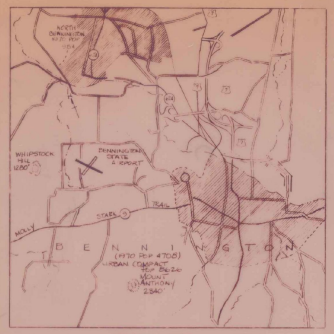
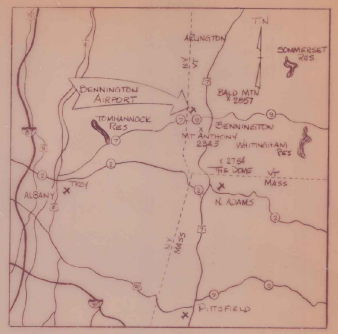
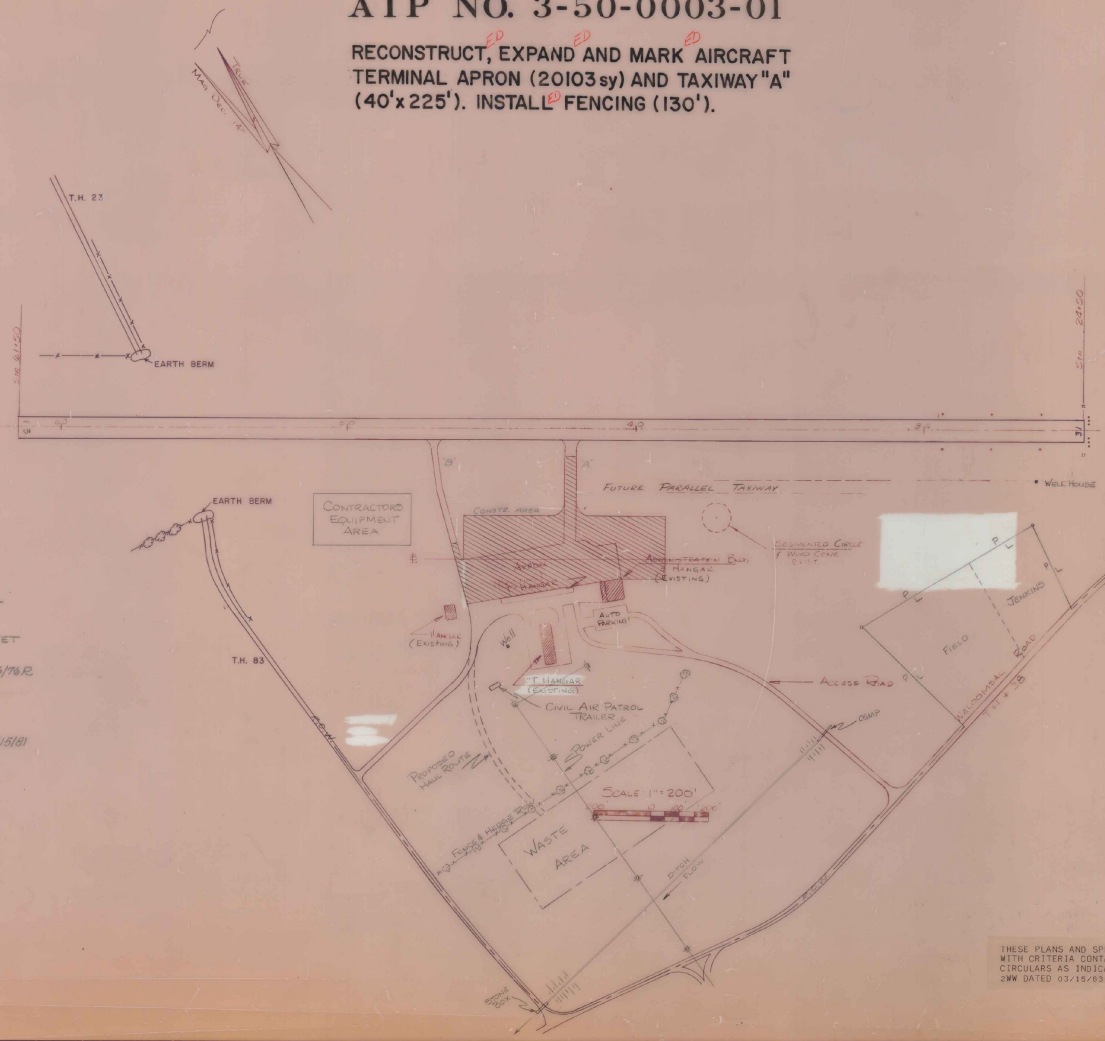
STATE OF VERMONT
AGENCY OF TRANSPORTATION
BENNINGTON STATE AIRPORT
BENNINGTON, VERMONT
AIP NO. 3-50-0003-01

RECONSTRUCT, EXPAND AND MARK AIRCRAFT TERMINAL APRON (20103 sy) AND TAXIWAY "A" (40'x225'). INSTALL FENCING (130').







INDEX OF SHEETS

SHEET NO.	
1	TITLE SHEET
2	PROPOSED TYPICAL AND MISCELLANEOUS DETAIL SHEET
3	QUANTITY, EARTHWORKS AND GRADE SHEET
4	PLAN SHEET
5	PROFILE AND MISCELLANEOUS DETAIL SHEET
6	MISCELLANEOUS DETAIL SHEET
7	STD. D-2 UNDERDRAIN & CARRIER PIPE, 12/16/76 R
8	STD D-4 FLUSHING BASINS 7/24/75 R
9	STD F-2 CHAIN LINK FENCE 2/1/79 R
10	STD AP-2 SPLICE MARKERS 12/10/81
11	STD AP-3 AIRPLANE TIEDOWN ANCHORS 12/16/81
12-14	CROSS SECTIONS - APRON
15	CROSS SECTIONS - TAXIWAY A

AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished in substantial conformity
By Nelson E. Blanchard, Resident Engineer
Date 2/4/87

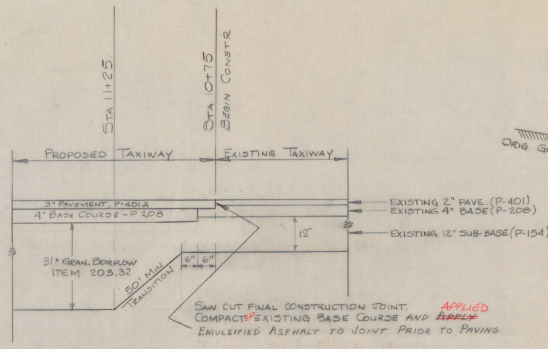
AIR 23-2011

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD
APPROVED S.J. Gage PE DATE 5-4-83
DIRECTOR OF ENGINEERING AND CONSTRUCTION

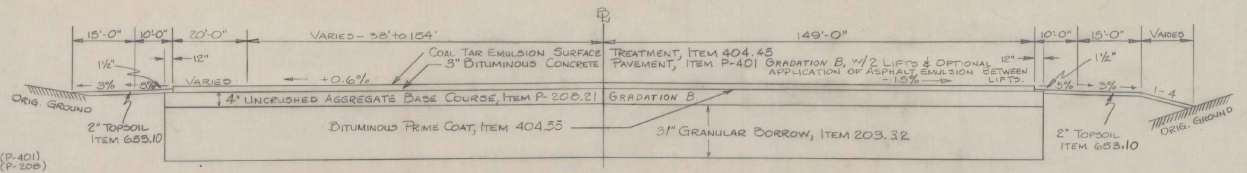
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
APPROVED _____ DATE _____
CHIEF ENGINEERING BRANCH
AIRPORTS DIVISION

PROJECT AIP NO. 3-50-0003-01
SHEET 1 OF 15 SHEETS

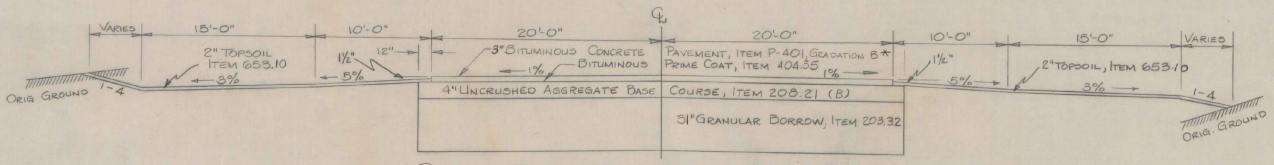
THESE PLANS AND SPECIFICATIONS ARE IN ACCORDANCE WITH CRITERIA CONTAINED IN CURRENT FAA ADVISORY CIRCULARS AS INDICATED IN AC CHECKLIST AC 00-2WW DATED 03/15/63.



BUTT JOINT DETAIL
(TAXIWAY 'A' - NO SCALE)
* 2 LIFTS WITH OPTIONAL APPLICATION OF ASPHALT EMULSION BETWEEN LIFTS

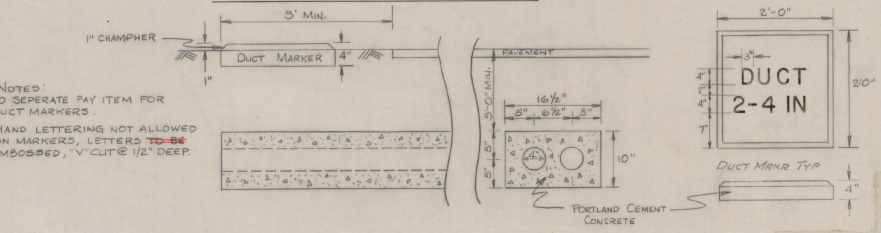


PROPOSED APRON TYPICAL SECTION (NO SCALE)

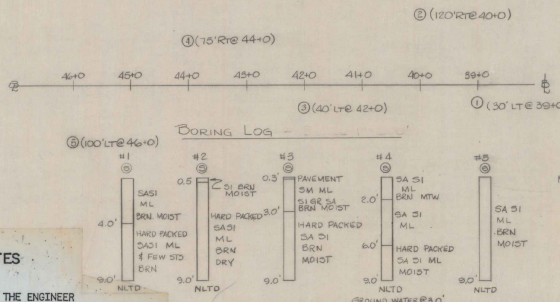


PROPOSED TAXIWAY TYPICAL SECTION (NO SCALE)
* 2 LIFTS WITH OPTIONAL APPLICATION OF ASPHALT EMULSION BETWEEN LIFTS.

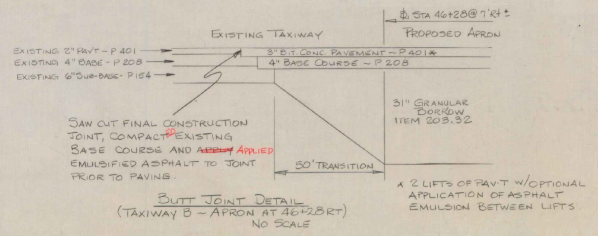
TWO WAY ELECTRICAL DUCT, ITEM L-110



NOTES:
1. NO SEPERATE PAY ITEM FOR DUCT MARKERS.
2. HAND LETTERING NOT ALLOWED ON MARKERS, LETTERS ~~TO BE~~ IMBOSSED, 'V" CUT @ 1/2" DEEP.



NOTE:
℄ IS LOCATED 450' LEFT AND PARALLEL TO EXISTING RUNWAY 13/31 CENTERLINE



BUTT JOINT DETAIL
(TAXIWAY B - APRON AT 46+28 RT)
NO SCALE

GENERAL NOTES

SEED, ITEM 651.10
TO BE APPLIED AS DIRECTED BY THE ENGINEER

% WT	LBS/A	NAME	PUR %	GERM %
3.33	2	CROWN VETCH	97	75
50.00	30	CREEPING RED FESCUE	98	85
8.33	5	TIMOTHY	99	85
16.67	10	PERENNIAL RYE GRASS (VAR. PENNFINE)	95	85
8.34	5	ALFALFA (VAR. SARANAC)	99	85
8.33	5	BIRDSFOOT TREFOIL (VAR. EMPIRE)	98	85
5.00	3	HIGHLAND BENT GRASS	92	85
100.00	60	LBS/ACRE		

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

FERTILIZER, ITEM 651.15
FORMULA 10-20-10 ~~TO BE~~ USED WITH SEED, ITEM 651.10 APPLIED AT THE RATE OF 500 LBS/ACRE

AGRICULTURAL LIMESTONE, ITEM 651.20
~~TO BE~~ APPLIED AT 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 653.10
~~TO BE~~ USED WITH SEED, ITEM 651.10 IN RESIDENTIAL AREAS, AS DIRECTED BY THE ENGINEER

ALLOWABLE THICKNESS TOLERANCES

SUB-BASE	± 1"
CONTROLLED MATERIAL	± 1"
PAVEMENT	± 1/4"
BASE COURSE	± 1/2"

AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated hereon.
By William C. Blanchard Resident Engineer
Date 3/4/87

PROJ. AIP NO. 3-50-0003-01

BENNINGTON STATE AIRPORT
PROJECT: AIR 23-2011
MISCELLANEOUS DETAIL SHEET
SHEET 2 OF 15

DRAWN BY RJK

QUANTITY, EARTHWORKS, DRAINAGE AND ITEM DETAIL SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

EROSION CONTROL	BRIDGE	ROADWAY	GRAND TOTAL	UNIT	PAY ITEM	PAY ITEM NUMBER	DIV.
			18800	CY	COMMON EXCAVATION	203.15	35
			1	CY	SOLID ROCK EXCAVATION - EST. *	203.16	
			20,600	CY	GRANULAR BORROW	203.32	76
			925	CY	TRENCH EXCAVATION OF EARTH - EST.	204.20	
			1	CY	TRENCH EXCAVATION OF ROCK - EST. *	204.21	
			5800	GAL	TAR EMULSION	404.43	88
			440	CWT	CUTBACK ASPHALT	404.55	
			70	CWT	ASPHALT EMULSION	404.65	
			2100	LF	6" UNDERDRAIN - EST	605.101	
			700	LF	6" UNDERDRAIN CARRIER PIPE - EST	605.151	
			6	EA	UNDERDRAIN FLUSHING BASINS - EST	605.95	
			1	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I - EST.*	608.25	
			1	HR	TRUCK RENTAL - EST. *	608.37	
			100	M/GAL	DUST CONTROL WITH WATER - EST.	609.10	
			130	LF	CHAIN LINK FENCE, 6' - EST.	620.11	
			1	LS	FIELD OFFICE - ENGINEERS	631.10	
			1	LS	MOBILIZATION	635.10	
			100	LB	SEED	651.10	2
			820	LB	FERTILIZER	651.15	2
			3.3	TON	LIMESTONE	651.20	
			3.3	TON	HAY MULCH	651.25	
			450	CY	TOPSOIL	653.10	10
			3460	TON	P-401, BITUMINOUS CONCRETE PAVEMENT	874.02	8
			1	LS	P-620, RUNWAY AND TAXIWAY PAINTING	874.03	
			1	EA	ILLUMINATED TAXIWAY GUIDANCE SIGN	874.08	
			84	EA	TIEDOWN ANCHORS, TYPE 'A'	874.09	
			115	LF	L-110, AIRPORT UNDERGROUND ELECT. DUCT - 2 WAY x 4" - EST.	874.07	
			1000	LF	L-108, 1/C #8, L-824 TYPE 'C' 5KV - EST. +	874.04	
			500	LF	L-108, 1/C #8, BARE COUNTERPOISE WIRE - EST.	874.06	
			2325	CY	P-208, UNCRUSHED AGGR. BASE COURSE	874.01	22
			1500	LF	L-108, 1/C #6 TYPE 'C' 5KV - EST. +	874.05	

* NOT A BID ITEM

+ TO BE INSTALLED THROUGH NEW / EXISTING DUCTS

DETAILED SUMMARY OF QUANTITIES

QUANTITY	UNIT	PAY ITEM

GRADES AND EARTHWORK

V.C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON V CURVE	V.C. CORR.	DIST. (FT.)	TOTAL EXCAV. EARTH & ROCK AREA (SF)	TOTAL EXCAV. EARTH & ROCK VOL. (CY)	ROCK EXCAVATION AREA (SF)	ROCK EXCAVATION VOL. (CY)	EMBANKMENT AREA (SF)	EMBANKMENT VOL. (CY)
			APRON									
		39	811.25			50'	829	1541				
		+50	811.08			50'	835	1489				
		40	810.92			50'	708	1813			0	3
		+50	810.75			50'	688	1289			3	3
		41	810.58			50'	704	1281			0	
		+50	810.42			50'	679	1169			0	32
		42	810.25	810.25	0.00		584				35	
VC -0.334% 100'		+12	810.21	810.21	0.00	50'		1164				32
		+32	810.14	810.17	+0.03							
		+50	810.08	810.15	+0.07		673				0	
		+52	810.08	810.14	+0.06	50'		1304				
		43	810.19	810.19	0.00		735	1315			0	1
		+50	810.30			50'	685	1201			1	32
		44	810.41			50'	612	1182			34	81
		+50	810.33			50'	611	1096			53	118
		45	810.64	810.64	0.00	50'	573	1158			74	121
VC +0.221% 100'		+50	810.75	810.53	-0.22	28'	672	705			57	53
		+70	810.39	810.89	-0.04	22'	688	565			46	33
		46	810.00	810.00	0.00		700				94	
			APRON TOTALS					17637				509
			TAXIWAY "A"									
		10	805.60									
		+37.5	805.04	805.04	0.00							
		+50	804.83	804.58	+0.09	BEGIN CONSTRUCTION 10+75						
		+75	804.48	804.71	+0.23		63				0	
VC -1.90% 100'		+87.5	804.29	804.69	+0.40	25'		60				5
		11	804.50	804.73	+0.23		66				10	
		+37.5	805.14	805.14	0.00	50'		136				86
VC +1.708% 100'		+50	805.36			50'	81	114			83	181
		12	806.21			50'	42	127			112	122
		+50	807.07				95				20	
		+75	807.49	807.49	0.00	50'		399				33
VC -1.502% 100'		13	807.92	807.91	-0.01		336				16	
		+25	808.30	808.30	0.00	BUTT TO APRON @ 13+00						
		+50	808.67									
		14	809.42									
		+50	810.17									
			TAXIWAY "A" TOTALS					836				427
			TAXIWAY "B" TOTALS					292				—
			PROJECT TOTALS					18765				936
			COLUMN TOTALS									

EARTHWORK SUMMARY

EARTH AND ROCK EXCAVATION	18765 CY.
SOLID ROCK EXCAVATION	— CY.
EARTH EXCAVATION	18765 CY.
PLANIMETERED FILL	936 CY.
LESS FACTORED SOLID ROCK	— CY.
LESS DISPLACEMENT OF LARGE STRUCTURES	— CY.
NET PLANIMETERED FILL	936 CY.
FACTOR (0.15 x NET PLANIMETERED FILL)	140 CY.
PLANIMETERED FILL INCLUDING FACTOR	1076 CY.
MATERIALS AVAILABLE FOR FILLS:	
EARTH EXCAVATION	18765 CY.
CHANNEL EXCAVATION (%x CY)	CY.
UNDERDRAIN EXCAVATION (%x CY)	CY.
STRUCTURE EXCAVATION (%x CY)	CY.
TOTAL MATERIAL AVAILABLE FOR FILLS	18765 CY.
TOTAL FILL INCLUDING FACTOR	1076 CY.
TOTAL MATERIAL FOR FILLS	CY.
BORROW	CY.
EXCESS EXCAVATION	17689 CY.
LESS FACTORED DEDUCTIBLE GRANULAR BORROW	CY.
NET EARTH BORROW	CY.
NET EXCESS EXCAVATION	CY.

UNDERDRAIN AND CARRIER PIPE

STATION TO STATION	TYPE U	TYPE B	POS.	D (IN)	L (FT)	TRENCH EXC. EARTH (CY)	TRENCH EXC. ROCK (CY)	GRAN. BKF. (CY)	F.B. (EA)	MKR. POSTS (EA)
COLUMN TOTALS										

GUARD RAIL, THREE CABLE W/LT ____ POSTS

STATION TO STATION	POS.	MEASURED LENGTH (FT & IN.)	POST SPACING (FT & IN.)	FACTOR	PAY LENGTH (L.F.)	ANCHORS 6.2:66 (EA.)	ANCHORS 6.2:67 (EA.)
COLUMN TOTALS							

GUARD RAIL, BOX BEAM W/ST POSTS

STATION TO STATION	POS.	POST SPACING (FT & IN.)	PAY LENGTH (L.F.)	REMARKS
COLUMN TOTALS				

DRAINAGE STRUCTURES

STATION	POS.	SKEW	TYPE IN/OUT	DITCH IN	DITCH OUT	RCP DIA	RCP LT(1)	RCP CL.	ACCGMP DIA	ACCGMP LT(1)	ACCGMP THICK	OPTION PIPES D (IN.)	OPTION PIPES L (FT.)	OPTION PIPES REF. CL.	OPTION PIPES COUP. TH.	OPTION PIPES COUP. THICK	MES. (EA)	DI. DEPTH (FT.)	CONC. CL. B (CY)	REINF. STEEL (LB.)	DI. GRATE TYPE	CRM (CY)	TRENCH EXC. EARTH (CY)	TRENCH EXC. ROCK (CY)	ST. FILL TYPE	ST. FILL (CY)	MKR. POST LT.	MKR. POST RT.	REMARKS
COLUMN TOTALS																													

GUARD RAIL, _____ STEEL BEAM WITH _____ POSTS

STATION TO STATION	POS.	MEASURED LENGTH (FT & IN.)	POST SPACING (FT & IN.)	FACTOR	PAY LENGTH (L.F.)	ANCHORS RR (EA.)	ANCHORS RD (EA.)	REMARKS
COLUMN TOTALS								

AS BUILT PLANS

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

By Nelson E. Bowles, President / Engineer

Date 2/5/80

TYPE OF CONSTRUCTION: _____

STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS				EQUATIONS +	EQUATIONS −	REMARKS

LENGTH OF PROJECT

STATION	STATION	FEET	MILES	REMARKS
COLUMN TOTALS				

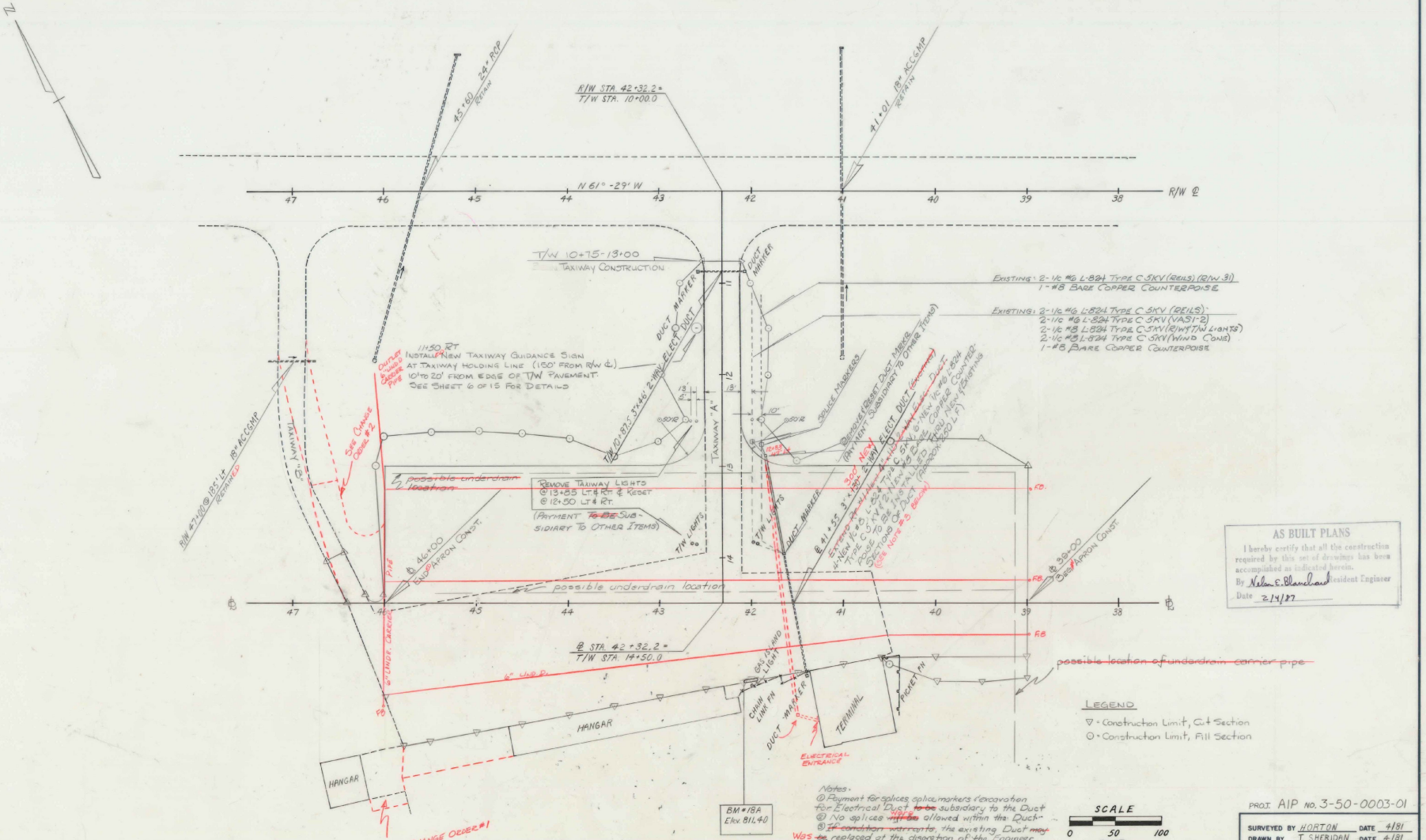
PROJ. AIP NO. 3-50-0003-01

PROJECT NO. AIR 23-2011

PROJECT NAME Bennington State Airport

SHEET 3 OF 15 SHEETS

D B 17 Oct 79



AS BUILT PLANS

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

By Nelson E. Blanchard Resident Engineer

Date 2/4/87

DATUM
VERTICAL
HORIZONTAL

PROJ. AIP NO. 3-50-0003-01

SURVEYED BY HORTON DATE 4/81
DRAWN BY T. SHERIDAN DATE 4/81
TRACED BY R. MCCLURE DATE 4/81

BENNINGTON STATE AIRPORT

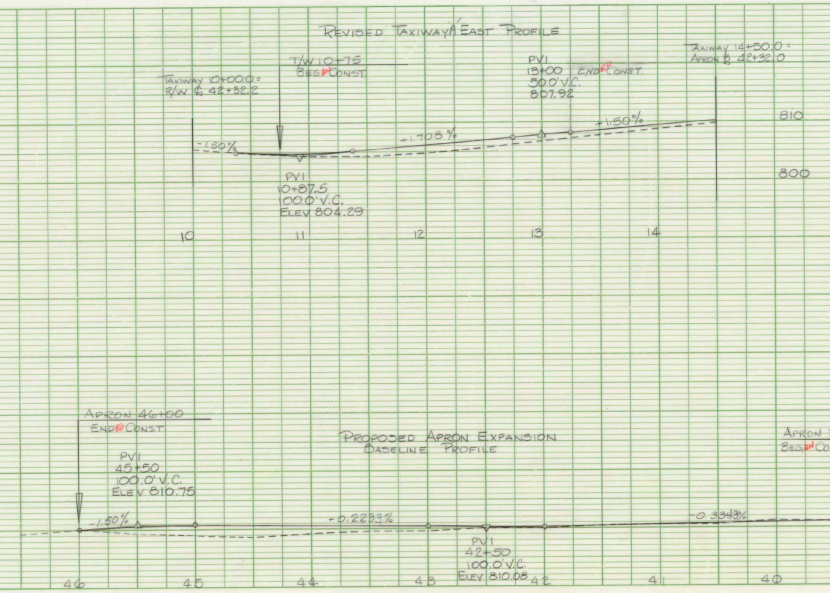
PROJ. AIP NO. 23-2011

SHEET 4 OF 15

BRUNING 44-131 4092

PLAN
SURVEYED:
PLOTTED:
NOTE BOOK
No.
DATE
BY
CHECKED:
AS BUILT DIMENSIONS CHECKED:

PROFILE
SURVEYED:
PLOTTED:
NOTE BOOK
No.
DATE
BY
CHECKED:
AS BUILT DIMENSIONS CHECKED:

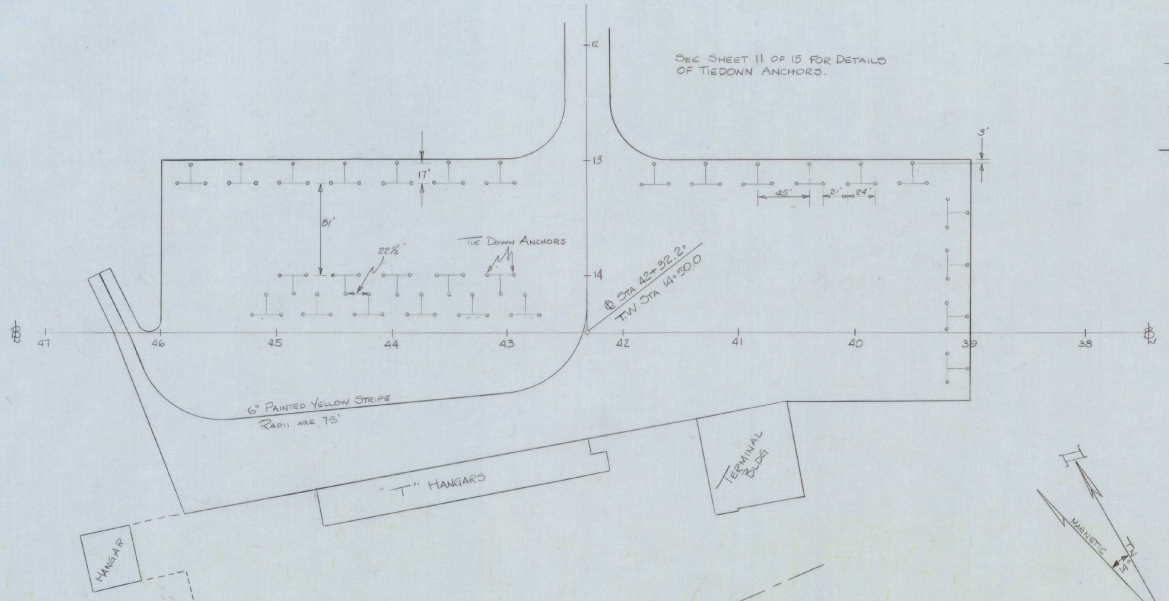


PROFILE SCALE
HORIZ. 1" = 100'
VERT. 1" = 10'

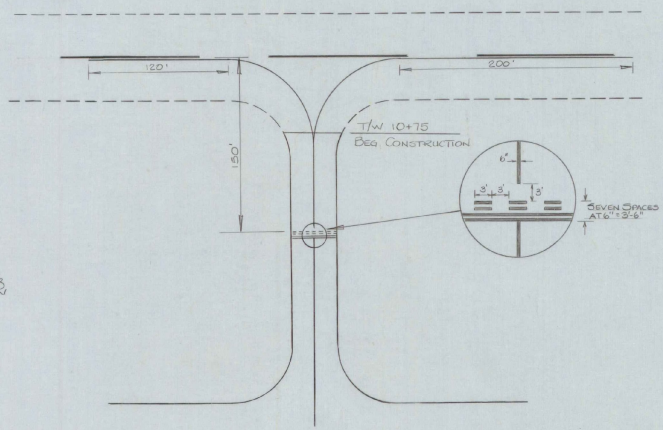
AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated hereon.
By Nelson C. Blanchard Resident Engineer
Date 2/4/97

PROJ. AIP NO. 3-50-0003-01
BENNINGTON STATE AIRPORT
PROJECT AIR 23-2011
PROFILE SHEET & MISCELLANEOUS DETAILS
SHEET 5 OF 15

PLATE 1, PLAN-PROFILE



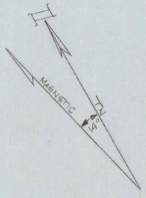
Tiedown Layout (Scale: 1" = 50')
28 Units = 84 Anchors

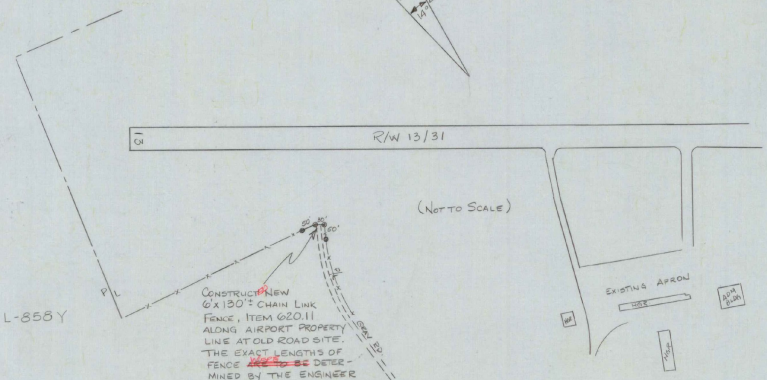


Taxiway Painting Detail (No Scale)

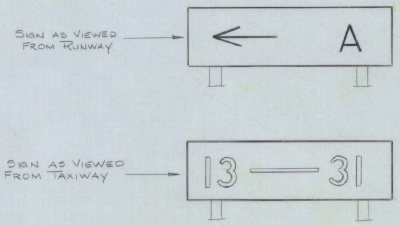
Notes:

1. Taxiway holding pattern ~~to be~~ located 150 feet from R/W centerline.
2. Taxiway marking ~~shall be~~ is non-reflective yellow and ~~shall~~ conform ~~to~~ to Federal Specification TT-P-85.
3. Taxiway stripe unbroken except at holding line marking.
4. Taxiway striping ~~to be~~ matched to existing at 10+75 ± to the satisfaction of the Engineer.





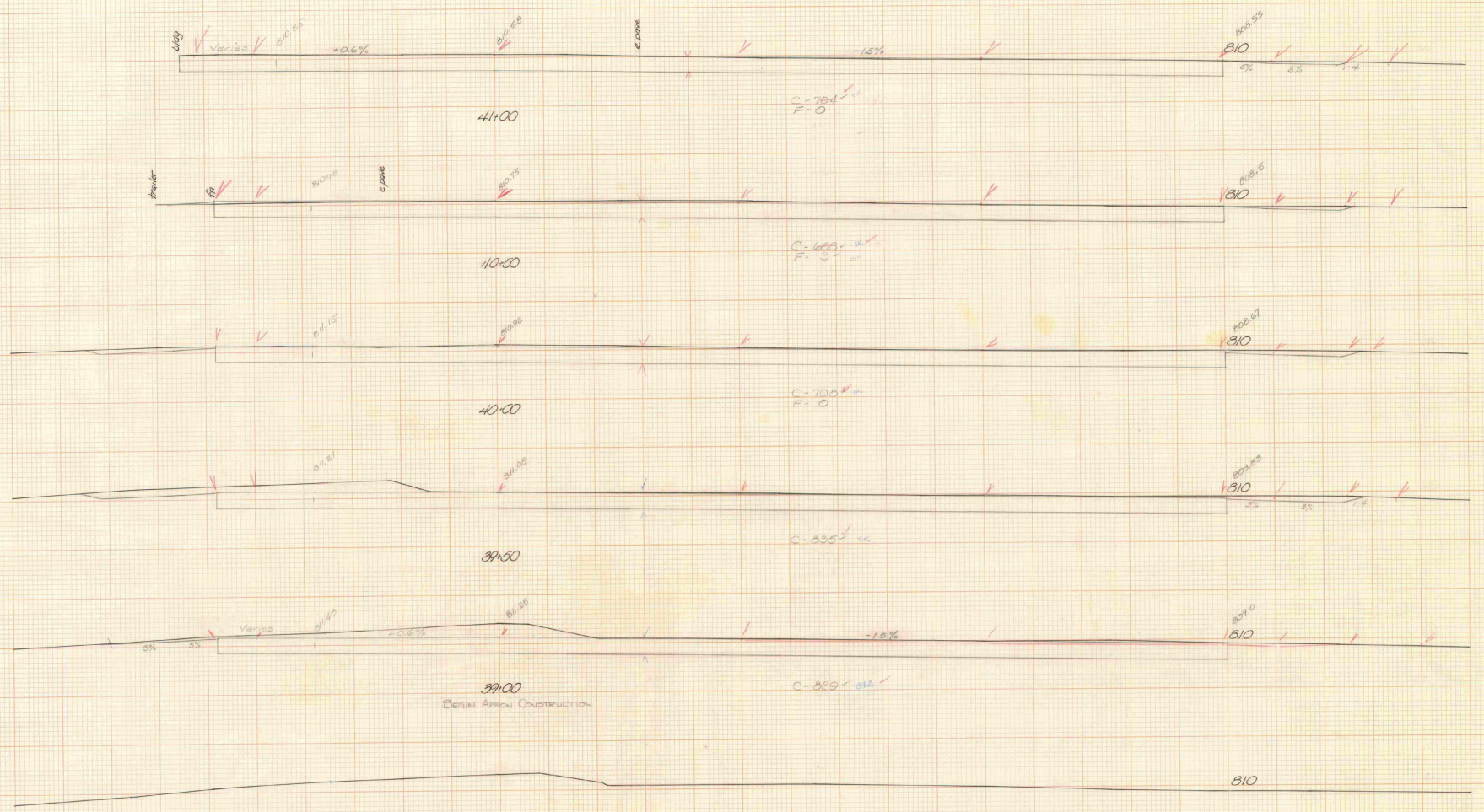
Note: See Sheet 9 of 15 Sheets for Details of Fencing.



Base Mounted Taxiway Guidance Sign, L-858Y
w/ Frangible Mounts
Type 1, Size 3, Style 2, Class 2
AC described in FAA Advisory
Circulars 150/5340-18A and
150/5345-44C. As manufactured
by: Standard Signs Inc,
3190 East 65th St,
Cleveland Ohio 44127
or an approved equal.

AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
By Walter E. Kloeckner Resident Engineer
Date 3/4/93

Proj. AIP No. 3-50-0003-01
Bennington State Airport
Project: AIR 23-2011
Miscellaneous Detail Sheet
Sheet 6 of 15
Drawn By: RJK 1/82
D-8



AS BUILT PLANS

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

By Nelson E. Blanchard Resident Engineer

Date 2/4/82

PROJ. AIP NO. 3-50-0003-01

STA. 38+50 STA. 41+00

TOWN Bennington State Airport

PROJECT ALP NO. E3-50-0

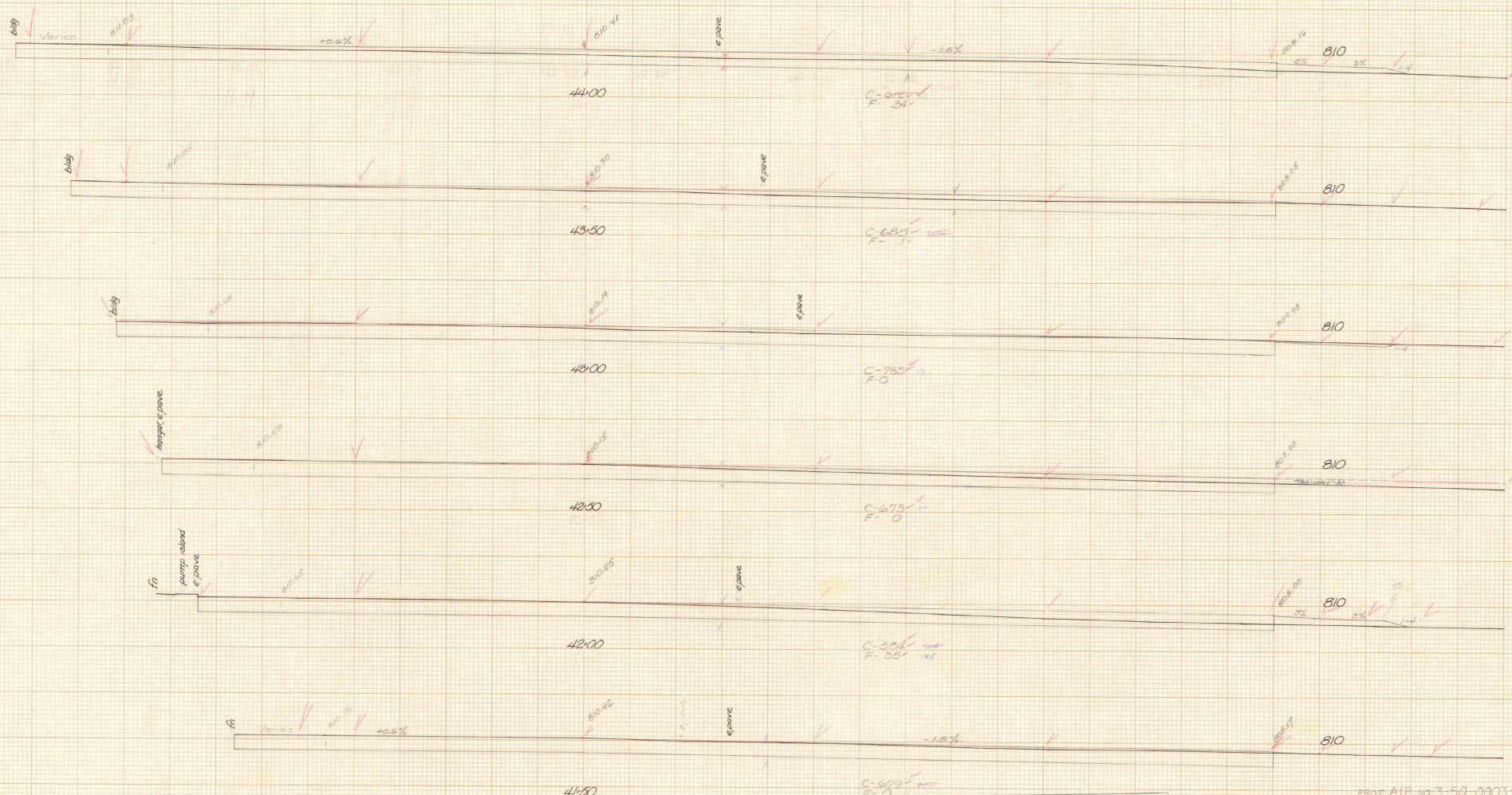
SHEET NO. OF 15 SHEETS

HORIZ. AND VERT. SCALE

0 10 20

SURV. YED BY: Horton DATE 4/81

K&E STANDARD ⊕ CROSS SECTION
KEUFFEL & ESSER CO.
MADE IN U.S.A.



AS BUILT PLANS

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

By Nolan E. Blandford Resident Engineer

Date 2/4/87

PROJ A.I.P. NO. 3-50-0003-01

STA. 41+50 STA. 44+00

TOWN Bennington State Airport

PROJECT NO. 25-2611

SHEET 12 OF 15 SHEETS

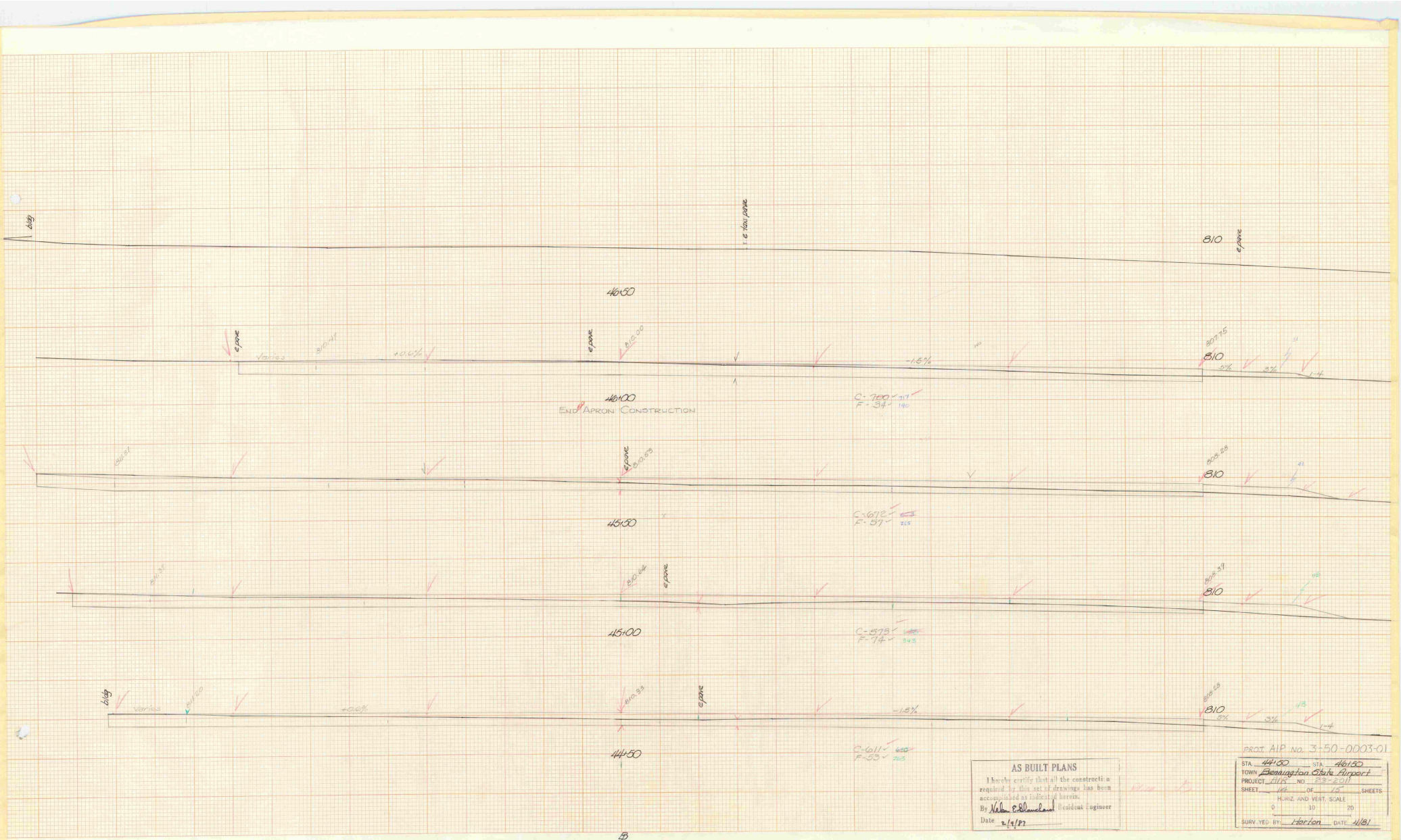
HORIZ. AND VERT. SCALE

0 10 20

SURV. YED BY: Horton DATE 4/81

KEUFFEL & ESSER CO MADE IN U.S.A.

K&E STANDARD CROSS SECTION



PROJ. AIP NO. 3-50-0003-01

STA. 44+50	STA. 46+50
TOWN Bennington State Airport	
PROJECT Util.	NO. 23-2011
SHEET 16	OF 16 SHEETS
HORIZ. AND VERT. SCALE	
0 10 20	
SURV. YED BY: Horton	DATE 4/81

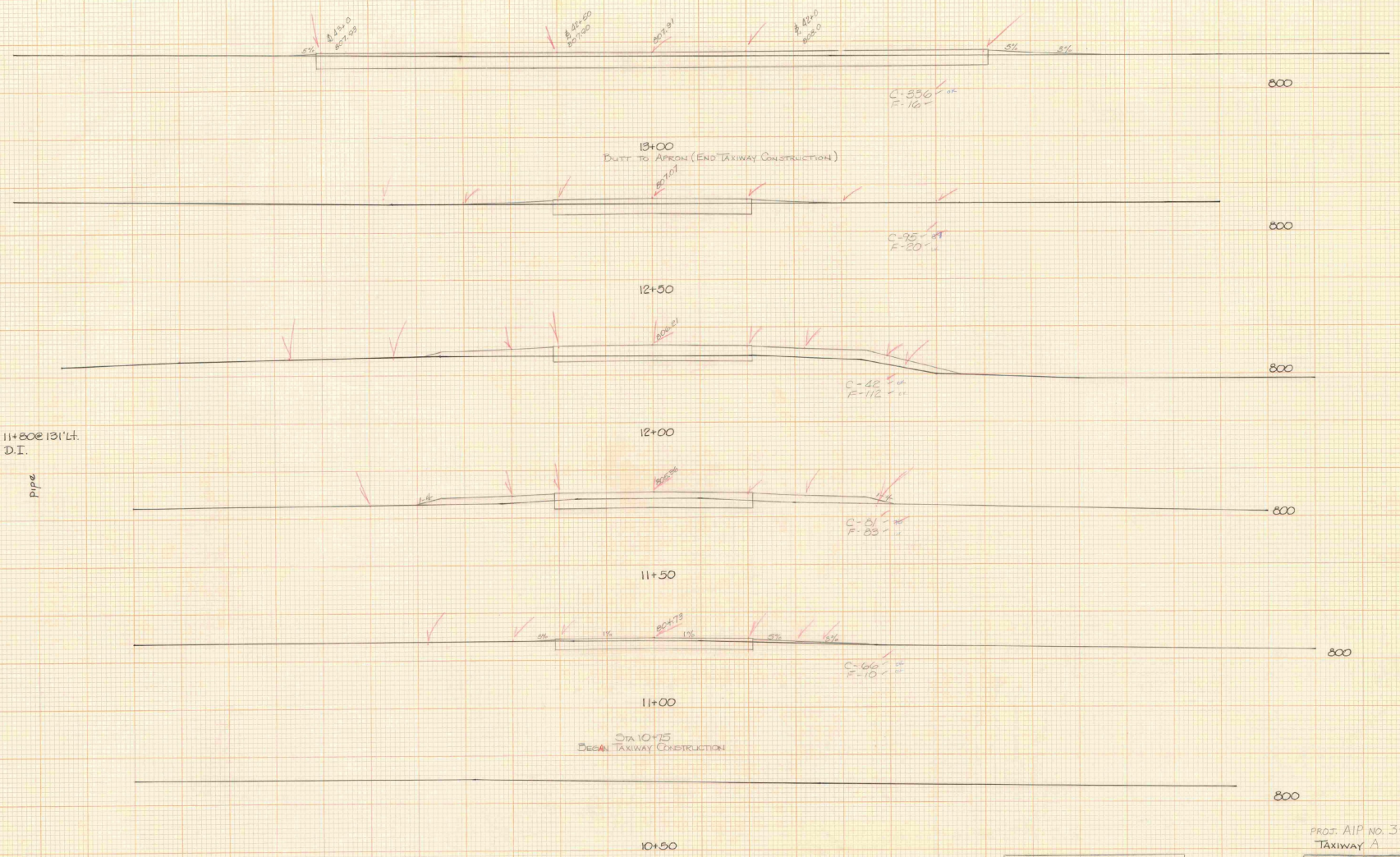
AS BUILT PLANS

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

By Helen E. Blanchard Resident Engineer

Date 2/9/87

KUFFEL & ESSER CO.



AS BUILT PLANS

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

By Nelson E. Blanchard Resident Engineer

Date 2/4/80

PROJ. AIP NO. 3-50-0003-01

TAXIWAY A

STA. 10+80 STA. 13+00

TOWN DENNINGTON STATE AIRPORT

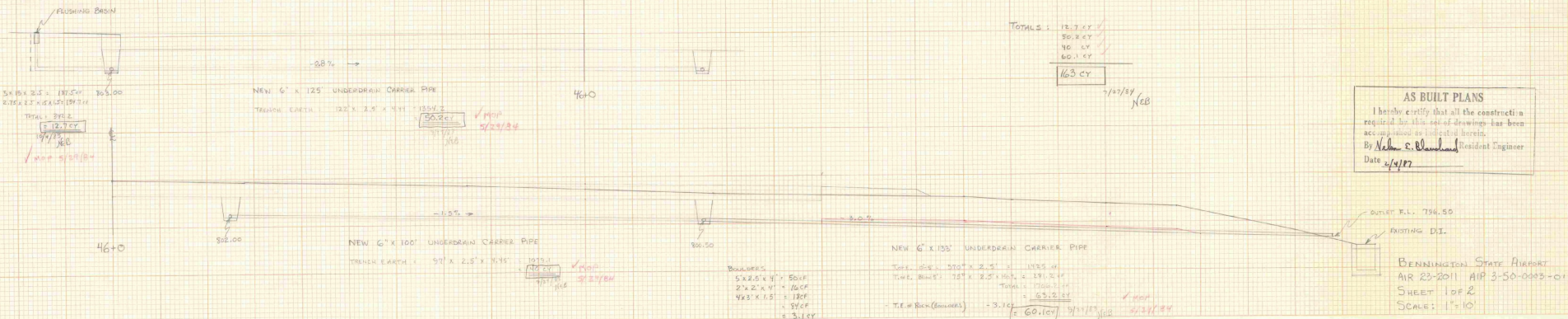
PROJECT AIR NO. 23-2011

SHEET 15 OF 15 SHEETS

HORIZ. AND VERT. SCALE

0 10 20

SURVEYED BY: DATE



AS BUILT PLANS

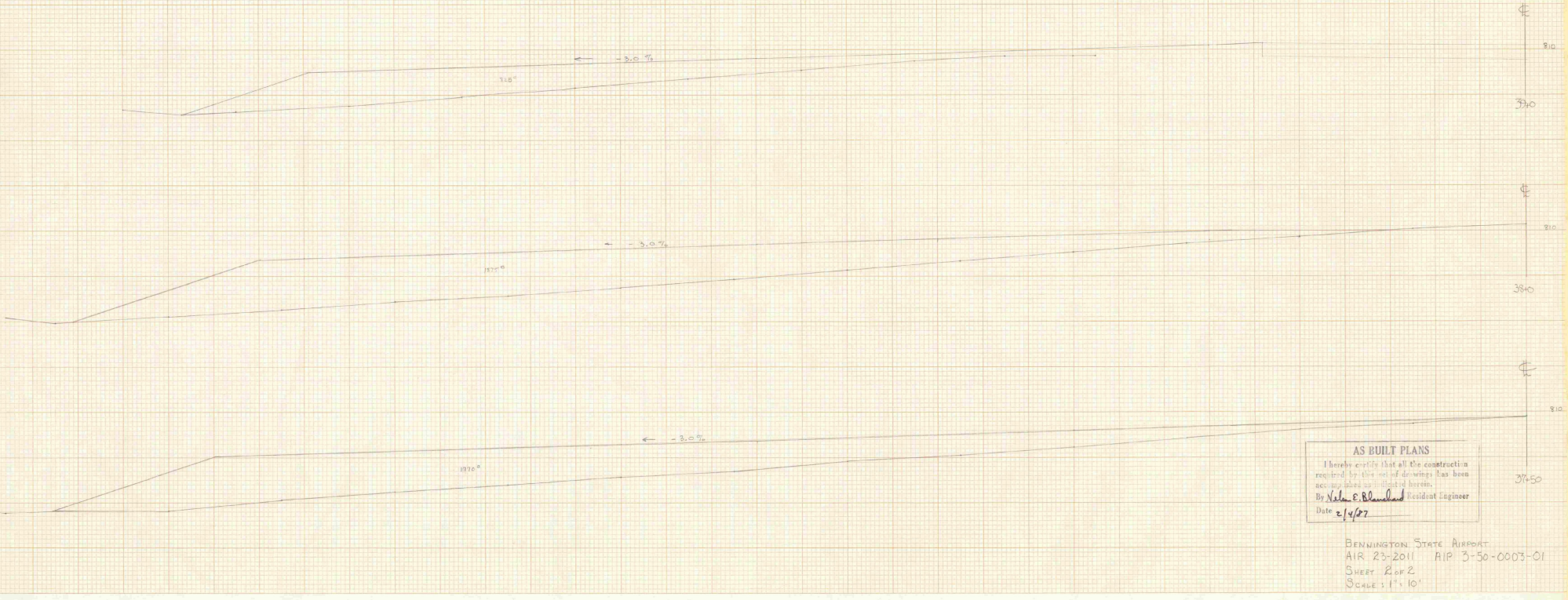
I hereby certify that all the construction required for this set of drawings has been accomplished as indicated herein.

By Nelson E. Blanchard Resident Engineer

Date 4/4/87

BENNINGTON STATE AIRPORT
AIR 23-2011 AIP 3-50-0043-01
SHEET 1 OF 2
SCALE: 1"=10'

K+E STANDARD © CROSS SECTION
KEUFFEL & ESSER CO
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AS BUILT PLANS

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

By Nelson E. Blanchard Resident Engineer

Date 2/4/87

BENNINGTON STATE AIRPORT
AIR 23-2011 AIP 3-50-0003-01
SHEET 2 OF 2
SCALE: 1" = 10'

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Vermont Agency of
Transportation
Phase III- Interstate
#090303-01

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BENNINGTON VERMONT AGENCY OF TRANSPORTATION
PLANNING DIVISION