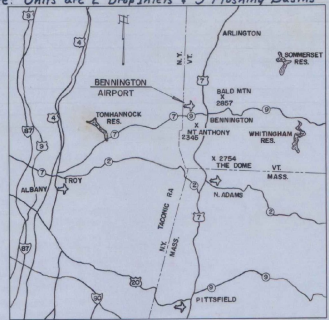


ESTIMATED QUANTITIES

ITEM NO.	ITEM	QUANTITY
1	CLEARING	6 acres
2	CLEARING OF ISOLATED TREES (0'-30')	101 ea. 14 ea.
3	CLEARING OF ISOLATED TREE (30'-60')	14 ea. 12 ea.
4	CLEARING AND GRUBBING	1 acre
5	COMMON EXCAVATION	49,000 C.Y.
6	SOLID ROCK EXCAVATION	1,000 C.Y. 1,154 cy
7	BORROW EXCAVATION	38,000 C.Y. 51,880 cy
8	SUBBASE COURSE	4,925 C.Y. 4,955 cy
9	AGGREGATE BASE COURSE	2,600 C.Y. 2,500 cy
10	AGGREGATE BIT. SURFACE COURSE	2,550 tons 2,464.3 tons
11	BITUMINOUS PRIME COAT	14,000 gals. 11,622 gals
12	RUNWAY AND TAXIWAY PAINTING	1 L.S.
13	FENCE, CLASS B	3,000 lf.
14	DRIVEWAY GATES	2 ea.
15	18" BIT COATED CULVERT PIPE	700 lf.
16	8" PERF. CORR. UNDERDRAIN PIPE	1,650 lf.
17	6" PERF. CORR. UNDERDRAIN PIPE	5,650 lf. 5,401 lf.
18	POROUS BACKFILL NO. 1	4,150 C.Y.
19	UNITS OF CORRUGATED METAL STRUCT.	11 ea.
20	UNCLASSIFIED EXCAVATION FOR STRUCT.	10 C.Y.
21	STRUCTURE CONCRETE	5 C.Y.
22	REINFORCED STEEL	100 lb.
23	PREPARING GROUND SURFACE	26 acres
24	LIMING	26 acres
25	FERTILIZING	26 acres
26	SOWING SEED	26 acres
27	MOWING	78 acres
28	REFERTILIZING	26 acres
29	RESEEDING	12 acres
30	REPAIRING	100 C.Y. 0 acres
31	TOPSOILING	5,250 C.Y. 260 cy
32	MULCHING	26 acres
33	SINGLEWAY UNDERGROUND ELEC. DUCT.	356 lf.
34	RIP-RAP	25 C.Y.
35	DEMOLITION AND DISPOSAL OF BUILDINGS	1 L.S.

Note Below Units are 2 Drop Inlets & 9 Flushing Basins



LOCATION MAP SCALE IN MILES

PLANS FOR
CONSTRUCTION OF AIRPORT RUNWAY
AND
REMOVAL OF OBSTRUCTIONS
BENNINGTON MUNICIPAL AIRPORT
BENNINGTON, VERMONT

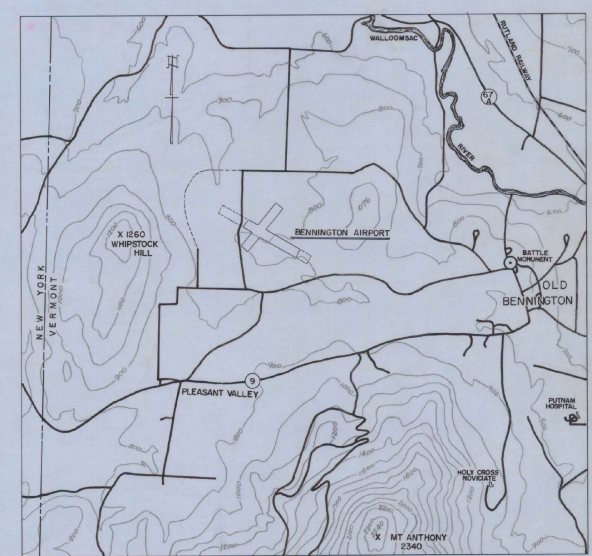
"As Built" Plans

PROJECT NO. 9-43-001-C802

SEPTEMBER-1967

INDEX TO CONTRACT DRAWINGS
SHEET NO. TITLE

1	TITLE SHEET, INDEX AND SUMMARY OF QUANTITIES
2	AIRPORT PLAN DETAILS
3-5	DRAINAGE AND GRADING PLANS
6	RUNWAY CENTERLINE PROFILE
7	SOIL INFORMATION AND RUNWAY MARKING DETAILS
8-9	TYPICAL SECTIONS, STANDARDS AND DETAIL



VICINITY MAP SCALE IN FEET

These plans represent the as built facility to the best of our knowledge. August 11, 1967

FEDERAL AVIATION ADMIN.
APPROVED _____ DATE _____

CHIEF AIRPORTS BRANCH

VERMONT AERONAUTICS BOARD
APPROVED _____ DATE _____ TITLE _____

COMMISSIONER

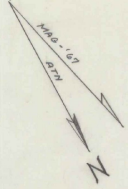
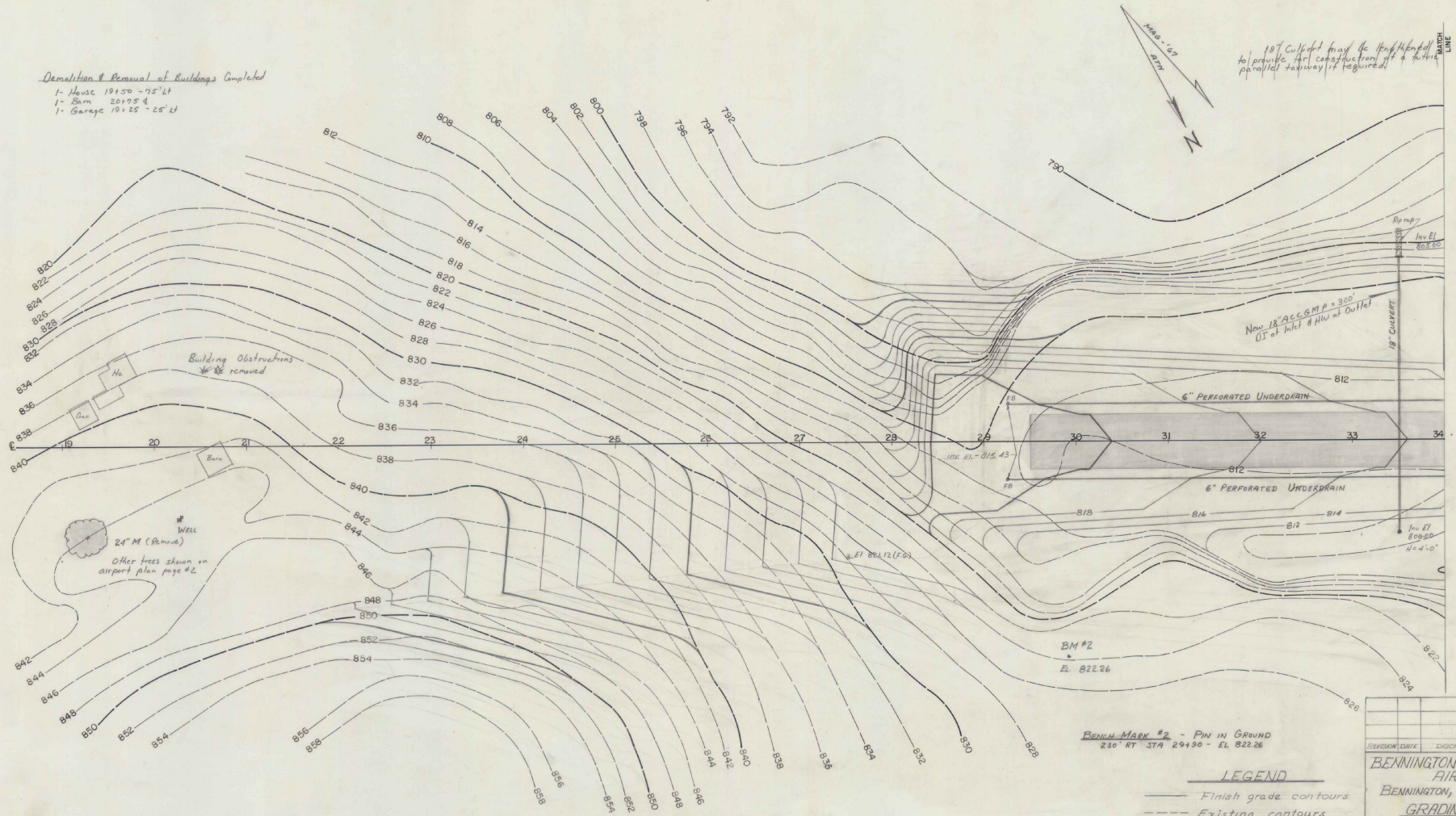
ENGINEER

TOWN OF BENNINGTON
APPROVED _____ DATE _____ AUTHORITY _____
William H. Morse 8/15/67 CHAIRMAN
AIRPORT COMMISSION
Louis F. Smith 8/15/67 CHAIRMAN
BOARD OF SELECTMEN

PREPARED BY
CADIZ CONSULTANTS, INC.
CONSULTING ENGINEERS & SURVEYORS
BENNINGTON, VERMONT

Demolition & Removal of Buildings Completed

- 1- House 191.50 - 75' LT
- 1- Barn 201.95 d
- 1- Garage 191.25 - 25' LT



18" Culvert may be extended to provide for construction of a future parallel runway if required.

Now 18" ALUMINUM 300' DI at Inlet & 110' at Outlet

BM #2
E. 822.26

BENCHMARK #2 - PIN IN GROUND
230' RT STA 29+90 - EL 822.26

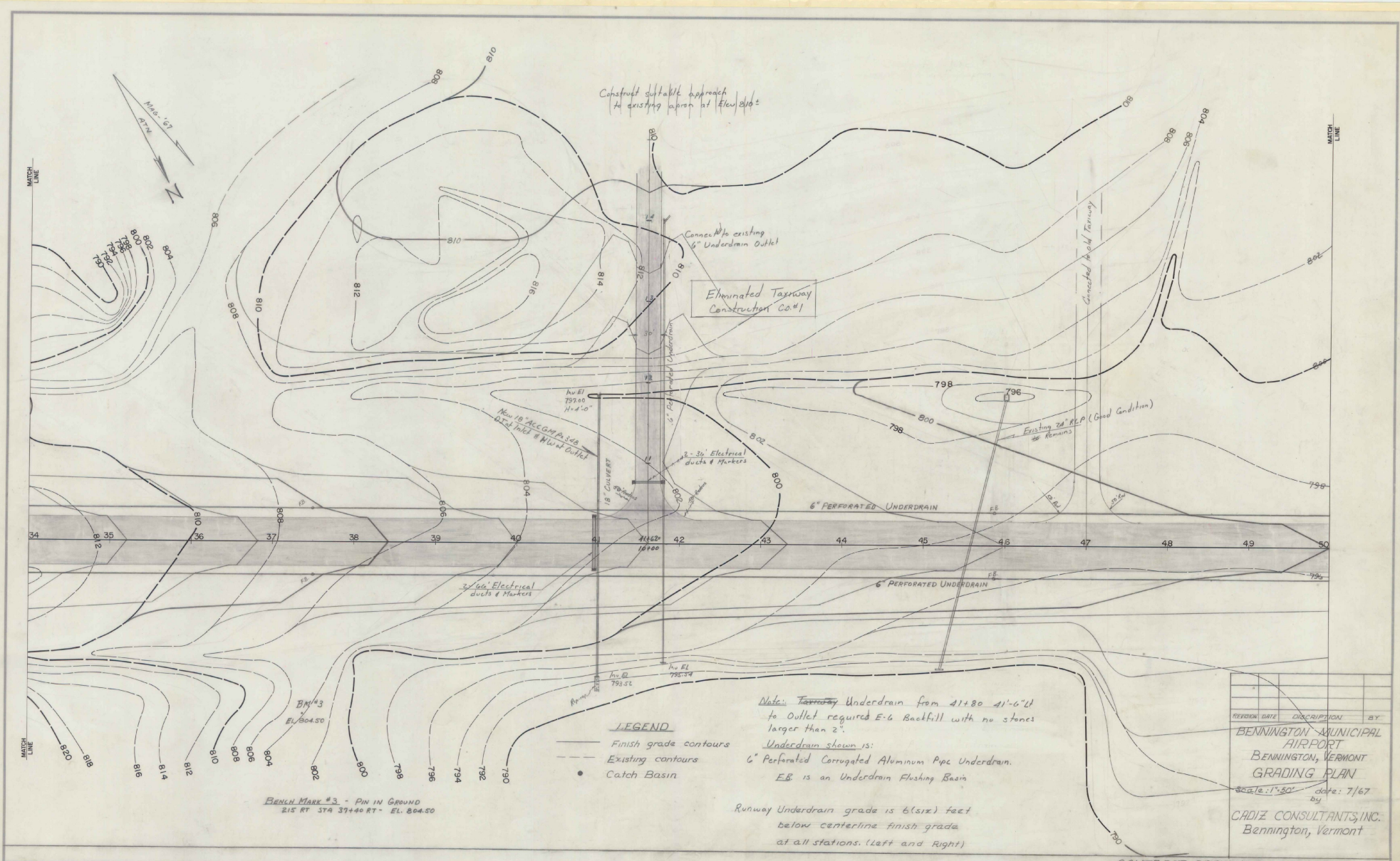
- LEGEND**
- Finish grade contours
 - - - Existing contours
 - ▭ Catch basin
 - Individual tree

Underdrain grade is 6 (six) feet below centerline finish grade at all stations. (Left and Right)

Underdrain shown is 6" Perforated Corrugated Aluminum Pipe Underdrain

F.B. is an Underdrain Flushing Basin

DIVISION	DATE	DESCRIPTION	BY
BENNINGTON MUNICIPAL AIRPORT			
BENNINGTON, VERMONT			
GRADING PLAN			
Scale: 1"=50' date: 7/67			
by CADIZ CONSULTANTS, INC. Bennington, Vermont			



Construct suitable approach
to existing apron at Elev 810±

Eliminated Taxiway
Construction Co #1

New 12' ACCORP 300
D.I.T. Inlet & Manual Outlet

- LEGEND**
- Finish grade contours
 - - - Existing contours
 - Catch Basin

Note: Taxiway Underdrain from 41+80 41-6' to
to Outlet required E-6 Backfill with no stones
larger than 2".
Underdrain shown is:
6" Perforated Corrugated Aluminum Pipe Underdrain.
E.B. is an Underdrain Flushing Basin

Runway Underdrain grade is 6'(six) feet
below centerline finish grade
at all stations. (Left and Right)

BENCH MARK #3 - PIN IN GROUND
215 RT 374 37+40 RT - EL. 804.50

REVISION DATE	DESCRIPTION	BY
	BENNINGTON MUNICIPAL AIRPORT GRADING PLAN	
	BENNINGTON, VERMONT	
	scale: 1"=50'	date: 7/67
	CADIZ CONSULTANTS, INC. Bennington, Vermont	

BENCH MARK #5 - PIN IN GROUND
200' LT STA 51+00 - EL 798.81

BENCH MARK #6 - POINT ON ROCK
125' LT STA 62+00 - EL 785.74

Existing Pavement ~~W/~~ removed
to the airport property line.

Removed Pav't
P-15L

B.M. #6
ELEV 785.74

B.M. #5
ELEV 798.81

2-6" Electrical
ducts & Markers
798

6" Perforated Underdrain

8" Perforated Underdrain

6" Perforated Underdrain

8" Perforated Underdrain

Removed Pav't
P-15L

LEGEND

- Finish grade contours
- - - Existing contours
- Catch basin

Underdrain shown is
6" & 8" Perforated Corrugated Aluminum
Pipe Underdrain

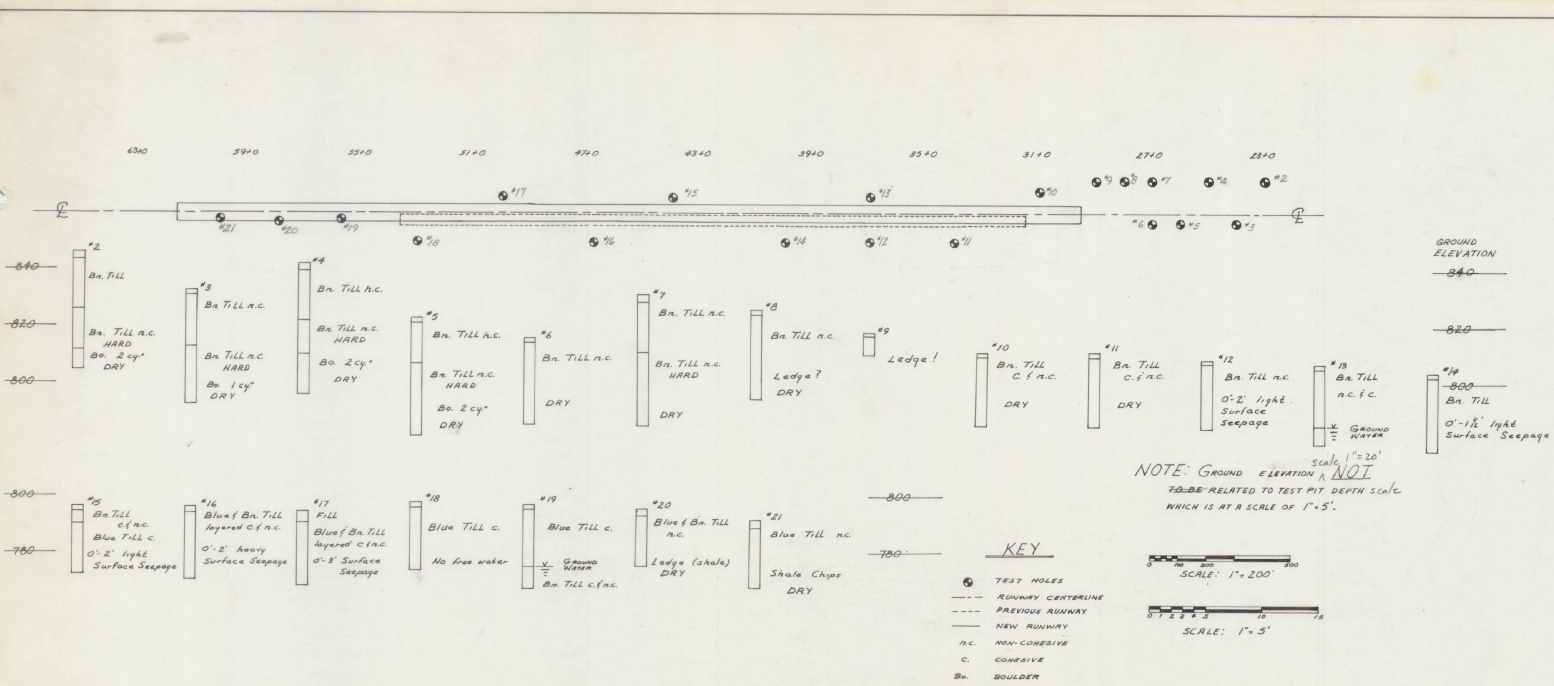
Existing Pavement ~~W/~~ removed
to the airport property line.

Underdrain grade is 6 (six) feet
below centerline finish grade
at all stations. (Left and Right)

E.B. is an Underdrain Flushing Basin

REVISION DATE	DISCREPTION	BY
	BENNINGTON MUNICIPAL AIRPORT GRADING PLAN	
	CADIZ CONSULTANTS, INC. Bennington, Vermont	

scale: 1"=50' date: 7/67



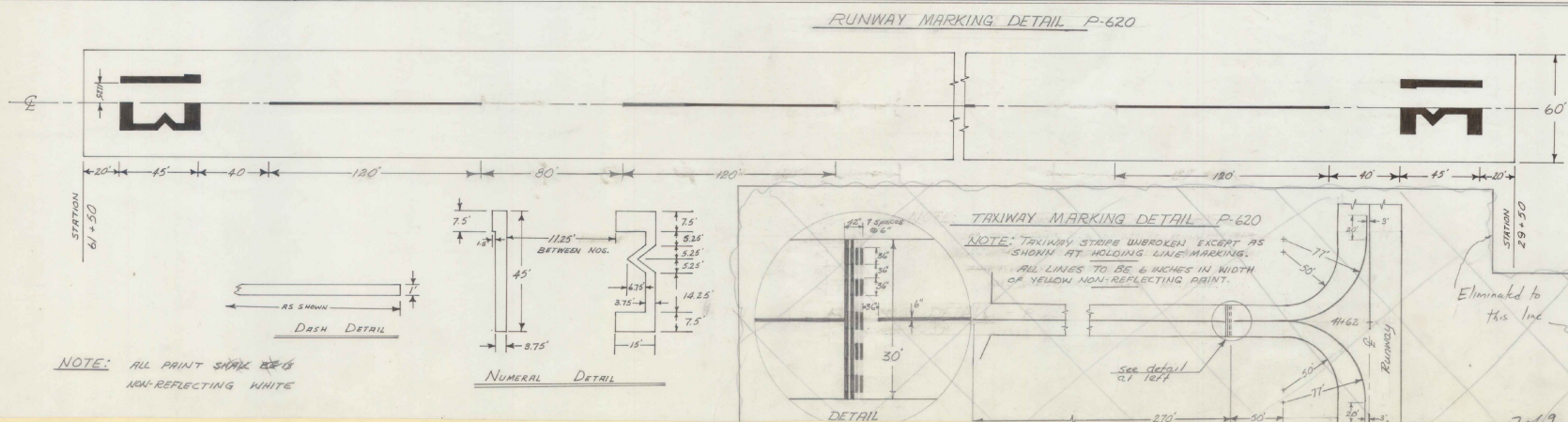
GRADATION TESTS

CHARACTERISTIC	PIT NUMBER				
	5	7	8	16	18
PROSPECTIVE USE	B	B	B	3.G.	3.G.
PROBABLE QUANTITY REPRESENTED (cu)	20000	20000	20000	40' x 40' x 100'	40' x 40' x 100'
DEPTH REPRESENTED (feet)	1'-8"	1'-10"	1'-8"	1'-3"	1'-3"
LIQUID LIMIT	26	32	28	27	25
PLASTIC LIMIT	19	19	19	14	23
PLASTICITY INDEX	7	13	9	13	2

SIEVE ANALYSIS	PERCENT PASSING				
	1 1/2"	1"	3/4"	3/8"	3/16"
1 1/2"					100
1"			100	100	79.3
3/4"		100	100	87.0	78.3
3/8"		92.3	90.7	82.7	59.3
3/16"	96.0	86.0	78.4	57.6	8.94
#10	85.3	79.7	72.7	43.3	8.40
#40	75.0	67.3	63.3	29.7	7.60
#100	68.7	59.7	56.0	21.7	6.80
#200	62.7	55.7	53.7	18.0	6.40
TEXTURAL CLASSIFICATION	E-6	E-7	E-6	E-5	E-6

Symbols: B = BORROW
3.G. = SUBGRADE

NOTE: THE GEOLOGY OF THE AIRPORT AREA IS A GLACIAL TILL OVER LIMESTONE AND SHALE BEDROCK.
THE TILL IS GENERALLY AN E-6 SOIL.



NOTE: DASHED LINE EXTENDS THE FULL CENTERLINE OF THE RUNWAY, WITH THE DASHES BEING 120' AND THE SPACES 80', EXCEPT THE 7TH AND 9TH DASH FROM EITHER END SHALL BE 155'.

REVISION	DATE	DESCRIPTION	BY

BENNINGTON MUNICIPAL AIRPORT
Bennington, Vermont

TEST PITS AND SOIL TESTS
RUNWAY MARKING DETAILS

CADIZ CONSULTANTS, Inc.
BENNINGTON, VERMONT

SCALE: as shown DATE: 3 / 67

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
1	Sub-base of Gravel	6450 CY
2	Gravel Base Course	1965 CY
3	Tack Coat Type I B	14,700 GAL.
4	Bituminous Concrete Pavement	10 TONS
5	12" A.C.C.G.M.P.	96 L.F.
6	15" A.C.C.G.M.P.	18 L.F.
7	18" A.C.C.G.M.P.	254 L.F.
8	24" A.C.C.G.M.P.	80 L.F.
9	ACCGMP Arch 3' x 50"	40 L.F.
10	ACCGMP Arch 40" x 65"	50 L.F.
11	6" Perf. Corr. Alum. Alloy Pipe (Estimated)	300 L.F.
12	Drop Inlet, Type III	1 EA.
13	Wood Guide Post	16 EA.

INDEX TO DRAWINGS

SHEET NO.	TITLE
1	TITLE SHEET, INDEX AND SUMMARY OF QUANTITIES
2-6	PLAN AND PROFILE
7-12	CROSS-SECTIONS
13	TYPICAL SECTIONS AND DETAILS

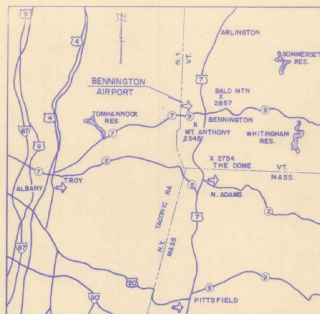
PLANS FOR CONSTRUCTION
OF THE
WHIPSTOCK CONNECTION

BENNINGTON, VERMONT

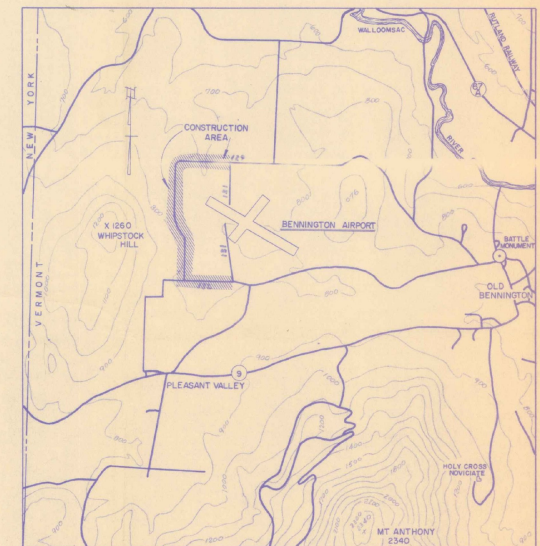
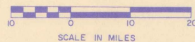
"As Built" Plans
as of February 1970

*The Attached plans are not "As Built"
but construction plans. "As Built"
plans for this Force Account work
were waived by Bos-600 on
16 March 1970*
MB/CRM

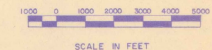
PROJECT NO. FORCE ACCOUNT (9-43-001-C802)



LOCATION MAP



VICINITY MAP



FEBRUARY, 1968

These plans were prepared for the Town of Bennington at the request of the VAB and the FAA and built under the supervision of the Towns Road Commissioner. Daniel J. Gandy Area 2/22/70

FEDERAL AVIATION ADMIN.

APPROVED _____ DATE _____
CHIEF AIRPORTS BRANCH

VERMONT AERONAUTICS BD.

APPROVED _____ DATE _____ TITLE _____
[Signature] 4/4/68 COMMISSIONER
[Signature] 1/5/68 ENGINEER

VERMONT HIGHWAY DEPT.

APPROVED _____ DATE _____ TITLE _____
[Signature] 3/13/68 DISTRICT ENGINEER

TOWN OF BENNINGTON

APPROVED _____ DATE _____ AUTHORITY _____
[Signature] 3/13/68 CHAIRMAN AIRPORT COMMISSION
[Signature] 4/1/68 CHAIRMAN BOARD OF SELECTMEN

CADIZ CONSULTANTS, INC.

CONSULTING ENGINEERS AND SURVEYORS
BENNINGTON, VERMONT

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
1	Sub-base of Gravel	6450 CY
2	Gravel Base Course	1965 CY
3	Tack Coat Type I B	14,700 GAL.
4	Bituminous Concrete Pavement	10 TONS
5	12" A.C.C.G.M.P.	96 LF
6	15" A.C.C.G.M.P.	18 LF
7	18" A.C.C.G.M.P.	254 LF
8	24" A.C.C.G.M.P.	80 LF
9	ACCGMP Arch 36" x 50"	40 LF
10	ACCGMP Arch 40" x 65"	50 LF
11	6" Perf. Corr. Alum. Alloy Pipe (Estimated)	300 LF
12	Drop Inlet, Type III	1 EA.
13	Wood Guide Post	16 EA.

125-657
See Preliminary Plans for X Sections

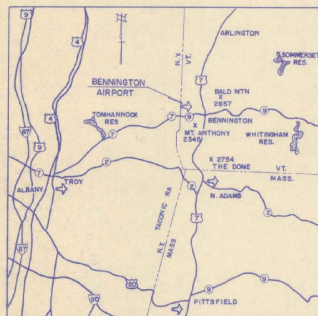
INDEX TO DRAWINGS

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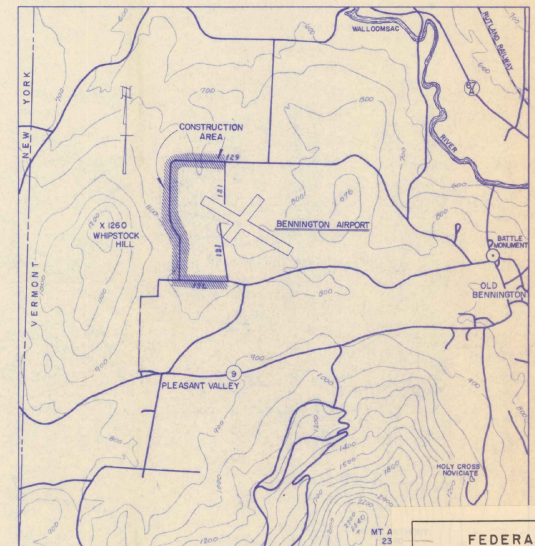
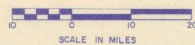
PLANS FOR CONSTRUCTION
OF THE
WHIPSTOCK CONNECTION

BENNINGTON, VERMONT

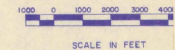
PROJECT NO. FORCE ACCOUNT (9-43-001-C802)



LOCATION MAP



VICINITY MAP



FEDERAL AIRPORT PROGRAM
Bennington Municipal Airport
PROJECT DOCUMENT
Bennington, Vermont
This Material is An Official Part Of Grant Agreement
Project No. 9-43-001-C802
Construct Whipstock Connector.
EA Form 5100-2 (3-66) (Replaces EA Form 2410 which may be used)

FEBRUARY, 1968

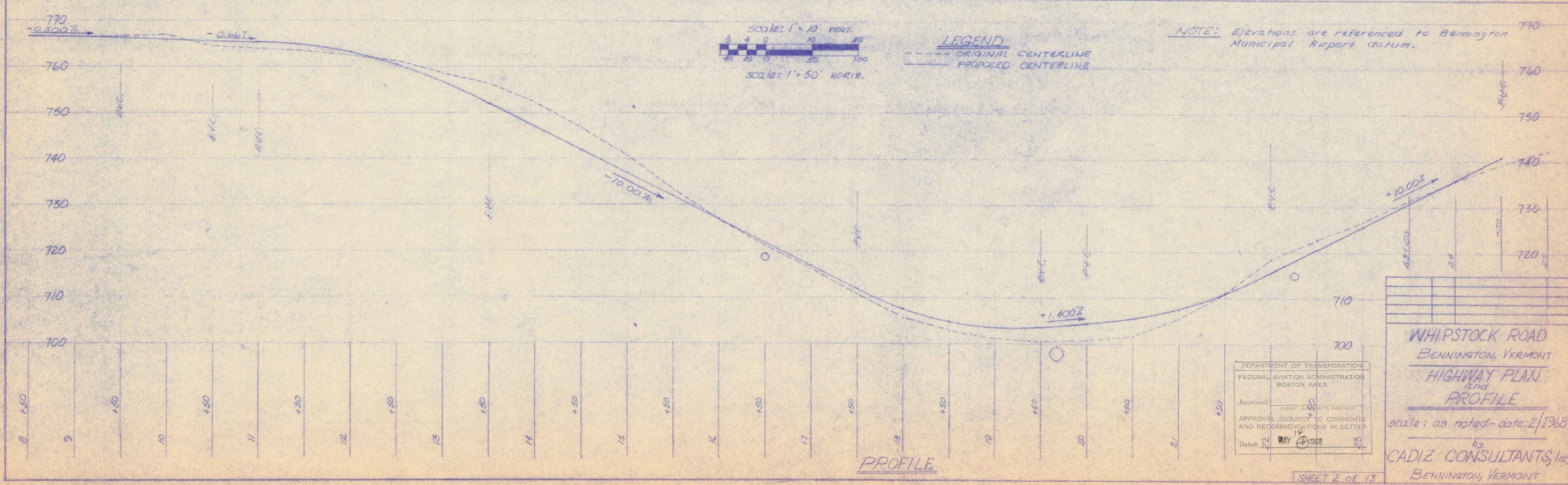
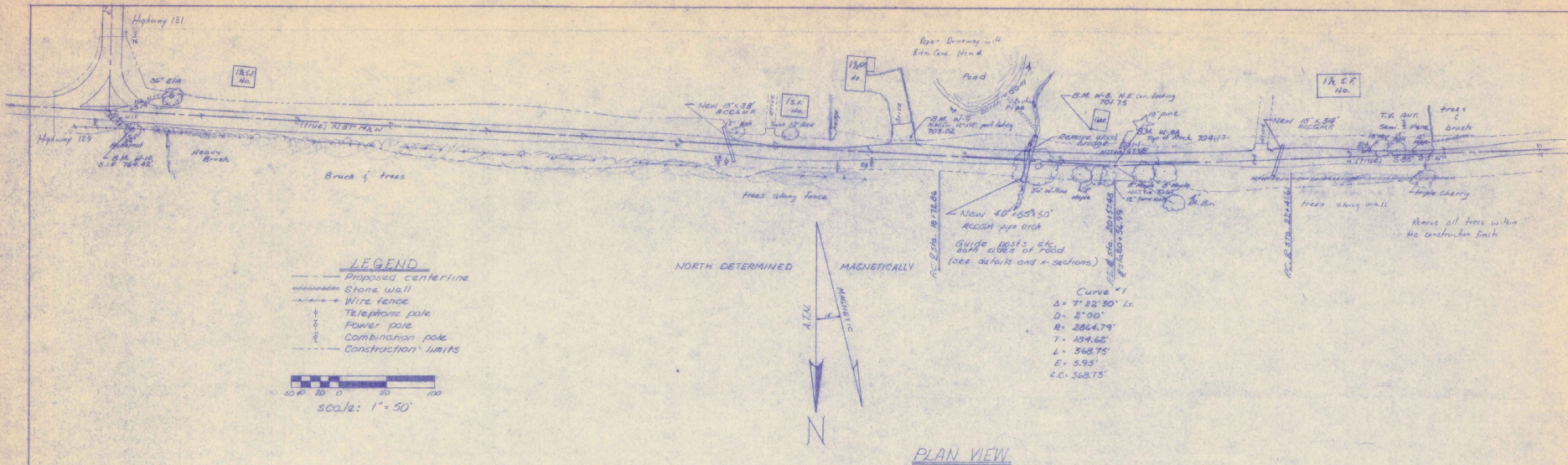
FEDERAL AVIATION ADMIN.
APPROVED _____ DATE _____
[Signature] MAY 16 1968
CHIEF AIRPORTS BRANCH

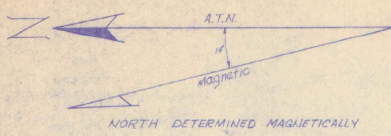
VERMONT AERONAUTICS BD.
APPROVED _____ DATE _____ TITLE _____
COMMISSIONER
[Signature] 1/5/68
ENGINEER

VERMONT HIGHWAY DEPT.
APPROVED _____ DATE _____ TITLE _____
DISTRICT ENGINEER
[Signature] 3/12/68

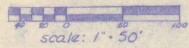
TOWN OF BENNINGTON
APPROVED _____ DATE _____ AUTHORITY _____
CHAIRMAN AIRPORT COMMISSION
[Signature] 3/13/68
CHAIRMAN BOARD OF SELECTMEN
[Signature] 4/12/68

CADIZ CONSULTANTS, INC.
CONSULTING ENGINEERS AND SURVEYORS
BENNINGTON, VERMONT





Curve #4
 $\Delta = 3^{\circ} 40' 00''$ Lt.
 $D = 2^{\circ} 00' 00''$
 $R = 2864.79'$
 $T = 91.70'$
 $L = 183.34'$
 $E = 1.46'$
 $LC = 183.39'$

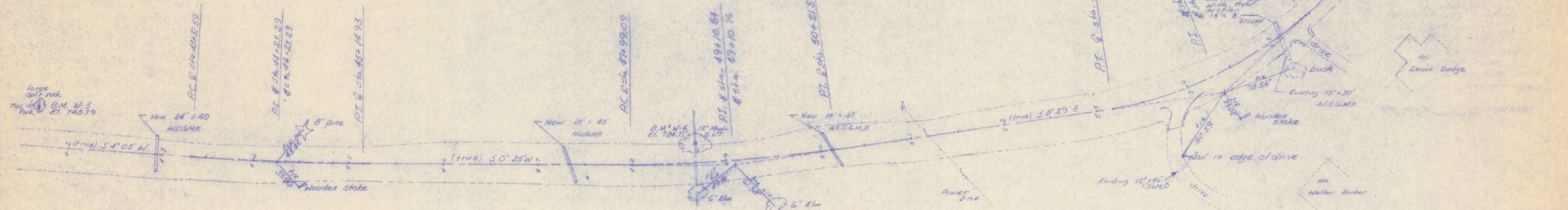


Curve #5
 $\Delta = 8^{\circ} 54' 00''$ Lt.
 $D = 4^{\circ} 00' 00''$
 $R = 1432.39'$
 $T = 111.45'$
 $L = 222.50'$
 $E = 4.32'$
 $LC = 222.28'$

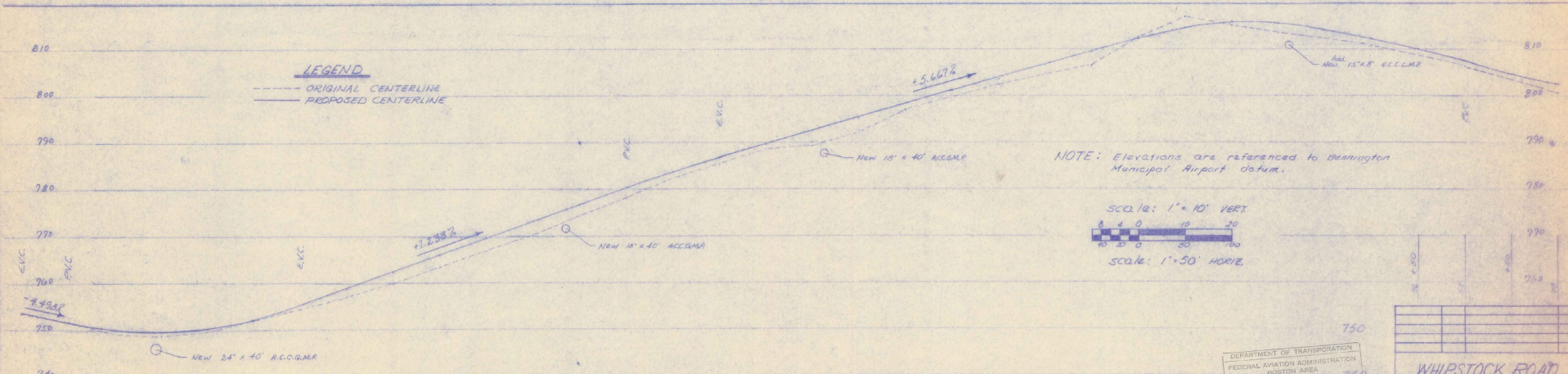
LEGEND

- Proposed centerline
- Stone wall
- Wire fence
- Telephone pole
- Power pole
- Combination pole
- Construction limits

Curve #6
 $\Delta = 34^{\circ} 35' 00''$ Lt.
 $D = 15^{\circ} 00' 00''$ (Superelevate $\frac{1}{16}$ ft.)
 $R = 381.97'$
 $T = 118.91'$
 $L = 230.56'$
 $E = 18.08'$
 $LC = 227.06'$



PLAN VIEW

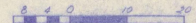


LEGEND

- ORIGINAL CENTERLINE
- PROPOSED CENTERLINE

NOTE: Elevations are referenced to Bennington Municipal Airport datum.

scale: 1" = 10' VERT



scale: 1" = 50' HORIZ

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION BOSTON AREA		740
Approved:	BY: [Signature]	740
APPROVAL SUBJECT TO CIVIL ENGINEER AND RECOMMENDATIONS IN LETTERS		750
Date:	MAY 8 1968	750

750

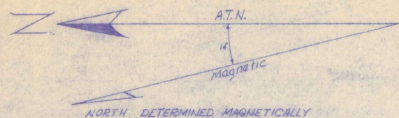
WHIPSTOCK ROAD
 BENNINGTON, VERMONT
 HIGHWAY PLAN
 PROFILE
 scale: as noted, date: 2/1968

CADIZ CONSULTANTS, Inc.
 BENNINGTON, VERMONT

720

SHEET 1 OF 13

PROFILE

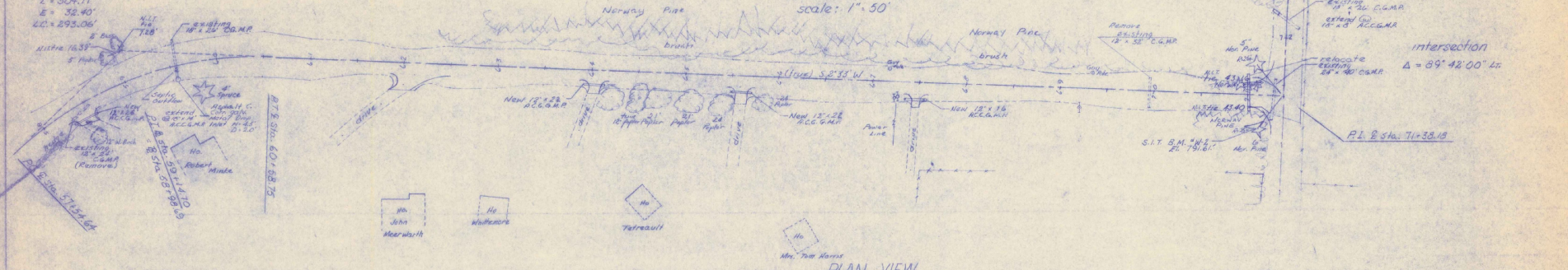
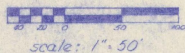


NORTH DETERMINED MAGNETICALLY

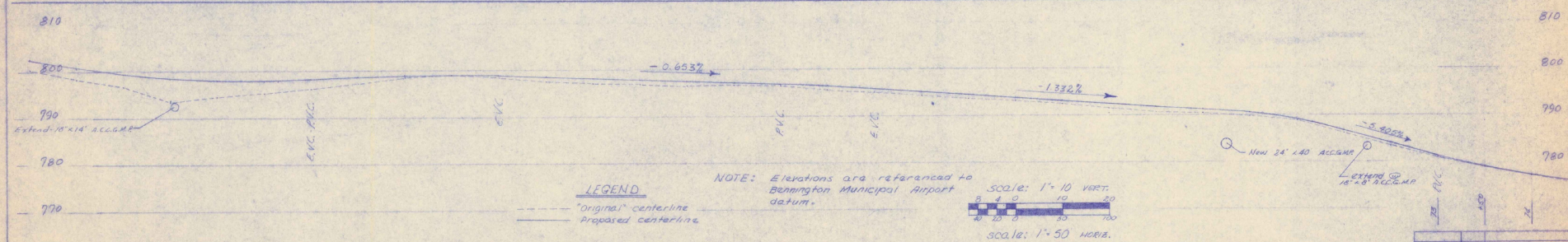
CURVE #7
 $\Delta = 45^{\circ} 37' 00''$ Rn
 $D = 18^{\circ} 00' 20''$
 $E = 391.97'$
 $T = 160.06'$ (Superelevate - $\frac{1}{2}$ Ant)
 $L = 304.11'$
 $E = 52.40'$
 $C.D. = 293.06'$

Repair 8th. Conc Drive w/ 4
 8' in Conc Mand

- LEGEND**
- Proposed centerline
 - Stone wall
 - Wire fence
 - Telephone pole
 - Power pole
 - Combination pole
 - Construction limits

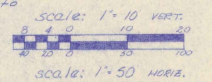


PLAN VIEW



- LEGEND**
- "Original" centerline
 - Proposed centerline

NOTE: Elevations are referenced to Bennington Municipal Airport datum.



PROFILE

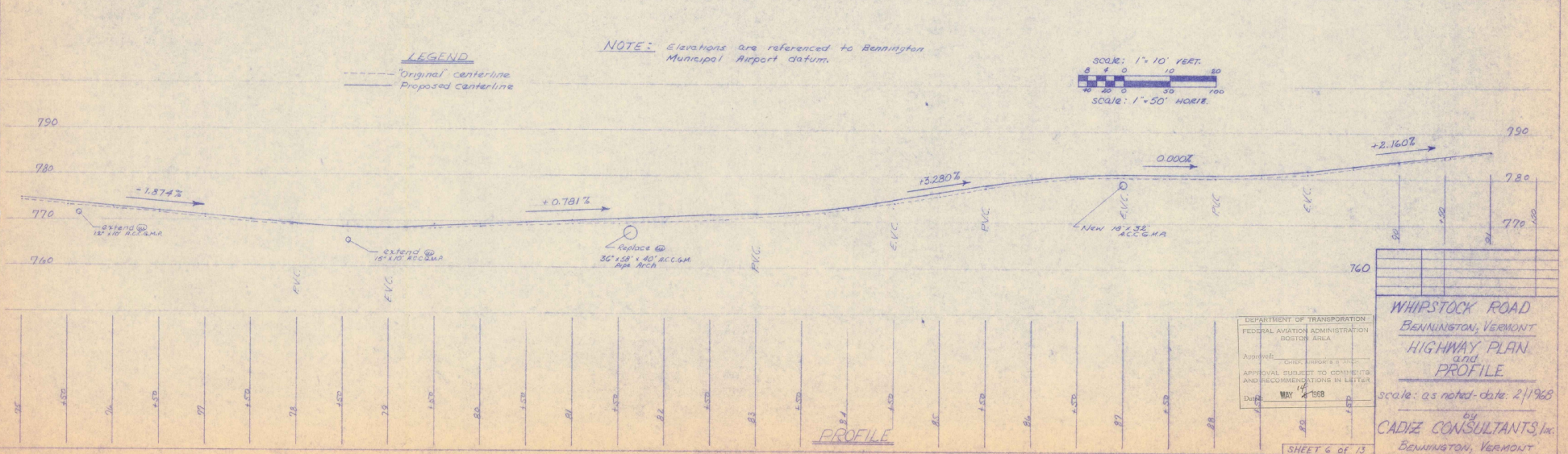
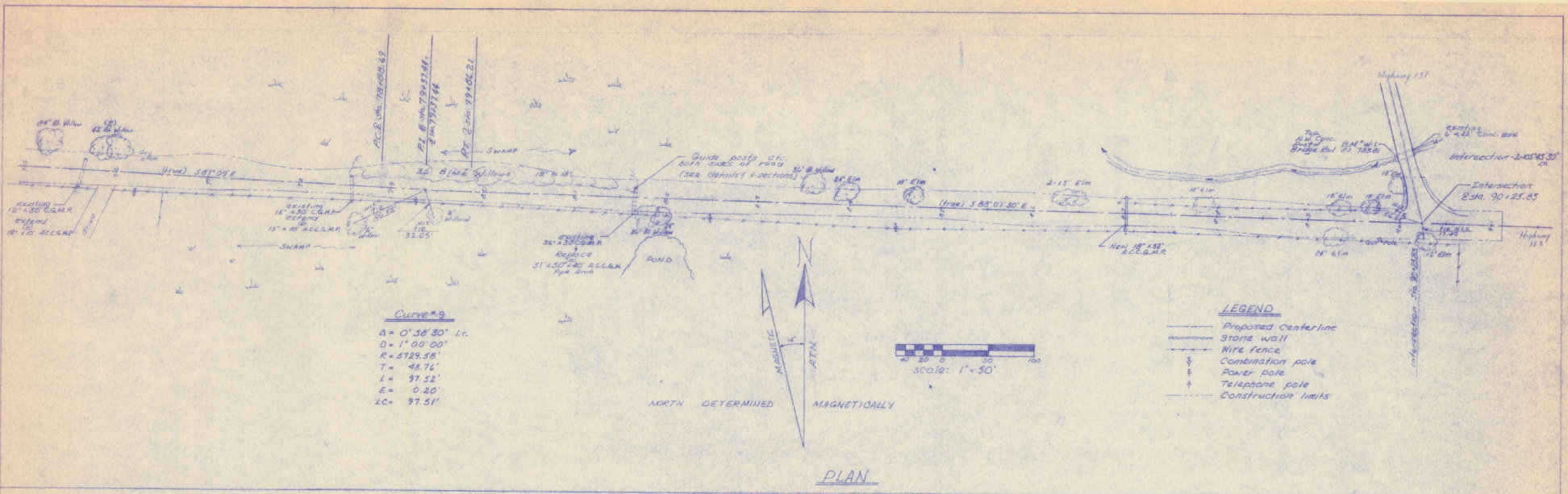
DEPARTMENT OF TRANSPORTATION
 FEDERAL AVIATION ADMINISTRATION
 BOSTON AREA

Approved: _____
 APPROVAL SUBJECT TO COMMENTS
 AND RECOMMENDATIONS IN LETTER
 14
 Date: MAY 8 1969

**WHIPSTOCK ROAD
 BENNINGTON, VERMONT
 HIGHWAY PLAN
 and
 PROFILE**

scales as noted date: 1/1968

CADIZ CONSULTANTS, Inc.
 BENNINGTON, VERMONT



DEPARTMENT OF TRANSPORTATION
 FEDERAL AVIATION ADMINISTRATION
 BOSTON AREA

Approved: _____
 APPROVAL SUBJECT TO COMMENTS AND RECOMMENDATIONS IN LETTER

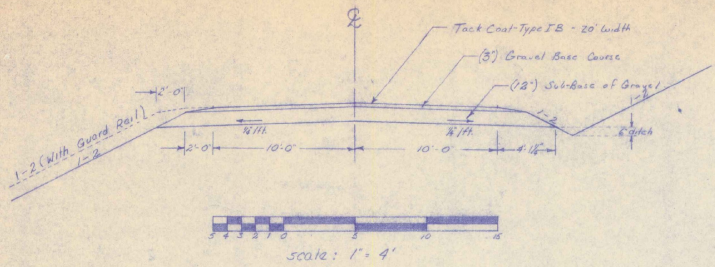
DATE: MAY 14 1968

SHEET 6 OF 13

WHIPSTOCK ROAD
BENNINGTON, VERMONT
HIGHWAY PLAN
AND
PROFILE

scale: as noted, date: 2/1968

by
CADIZ CONSULTANTS, INC.
 BENNINGTON, VERMONT

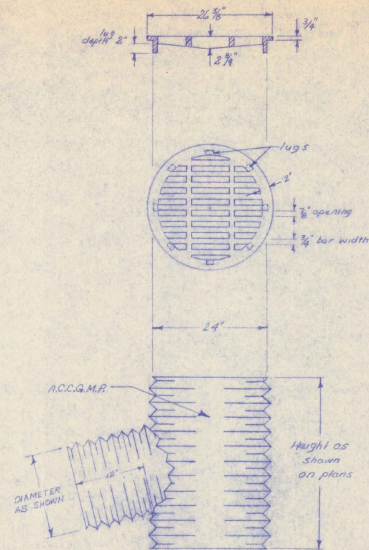


TYPICAL SECTION

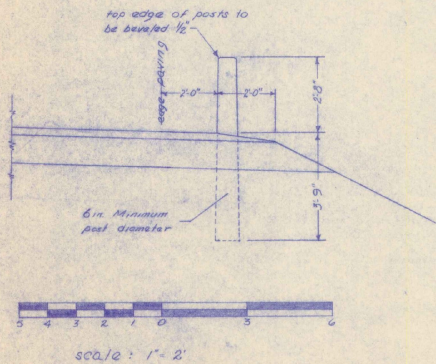
Station 10+00 - 90+23.83 (except as otherwise noted in the Cross Sections)

Drainage pipes are to be at least 18" below Sub-Base of Gravel.

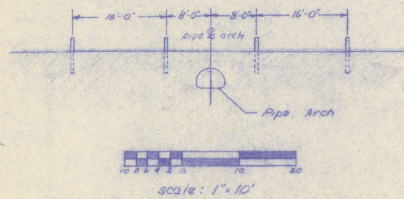
Asphalt Material to be applied to a width of 20 feet at the rate specified by the Supervisor



24" ACCG.M.P. DI WITH GRATE
Drop Inlet - Type III



WOOD GUIDE POST DETAIL

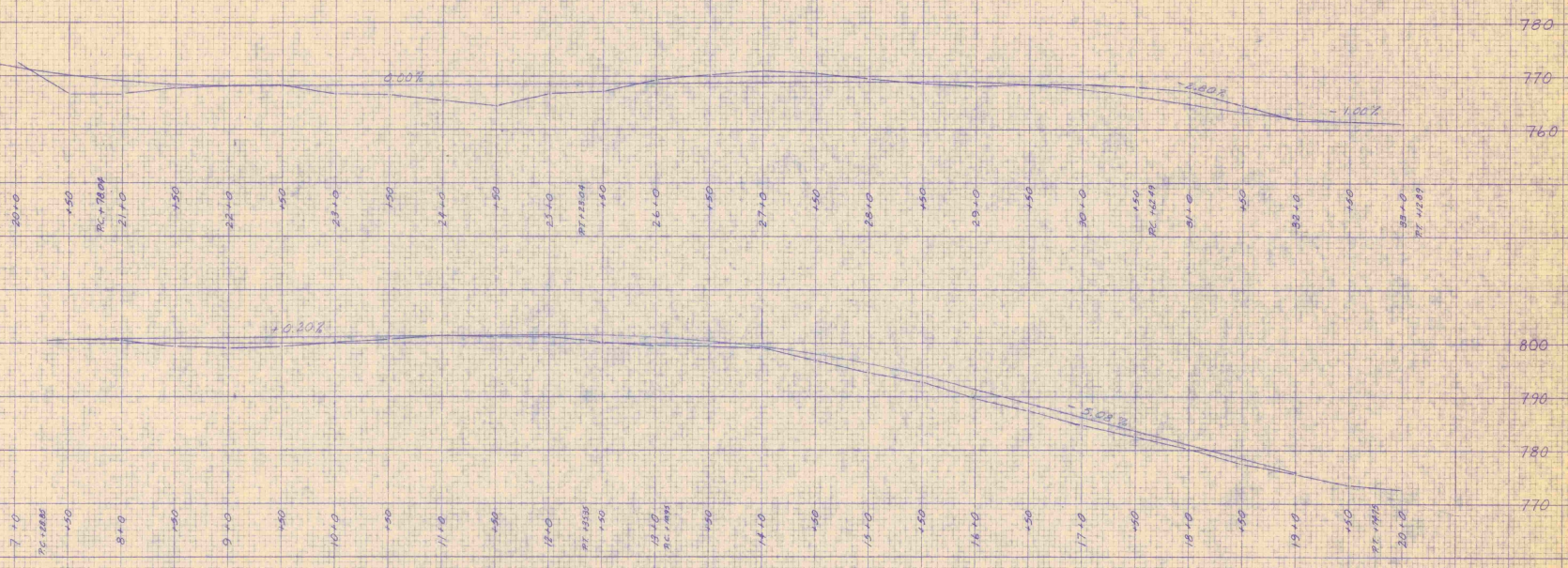


DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
BOSTON AREA

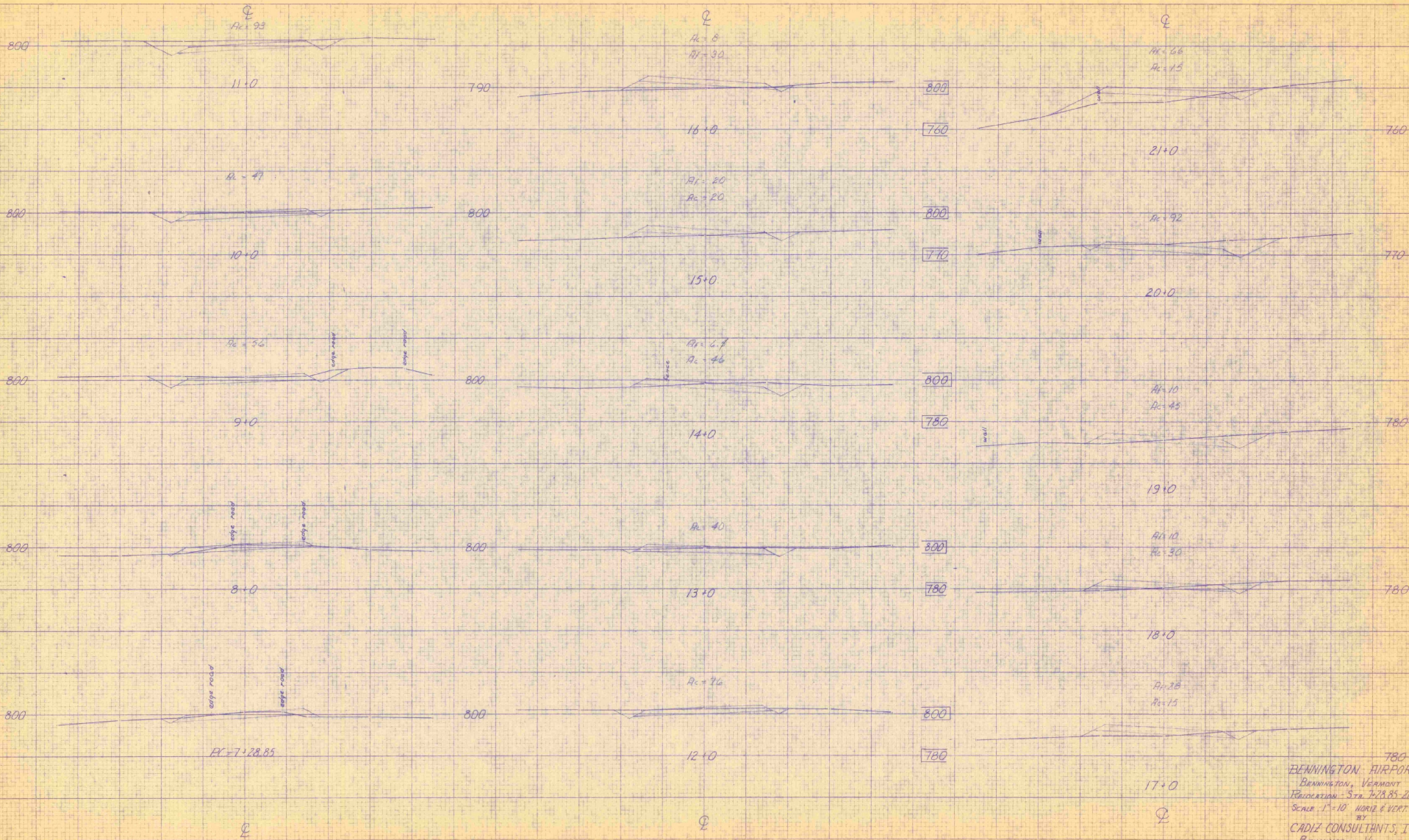
APPROVED: _____
APPROVAL SUBJECT TO COMMENTS AND RECOMMENDATIONS IN LETTER

Date: MAY 2 1968

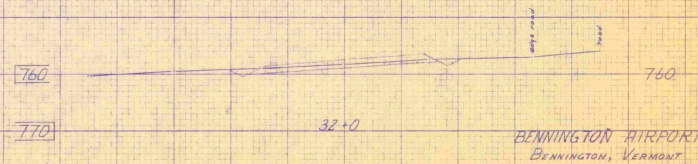
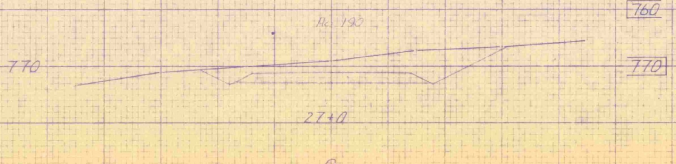
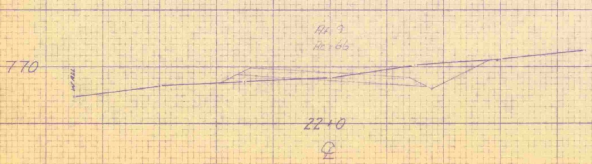
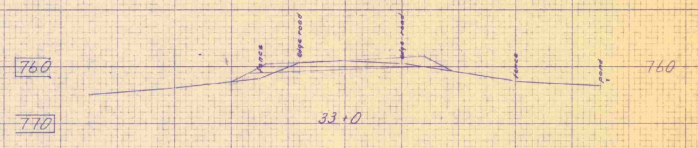
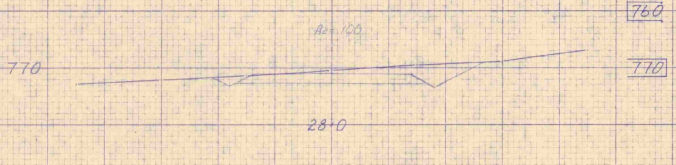
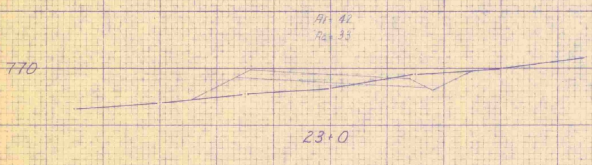
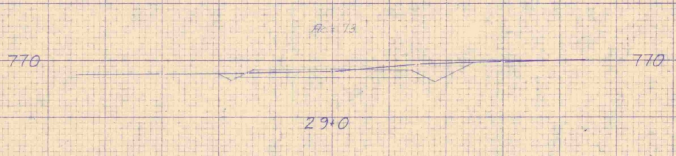
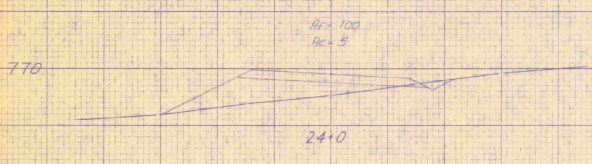
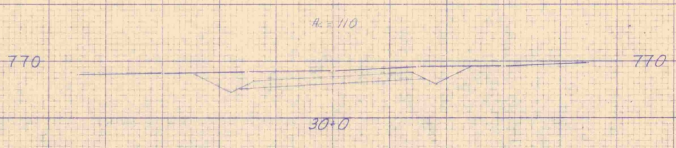
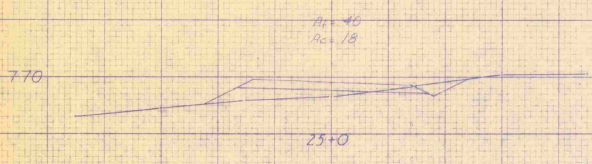
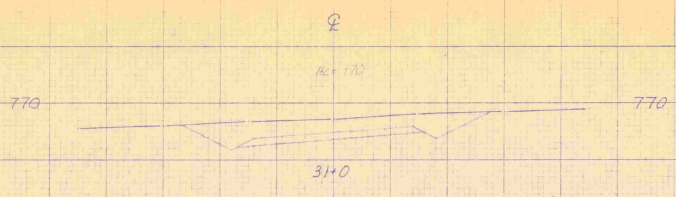
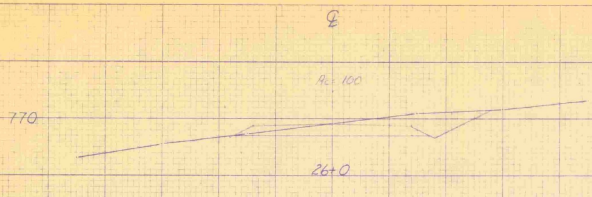
WHIPSTOCK ROAD
BENNINGTON, VERMONT
TYPICAL SECTIONS
AND
DETAILS
scale: as noted - date: 2/1/68
by
CADIZ CONSULTANTS, Inc.
BENNINGTON, VERMONT



BENNINGTON AIRPORT
 BENNINGTON, VERMONT
 RELOCATION PROFILE
 SCALE 1" = 50' HORIZ. 1" = 10' VERT.
 BY
 CADIZ CONSULTANTS, INC.
 BENNINGTON, VERMONT



780
 BENNINGTON AIRPORT
 BENNINGTON, VERMONT
 REVISION - 5.28.85-2141
 SCALE 1" = 10' HORIZ & VERT.
 BY
 CADIZ CONSULTANTS, INC.
 BENNINGTON, VERMONT



BENNINGTON AIRPORT
 BENNINGTON, VERMONT
 RELOCATION - STA 26+0-33+0
 SCALE 1"=10' HORIZ. VERT.
 BY
 CADIZ CONSULTANTS, INC.
 BENNINGTON, VERMONT