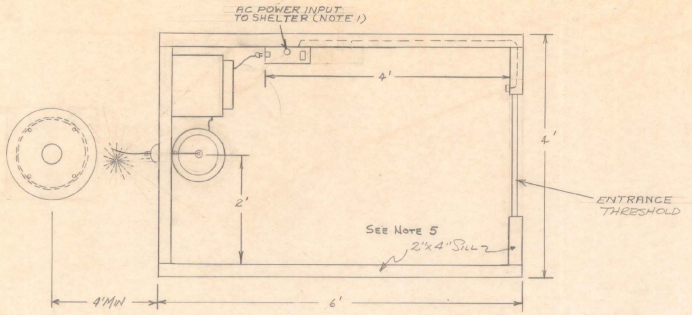
DRAWN BY	R.P. 4/13
DRAFTING APPROVAL	
E.E. APPROVAL	
M.E. APPROVAL	
COMP. APPROVAL	
CONF. MGMT.	
RAW MATL. P.N.	SCALE

NDB & LOCALIZER LOCATIONS ON NATIONAL GEOLOGICAL SURVEY MAP

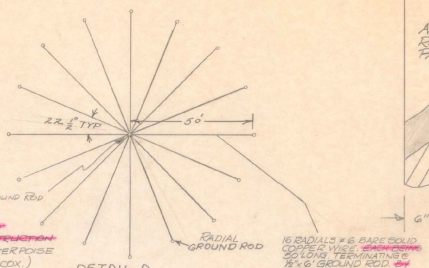
SIZE D | NUMBER 162-11-4 | REV.

SH 12 OF 15 SHEETS


Wood Posts
6'-6" Max. 39" high Woven Wire Fence w/ Wooden Posts.
NDB Foundation
NDB Shelter
Walk Gate 4'-0"
8'-0"
4'-0"
8'-0"
20'-0"
10'-0"
Note:- Use caution to prevent placing fence posts on top of copper counterpoise!
WOVEN WIRE FENCING DIAGRAM AROUND NDB (By V.A.B.'s Sub Contractor)
NOTE
FENCE GROUNDED WITH 5/8" X 8' COPPER GROUND ROD - 2 PLACES
Existing Fence
Ground Rods
18+72.68
710
715
720
725
730
EXISTING STONE WALL
NDB FOUNDATION
NDB SHELTER
FENCE (TYP.)
18+00
50' Radius
NDB SHELTER TO BE CONSTRUCTED BY VERMONT AERONAUTICS BOARD'S SUBCONTRACTOR
#2 DB Cable 120 V.A. 60 Hz (by V.A.B.'s SUB CONTRACTOR)
Limits of Easement include 50' radius from N.D.B. foundation and R.O.W.
Aluminum Coated Steel Rectangular Mesh or Galvanized Woven Rectangular Mesh Fence with not less than 7 Horizontal Bars. Posts to have a minimum of 4½" diameter
4'-0"
6"
10'-0"
3½"
7'-0"
3"
4'-0"
8'-0"
4"x4" Timber Braces Spike Fastened.
WALK GATE FOR WOVEN WIRE FENCE
WOVEN WIRE FENCE w/ WOOD POSTS
Frames for gates shall be made from steel tubing not less than 1.315 O.D., with 3/32" shell thickness.
New Power Pole "Detail-A"
Barn
Pig Barn
Shed
Garage
11+00
R.O.W.
N 65°30' W
120 V.A. 3 KVA 60 Hz #2 Wire Aerial Service
POWER LINE AND POLES TO BE INSTALLED BY ALLIED POWER & LIGHT CO. PITTSFORD, VERMONT
New Power Pole
Existing Pole No. w/ Transformer
-0- Pole #3
10+00
N 61°10' E
122.00'
Sta 9+22.71
PARKER ROAD
F.G. PARKER (2 Story W.F. House)
Drive
750
1000
SCALE: 1" = 20'
DETAIL "A" POWER CABLE TRENCH
3" Topsoil
Backfill w/ Parent Material (To be Compacted)
36"
Secondary Power Cable #2 to provide 120 V, 60 Hz, 1 ϕ 3 KVA Service to N.D.B.
6"
3"
Sand Backfill
12" Min.
120 V, 60 Hz, 1 ϕ, 3 KVA Service
New 30' Power Pole Supplied by Allied Light & Power Co.
1¼" Rigid Conduit
Allied Light & Power Co. will supply Provides Electric Facilities to Meter.
Meter
8# VAB's SUB CONTRACTOR
Metal Bushing
Secondary Power Cable #2
2½ - #2 L-824 TYPE C & 1-½ #2 BARE COPPER COUNTER POISE
To N.D.B. Shelter
Sweep "EL"
"DETAIL A" (No Scale)
AS BUILT PLANS
I HEREBY CERTIFY THAT ALL CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN
BY Grace W. Dillman PROJECT ENGR.
DATE December 5, 1973
RUTLAND STATE AIRPORT
NDB LOCATION
F.G. PARKER PROPERTY
PITTSFORD, VERMONT
PREPARED BY: VERMONT AERONAUTICS BOARD
APRIL 1973
ADAP PROJECT No. 8-50-0018-02
D-7 Sheet 13 of 16



NOTE: ORIENT ANTENNA SO THAT IT CAN SWING DOWN FOR MAINTENANCE

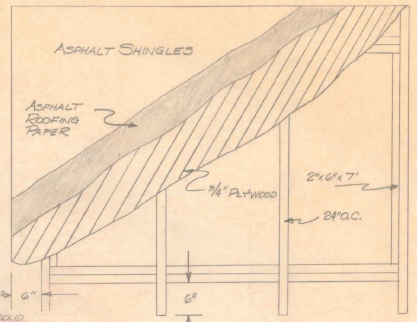


~~NOTE: PULSE GROUND WIRES FOOD TO CONSTRUCTION OF SHELTER.~~ (COUNTERPOISE & GROUNDING BY WILCOX.)

GROUND WIRES ~~SHOWN~~ ROUTED AROUND PROPOSED SHELTER - SEE PAGE 13 & 15.

DETAIL A

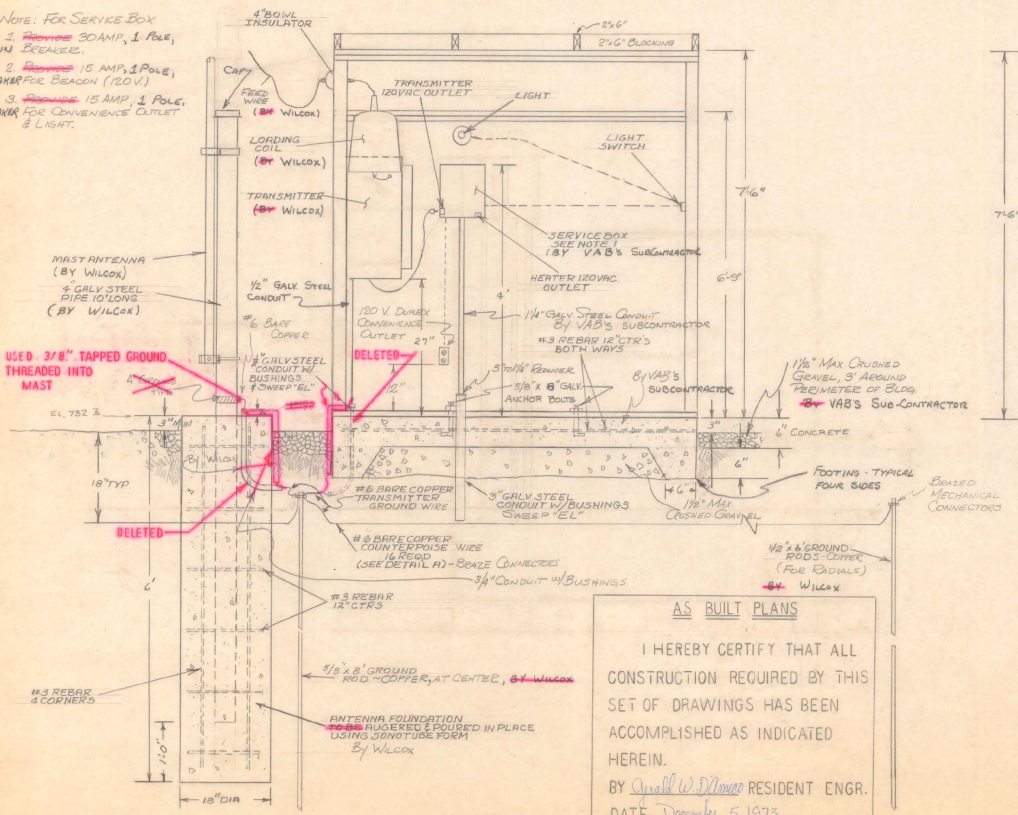
16 RADIALS #6 BARE SOLID COPPER WIRE, ~~BACKFILL~~ BOLTED TERMINATED TO 3/4"x8' GROUND ROD ~~BY~~ BRAZING & MECHANICAL CONNECTORS

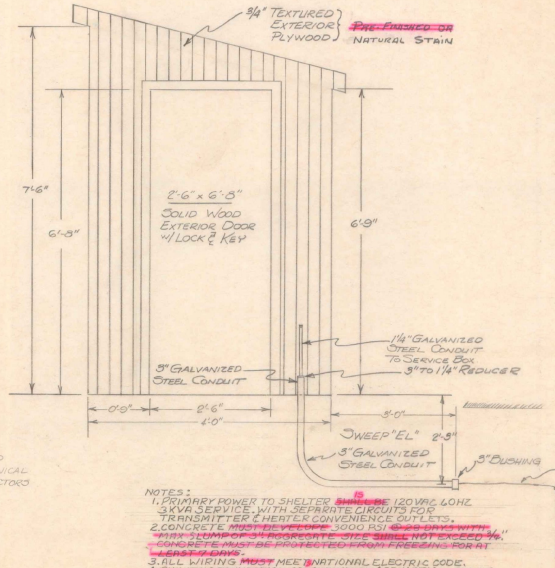


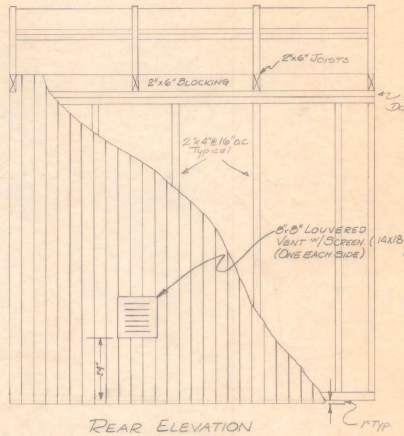
ROOF DETAIL

NOTE: FOR SERVICE BOX

1. ~~PROVIDE~~ 30 AMP, 1 POLE, MAIN BREAKER.
2. ~~PROVIDE~~ 15 AMP, 1 POLE, BREAKER FOR BEACON (120 V.)
3. ~~PROVIDE~~ 15 AMP, 1 POLE, BREAKER FOR CONVENIENCE OUTLET & LIGHT.







REAR ELEVATION

NOTES:

1. PRIMARY POWER TO SHELTER ~~SHALL BE~~ 120 VAC, 60HZ, 4 KVA SERVICE, WITH SEPARATE CIRCUITS FOR TRANSMITTER & HEATER CONVENIENCE OUTLETS.
2. CONCRETE ~~MUST BE DEVELOPED~~ 3000 PSI ~~@ 28 DAYS WITH MIN. SLUMP OF 3" & CONCRETE SHALL~~ NOT EXCEED 4". ~~CONCRETE MUST BE PROTECTED FROM FREEZING FOR AT LEAST 7 DAYS.~~
3. ALL WIRING ~~MUST~~ MEET NATIONAL ELECTRIC CODE.
4. BUILDING FOUNDATION, CONSTRUCTION & PRIMARY AC POWER ~~BY IS THE RESPONSIBILITY OF~~ V. A. B.
5. THE BUILDING ~~SHALL BE~~ ATTACHED TO CONCRETE FOUNDATION W/ 5/8" x 8" GALVANIZED ANCHOR BOLTS PLACED 24" O.C.
6. GRADE ~~SITE SO AS TO~~ DRAINS AWAY FROM SHELTER.
7. BUILDING ~~SHALL BE~~ MADE COMPLETELY WEATHERTITE. PROVIDE BLOCKING AS REQUIRED.
8. COUNTERPOISE SYSTEM GROUND NOT TO EXCEED 25 Ω.
9. ALL DIMENSION LUMBER ~~SHALL~~ KILN DRIED SPRUCE.
10. CLEARING & RESTORATION OF SURFACE BY VAB

AS BUILT PLANS

I HEREBY CERTIFY THAT ALL CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY Gerald W. D'Amico RESIDENT ENGR.

DATE December 5, 1973

NO SCALE

SITE LOCATION RUTLAND STATE AIRPORT
NORTH CLARENDON, VERMONT

ADAP PROJECT NO. 8-50-0015-02

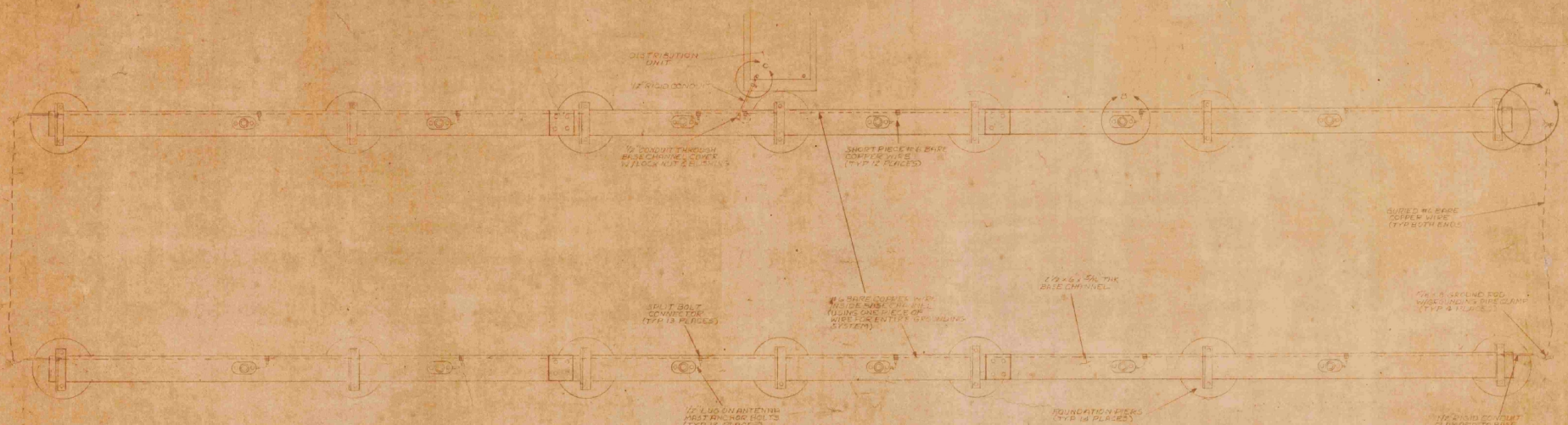
DRAWN BY	
DRAFTING APPROVAL	
E.E. APPROVAL	
M.E. APPROVAL	
COMP. APPROVAL	
CONF. MGMT.	
RAW MATL. P.N.	SCALE

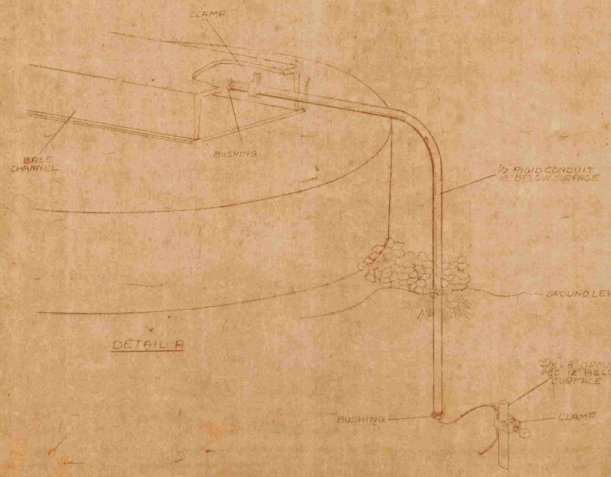
WILCOX ELECTRIC, INC. KANSAS CITY, MO.
A Subsidiary of Northrop Corporation
CODE IDENT NO. 65597

NDB FOUNDATION, COUNTERPOISE & POWER DETAILS

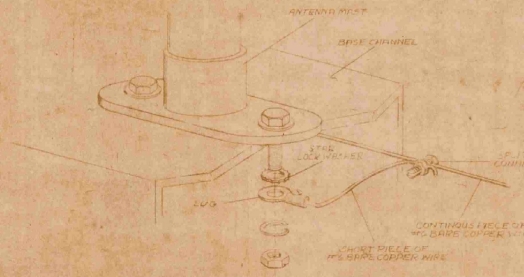
SIZE D | NUMBER 162-13-4 | REV.

SH 14 OF 15 SHEETS

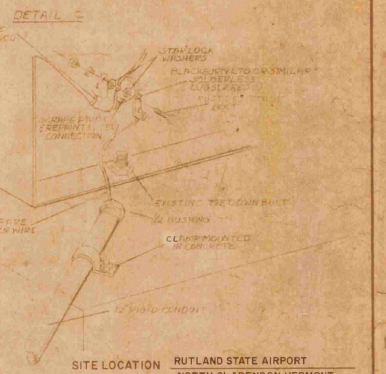




DETAIL A



DETAIL B



DETAIL C

AS BUILT PLANS
BY Orrell D. Cramer PROJECT ENGINEER
DATE 4/17/74

SITE LOCATION RUTLAND STATE AIRPORT
NORTH CLARENDON, VERMONT

ADAP PROJECT NO. 8-50-0015-02

WILCOX ELECTRIC, INC.
KANSAS CITY, MO.
A Subsidiary of Northrop Corporation
CODE IDENT NO. 05597

DRAWN BY	R.P. 2/73
DRAFTING APPROVAL	
E.E. APPROVAL	
M.E. APPROVAL	
QUAL. APPROVAL	
CONT. MGMT.	
NAV. MAN. P.M.	
SCALE	1

MODEL 1263 LOCALIZER ANTENNA
ARRAY GROUNDING DETAILS

SIZE D | NUMBER 162-14-4 | REV.

SH 15 OF 15 SHEETS