

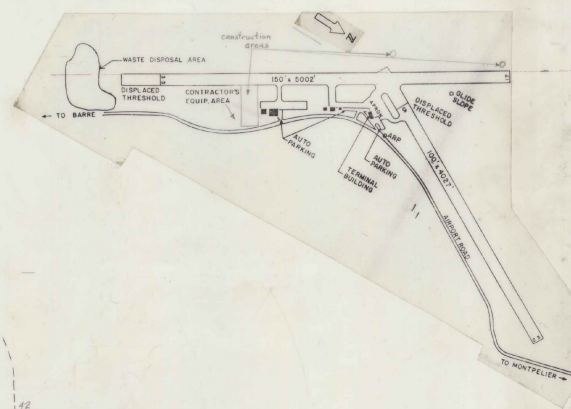
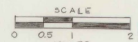
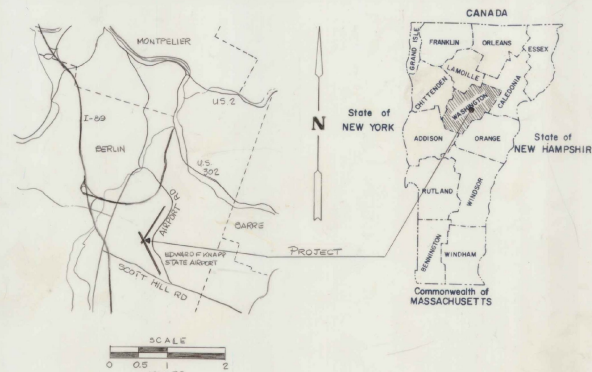
INDEX OF SHEETS	
SHEET NO	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SHEET
3	CONSTRUCTION DETAIL
4	QUANTITY, EARTHWORKS / DRAINAGE SHEET
5	PLAN & PROFILE SHEET
6-14	CROSS SECTION SHEETS
15	STANDARD A-D 12-15-51
16	STANDARD A-D 11-30-53R
17	STANDARD D-3 11-2-88
18	STANDARD D-4 10-20-85R
19	STANDARD D-6 4-3-73R
20	STANDARD D-8 12-6-71
21	STANDARD D-11 8-24-81E
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.



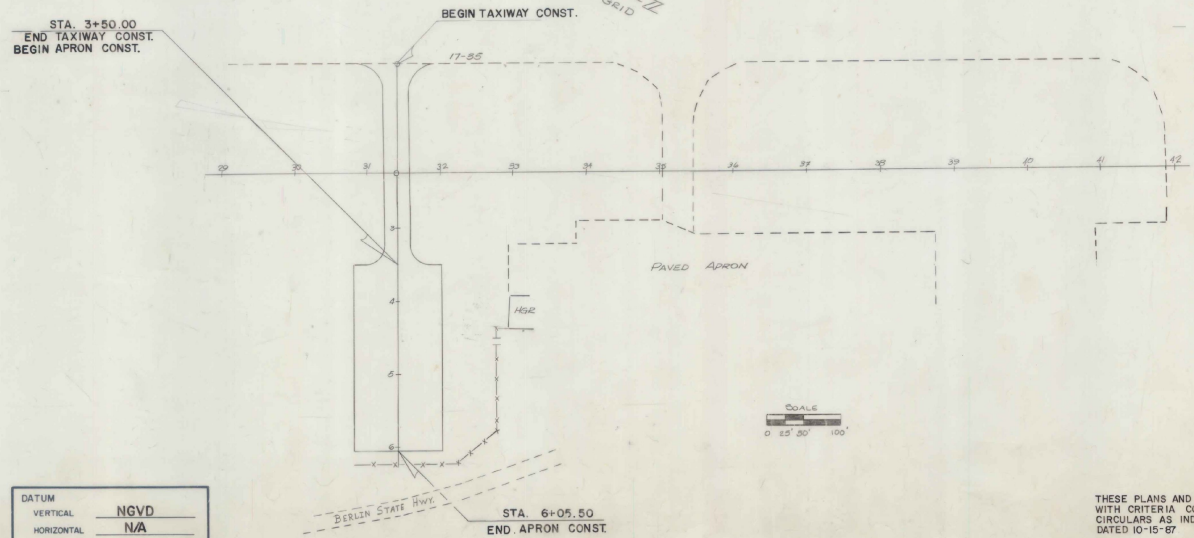
RECORD PLANS

CONTRACTOR: AUSTIN CONST. INC.
 CORWY, VT.
 RESIDENT ENGINEER: RICHARD R. COMI
 CONSTRUCTION BEGAN: AUGUST 8, 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.

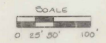
By: Richard R. Comi Resident Engineer
 Date: 5-12-92

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

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

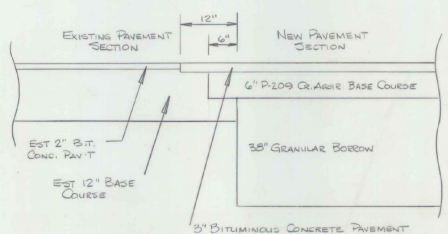
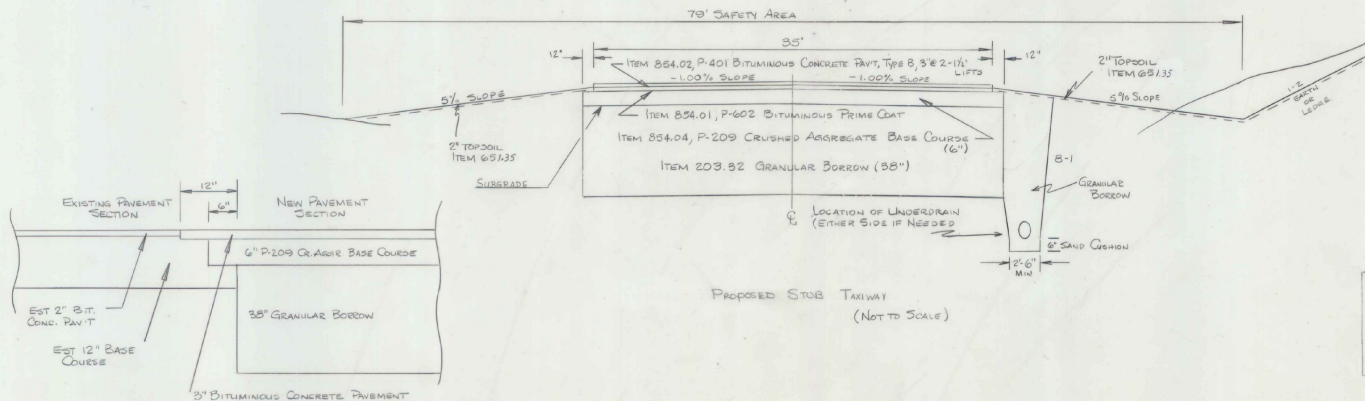
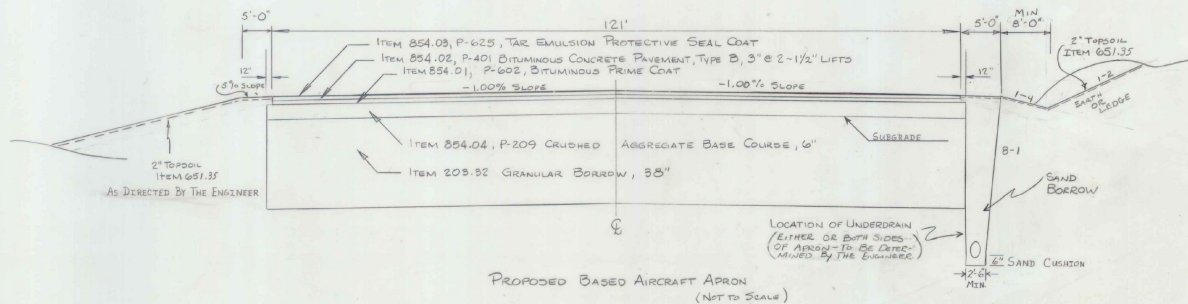
PROJECT: AIR No 03-2046

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)
 35" 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
8.94	5	ALFALFA (VAR. SARANAC)	99	85
8.98	5	BIRDFOOT TREPLOL (VAR. EMPIRE)	98	85
5.00	5	HIGHLAND BENT GRASS	92	85

100.00 60LBS/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

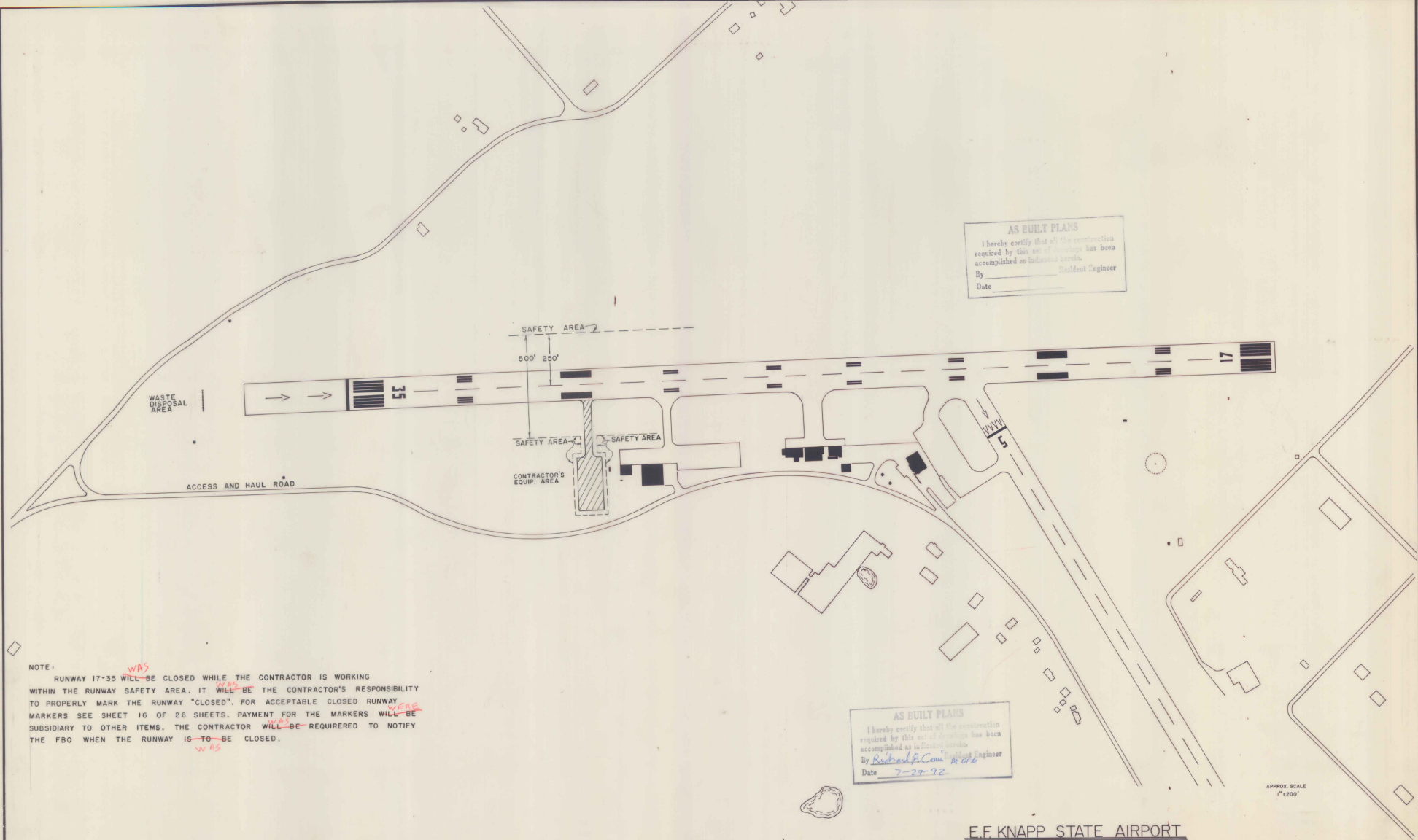
SURVEYED BY _____ DATE _____
 DRAWN BY KERR DATE 1-85
 TRACED BY _____ DATE _____
 EFKNAPP AIRPORT
 PROJ. AIR NO. 03-2046
 SHEET 2 OF 26

QUANTITY, EARTHWORKS, DRAINAGE AND ITEM DETAIL SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES								DETAILED SUMMARY OF QUANTITIES								GRADES AND EARTHWORK								EARTHWORK SUMMARY				UNDERDRAIN AND CARRIER PIPE										
EROSION CONTROL	BRIDGE	ROADWAY	GRAND TOTAL	UNIT	PAY ITEM	PAY ITEM NUMBER	%	QUANTITY	UNIT	PAY ITEM	V.C. CORR.	DIST. (FT.)	ELEVATION ON TANGENT	ELEVATION ON CURVE	VERT. CURR.	AREA (SF)	VOL. (CY)	AREA (SF)	VOL. (CY)	AREA (SF)	VOL. (CY)	AREA (SF)	VOL. (CY)	STATION TO STATION	TYPE	POST	D	L	ITEM	EXCAVATION	CONCRETE	REINFORC.	POSTS	REMARKS				
			16730	CF	Common Excavation	203.15	7																															
			2400	CY	Solid Rock Excavation	203.16	15																															
			5450	CY	Granular Borrow	203.32	24																															
			4850	SY	Fine Grading-Subgrade	203.40	11																															
			1270	CF	Trench Excav. of Earth	204.30	3																															
			70	CY	Trench Excav. of Rock (EST)	204.31																																
			550	SY	Drilling & Blasting of Solid Rock Subgrade	206.70	8																															
			37	CY	Concrete Class "B"	207.23	10																															
			670	EA	Reinforcing Steel	207.15	5																															
			652	LF	12" RCSP (24x)	201.0405																																
			24	LF	15" RCSP (24x)	201.0402																																
			3	EA	Cast Iron Gate Valve, Type A	204.405																																
			514	LF	12" Underdrain	205.10																																
			184	LF	6" Underdrain Carrier Pipe	205.20																																
			246	LF	8" Underdrain Carrier Pipe	205.21																																
			2	EA	Underdrain Flushing Basin	205.30																																
			10	HR	All Purpose Expander Rods, Type II	205.25																																
			10	HR	Truck Repair (EST)	205.57																																
			50	HR	Dust Control with Water (EST)	206.20																																
			755	LF	Chain Link Fence, 6'	207.12																																
			1	LS	Walk Gate for Chain Link Fence, 6'	207.16																																
			1	LS	Walk Gate	207.17																																
			55	EA	Soil	207.18	5																															
			450	EA	Fertilizer	207.18	4																															
			2	EA	Agricultural Limestone	207.20	5																															
			2	EA	Hay Muck	207.20	5																															
			270	CY	Topsoil	207.25	3																															
			100	SY	Erosion Matting (Est)	207.30	11																															
			1820	SA	P-602 Bituminous Prime Coat	207.01	7																															
			770	SA	P-405 Bituminous Concrete Pavement	207.02	11																															
			440	SA	P-605 Tar Application Protective Seal Coat	207.03	4																															
			780	CF	P-209 Crushed Aggregate Base Course	207.04	1																															
			1	LS	P-620 Runway 4" to Runway Paving	207.05	-																															
			70	LF	4-10 4 Ways 4" Dia U.S. Elect. Duct	207.06	-																															
			30	EA	Airport Tie-down Anchors, Type A	207.07	-																															
			12	EA	Bracing Assembly for Chain Link Fence	207.11																																
			* 80	CY	Stone Fill Type II	207.11	147																															
			100	SY	GEOTEXTILE FABRIC FOR SILT FENCE	249.20	EST																															

DRAINAGE STRUCTURES															GUARD RAIL, STEEL BEAM WITH POSTS										TYPE OF CONSTRUCTION										
STATION	POS/ASKEW	TYPE	IN/OUT	DITCH	RCP	PCCSP	OPTION	PIPES	MES	DI	CONC	REINFC	DI	CHM	TRENCH	EST	FLL	INCL	REMARKS	STATION TO STATION	P	S	MEASURED LENGTH (FT. & IN.)	POST SPACING (FT. & IN.)	ANCHORS	REMARKS	STATIONS	PAVEMENT WIDTHS	EQUATIONS	REMARKS					
39102	04	RCD													15.5	4				Remove 8" W.P. Remove RCD Remove 8" W.P. No. 4000 Install 12" W.P. 12" RCD. Pave															
39102	04	RCD													2.6	2.31	A	152																	
39102	04	RCD													2.5	200	A	174	0																
39102	04	RCD													1.0	98																			



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. Conroy* 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} ~~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 ^{WERE} ~~WILL~~ BE
 SUBSIDIARY TO OTHER ITEMS. THE CONTRACTOR ^{WAS} ~~WILL~~ BE REQUIRED TO NOTIFY
 THE FBO WHEN THE RUNWAY IS ^{TO} ~~TO~~ BE CLOSED.

APPROX SCALE
 1"=200'

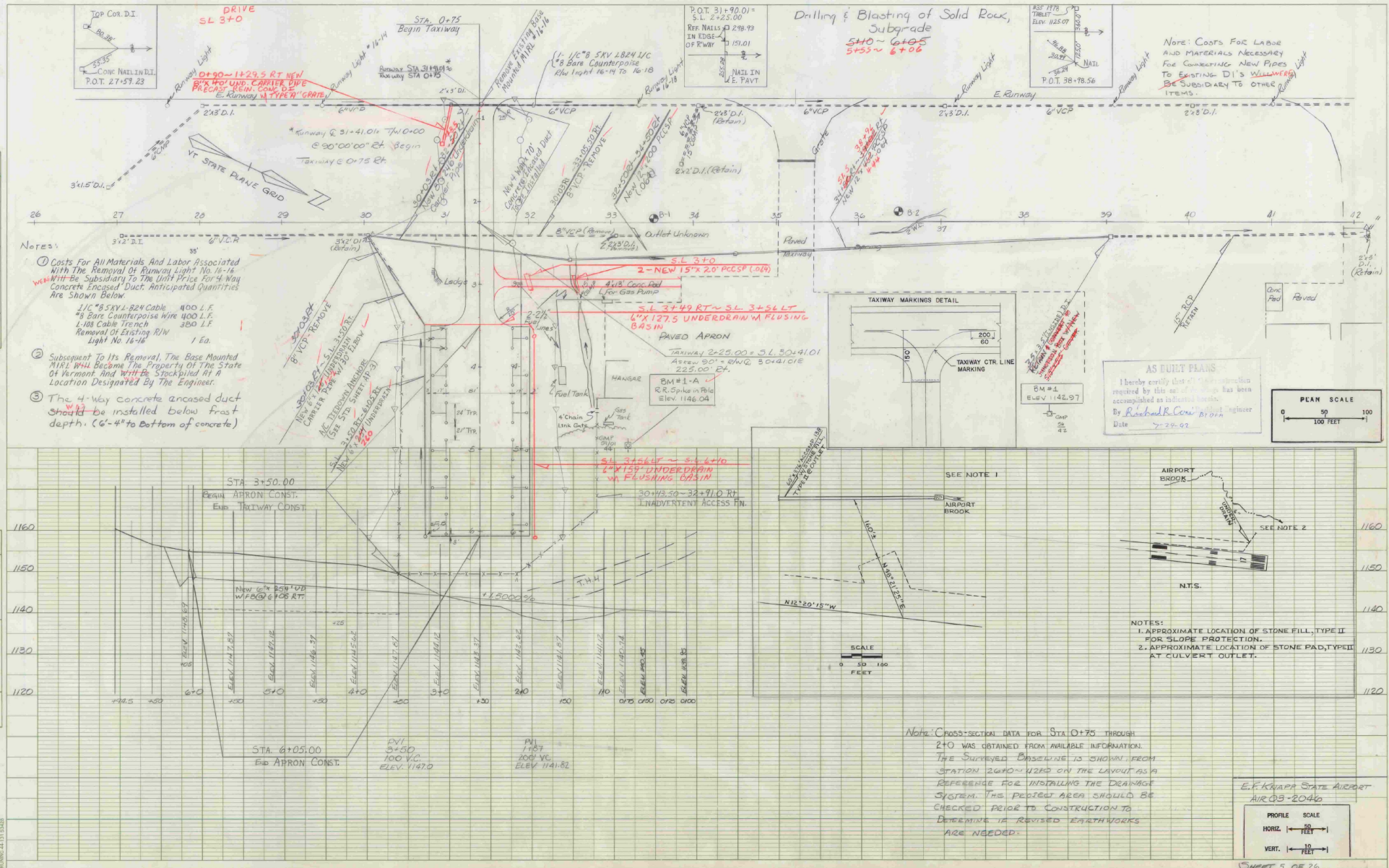
E.F. KNAPP STATE AIRPORT

PROJECT AIR NO 03-2046
 SHEET 3 OF 26 SHEETS

BASE MAP TRACED FROM 1983 AERIAL PHOTOGRAPH

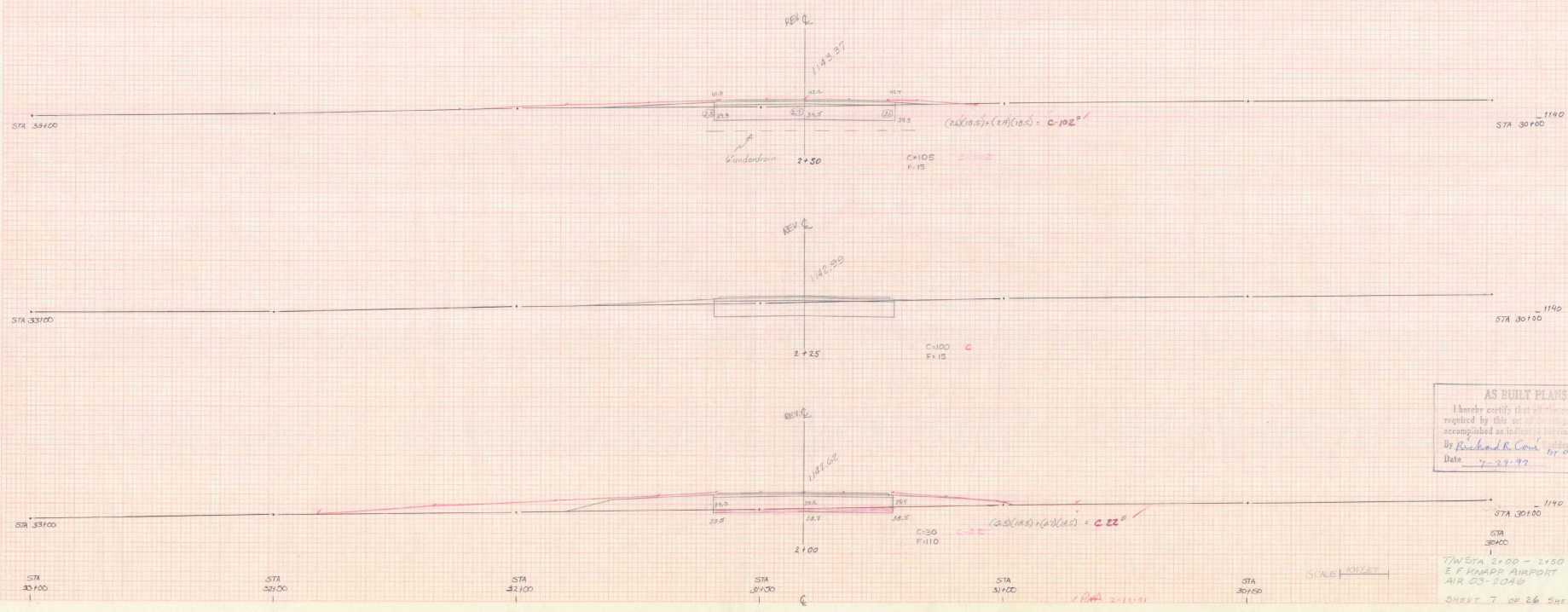
DATE		
BY		
REVISIONS		
NO.	DATE	DESCRIPTION
1		REVISED CHECKED
2		BY
3		DATE
4		BY
5		DATE
6		BY
7		DATE
8		BY
9		DATE
10		BY

DATE		
BY		
REVISIONS		
NO.	DATE	DESCRIPTION
1		REVISED CHECKED
2		BY
3		DATE
4		BY
5		DATE
6		BY
7		DATE
8		BY
9		DATE
10		BY



DATE	BY	CHECKED	APPROVED

DATE	BY	CHECKED	APPROVED

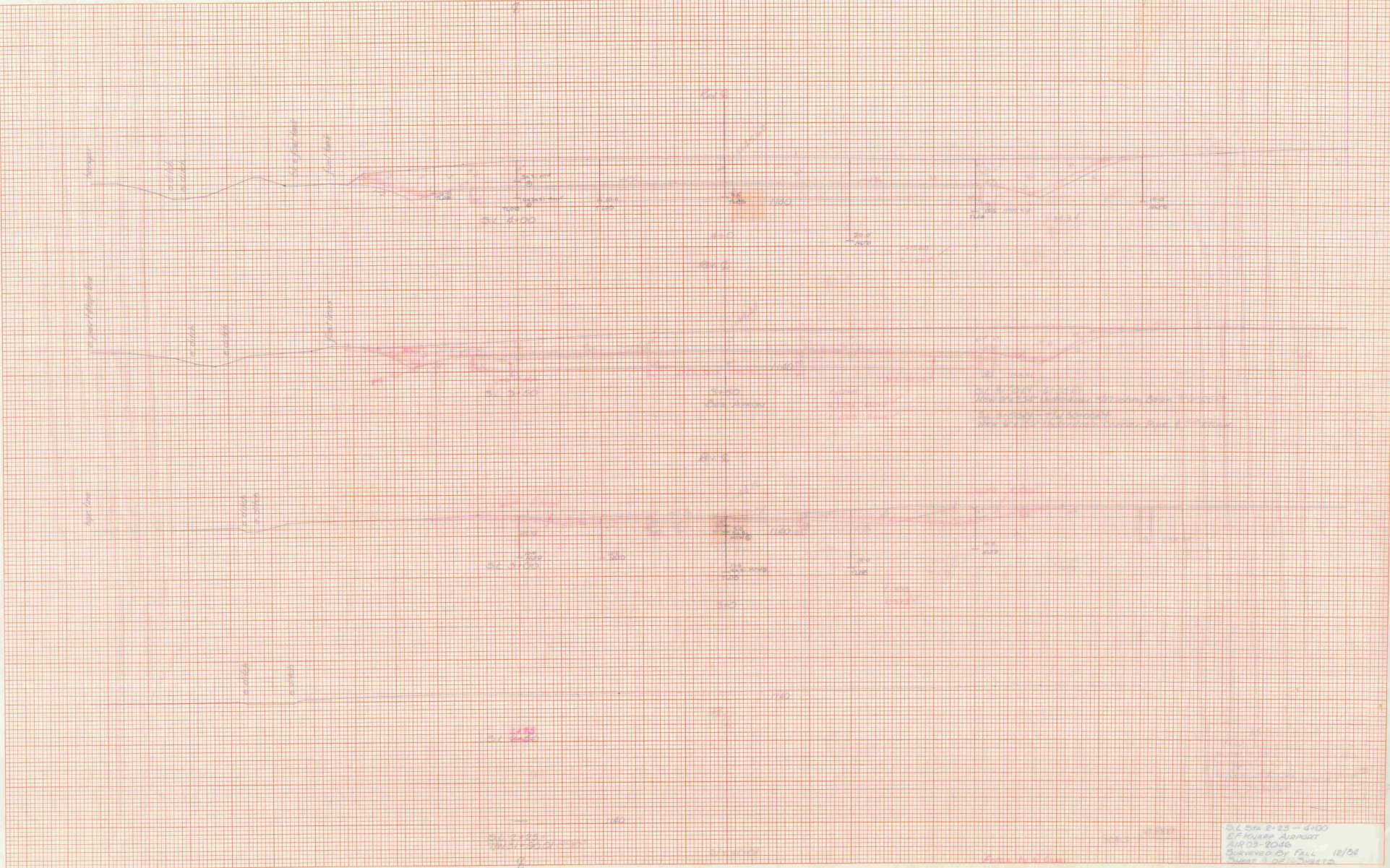


AS BUILT PLANS
 I hereby certify that all the construction
 required by this set of drawings has been
 accomplished as indicated herein.
 By Richard R. Coon Resident Engineer
 Date 7-29-99 RFM

SCALE 10 FEET
 THIS STA 2+00 - 2+50
 E F FORDS AIRPORT
 AIR 03-3048
 SHEET 7 OF 26 SHEETS

DATE	NO.	BY	CHKD.

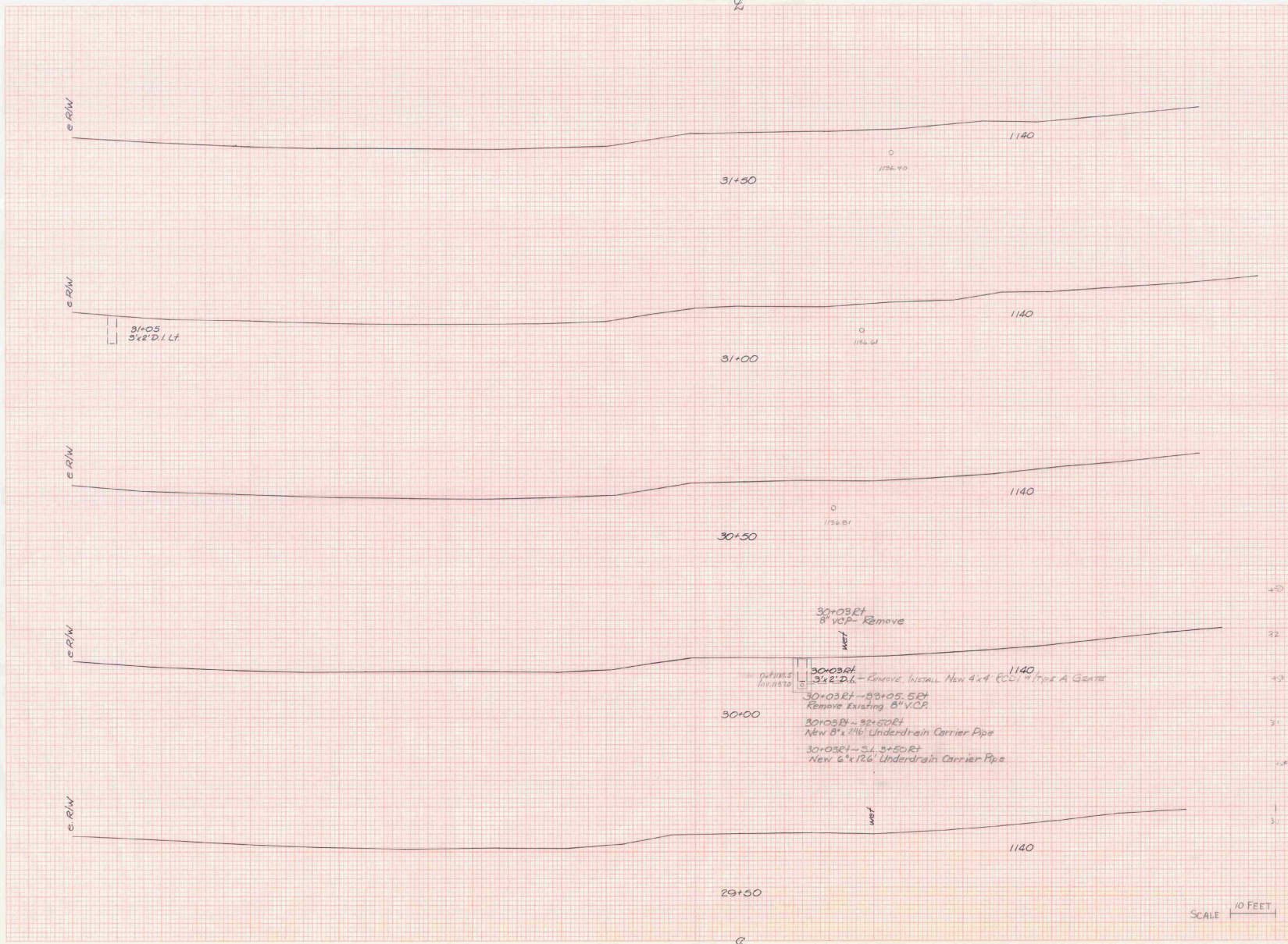
DATE	NO.	BY	CHKD.



S.L. ON E. 25 - 400
E.F. HARRIS AVENUE
AUG 03 - 2006
SURVEYED BY FALL 10/04
SHEET 1 OF 1

DATE	PROJECT	SCALE	BY

DATE	PROJECT	SCALE	BY



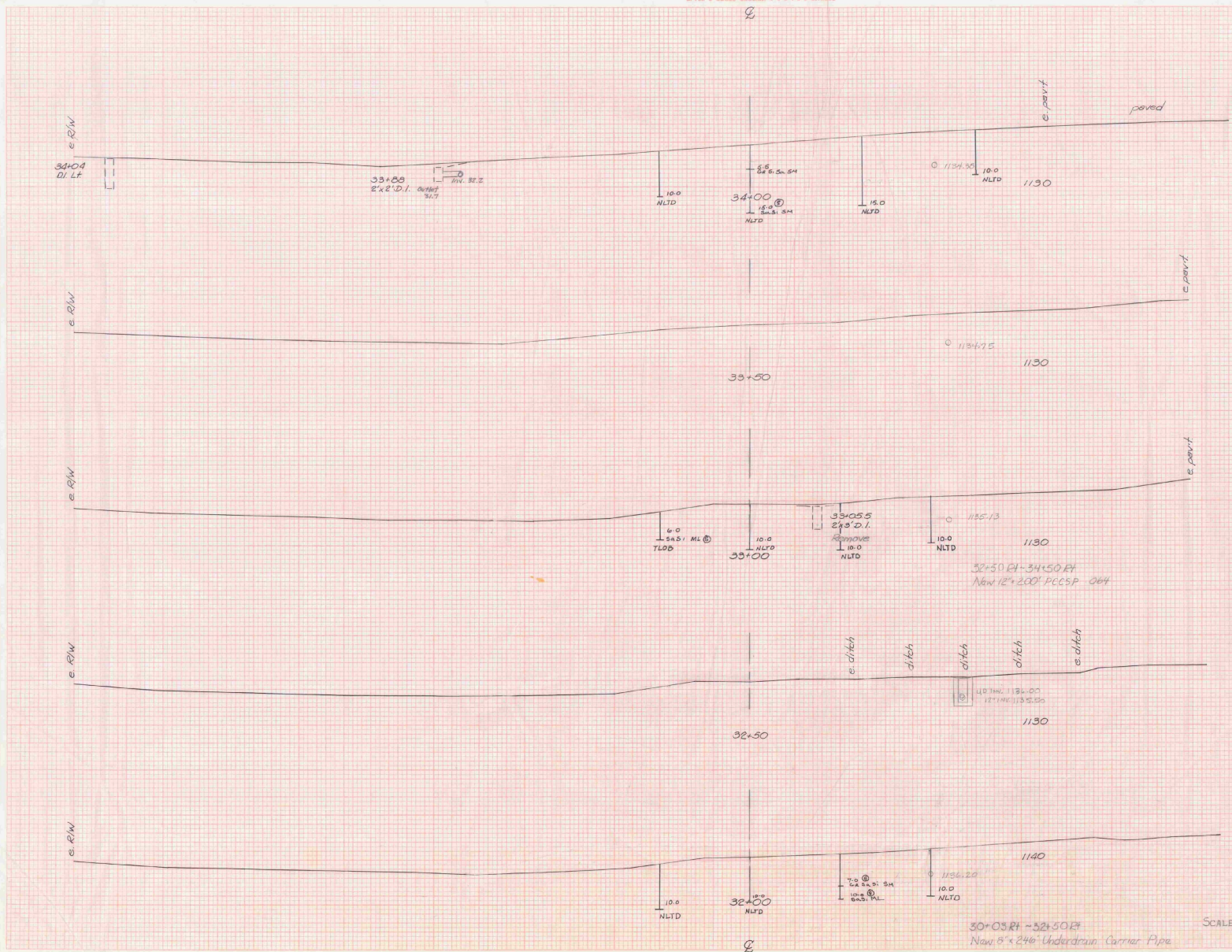
I hereby certify that the work shown on this plan was done in accordance with the requirements of the State of Michigan and was supervised by me or by a duly licensed engineer.
 By Richard R. Conner P.E.
 Date 7-24-77

T/W STA 29+50-31+50
 E F KNAPP AIRPORT
 AIR 03-2046
 SURVEYED BY FALL 12/84
 SHEET 10 OF 26 SHEETS

SCALE 1" = 10 FEET

NO.	DATE	BY	REVISION

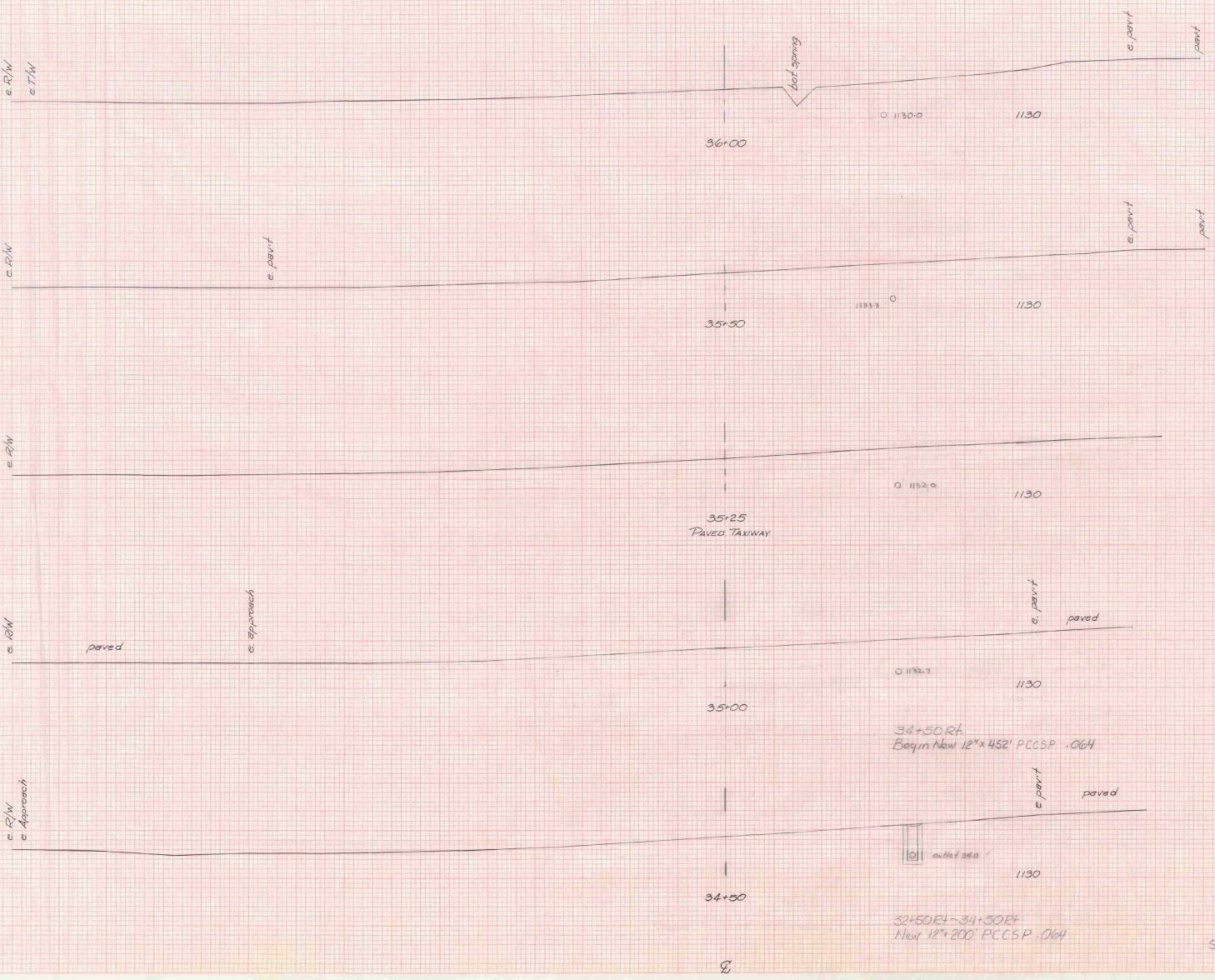
NO.	DATE	BY	REVISION



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

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



NO.	DATE	REVISION

NO.	DATE	REVISION

AS NOTED
 THIS DRAWING IS THE PROPERTY OF
 THE ENGINEER AND ARCHITECT
 AND SHALL BE KEPT IN THE OFFICE
 OF THE ENGINEER AND ARCHITECT
 BY THE CONTRACTOR
 DATE 7-25-57

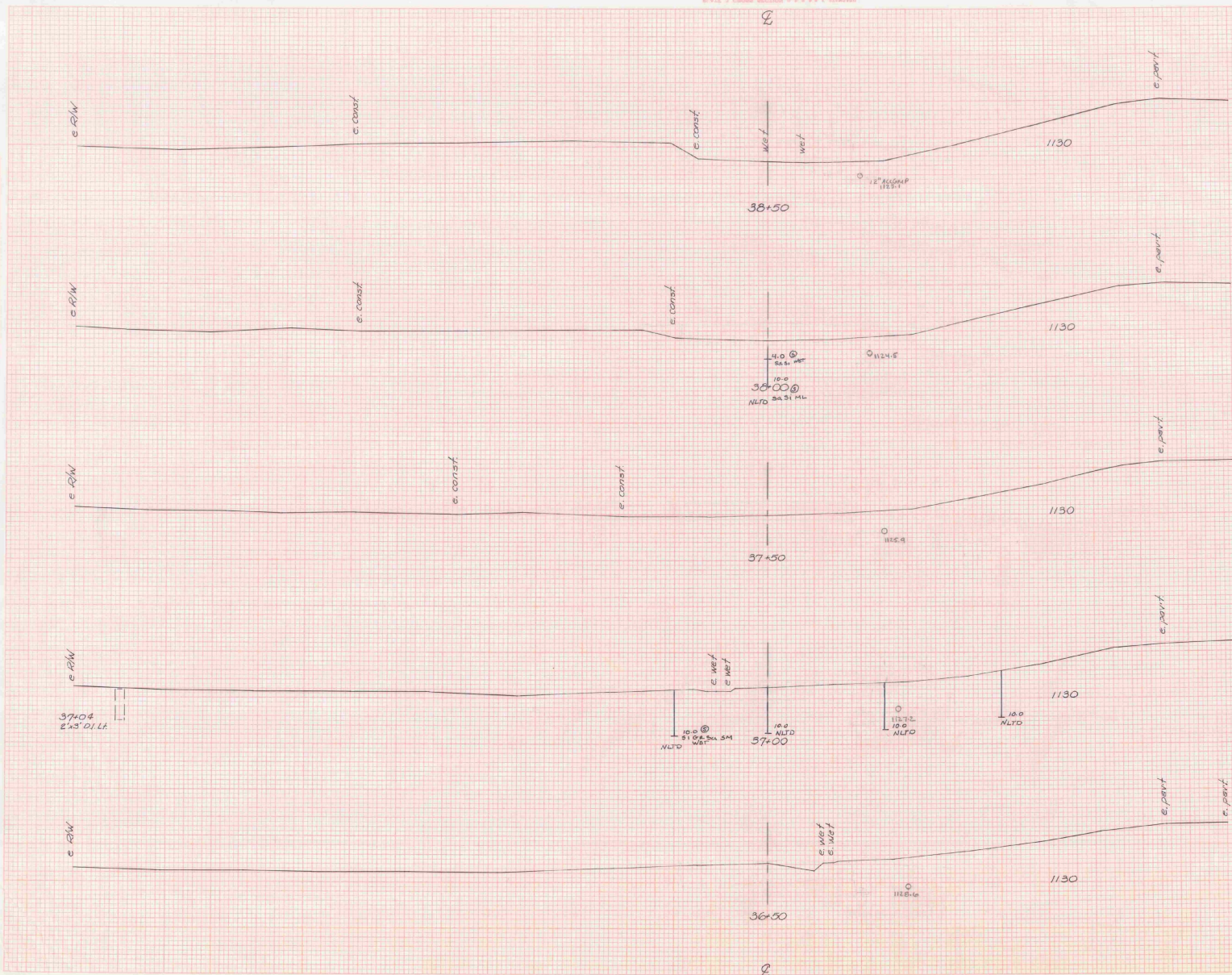
SCALE 10 FEET

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

DATE	
BY	
CHECKED	
SCALE	
PROJECT	
SHEET NO.	

DATE	
BY	
CHECKED	
SCALE	
PROJECT	
SHEET NO.	



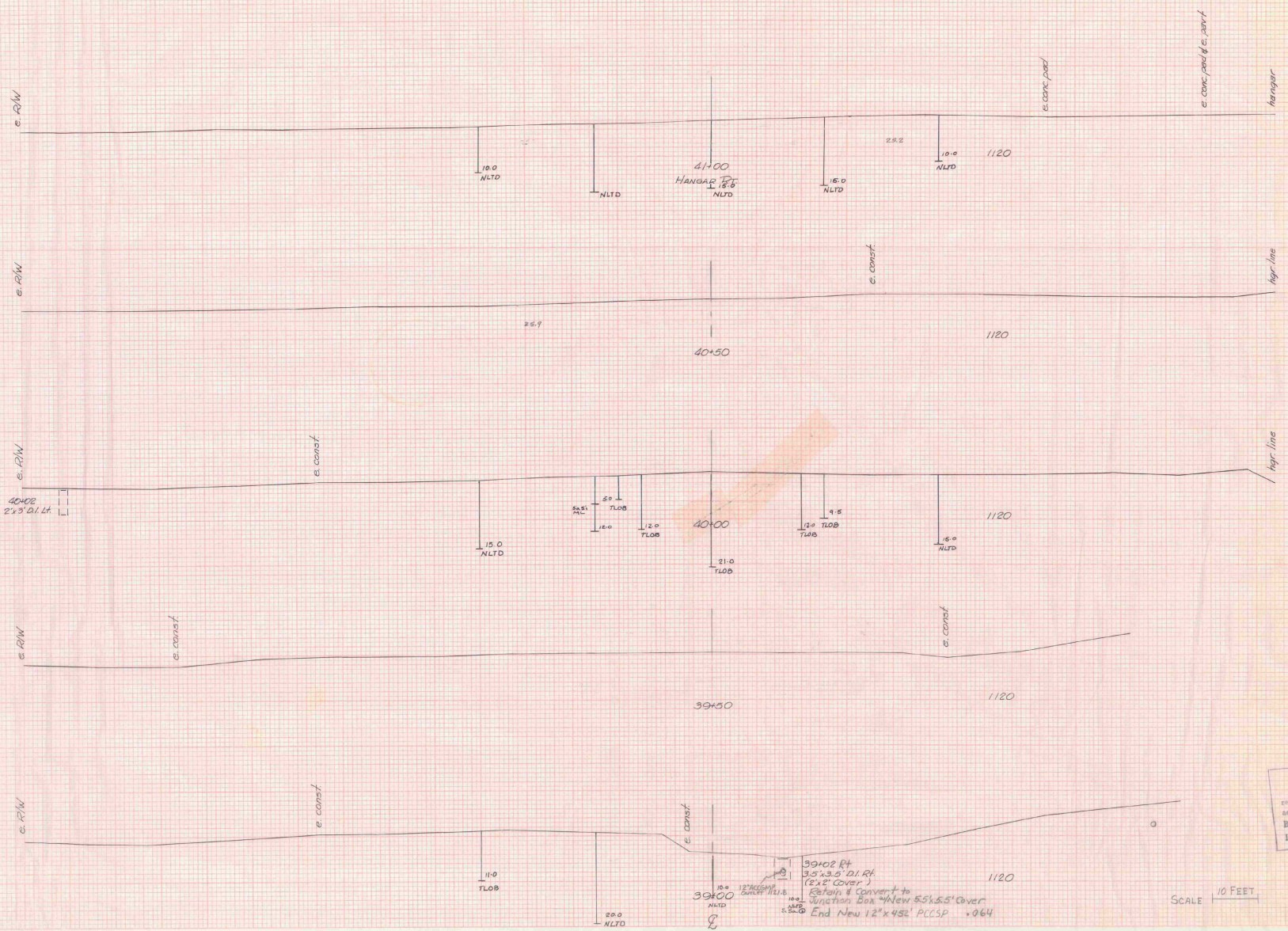
AS BUILT PLANS
 I hereby certify that the construction
 required by this set of plans has been
 accomplished as indicated thereon.
 By Richard R. Coon Surveyor
 Date 7-27-74

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	CHKD.

NO.	DATE	BY	CHKD.

AS BUILT PLANS
 I hereby certify that the work shown on these plans was
 completed by the contractor and that the work was
 accomplished in accordance with the contract.
 By Richard R. Cowie 12/07/74
 Date 12/7/74

39+02 Pt
 3.5' x 3.5' DI Rt
 (5' x 5' cover)
 Station & convert to
 Junction Box *New 5.5' x 5.5' cover
 End New 12' x 4.5' PCCSP .064

SCALE 1" = 10 FEET

T/W STA 39+00-41+00
 E F HOWARD AIRPORT
 AIA 03-2046
 SURVEYED BY FALL 12/64
 SHEET 14 OF 26 SHEETS

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

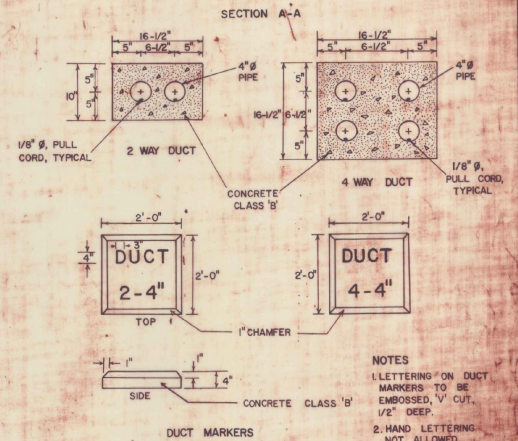
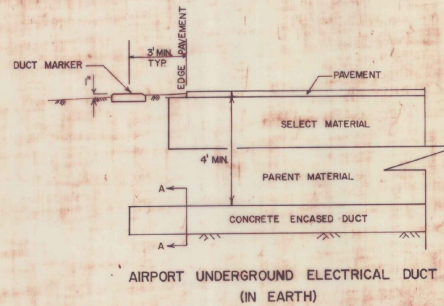
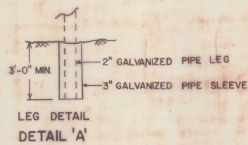
**STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT OF WAY PLANS
DETAIL SHEET**

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'							

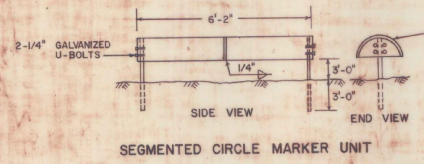
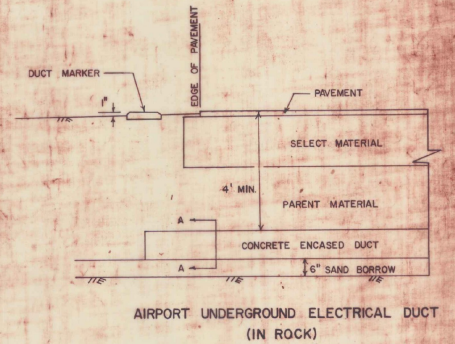
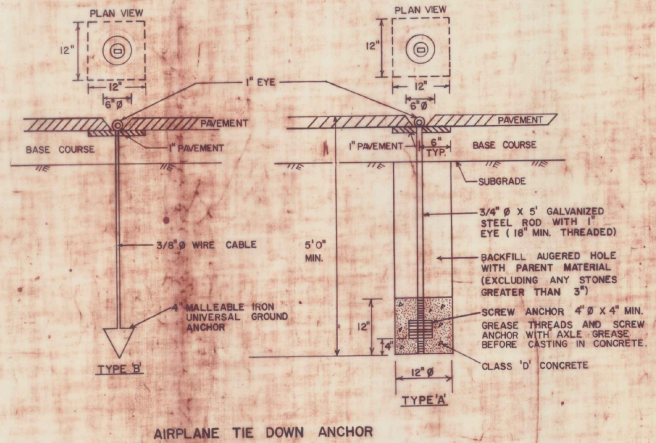
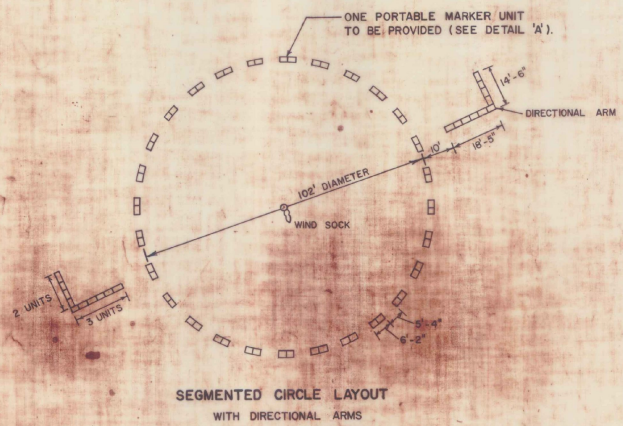
<p>01.3701.3 200 1805 84E036</p> <p>ACCT:PROP /prop/84e036/r/e036d.dgn DATE PLOTTED 22-DEC-1993 84e036d2.1</p>	<p>DR. (P)- DRAINAGE RIGHT DIT. (P)- DITCHING RIGHT CH. (P)- CHANNEL RT. DRIVE (T)- DRIVE RIGHT CUL. (P)- CULVERT RIGHT [W]- WATER SOURCES</p>	<p>PRESENT R.O.W. TAKING WITHOUT ACCESS TAKING WITHOUT ACCESS ALONG PROPERTY LINE TAKING WITH ACCESS PERMANENT EASEMENT TEMPORARY EASEMENT</p>	<p>LEGEND</p> <p>--- C.Z. (P) --- CLEAR ZONE --- CONST. (T) --- CONSTRUCTION EASEMENT --- SR --- SLOPE RIGHTS --- P --- PROPERTY LINE --- L --- TOP OF CUT --- O --- TOE OF SLOPE</p>	<p>REVISED 12-22-93</p> <p>APPROVED: LAWRENCE BLISS, L.S. DATE: 02-25-93. AGENT O. PLANS & TITLES</p>	<p>R. O. W. PLANS</p> <p>WALLINGFORD BRS 0137(13) SHEET 5 OF 9</p>
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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.



MARKER UNIT - STANDARD 55 GALLON METAL DRUM, CUT IN HALF AND WELDED END TO END. MARKER UNITS TO BE PAINTED AVIATION ORANGE.

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

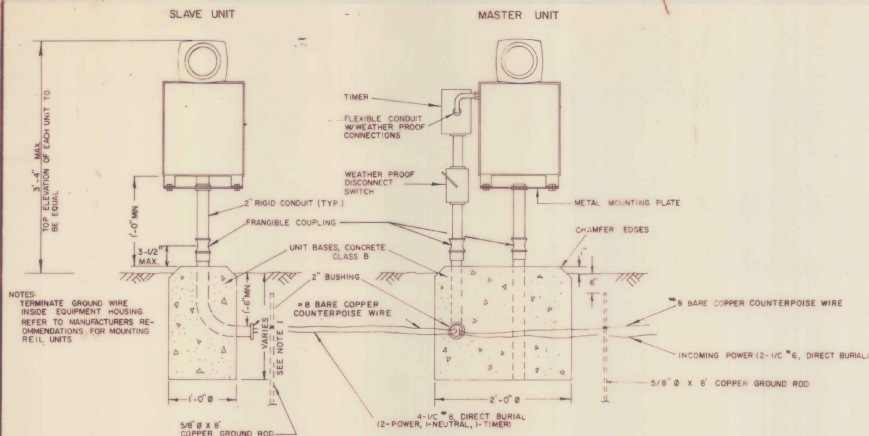
CHIEF OF DESIGN

SURVEY AND PLANS ENGINEER

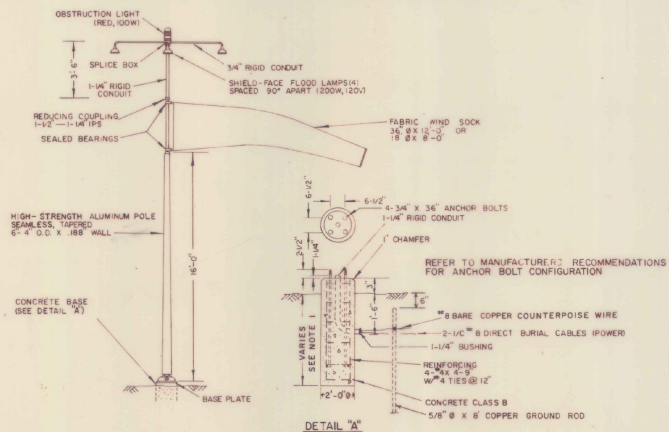
**SEGMENTED CIRCLE
DIRECTIONAL ARMS
AIRPLANE TIE DOWN ANCHORS
AIRPORT UNDERGROUND ELECTRICAL DUCT**



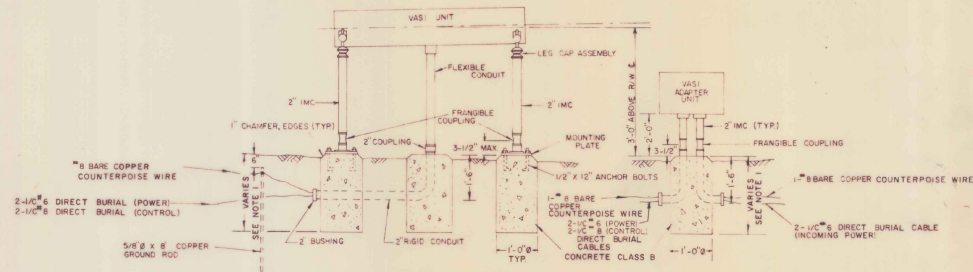
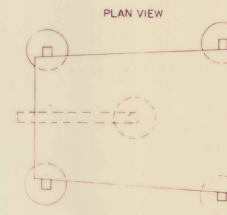
**STANDARD
AP-3**



RUNWAY END IDENTIFIER LIGHTS (REIL) L-849



EIGHT FOOT OR TWELVE FOOT ILLUMINATED WIND CONE L-107

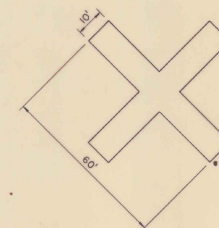


VISUAL APPROACH SLOPE INDICATOR (VASI) L-851

VASI NOTES
 VASI SYSTEM TO INCLUDE 2 OR 4 UNITS
 SEE PLAN-LAYOUT SHEET FOR SYSTEM TO BE INSTALLED
 ONE VASI ADAPTER UNIT TO BE INSTALLED PER SYSTEM
 REFER TO MANUFACTURER'S SPECIFICATIONS FOR FOUNDATION SPACING.

CLOSED RUNWAY MARKER NOTES:

1. MARKERS TO BE YELLOW PLYWOOD OR SNOW FENCE.
2. MARKERS TO BE SUBSIDIARY TO OTHER PAY ITEMS.
3. MARKERS TO BE PLACED OVER RUNWAY NUMERALS OR OFF RUNWAY ENDS AS APPLICABLE.
4. MARKERS TO BE ANCHORED TO THE SATISFACTION OF THE ENGINEER.



CLOSED RUNWAY MARKER

REVISIONS AND CORRECTIONS
 12/1/82 ADDED NOTE 1, OTHER MINOR REVISIONS
 11/30/83 ADDED CLOSED RUNWAY MARKER

APPROVED: DEC 15, 1981
 DATE
 S. J. Gage
 DIR. OF ENGINEERING AND CONSTRUCTION
 Robert J. Gage
 CHIEF OF DESIGN
 S. J. Gage
 SURVEY AND PLANS ENGINEER

VISUAL APPROACH AIDS
 CLOSED RUNWAY MARKER

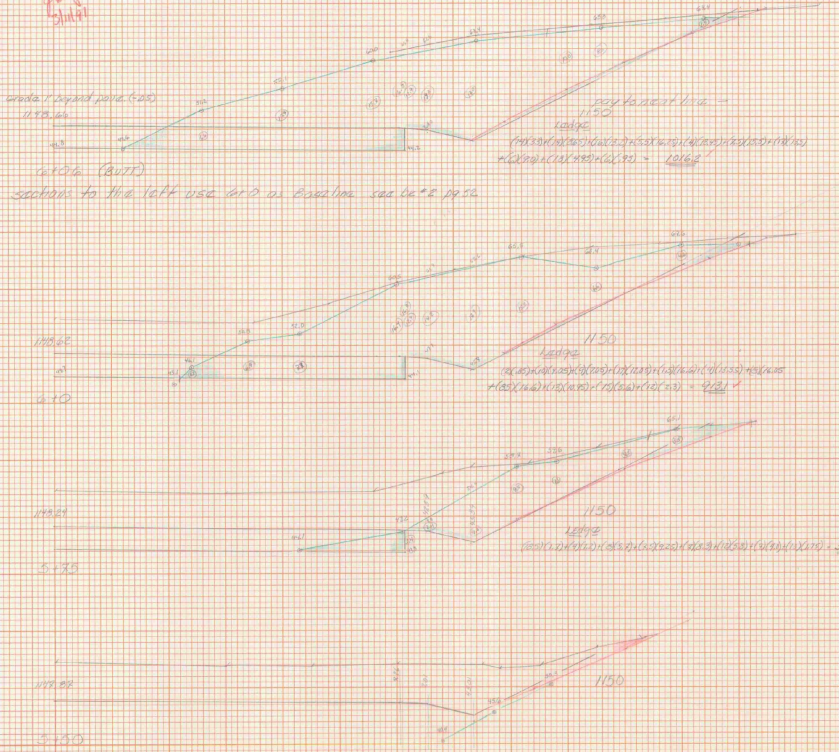


STANDARD
 AP-4

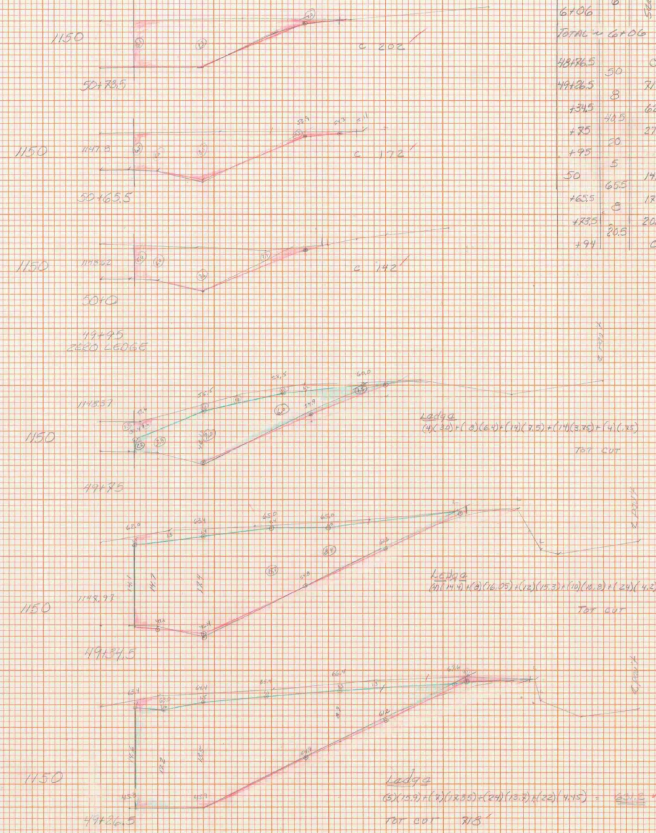
STA	Dist	Area	Vol
0+75	Butt	145	
1+00	25	48	98.6
1+50	50	3	45.2
2+00	50	22	23.1
2+50	50	102	114.8
3+00	50	373	439.3
3+50	50	1043	1311.1
3+50	50	1043	2619.6
4+00	50	1535	2888.0
4+50	50	1535	3001.9
5+00	50	1658	3134.3
5+50	50	1771	3267.6
6+00	Butt	2123	

comp by B&B 5-7-71 17266.11 cys 0+75-6+00 72.84

200' LEADGE



5044
200' Common LEADGE

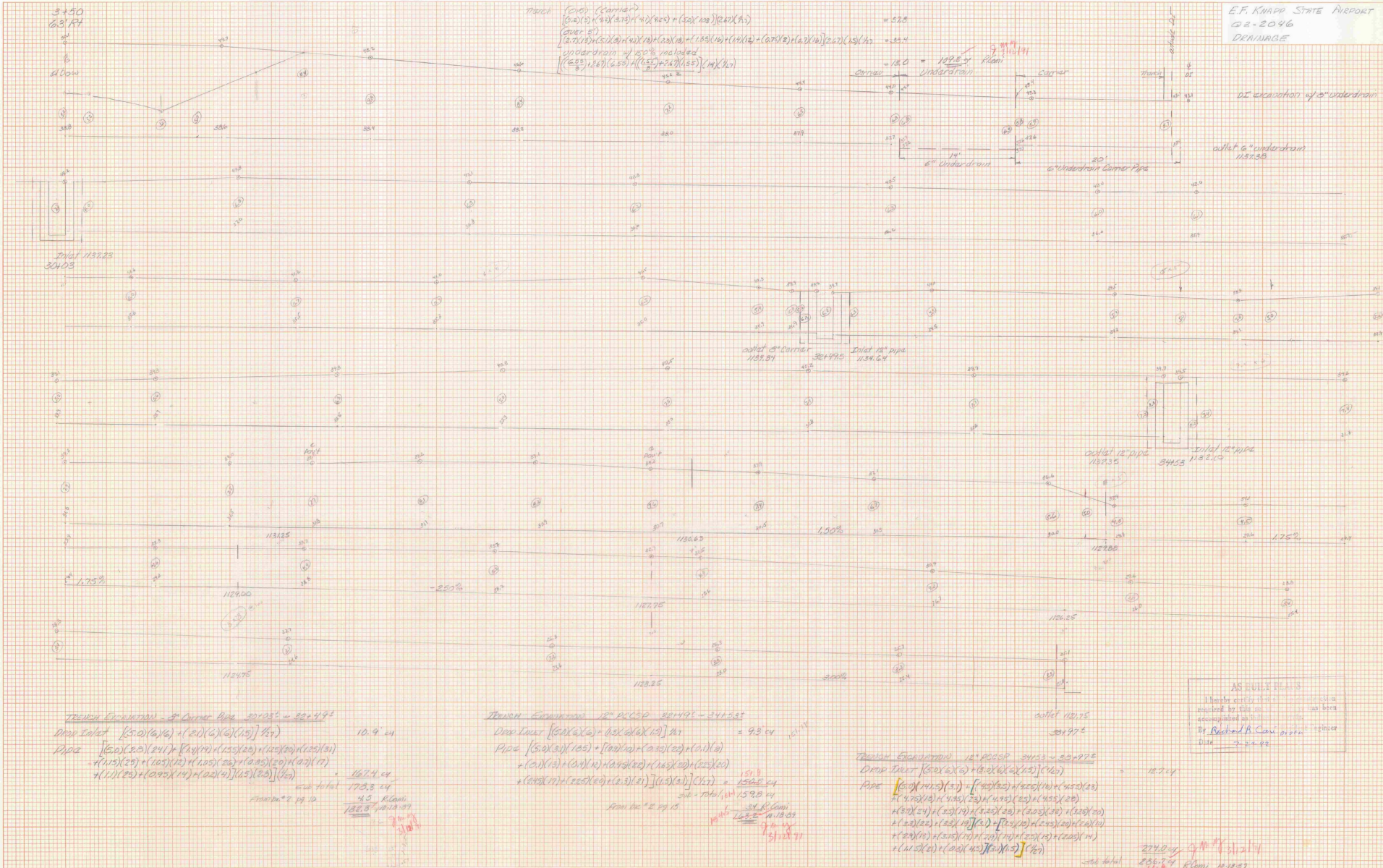


STA	Dist	Total Area	Common Area	LEADGE AREA	LEADGE VOL	Net Area	Net Vol
5+50				0			
5+50	25			538.9	16.8		
5+50	50			98.1	578.1		
6+00	6			106.2	24.4		
6+00	6				799.8		
FORM = 67.06							
4849.5	50	0	665	0	284.5		5'
4849.5	25	318	179	632	172.2		20'
4849.5	0	627	627	558.9	261.6		14'
485	10	276	276	222.7	261.6		11'
498	5	192	192	0	82.9		50'
465	0	120	120	58	53		33'
485	208	202	202	71	17		17'
491	0						500'
2248' FORM = 27.25 50' = 2398							

1. ROAD 2-26-71

AS BUILT FILE
If located in the...
By: [Signature]
Date: 1-26-71

Checked & Approved
Date: 1-26-71
Lance [Signature]
Supt. - [Signature]
[Signature]
[Signature]



$$\text{Trench Excavation } 12" \text{ R/CSP } 381+95 - 341+53$$

$$\text{Drop Inlet } (50 \times 6 \times 6) + (6 \times 6 \times 6 \times 12) \text{ ft} = 9.3 \text{ cu ft}$$

$$\text{Pipe } [(50 \times 30) \times (105) + (100 \times 10) \times (105) \times (20) + (100 \times 10) \times (105) \times (20) + (100 \times 10) \times (105) \times (20) + (100 \times 10) \times (105) \times (20)] \text{ ft} = 1592.5 \text{ cu ft}$$

$$\text{From } 12" \text{ R/CSP } 1592.5 \text{ cu ft}$$

$$\text{Trench Excavation } 18" \text{ R/CSP } 341+53 - 330+97.5$$

$$\text{Drop Inlet } (50 \times 6 \times 6) + (6 \times 6 \times 6 \times 12) \text{ ft} = 10.7 \text{ cu ft}$$

$$\text{Pipe } [(50 \times 30) \times (105) + (100 \times 10) \times (105) \times (20) + (100 \times 10) \times (105) \times (20) + (100 \times 10) \times (105) \times (20) + (100 \times 10) \times (105) \times (20)] \text{ ft} = 1592.5 \text{ cu ft}$$

$$\text{From } 12" \text{ R/CSP } 1592.5 \text{ cu ft}$$

$$\text{Trench Excavation } 12" \text{ R/CSP } 301+95 - 301+99$$

$$\text{Drop Inlet } (50 \times 6 \times 6) + (6 \times 6 \times 6 \times 12) \text{ ft} = 10.9 \text{ cu ft}$$

$$\text{Pipe } [(50 \times 30) \times (105) + (100 \times 10) \times (105) \times (20) + (100 \times 10) \times (105) \times (20) + (100 \times 10) \times (105) \times (20) + (100 \times 10) \times (105) \times (20)] \text{ ft} = 1674 \text{ cu ft}$$

$$\text{From } 12" \text{ R/CSP } 1674 \text{ cu ft}$$

AS BUILT PLANS
 I hereby certify that the work shown on this plan has been accomplished as shown and in accordance with the specifications.
 By Richard R. Clark, Engineer
 Date 3-2-42

E.F. KNAPP STATE AIRPORT
 DRAINAGE
 CB-2046
 SHEET NO. 1
 DATE 3-2-42

E.F. KNAPP STATE AIRPORT
 DRAINAGE
 CB-2046
 SHEET NO. 1
 DATE 3-2-42

272.8 cu ft
 286.7 cu ft
 300.2 cu ft
 278.3 cu ft
 7-15-41

1990

Berlin (E.F. Knapp Airport

Air 03 - 2046

1990