

REVIEW AND COMPLIANCE - - FEDERAL

DHP# OR91-001

Related DHP# OR85-002

Project Name RANDOLPH BRS 0147(4)
 Town RANDOLPH County ORANGE
 Federal Agency DOT

Property Name _____
 Property Location _____

Contact Person Tom Lackey Phone 2822
 Photo File # _____ Slides Filed []

ARCHEOLOGICAL SITES: KNOWN [] POTENTIAL [☒]
 Property Type(s) _____
 Historic Context(s) _____

*floodplain of 2nd Branch of White R.
 - S.O. in 1987 based on CAP's Ph I survey*

BUILDINGS/STRUCTURES: 1921 concrete T-beam bridge
 Property Type(s) _____
 Historic context(s) _____
 Applicable MPDF _____

Listed on Survey [] Survey # _____ State Register []

Listed on NR - individual []
 - district [] NRHD Name _____
 NRHD Map # _____

Previous NR review (date) _____ Eligible [] Not Eligible []

Eligible SR -- [] Staff determination by _____ Date _____

Eligible NR -- individual [] contributing part of district []

Not Eligible NR []

Determination by: staff [] Who _____ Date _____
 AC [] Date of preliminary review _____

Description and Significance Info on Reverse []

*- not on survey
 - no bldgs impacted, not in MD
 7-16-91 call from Roger Tibbels - this is same project
 as OR85-002 that we S.O. on*

Project Reviewed by (initial/date) SLJ 7-18-91

Need Notification of Local Officials [] Date Notified _____
 Need AC Review [] Why _____ Date Scheduled _____
 Meeting: Staff Attending _____ Date _____
 Site Visit: Staff Attending _____ Date _____

Documentation Required as Condition []
 Specify _____

Applicable Standards _____
 Documentation Received [] date _____
 Documentation Approved By _____ date _____

REVIEW AND COMPLIANCE GENERATED INFORMATION
DHP PROJECT # _____

STATE OF VERMONT
Division for Historic Preservation
Montpelier, Vermont 05602

HISTORIC SITES AND STRUCTURES SURVEY
Individual Structure Survey Form

COUNTY:
TOWN:
LOCATION:
COMMON NAME:
PROPERTY TYPE:
OWNER:
ADDRESS:

SURVEY NUMBER:
NEGATIVE FILE NUMBER:
UTM REFERENCES: Zone/Easting/Northing
U.S.G.S. QUAD. MAP:
PRESENT FORMAL NAME
ORIGINAL FORMAL NAME:
STYLE:
DATE BUILT:

ARCHITECTURAL OR STRUCTURAL DESCRIPTION:
--

RELATED STRUCTURES:

STATEMENT OF SIGNIFICANCE: Meets State Register Criteria _____ Meets National Register Criteria _____ Historic Contexts _____
--

Map Attached []
Photos Attached []

RECORDED BY:
ORGANIZATION:
DATE RECORDED:

RECEIVED JAN 21 1991

AGENCY OF TRANSPORTATION

OFFICE MEMORANDUM

TO: Eric Gilbertson, Director, Division of Historic Preservation

FROM: Wilson K. Wheatley, III, P.E., Planning Engineer *Wes 1/18*
By: William E. Sargent, Location & Environmental Engineer *Wes*

DATE: January 17, 1991

SUBJECT: Randolph BRS 0147(4)

This project has been exempted from review by the VICS, by agreement of the AOT, FHWA, and State Clearinghouse as it is included among the categories of projects likely to be classified as Categorical Exclusions in the AOT Action Plan. Would you kindly advise as to this project's potential for impact on historic and archaeological resources. In order to maintain our project development schedule, receipt of this review is requested within three weeks. Revised plans are attached.

Project Randolph BRS 0147(4) begins in the Town of Randolph on VT Route 14, 3.352 miles northerly of the Bethel-Randolph Town Line and extends northerly 0.076 miles on VT Route 14.

Work will consist of replacement of BR 34 and related roadway and channel work.

The existing structure is Bridge No. 34, a concrete T-beam constructed in 1921 not listed on the Historic Bridge Inventory.

Through traffic during construction will be maintained. A detour will be required downstream.

If you need more information, please contact us.

Attachments

WKW:WES:RHT:km

cc: Location Files
Planning Files

CONCRETE BRIDGES UNDER REVIEW

CH86-027	Williston-South Burlington BRZ 1445 (12) Bridge # 15, Concrete Slab, Age unknown
CH90-048	Underhill TH 2507 1921 I-Beam with concrete deck
FR91-006	Georgia TH 3716 1934 Rolled Beam with concrete deck
MC90-004	Readsboro-Whitingham RS 0102 (13) 1925 box culvert with solid concrete railing
OR90-013	Orange TH 9028 Concrete Slab with granite abutments, age unknown
OR90-019	Chelsea RS 0169 (7) 1939 Concrete bridge with decorative concrete posts, within NR District
OR91-001	Randolph BRS 0147 (4) 1921 Concrete T-beam
RU91-001	Brandon BRZ 1443(16) 1923 Concrete Deck Truss with cast iron railing
RU91-004	Wells BRZ 1443 (24) 1900 Rolled Beam with concrete deck
WA90-052	East Montpelier FEGC F037-2 (4)S 1924 Concrete Slab
WA91-007	Worcester RS 0241(26)S 1928 Concrete Slab
WA91-010	Worcester BHS 0241 1936 Steel Beam with concrete post and cable railing
WD90-037	Townshend BST 015--1 (17) 1934 Concrete Rail with spindles
WD91-004	Halifax BHF 013-1 (9)S 1940 Steel beam with concrete deck
WN90-048	Royalton BRS 0147 (13) 1927 Concrete T-beam, project involves two of these- Bridge #27, 28
WN87-061	Stockbridge BHF 022-1 (13)S 1937 Concrete I-beam

3-14-91 memo sent to Bill Sargent at AOT
requesting info on each of these
bridges. photos + summary doc.

DHP Number DR 91-001 Map No. 47B DHP Init. sy Date 7/9/91

Environmental Variable	Proximity	Value	Assigned Score
1) Distance to Existing or Relict River or Permanent Stream	0-60 m 60-120 m 120-180 m	12 8 4	[12]
2) Distance to Pond or Lake	0-60 m 60-120 m 120-180 m	12 8 4	[]
3) Distance to Intermittent Stream <i>conf.</i>	0-60 m 60-120 m 120-180 m	8 4 2	[8]
4) Distance to Wetland (wetlands > one acre in size)	0-60 m 60-120 m 120-180 m	8 4 2	[]
5) Confluence of River/River or River/Brook	0-60 m 60-120 m 120-180 m	12 8 4	[]
6) Confluence of Intermittent Streams	0-60 m 60-120 m 120-180 m	8 4 2	[]
7) Falls or Rapids	0-60 m 60-120 m 120-180 m	8 4 2	[]
8) Transportation Corridor/ Drainage Link	0-60 m 60-120 m	8 4	[]
9) Head of Draw	0-60 m	8	[]
10) Isolated Spring	0-60 m 60-120 m	8 4	[]
11) Major Floodplain/Alluvial Terrace	0-60 m 60-120 m	8 4	[8]
12) Lithic Outcrop	0-180 m	20	[]
13) Knoll Top/Ridge Crest/Promontory	0-60 m	8	[]
14) Kame/Outwash Terrace (valley edge features)	0-60 m	8	[]
15) Other Major Topographic Break	0-60 m	8	[]
16) Relict Beach or Shore Line	0-60 m	12	[]
17) Caves/Rockshelters	0-60 m	12	[]
18) Excessive Slope (>15%) or Steep Erosional Slope (>20%)		-8	[]
19) Very Poorly Drained Soils		-8	[]
20) Excessively Disturbed		-24	[]

Total Score [28]

0-18 = Archeologically Non-Sensitive

20+ = Archeologically Sensitive



STATE OF VERMONT
AGENCY OF DEVELOPMENT AND COMMUNITY AFFAIRS

DIVISION FOR HISTORIC PRESERVATION

Preserving Vermont's historic, architectural and archeological resources

July 18, 1991

William Sargent
Locations
Agency of Transportation
133 State Street
Montpelier, VT 05602

Re: Randolph BRS 0147(4). AOT.

Dear Mr. Sargent:

Thank you for the opportunity to comment on the above-referenced project.

The Division for Historic Preservation has reviewed this undertaking according to the standards set forth in 36 C.F.R. 800, regulations established by the Advisory Council on Historic Preservation to implement Section 106 of the National Historic Preservation Act. Project review consists of identifying the project's potential impacts to historic buildings, structures, historic districts, historic landscapes and settings, and to known or potential archeological resources.

We originally reviewed this project in 1987, and based on the results of a Phase I survey by the Consulting Archeology Program at the University of Vermont, we determined that the project would not effect any historic or archeological resources.

It is our understanding that the project has now changed somewhat in scope, however, the areas of impact are largely the same. Based on the results of CAP's Phase I survey for the earlier project we conclude that the project as currently designed will not impact any archeological resources.

Bridge No. 34, which will be replaced as part of this project, is a concrete T-beam which was built in 1921. This bridge is not eligible for the National Register of Historic Places, therefore, we have no further concerns with the bridge.

Mr. Sargent
Page 2
July 18, 1991

We conclude that the proposed project will not effect any properties of historic, architectural or archeological significance that are listed on or eligible for inclusion in the National Register of Historic Places.

Sincerely,

Suzanne C. Jamile

for Eric Gilbertson
Director/State Historic Preservation Officer

EG/SCJ

cc: Randolph Planning Commission
FHWA
Two Rivers-Ottawaquechee Regional Planning & Development
Commission

7-16-91

- old plan - new bridge on new alignment
- new plan - new bridge on old alignment with detour along what had been the proposed new alignment
- peter Thomas's 1987 Phase I survey indicated this area not sensitive & area of impact small. new plans do not indicate area of impact will be any larger.

9-4-91 Call from Mark Richter - FHWA

- were we aware that old bridge abutment would be removed ^{as part of this project.} ~~in relation to this~~ project. ~~of~~ Abutment built around 1880, bridge pier to one built in 1920s. It is laid-up stone. I told him we generally are not concerned with removal of old abutments unless they seem to be part of a mill complex or something. Go ahead as planned.

scj:mle

vid 7-18-91





POOR QUALITY
ORIGINAL_____

STATE OF VERMONT AGENCY OF TRANSPORTATION



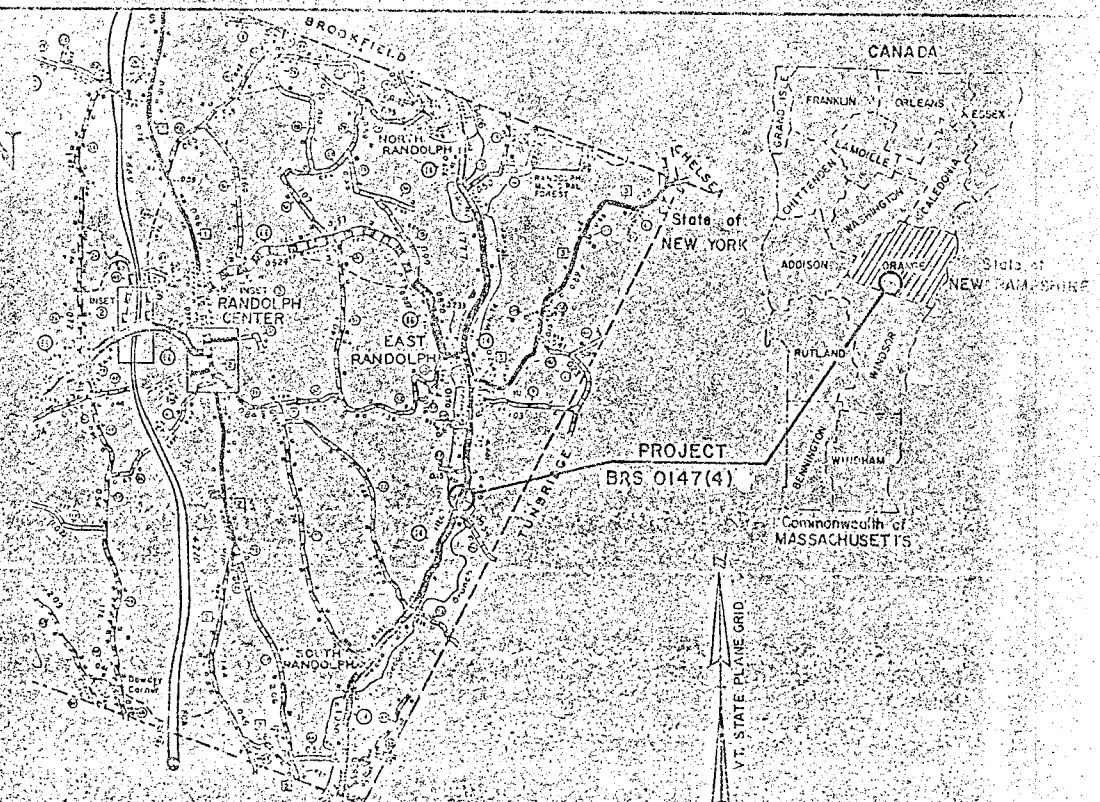
PROPOSED IMPROVEMENT TOWN OF RANDOLPH COUNTY OF ORANGE VT. RTE. 14 (F.A.S.)

BEGINNING AT A POINT ON VT. ROUTE 14 IN THE TOWN OF RANDOLPH
3.352 MILES NORTHERLY OF THE BETHEL-RANDOLPH TOWN LINE AND
EXTENDING NORTHERLY 0.254 MILES

LENGTH OF ROADWAY 1200.00 FT. = 0.223 MILES
LENGTH OF BRIDGE 1200.00 FT. = 0.223 MILES
LENGTH OF PROJECT 1200.00 FT. = 0.223 MILES

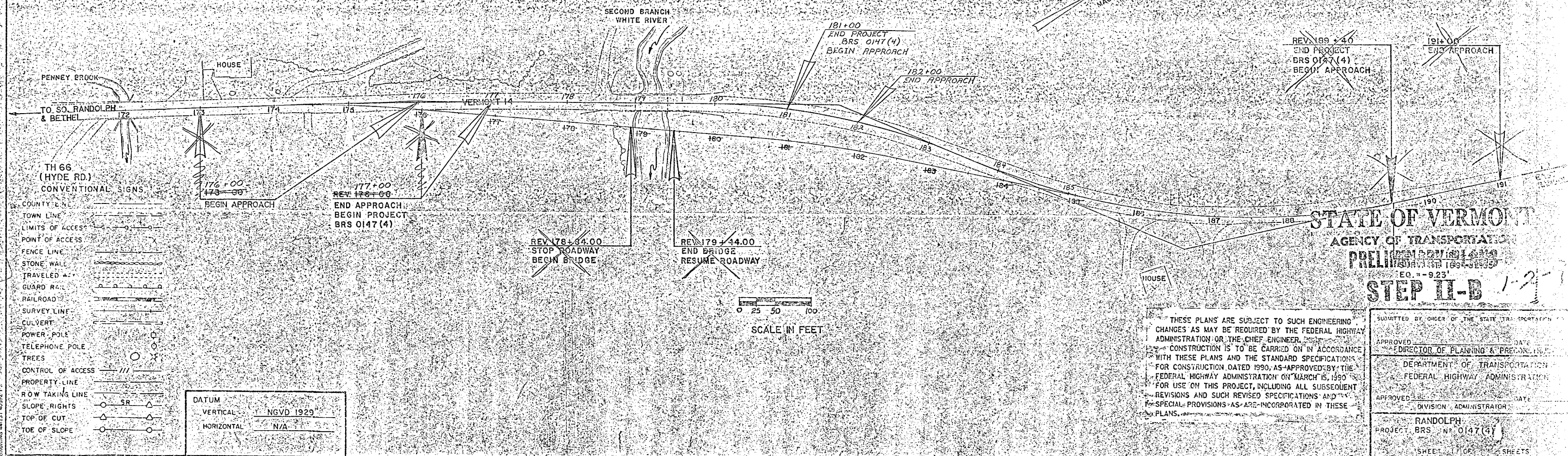
TRAFFIC DATA

1992 ADT = 1160
2012 ADT = 1580
2012 OHV = 220
D = 3 %
T = 60 %
V = 50 MPH



PROJECT DESCRIPTION

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES REMOVAL OF EXISTING BRIDGE AND CONSTRUCTION OF A NEW BRIDGE. ALSO APPROACHES ON IMPROVED HORIZONTAL AND VERTICAL ALIGNMENT. APPROACH WORK CONSISTS OF GRADING, DRAINAGE, SUBBASE, PAVEMENT AND GUARD RAIL.



SCALE IN FEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY PLANS
E.O. 11-923

STEP II-B

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1990, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON MARCH 15, 1990. FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION

APPROVED: DIRECTOR OF PLANNING & PRECONSTRUCTION

DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

APPROVED: DIVISION ADMINISTRATOR

RANDOLPH

PROJECT BRS 0147(4)

SHEET 1 OF 1 SHEETS

SEEDING FORMULA RURAL AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
3.33	2	CROWN VETCH	97	75
50.00	50	CREeping RED FESCUE	98	85
8.33	5	TIMOTHY	99	85
16.67	10	PERENNIAL RYE GRASS (VAR. PENNFINE)	95	85
8.34	5	ALFAFA (VAR. SARANAC)	99	85
8.33	5	BIRDSFOOT TREFOIL (VAR. EMPIRE)	98	85
5.00	3	HIGHLAND BENT GRASS	92	85
100.00	60			

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

SEED- TO BE APPLIED PER SEEDING FORMULA AS DIRECTED BY THE ENGINEER.

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

AGRICULTURAL LIMESTONE- TO BE APPLIED AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER.

HAY MULCH- TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL- TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

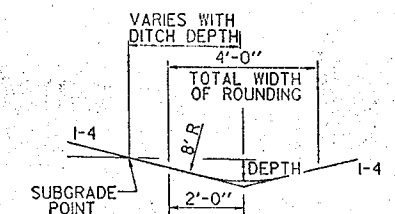
MARKER POSTS- TO BE PLACED AS DIRECTED BY THE ENGINEER.

SLOPE ROUNDING- ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5.

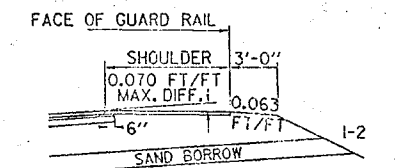
PAY LIMITS OF SAND BORROW WHEN USED IN CONJUNCTION WITH UNDERDRAIN- SEE STANDARD SHEET D-2.

TYPICAL SECTIONS

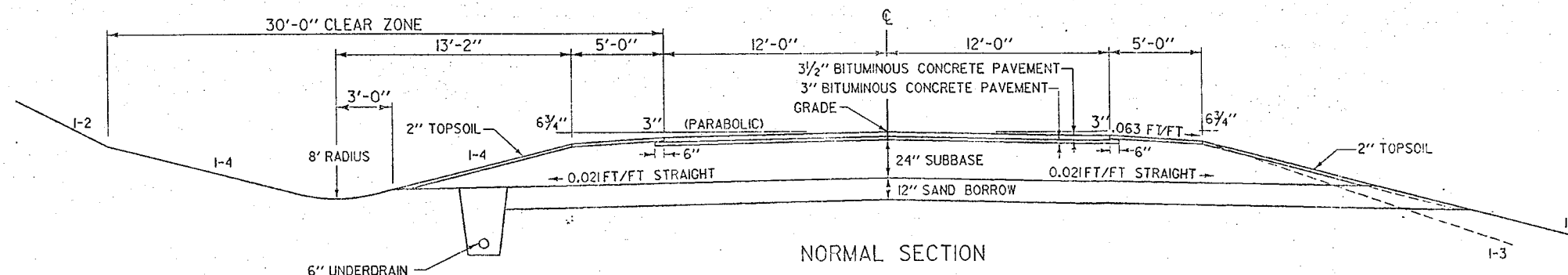
3 1/2" BITUMINOUS CONCRETE PAVEMENT (2 LIFTS - 1 1/2" TYPE III OVER 2" TYPE II - HSM)
3" BITUMINOUS CONCRETE PAVEMENT (1 LIFT - TYPE I - HSM)
24" SUBBASE OF DENSE GRADED CRUSHED STONE
12" SAND BORROW
SHOULDERS: 1 1/2" BITUMINOUS CONCRETE PAVEMENT (1 LIFT - TYPE III - HSM)



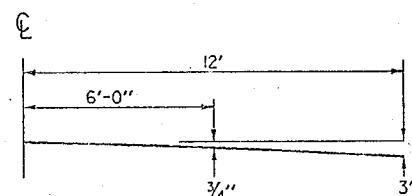
TYPICAL DITCH DETAILS



DETAIL OF GUARD RAIL ON HIGH SIDE OF BANKED SECTION

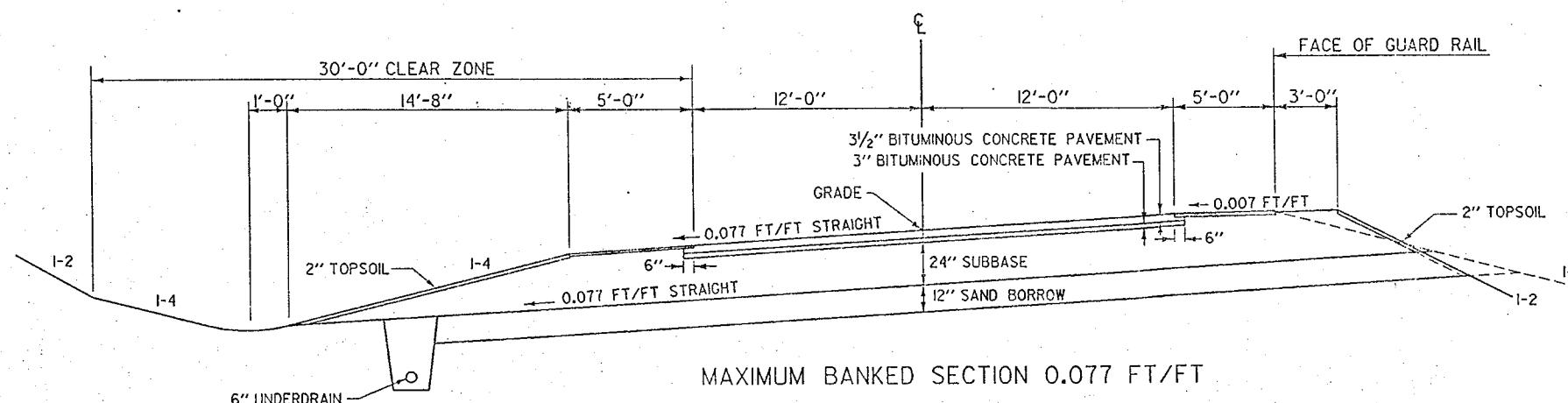


NORMAL SECTION

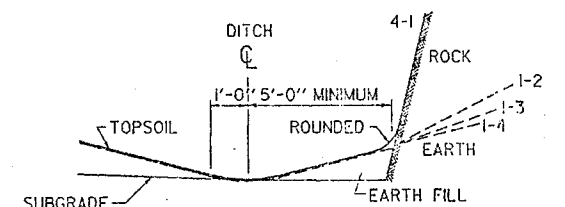


PARABOLIC DETAILS

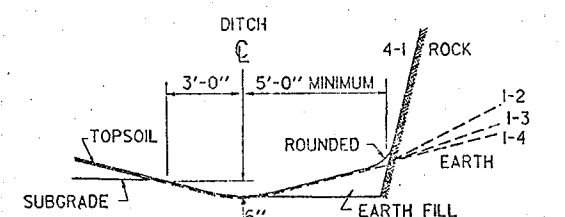
MATERIAL ITEM	TOLERANCE
PAVEMENT	± 1/4"
BASE COURSE	± 1/4"
SUBBASE	± 1/2"
SAND BORROW	± 1"



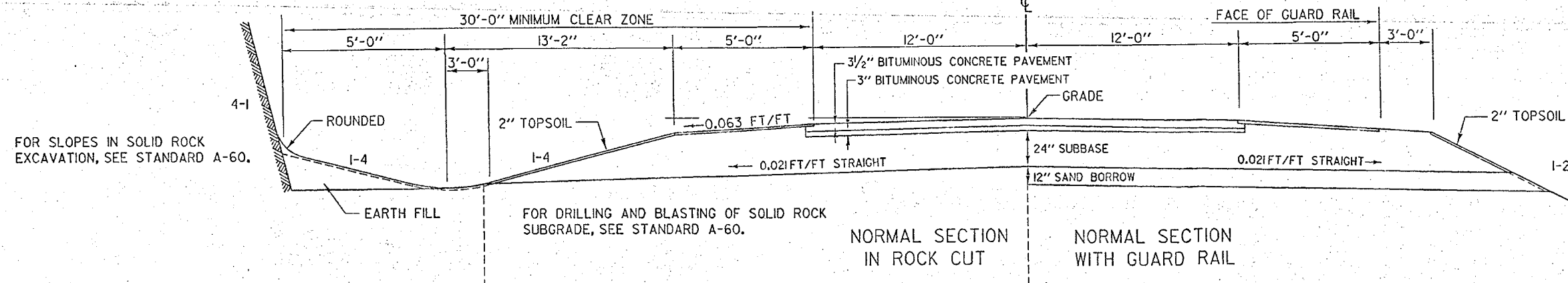
MAXIMUM BANKED SECTION 0.077 FT/FT



DETAILS OF DITCH AND BACKSLOPE FOR LOW SIDE OF BANK ≥ 0.042 FT/FT



DETAILS OF DITCH AND BACKSLOPE FOR LOW SIDE OF BANK < 0.042 FT/FT

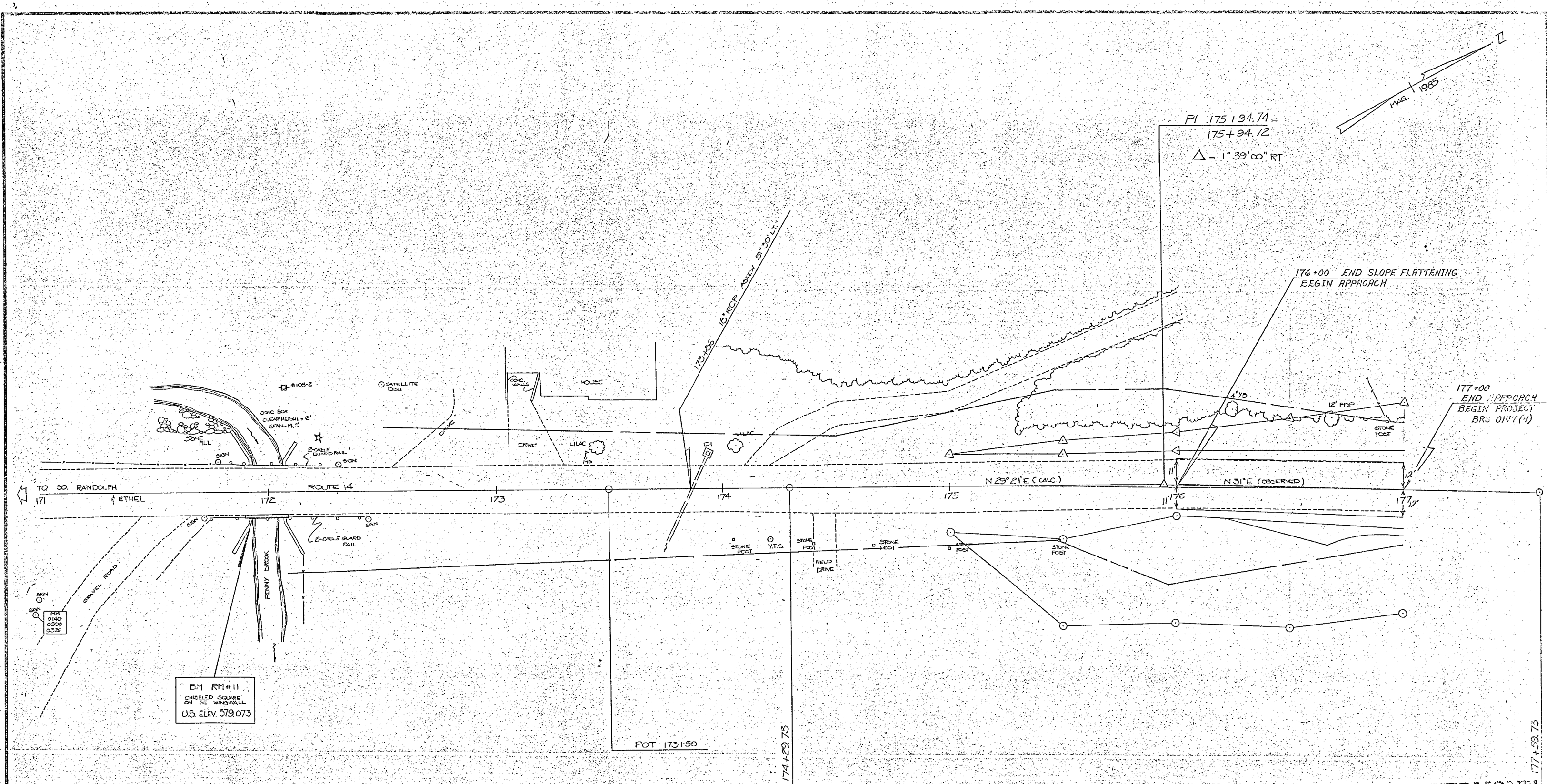


NORMAL SECTION IN ROCK CUT

NORMAL SECTION WITH GUARD RAIL

STATE OF VERMONT
AGENCY OF TRANSPORTATION
PRELIMINARY PLANS
STEP II-B

SURVEYED BY	LASKOWSKI	DATE	5-90
DRAWN BY	PERKINS	DATE	5-90
SQUAD LEADER	PERKINS	DATE	5-90
DESIGN FILE NO.	ZG0150.77378F226.DGN	DATE	23-AUG-1990
PRF	78F226TYP.PRF	DATE	23-AUG-1990
PROJ. NAME	RANDOLPH		
PROJ. NO.	BRS 0147S(4)		
SHEET	2	OF	SHEETS



$$PI \ 175+94.74 = \frac{175+94.72}{175+94.72}$$

$$\Delta = 1^{\circ}39'00'' \text{ RT}$$

176+00 END SLOPE FLATTENING
BEGIN APPROACH

177+00 END APPROACH
BEGIN PROJECT
BRS 0117(4)

CURVE No. 1
 D = 0°30'
 R = 11459.16'
 T = 165.01'
 L = 330.00'
 E = 1.19'
 2T-L = 0.02

DATUM
 VERTICAL NGVD 1929
 HORIZONTAL N/A

STATE OF VERMONT

AGENCY OF TRANSPORTATION

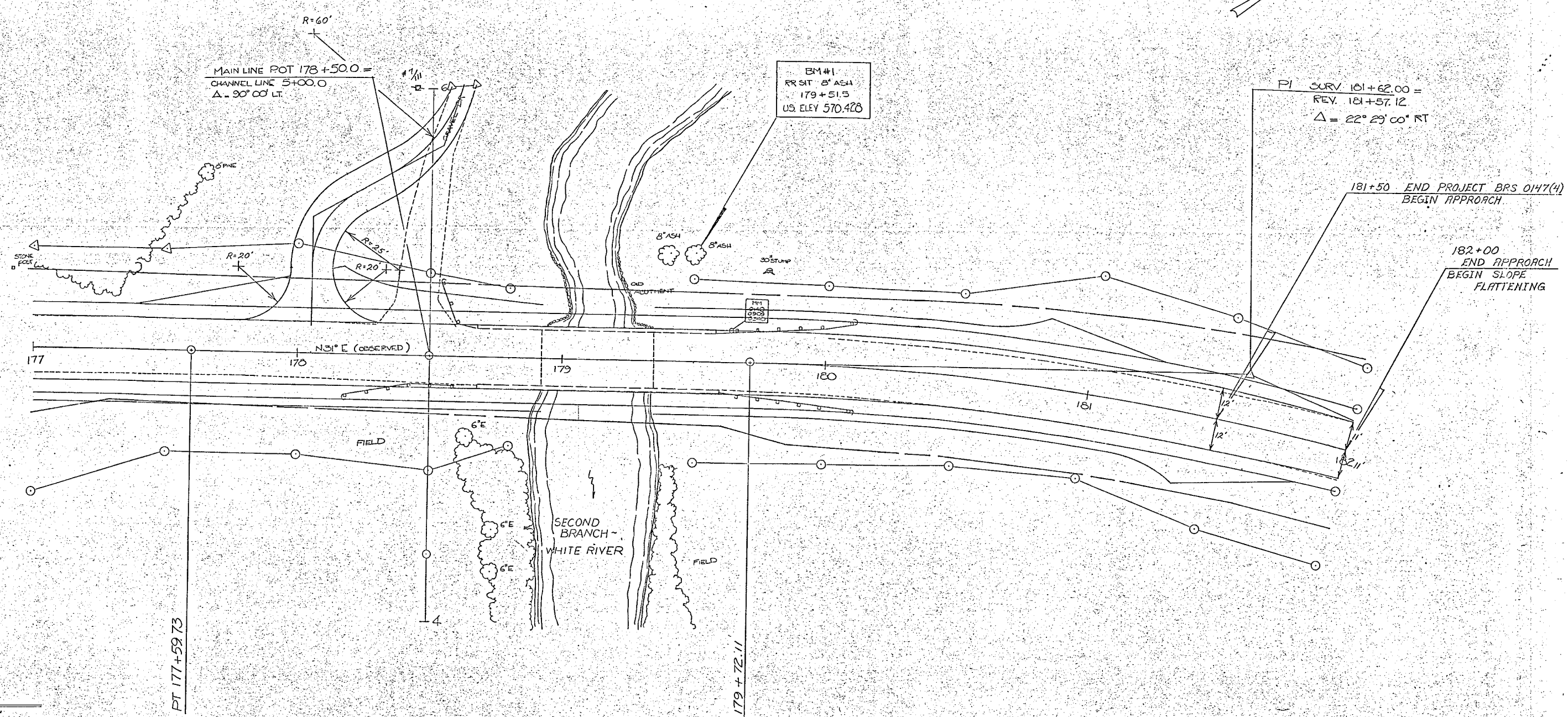
PRELIMINARY PLANS

STEP II-B

SURVEYED BY FANTONI DATE JAN 1985
 DRAWN BY A. SAENZ DATE DEC 1984
 TRACED BY _____ DATE _____
 RANDOLPH
 PROJ. BUS NO. 0147(4)S
 SHEET _____ OF _____

SCALE IN FEET

BRUNING 53423-1



CURVE NO 1

D =	0° 30'
R =	11,459.16'
T =	165.01'
L =	330.00'
E =	1.19'
2T-L =	0.02'

CURVE NO 2

D =	5° 59' 50"
R =	955.37'
T =	189.89'
L =	374.90'
E =	18.69'
2T-L =	4.88'

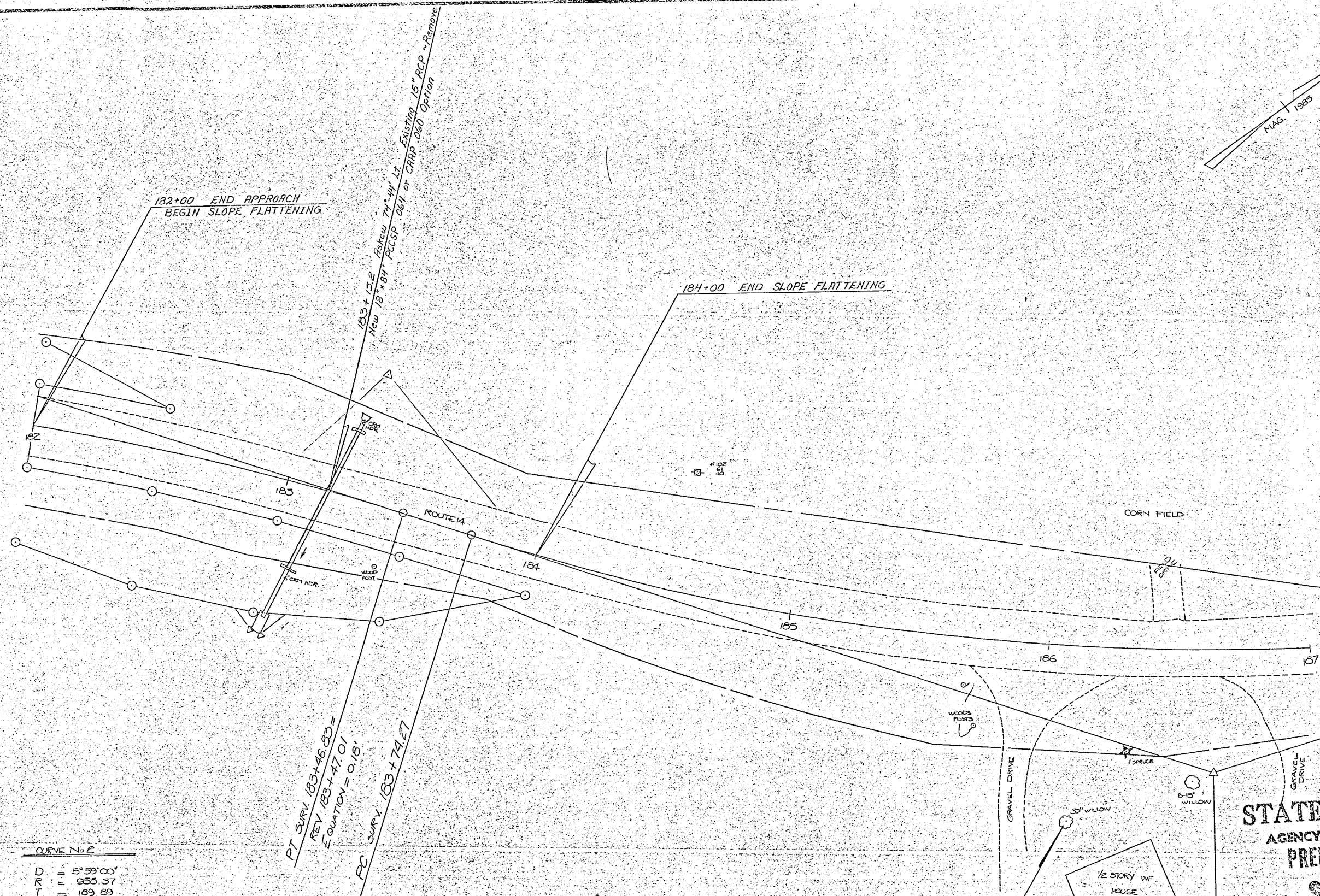
DATUM

VERTICAL	NGVD 1929
HORIZONTAL	N/A

STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 PRELIMINARY PLANS
 STEP II-B

SURVEYED BY	FANTONI	DATE	JAN-85
DRAWN BY	A. SAENZ	DATE	DEC-85
TRACED BY		DATE	
RANDOLPH			
PROJ. BHS NO. 0147(4)S			
SHEET	OF		

SCALE IN FEET



CURVE No 2

D	=	5° 59' 00"
R	=	955.37
T	=	109.89
E	=	374.80
L	=	18.63
2T-L	=	4.88

CURVE No 3

D	=	5° 59' 00"
R	=	955.37
T	=	298.17
E	=	578.04
L	=	45.45
2T-L	=	18.30

BM #2
2-200 SUR
184+03.5'
ELEV 606.30'

STATE OF VERMONT
AGENCY OF TRANSPORTATION
PRELIMINARY PLANS
STEP II-B

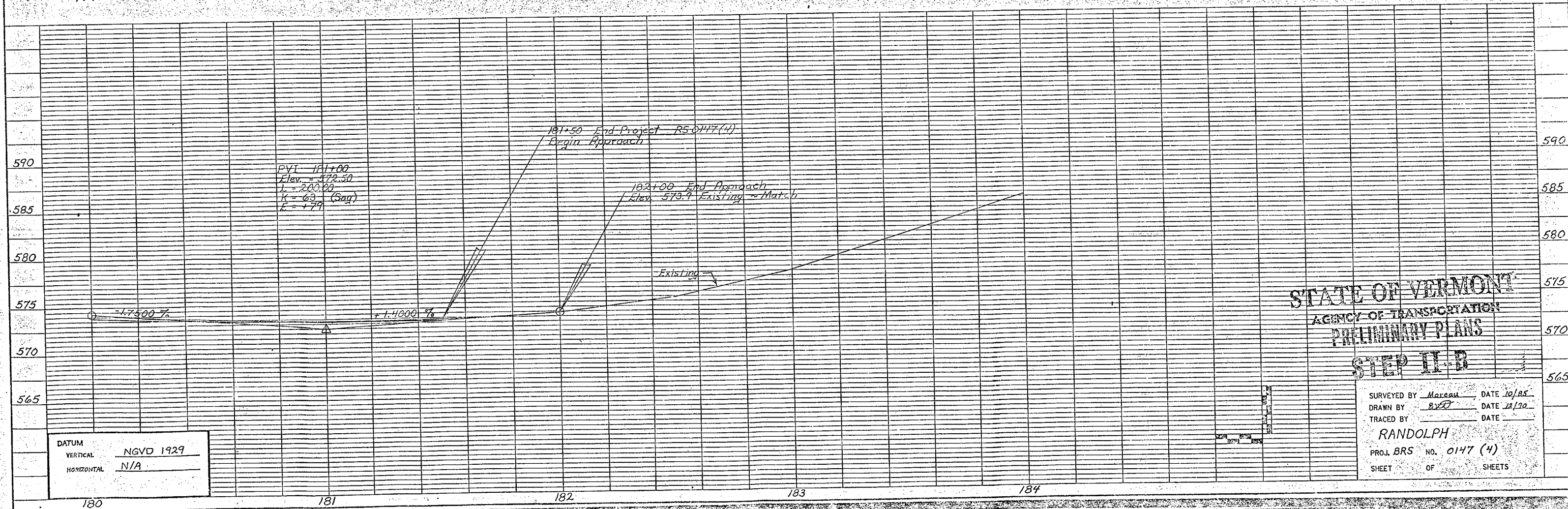
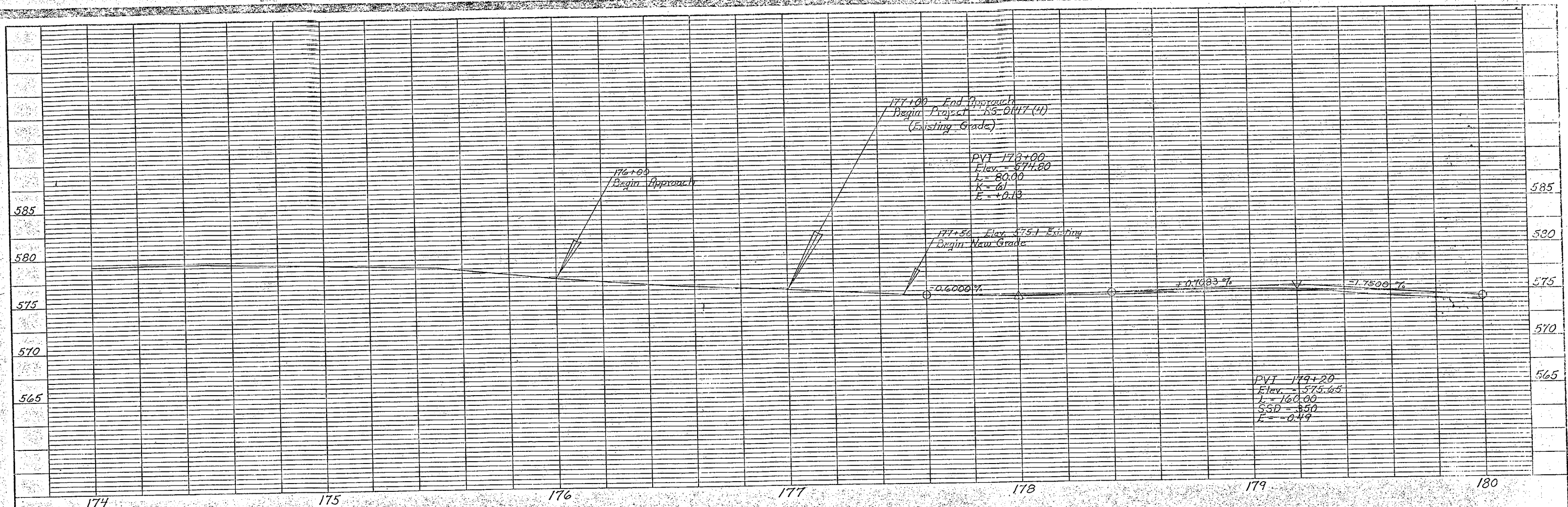
PI SURV. 106+72.44
REV. 186+54.14
Δ = 34° 40' 00" LT.

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

0 10 20
SCALE IN FEET

SURVEYED BY MOREAU DATE OCT-82
DRAWN BY A. SAENZ DATE DEC-82
TRACED BY _____ DATE _____

RANDOLPH
PROJ. BMS NO. 0147(4) 5
SHEET OF



STATE OF VERMONT
AGENCY OF TRANSPORTATION
PRELIMINARY PLANS
STEP II-B

SURVEYED BY Mareau DATE 10/85
DRAWN BY RD DATE 11/90
TRACED BY _____ DATE _____
RANDOLPH
PROJ. BRS NO. 0147 (4)
SHEET OF SHEETS

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A