

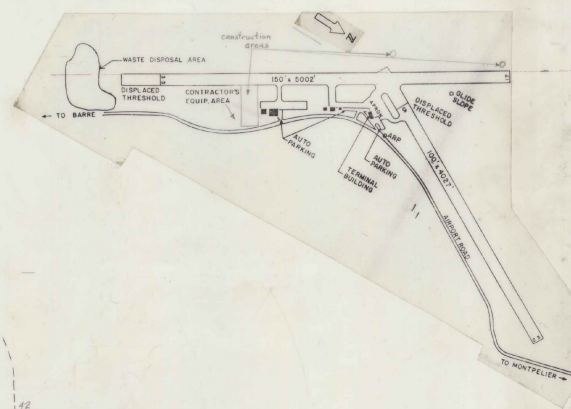
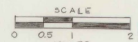
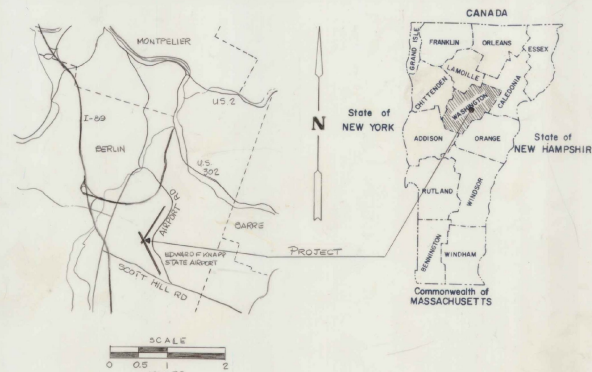
INDEX OF SHEETS	
SHEET NO	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SHEET
3	CONSTRUCTION DETAIL
4	QUANTITY, EARTHWORKS / DRAINAGE SHEET
5	PLAN & PROFILE SHEET
6-14	CROSS SECTION SHEETS
15	STANDARD A-D 12-15-51
16	STANDARD A-D 11-30-53R
17	STANDARD D-3 11-2-88
18	STANDARD D-4 10-20-85R
19	STANDARD D-6 4-3-73R
20	STANDARD D-8 12-6-71
21	STANDARD D-11 8-24-51E
22	STANDARD F-2 2-1-79R
23	STANDARD F-3 2-1-79R
24	STANDARD F-4 3-19-79R
25	STANDARD T-1 12-7-76R
26	STANDARD T-2 7-5-72

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT TOWN OF BERLIN COUNTY OF WASHINGTON EDWARD F. KNAPP STATE AIRPORT

CONSTRUCTION OF AN AIRCRAFT TIEDOWN APRON TO ACCOMMODATE TWELVE AIRCRAFT. TO INCLUDE TIEDOWN ANCHORS, SURFACE AND SUBSURFACE DRAINAGE, TAR EMULSION PROTECTIVE SEAL, CHAIN LINK FENCING, PAVEMENT MARKINGS AND A STUB TAXIWAY.



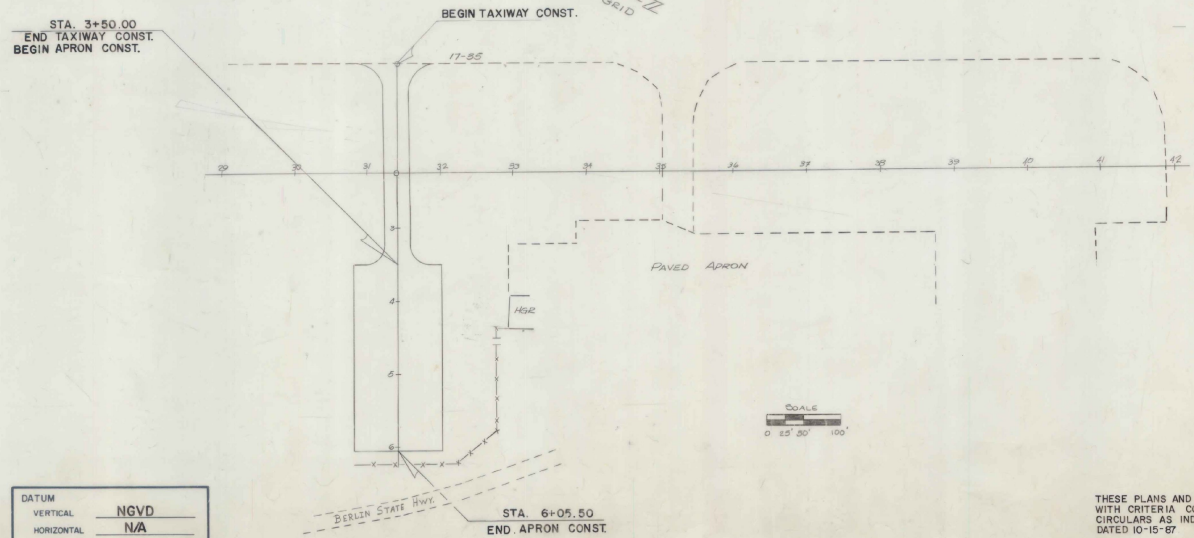
RECORD PLANS

CONTRACTOR: AUSTIN CONST. INC.
 COWDOR, VT.
 RESIDENT ENGINEER: RICHARD R. COMI
 CONSTRUCTION BEGAN: AUGUST 2, 1989
 CONSTRUCTION COMPLETED: OCTOBER 26, 1990
 RECORD PLANS BY: JOE YASHELA

I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.

By: Richard R. Comi Resident Engineer
 Date: 5-12-92

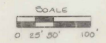
NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found on microfiche in Central Files.



CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	---
POINT OF ACCESS	X
FENCE LINE	---
STONE WALL	---
TRAVELED WAY	---
RAILROAD	---
SURVEY LINE	---
CULVERT	---
POWER POLE	⊕
TELEPHONE POLE	⊕
TREES	⊗
CONTROL OF ACCESS	///
PROPERTY LINE	---
R.O.W TAKING LINE	---
SLOPE RIGHTS	SR ⊕
TOP OF CUT	⊕
TOE OF SLOPE	⊕

DATUM	VERTICAL	NGVD
	HORIZONTAL	N/A



SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED: David W. Kelly DATE: 12/24/88
 DIRECTOR OF ENGINEERING AND CONSTRUCTION

DEPARTMENT OF TRANSPORTATION
 FEDERAL AVIATION ADMINISTRATION

APPROVED: _____ DATE: _____
 DIVISION ADMINISTRATOR

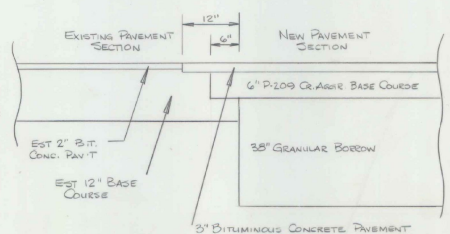
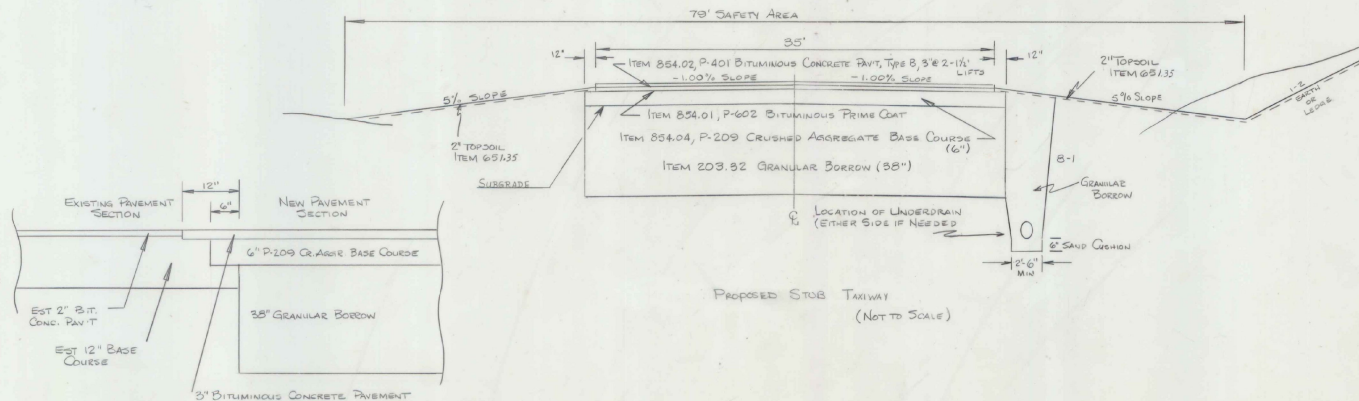
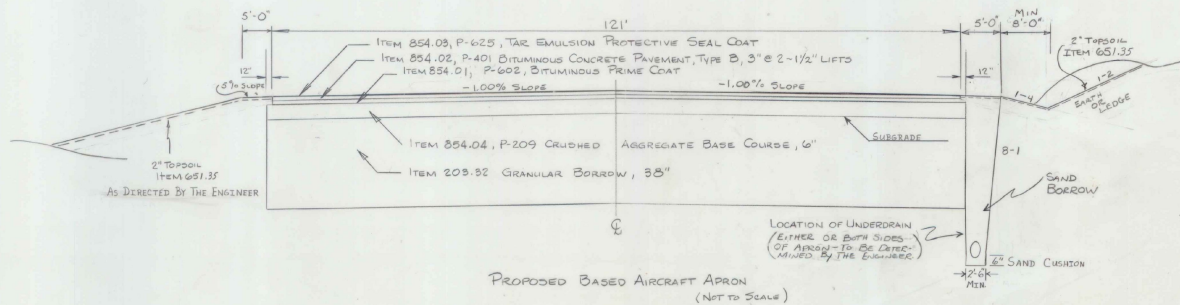
PROJECT: AIR No 03-2046

SHEET 1 OF 26 SHEETS

THESE PLANS AND SPECIFICATIONS ARE IN ACCORDANCE WITH CRITERIA CONTAINED IN CURRENT FAA ADVISORY CIRCULARS AS INDICATED IN AC CHECKLIST, AC 00-21 DATED 10-15-87.

TYPICAL SECTIONS

3" BITUMINOUS CONCRETE PAVEMENT, ITEM 854.02, P-401, TYPE "B", 2@1 1/2" LIFTS
 BITUMINOUS PRIME COAT, ITEM 854.01, P-602 (CUTBACK ASPHALT, MC-250)
 6" CRUSHED AGGREGATE BASE COURSE, ITEM 854.04, P-209 (GRADATION B)
 TAR EMULSION PROTECTIVE SEAL COAT, ITEM 854.03, P-625 (APRON ONLY)
 38" GRANULAR BORROW, ITEM 203.92



DATUM
 VERTICAL _____
 HORIZONTAL _____

VERTICAL SAW CUT EXISTING PAVEMENT SECTION 12" BACK
 AND PAINT SAW CUT WITH BIT. PRIME COAT. NO PAY ITEM
 BUTT SECTION DETAIL
 (NOT TO SCALE)

GENERAL NOTES

~~WAS~~ SEED, ITEM 651.15
~~TO BE~~ APPLIED AS DIRECTED BY THE ENGINEER.

% WT	LBS/ACRE	NAME	RUR %	GERM %
3.99	2	CROWN VETCH	97	75
50.00	30	CREEPING RED FESCUE	98	85
8.98	5	TIMOTHY	99	85
16.67	10	PERENNIAL RYE GRASS (VAR. PENNINE)	95	85
8.84	5	ALFALFA (VAR. SARANAC)	99	85
8.33	5	BIRDFOOT TREPLOL (VAR. EMPIRE)	98	85
5.00	5	HIGHLAND BENT GRASS	92	85
100.00	60 LBS/ACRE			

THE SEED MIXTURE ~~SHALL~~ NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS WEED SEED.

FERTILIZER, ITEM 651.18
 FORMULA 10-20-10 ~~TO BE~~ USED WITH SEED, ITEM 651.15, APPLIED AT THE RATE OF 500 LBS/ACRE

AGRICULTURAL LIMESTONE, ITEM 651.20
~~TO BE~~ APPLIED AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER.

HAY MULCH, ITEM 651.25
~~TO BE~~ PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE

TOPSOIL, ITEM 651.35
~~TO BE~~ USED WITH SEED, ITEM 651.15, AS DIRECTED BY THE ENGINEER.

ALLOWABLE THICKNESS TOLERANCES
 SUB-BASE ± 1"
 CONTROLLED MATERIAL ± 1"
 PAVEMENT ± 1/4"
 BASE COURSE ± 3/8"

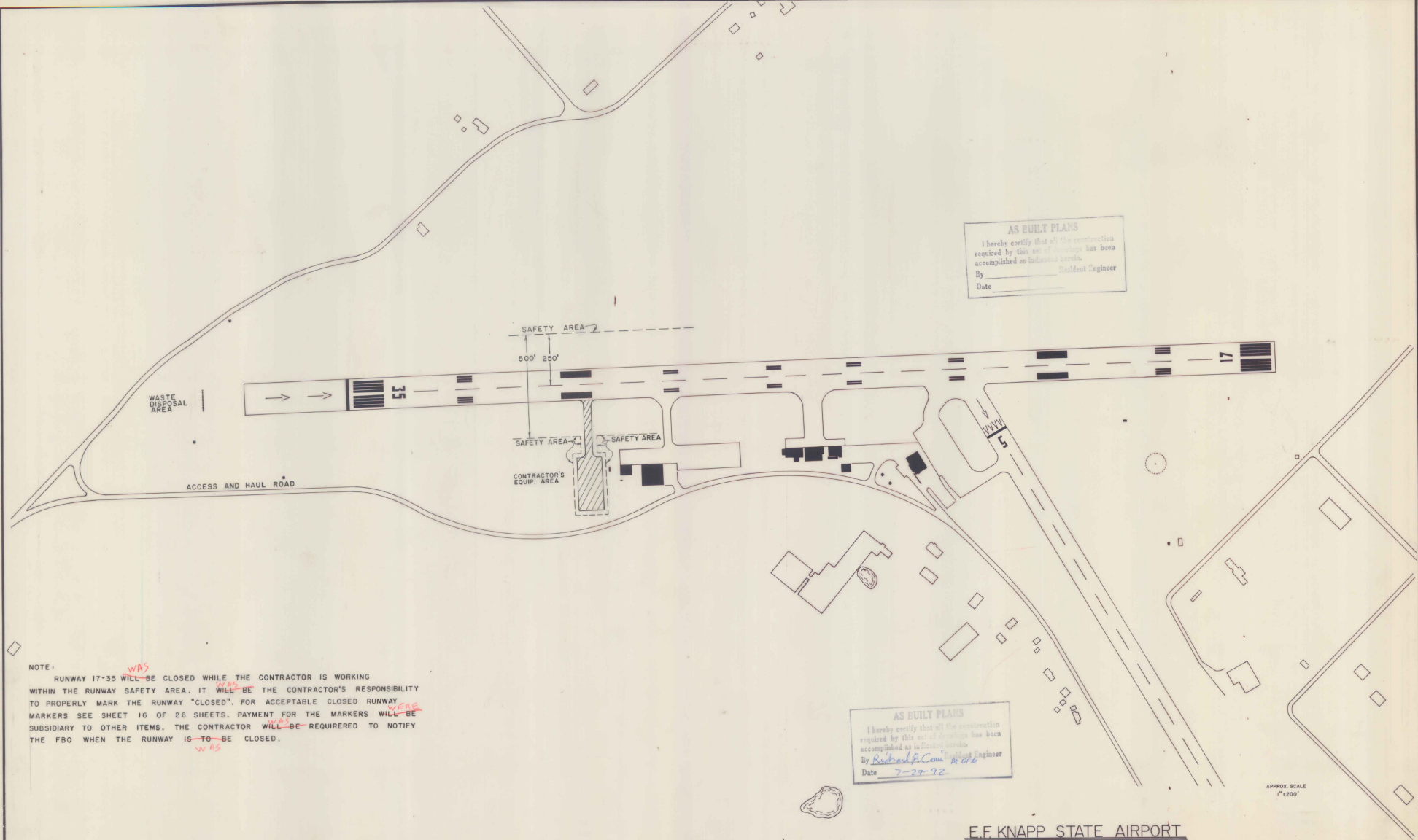
NOTES

- SUB-BASE UNDER AREAS ~~TO BE~~ PAVED ~~TO BE~~ COMPACTED TO 98% DENSITY AS PER FAA T-611 (AASHTO T-150).
- BITUMINOUS PRIME COAT ~~TO BE~~ APPLIED AS PER ITEM 404, SUBSECTION 404.06, TYPE I, FIRST APPLICATION USING MC-250.
- FOR UNDERDRAIN FLUSHING SLOPE DETAIL REFER TO STANDARD D-4 SHEET 16 OF 18 SHEETS.

AS BUILT PLANS
 I hereby certify that the construction required by this set of drawings has been accomplished as indicated herein.
 By _____ Resident Engineer
 Date _____

AS BUILT PLANS
 I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
 By Richard B. Conner Resident Engineer
 Date 7-29-97

SURVEYED BY _____ DATE _____
 DRAWN BY KERR DATE 1-85
 TRACED BY _____ DATE _____
 E.F. KNAPP AIRPORT
 PROJ. AIR NO. 03-2046
 SHEET 2 OF 26



AS BUILT PLANS
 I hereby certify that all the construction
 required by this set of drawings has been
 accomplished as indicated herein.
 By _____ Resident Engineer
 Date _____

AS BUILT PLANS
 I hereby certify that all the construction
 required by this set of drawings has been
 accomplished as indicated herein.
 By *Richard P. Cunniff* Resident Engineer
 Date *7-29-92*

NOTE:
 RUNWAY 17-35 ^{WAS} WILL BE CLOSED WHILE THE CONTRACTOR IS WORKING
 WITHIN THE RUNWAY SAFETY AREA. IT ^{WILL} BE THE CONTRACTOR'S RESPONSIBILITY
 TO PROPERLY MARK THE RUNWAY "CLOSED". FOR ACCEPTABLE CLOSED RUNWAY
 MARKERS SEE SHEET 16 OF 26 SHEETS. PAYMENT FOR THE MARKERS WILL BE ^{MADE}
 SUBSIDIARY TO OTHER ITEMS. THE CONTRACTOR WILL BE REQUIRED TO NOTIFY ^{THE}
 THE FBO WHEN THE RUNWAY IS ^{TO} BE CLOSED. _{WAS}

APPROX SCALE
 1"=200'

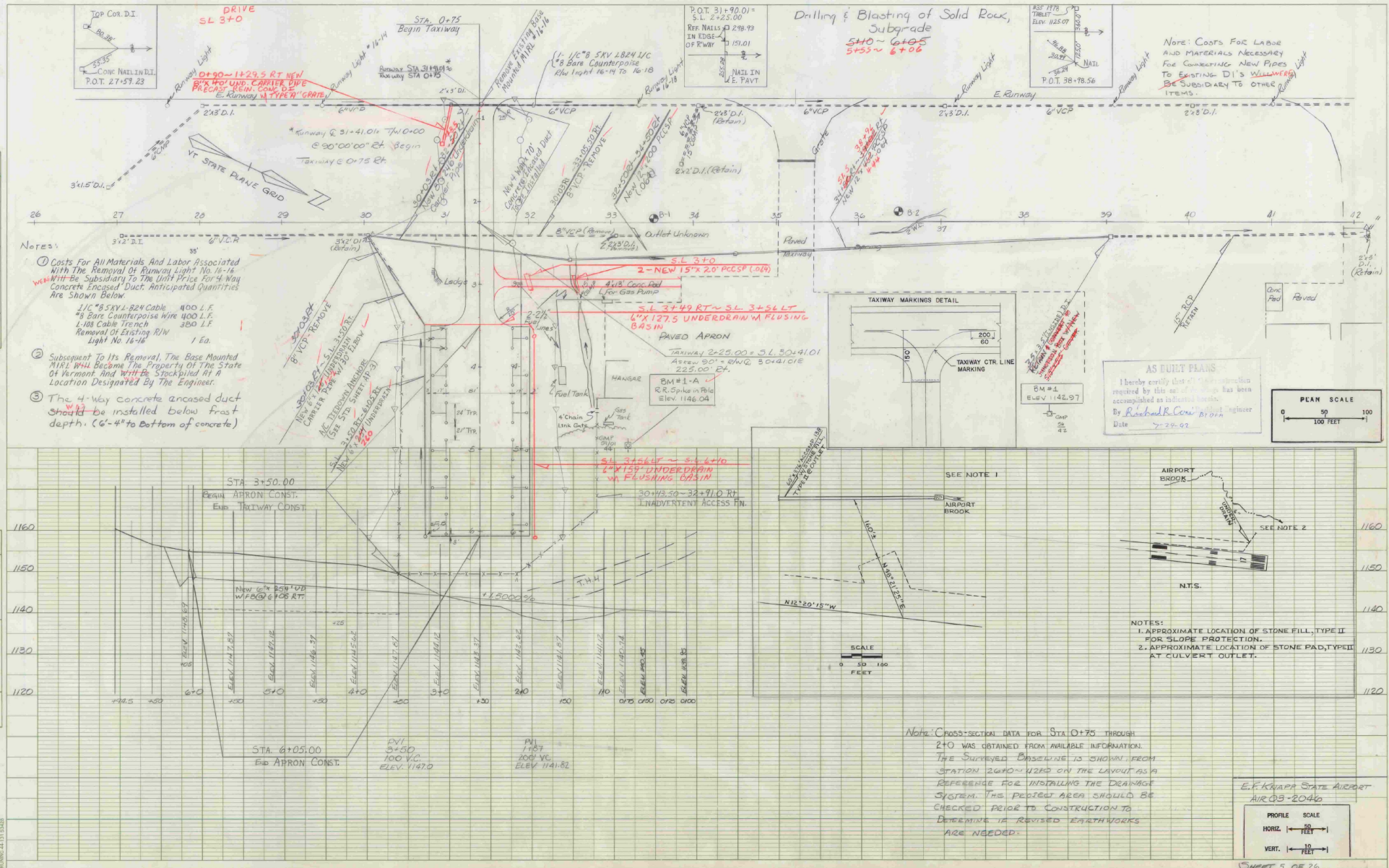
E.F. KNAPP STATE AIRPORT

PROJECT AIR NO 03-2046
 SHEET 3 OF 26 SHEETS

BASE MAP TRACED FROM 1963 AERIAL PHOTOGRAPH

DATE	
BY	
REVISIONS	
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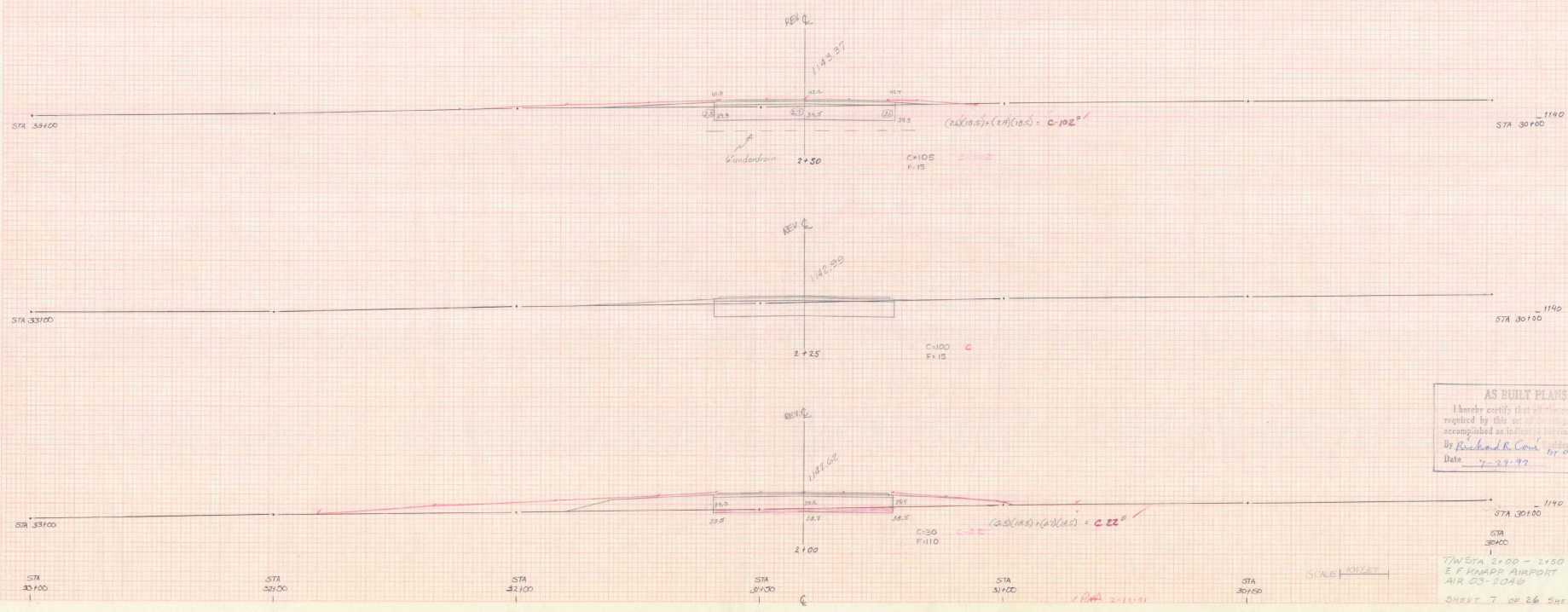
- Notes:
- Costs For All Materials And Labor Associated With The Removal Of Runway Light No. 16-14 Will Be Subsidiary To The Unit Price For 4-Way Concrete Encased Duct. Anticipated Quantities Are Shown Below.
 - 1/2" 8 SXVJ-224 Cable 400 L.F.
 - 8 Bare Counterpoise Wire 400 L.F.
 - 1-108 Cable Trench 300 L.F.
 - Removal of Existing R/W 1 Ea.
 - Light No. 16-14
 - Subsequent To Its Removal, The Base Mounted Nail Will Become The Property Of The State Of Vermont And Will Be Stockpiled At A Location Designated By The Engineer.
 - The 4-way concrete encased duct should be installed below frost depth. (6"-8" to bottom of concrete)

AS BUILT PLANS
 I hereby certify that all the operations required by this set of drawings has been accomplished as indicated on the same.
 By *Richard B. Coe*, Registered Engineer
 Date 7-29-92

E.F. KRAPP STATE AIRPORT
 AIR 03-2040
 PROFILE SCALE
 HORIZ. 1" = 50 FEET
 VERT. 1" = 10 FEET
 SHEET 5 OF 26

DATE	BY	CHECKED	APPROVED

DATE	BY	CHECKED	APPROVED



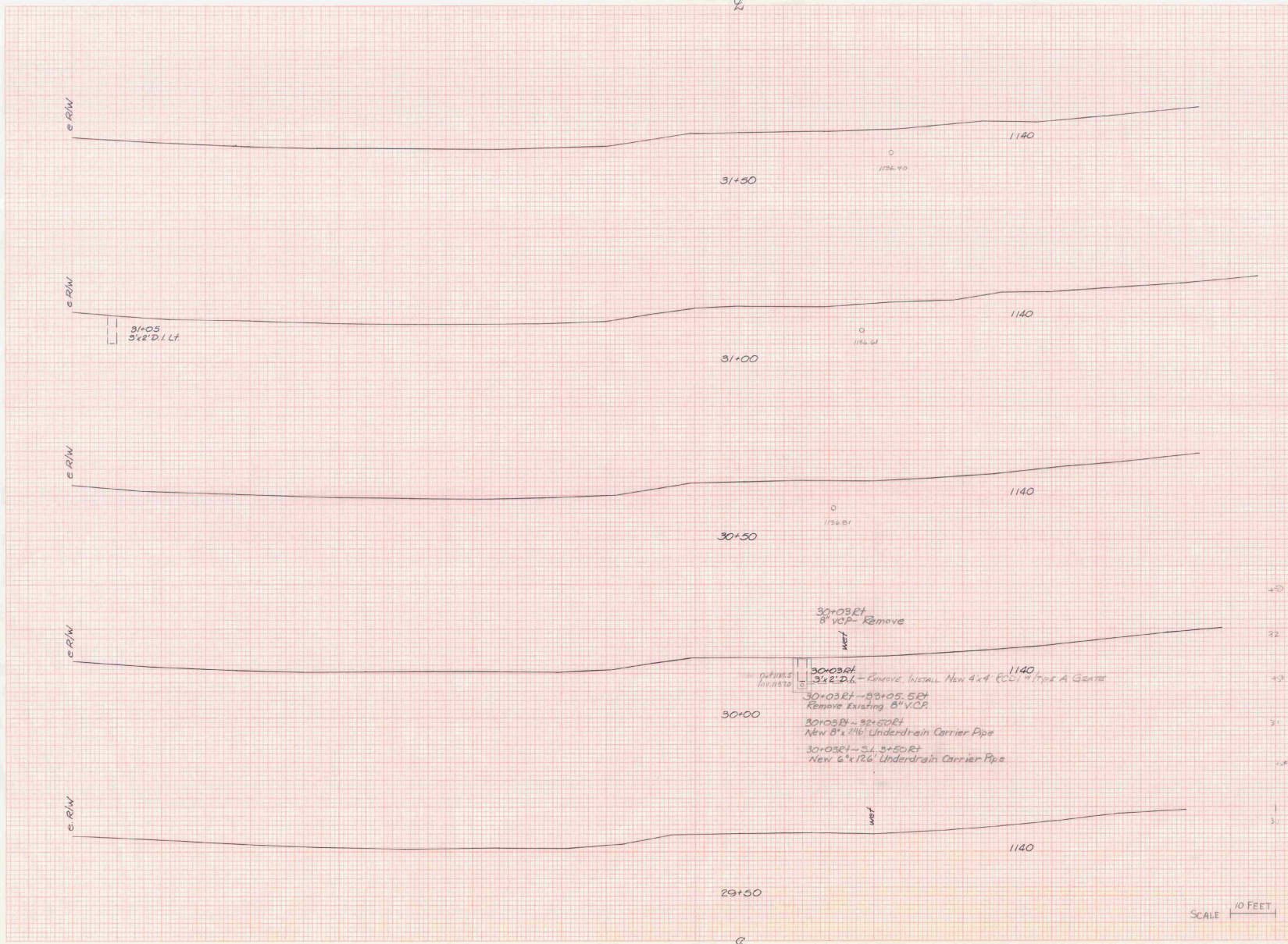
AS BUILT PLANS
 I hereby certify that all the construction
 required by this set of drawings has been
 accomplished as indicated herein.
 By Richard R. Coon Resident Engineer
 Date 7-29-99 *RFM*

SCALE 1"=10 FEET

TW STA 2+00 - 2+50
 E F FORDS AIRPORT
 AIR 03-2048
 SHEET 7 OF 26 SHEETS

DATE	NO.	BY	REVISION

DATE	NO.	BY	REVISION



30+03Et
8" VCP - Remove

30+03Et
5'x2' D.I.L. - Remove. Install New 4'x4' RCW Type A Grate

30+03Et - 30+05.5Et
Remove Existing 8" VCP

30+03Et - 30+50Et
New 8" x 12' Underdrain Carrier Pipe

30+03Et - 31+50Et
New 6" x 12' Underdrain Carrier Pipe

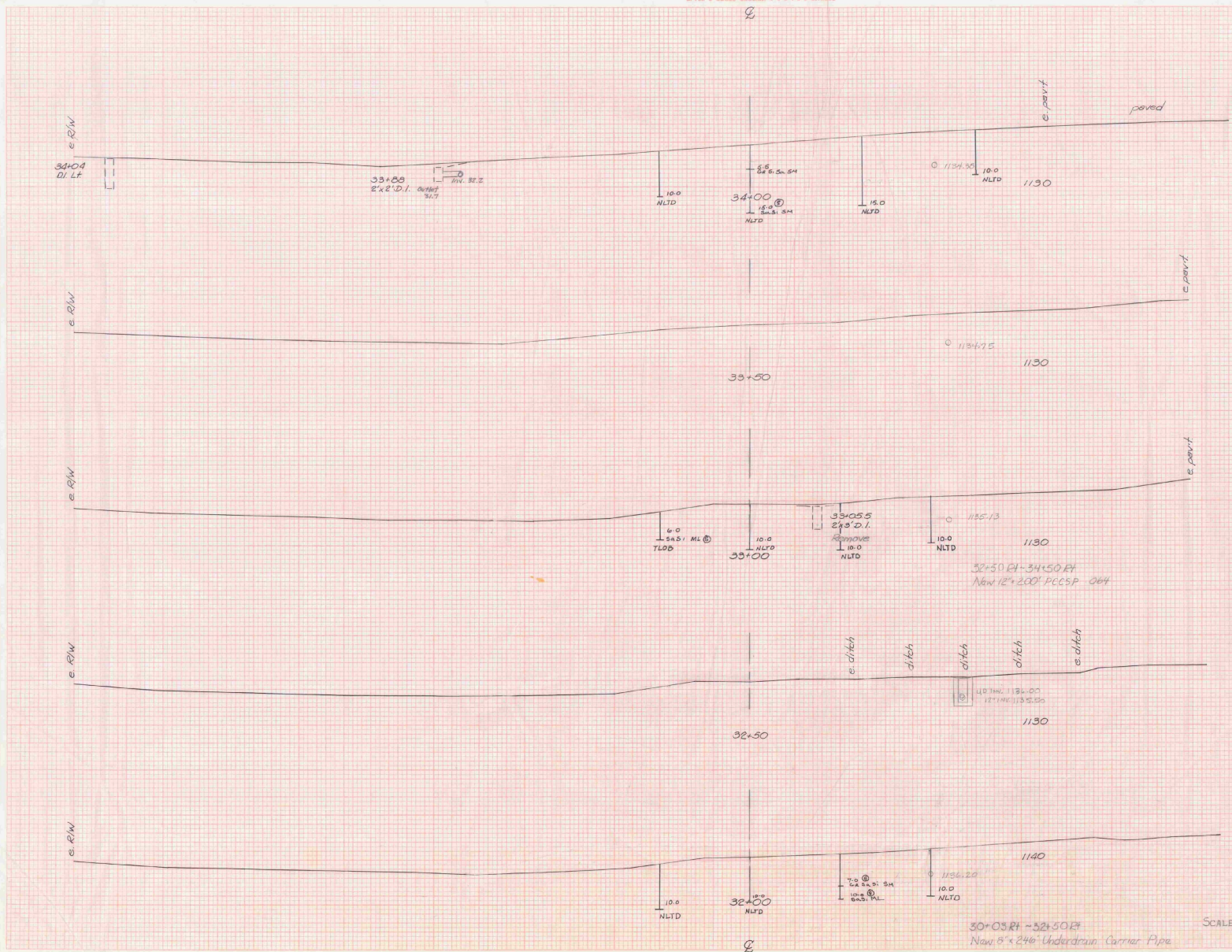
I hereby certify that the work shown on this plan
required by this project has been
accomplished as shown on this plan
By Richard R. Conner, P.E.
Date 7-24-97

T/W STA 29+50-31+50
E F KNAPP AIRPORT
AIR 03-2046
SURVEYED BY FALL 12/04
SHEET 10 OF 26 SHEETS

SCALE 1" = 10 FEET

NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION



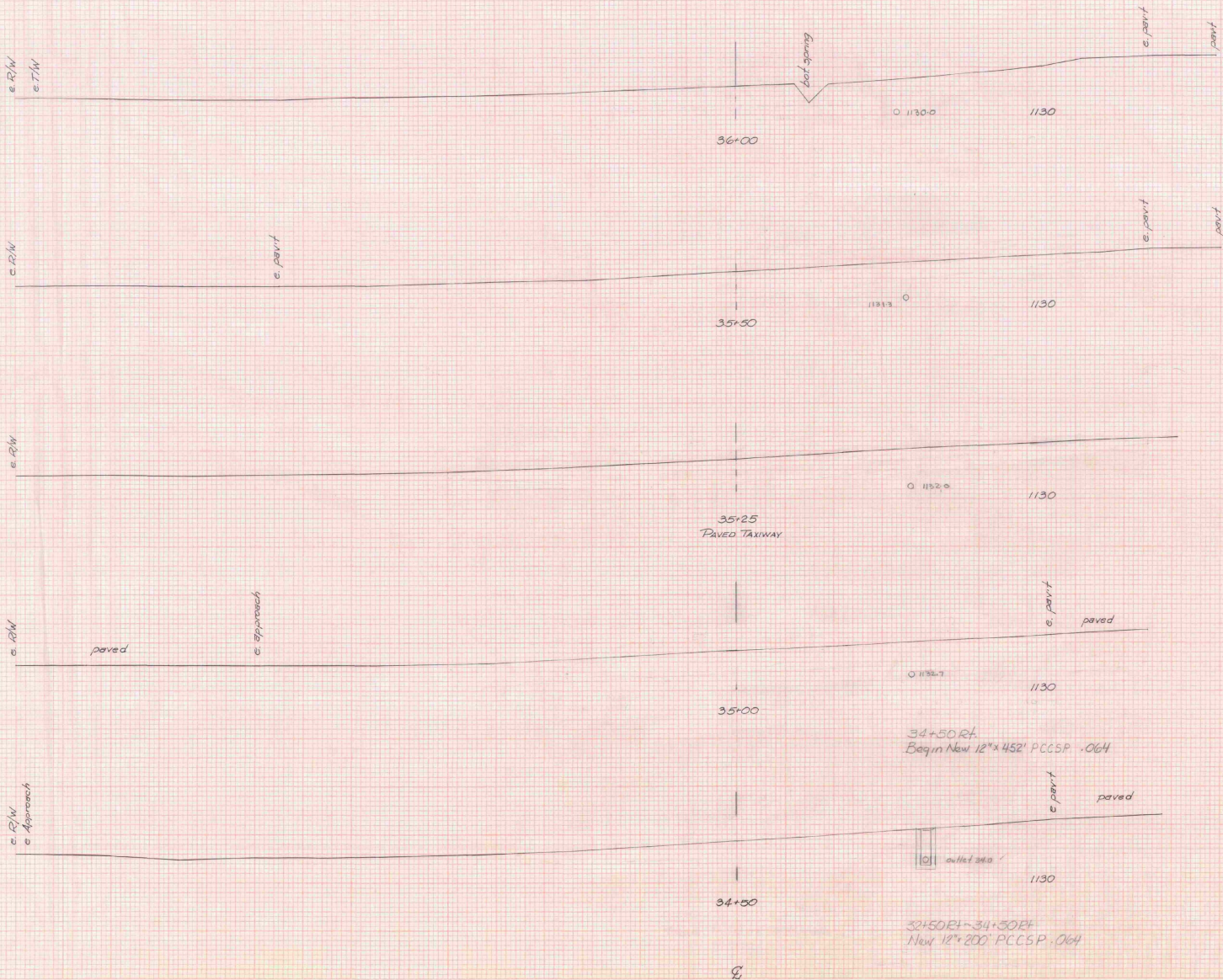
AS BUILT PLANS
 I hereby certify that the information
 required by this act has been
 accomplished as required.
 By Richard H. Conner
 Date 7-29-73

SCALE 10 FEET

30+05 RT - 52+50 RT
 New 8' x 24' Underdrain Carrier Pipe

TWO STA 32+00 - 34+00
 E F KNAPP AIRPORT
 AIR 03-2046
 SURVEYED BY FALL 12/84
 SHEET 11 OF 24 SHEETS

DESIGNED AND DRAWN BY
 CHECKED BY
 DATE



AS NOTED
 THIS DRAWING IS THE PROPERTY OF
 THE ENGINEER AND SHOULD NOT BE
 REPRODUCED OR COPIED IN ANY MANNER
 WITHOUT HIS WRITTEN CONSENT
 BY Richard C. Case
 DATE 7-25-57

SCALE 1" = 10 FEET

T/W STA 34+50-36+00
 E F KNAPP AIRPORT
 AIR 03-2046
 SURVEYED BY FALL 12/54
 SHEET 1 OF 26 SHEETS

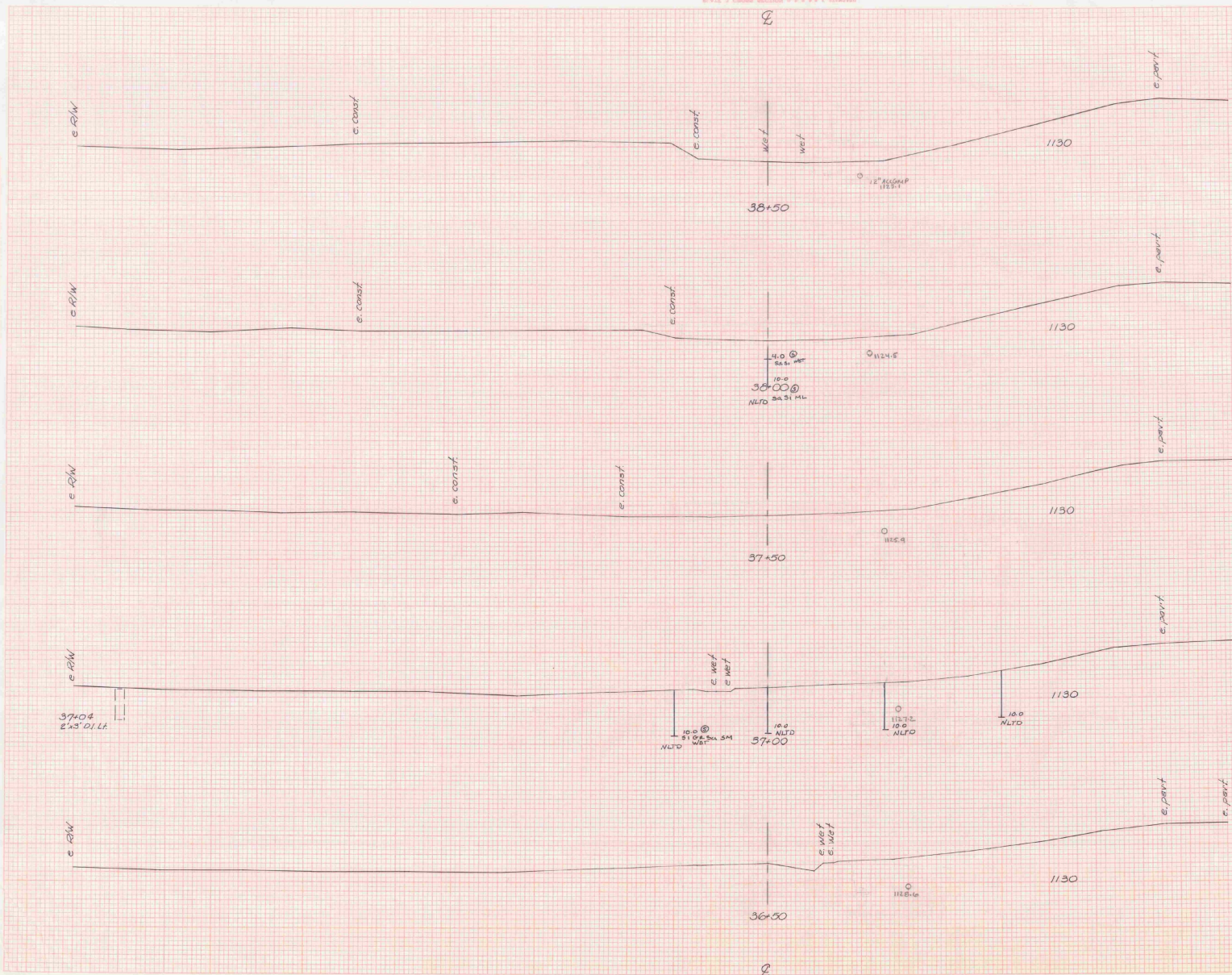
dl

APPROVED
 DATE
 BY

APPROVED
 DATE
 BY

DATE	
BY	
CHECKED	
SCALE	
PROJECT	
SHEET NO.	

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BY	
CHECKED	
SCALE	
PROJECT	
SHEET NO.	



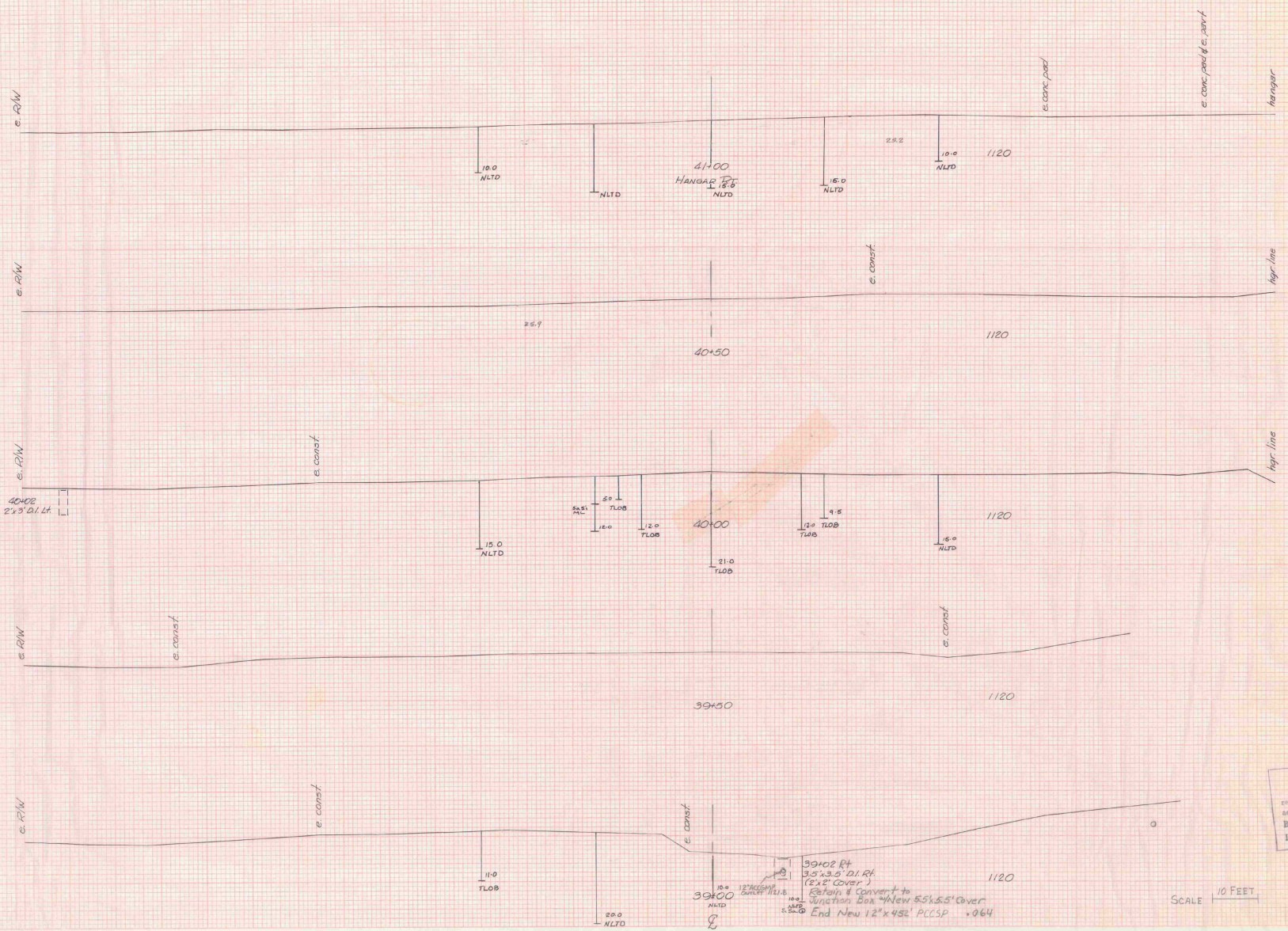
AS BUILT PLANS
 I hereby certify that the construction
 required by this set of plans has been
 accomplished as indicated thereon.
 By Richard R. Coon Surveyor
 Date 7-27-74

SCALE 10 FEET

TIN STA 36+50-38+50
 E F KNAPP AIRPORT
 AIR 03-2046
 SURVEYED BY FALL 12/84
 SHEET 13 OF 13 SHEETS

26

UNIVERSITY MICROFILMS
SERIALS ACQUISITION
300 N ZEEB RD
ANN ARBOR MI 48106



NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

AS BUILT PLANS
 I hereby certify that the work shown on these plans was
 completed on 12/18/84
 By Richard R. Cowie 182 077
 Date 12/27/84

SCALE 1" = 10 FEET

T/W STA 39+00-41+00
 E.F. HARRIS AIRPORT
 AIA 03-2046
 SURVEYED BY FALL 12/84
 SHEET 14 OF 26 SHEETS

**STATE OF VERMONT
AGENCY OF TRANSPORTATION
TABLE OF PROJECT PROPERTY ACQUISITION**

**STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT OF WAY PLANS
DETAIL SHEET**

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS	REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY	
4C	SEE PREVIOUS SHEET FOR PARCEL 4B	8	32+95 RT. 32+94 RT. 32+95 RT. 33+80 RT. 34+80 RT. 34+98 RT.	35+60 RT. 35+40 RT. 36+16 RT. 35+20 RT. 34+98 RT.	0.10 A±		CONST. (T) 0.05A± REMOVE & RESET (T) SLOPE (T) 0.02A± DITCH & DRAINAGE (P) CULVERT (P)						2000 S.F. ± STOCKADE FENCE 1010 S.F. ±	13	8	PARCEL NO. 5 STATE OF VERMONT. CHANGE OFFSET DISTANCES ON PARCEL 5B AS FOLLOWS: 36+16 28' LT. AND 36+16 24' LT. PER C.O. 8467.	12-22-93	M. J. R.	L. W. B.	
4D		6, 8	19+20 RT. 21+03 RT.	24+91 LT. 22+50 RT.	2.275A±		ALL R. T. & I. SLOPE (T) 0.01A±						HIGHWAY EASEMENT US7 640 S.F. ±							
4E		8	24+25 RT. 24+92 RT. 25+25 RT. 28+50 RT.	36+16 RT. 26+30 RT. 25+78 RT.	2.015A±		ALL R. T. & I. CONST. (T) 0.03A± SLOPE (T) 0.01A± DITCH (P)						HIGHWAY EASEMENT US 7 2415 S.F. 1150 S.F.							
5A	STATE OF VERMONT - LESSOR VERMONT RAILWAY, INC. - LESSEE	6, 8	23+17 RT. 25+30 RT. 27+89 LT. 29+50 LT. 31+92 LT. 32+00 LT. 32+44 LT.	29+00 LT. 35+00 LT. 28+05 LT.			CROSSING EASEMENT (P) SLOPE (P) 0.31A± CUL., DIT. & DR. (P) CUL., DIT. & DR. (P) CUL., DIT. & DR. (P) CUL., DIT. & DR. (P) DRIVE (T)						12' GRAVEL M.P. 0488							
5B		8	32+45 LT. 34+50 LT.	36+16 RT. 34+57 LT.	0.19A±		ALL R. T. & I. CUL., DIT. & DR. (P)						HIGHWAY EASEMENT US 7							
6A	TOWN OF WALLINGFORD	7	T.H. 13 0+95 CL.	T.H. 13 4+00 CL.			APPROACH (T)						WALDO LANE							
6B		8	32+77 RT.				APPROACH (T)						T.H. 6B							
7	CENTRAL VERMONT PUBLIC SERVICE CORP.												UTILITY							
8	G. T. E. OF VERMONT												UTILITY							
9	NEW ENGLAND TELEPHONE COMPANY												UTILITY							
10	ADELPHIA CABLE OF RUTLAND												UTILITY							
	MAINTENANCE AGREEMENT NO. 1	6, 7	T.H. 13 0+12 CL.	T.H. 13 1+50 CL.									138'							

01.3701.3 200 1805 84E036

DR. (P)- DRAINAGE RIGHT
DIT. (P)- DITCHING RIGHT
CH. (P)- CHANNEL RT.
DRIVE (T)- DRIVE RIGHT
CUL. (P)- CULVERT RIGHT
[W]- WATER SOURCES

PRESENT R.O.W.
TAKING WITHOUT ACCESS
TAKING WITHOUT ACCESS ALONG PROPERTY LINE
TAKING WITH ACCESS
PERMANENT EASEMENT
TEMPORARY EASEMENT

LEGEND . . . C2 (P) CLEAR ZONE
--- CONST. (T) --- CONSTRUCTION EASEMENT
--- SR --- SLOPE RIGHTS
--- P --- PROPERTY LINE
--- L --- TOP OF CUT
--- O --- TOE OF SLOPE

REVISED 12-22-93

R. O. W. PLANS

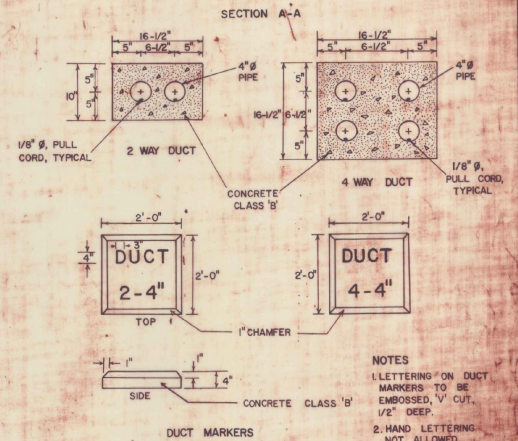
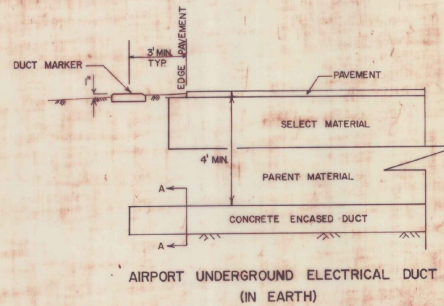
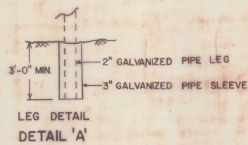
APPROVED: LAWRENCE BLISS, L.S. DATE: 02-25-93.
AGENT O. PLANS & TITLES

WALLINGFORD
BRS 0137(13)
SHEET 5 OF 9

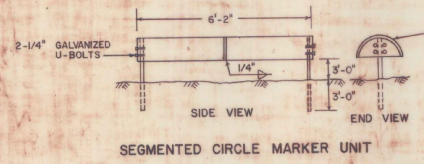
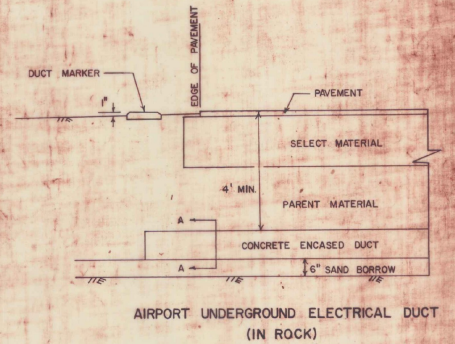
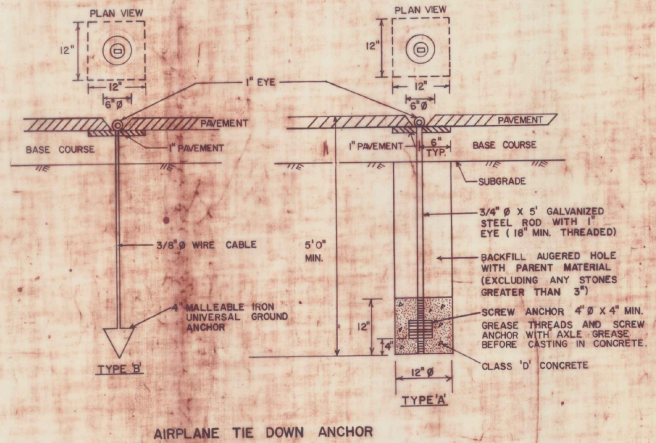
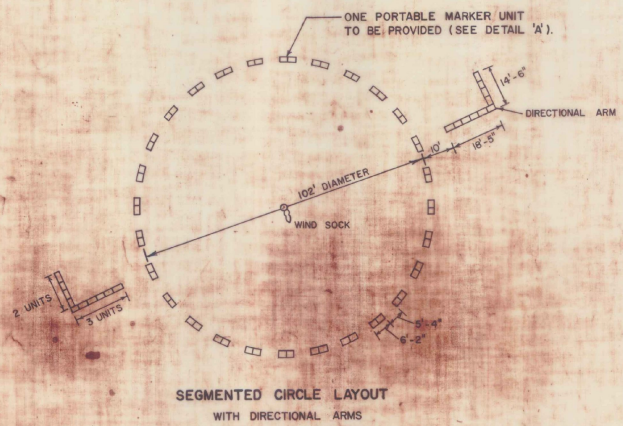
ACCT. PROP
/prop/84e036/r/e036d.dgn
DATE PLOTTED 22-DEC-1993
84e036d2.1

NOTES

1. THE LOCATION OF THE PORTABLE MARKER UNIT SHALL BE AS ORDERED BY THE ENGINEER.
2. DIRECTIONAL ARMS ARE INSTALLED ONLY ON AIRPORTS WITH A NON-STANDARD TRAFFIC PATTERN (RIGHT-HAND PATTERN). WHEN INSTALLED, DIRECTIONAL ARMS WILL BE MAGNETICALLY ORIENTED TO THE RUNWAY AND WILL SHOW TRAFFIC PATTERN ON EACH RUNWAY.



- NOTES**
1. LETTERING ON DUCT MARKERS TO BE EMBOSSED, V CUT, 1/2" DEEP.
 2. HAND LETTERING NOT ALLOWED.



PORTABLE UNIT HAS LEGS OF 2" Ø GALVANIZED PIPE.
STATIONARY UNITS HAVE LEGS OF 2" Ø GALVANIZED PIPE OR 1-1/2" X 3/8" L (GALV).

REVISIONS AND CORRECTIONS

APPROVED: _____ DATE: DEC. 15, 1981

DIR. OF ENGINEERING AND CONSTRUCTION

CHIEF OF DESIGN

SURVEY AND PLANS ENGINEER

**SEGMENTED CIRCLE
DIRECTIONAL ARMS
AIRPLANE TIE DOWN ANCHORS
AIRPORT UNDERGROUND ELECTRICAL DUCT**



**STANDARD
AP-3**

STA	Dist	Area	Vol
0+75	Butt	145	
1+00	25	48	98.6
1+50	50	3	45.2
2+00	50	22	23.1
2+50	50	102	114.8
3+00	50	373	439.3
3+50	50	1043	1311.1
3+50	50	1043	2619.6
4+00	50	1535	2888.0
4+50	50	1535	3001.9
5+00	50	1658	3134.3
5+50	50	1771	3267.6
6+00	Butt	2123	

comp by 1366's 17266.11 cys 0+75-6+00 72.84'

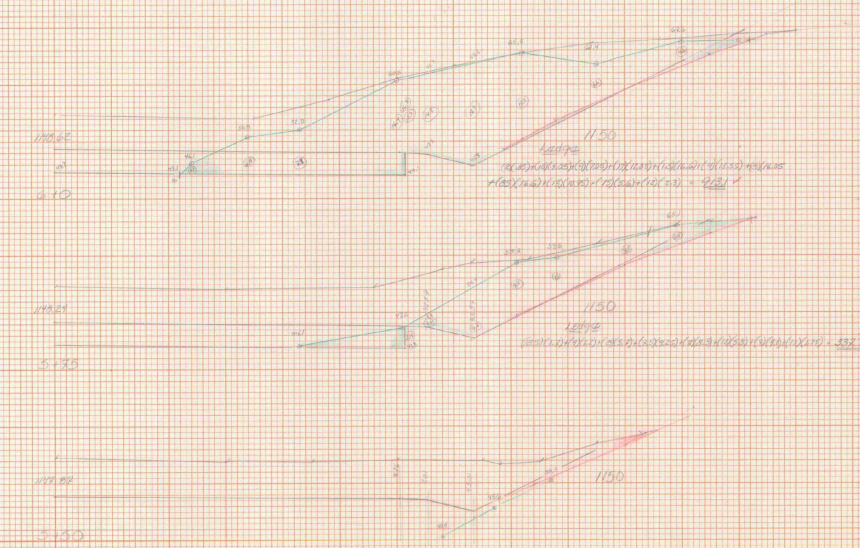
200' 210'

width of original point (500)

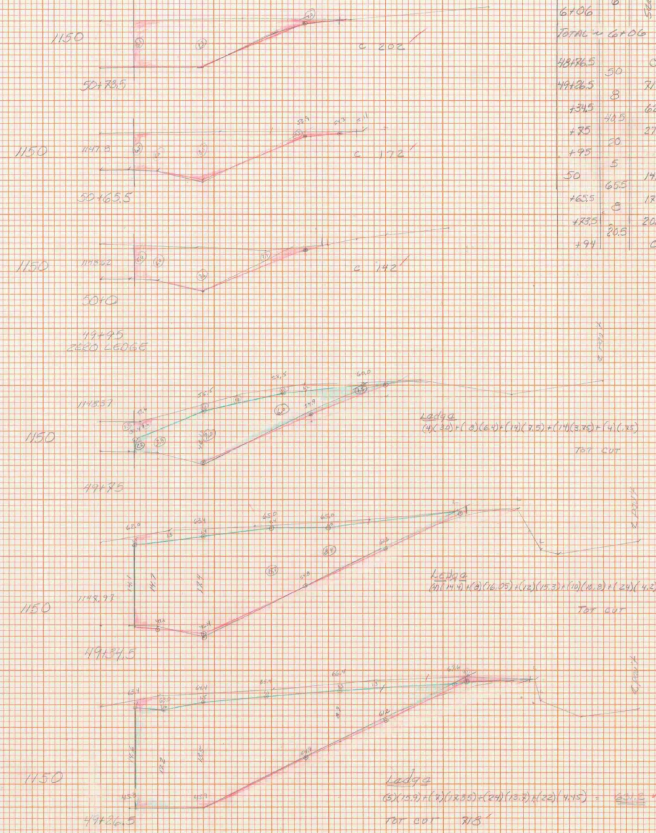
1150

width (Butt)

sections to this left use set p on elevation see loc 2 pg 56



5044
200' Common ELEV



STA	Dist	Total Area	Gravel Vol	LEADGE AREA	LEADGE VOL	Net Area	Net Vol
5+50				0			
5+50	25			538.8	16.8		
5+50	50			98.1	578.1		
6+00	6			0.6	24.4		
6+00	6			0.6	77.8		
FORM = 6706							
4848.5	50	0	665	0	284.5		5'
4848.5	25	378	179	632	172		20'
4848.5	25	627	558	627	621.6		14'
4848.5	10	276	227	227	227		11'
4848.5	5	192	151	151	151		50'
4848.5	0	120	55	55	55		33'
4848.5	0	202	77	77	77		17'
4848.5	0	2748	1000	1000	1000		500'

1366 2-26-91

AS BUILT FILE
I hereby certify that the above is a true and correct copy of the original file as submitted to the Department of Transportation.
By: *[Signature]*
Date: 2-26-91

Checked & Approved
AKK 08-20-96
Lance Jackson
Supt. - Bridge
Checked & Approved
Brent M. Gino
Supt. - District

1990

Berlin (E.F. Knapp Airport

Air 03 - 2046

1990