INDEX OF SHEETS

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12-17 PLAN & PROFILE SHEETS

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT

INTERSTATE PROJECT

TOWNS OF BROOKFIELD, WILLIAMSTOWN, AND BERLIN

COUNTIES OF ORANGE AND WASHINGTON

INTERSTATE ROUTE 89 ROW project I89-1(20)

WHITE RIVER JCT. — MONTPELIER Pin# 99R012-6

SECTION I R.O.W. PLANS

LENGTH OF PROJECT Sec. I - 44,584 FEET = 8.445 MILES.

TRAFFIC DATA

1965	ADT	2420	4390	2160
1987	ADT	6340	7900	2540
1987	DHV	970	1190	850
	D	51%	503%	27%
	T	6%	4%	7%
	V	60	60	60

RIGHT-OF-WAY PLANS

END R.O.W. SEC. I	BEGIN R.O.W. SEC. II
NB. STA. 2501+36	NB. STA. 2501+85
SB. STA. 2503+45	SB. STA. 2503+45

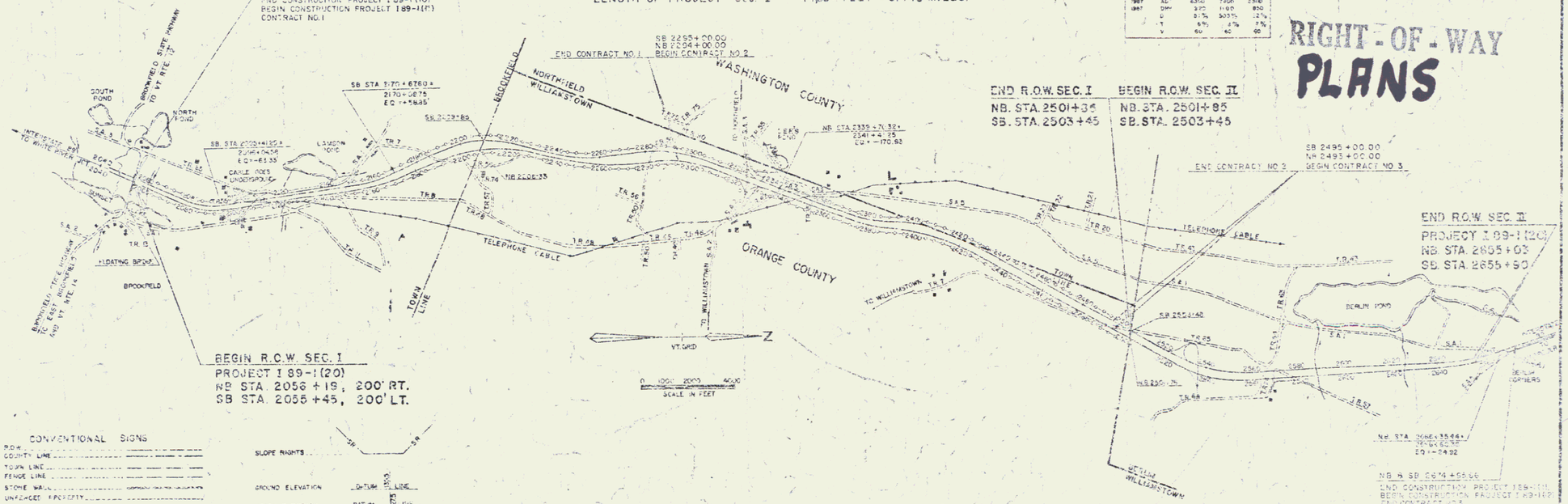
END R.O.W. SEC. II
PROJECT I 89-1(20)
NB. STA. 2855+03
SB. STA. 2855+90

NB & SB STA. 2055+00.00
END CONSTRUCTION PROJECT I 89-1(10)
BEGIN CONSTRUCTION PROJECT I 89-1(11)
CONTRACT NO. 1

SB STA. 2293+00.00
NB STA. 2294+00.00
END CONTRACT NO. 1 | BEGIN CONTRACT NO. 2

SB 2495+00.00
NB 2495+00.00
END CONTRACT NO. 2 | BEGIN CONTRACT NO. 3

NB & SB 0674+56.66
END CONSTRUCTION PROJECT I 89-1(11)
BEGIN CONSTRUCTION PROJECT I 89-1(12)
END CONTRACT NO. 3



BEGIN R.O.W. SEC. I
PROJECT I 89-1(20)
NB STA. 2056+19, 200' RT.
SB STA. 2055+45, 200' LT.

CONVENTIONAL SIGNS

R.O.W. .....
COUNTY LINE .....
TOWN LINE .....
FENCE LINE .....
STONE WALL .....
UNFENCED PROPERTY .....
GUARD RAIL .....
TRAVELED WAY .....
RAILROAD .....
RETAINING WALL .....
CENTER LINE .....
SURVEY LINE .....
CULVERT .....
DROP INLET .....
TROLLEY POLE .....
POWER POLE .....
TELEPHONE POLE .....
TREES .....
HEDGE .....
LIMITED ACCESS .....

SLOPE RIGHTS .....

GROUND ELEVATION ..... DATUM 1929 ADJ.
GRADE ELEVATION ..... DATUM 1929 ADJ.

CURVE DATA

DEFLECTION OF ANGLE	Δ
DEGREE OF CURVE	D
RADIUS OF CURVE	R
TANGENT DISTANCE	T
LENGTH OF CURVE	L
EXTERNAL DISTANCE	E
POINT OF INTERSECTION	PI
POINT OF CURVE	PC
POINT OF TANGENT	PT
POINT ON SIGHT DISTANCE	POST
POINT OF CURVE	POC

checked by J. Lewis 1/26/2009

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER OF HIGHWAYS.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION DATED APRIL 1968, AS APPROVED BY THE BUREAU OF PUBLIC ROADS ON OCTOBER 10, 1968, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCLUDED IN THESE PLANS.

APPROVED	APPROVED	APPROVED	APPROVED	APPROVED
TITLE	DATE	NOTE	DATE	DATE 10/2/07

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
MP 37.85 - 49.53

PROJECT I 89-1(20)
SHEET 1 OF 17 SHEETS

ROW Plans

STATE OF VERMONT

DEPARTMENT OF HIGHWAYS

RIGHT-OF-WAY PLANS

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Y		
Z		

MADE BY R.L.S. DATE 4-15-69

CHECKED BY C.P.C. DATE 4-15-69

PROJECT BROOKFIELD-BERLIN

NO. I 89-1(20)

SHEET 5A OF 90

SEC I

2

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
1	N ARTHUR B NELLIE M SPOONER	12	BSH 5+00	BSH 6+20	3960 SF±	1.94 A±							
2	KENNETH W & MARY E PHELON	12	BSH 5+00	BSH 7+14	0.12 A±	9.84 A±							
3A	JOHN S MARGUERITE GRAVAS	13	BSH 9+17	NB 2060+90	4.6 A±								
B		12	BSH 7+12	BSH 9+17	0.28 A±								
C		12	NB 2056+19 RT NB 2060+50 RT	BSH 16+00	0.18 A±	1.40 A±	DRAINAGE (P)						
4	JESSIE G FISKE ESTATE HAROLD F GAGE, EXECUTOR	13	SB 2060+76 SB 2060+76 NB 2061+00 RT NB 2062+50 RT NB 2064+00 RT NB 2064+05 RT NB 2064+90 LT NB 2064+96 LT SB 2065+00 LT SB 2067+00 LT	NB 2069+58 SB 2069+52	5.8 A±	1.92 A±	DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P)						LOSS OF ACCESS (1.3A±)
5	HERBERT E & ROSAMOND L REA	13,14,15	SB 2069+52 NB 2071+00 RT SB 2072+00 LT NB 2072+00 RT NB 2085+50 RT	SB 2087+20	11.8 A±	156.2 A±	DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) & DITCH (P)						
6	CATHERINE WILCOX WITHINGTON & SARAH WILCOX ROBERTS	15 16,17 21,22	NB 2086+74 REL T-65 17+00 LT	SB 2087+65 REL SA-1 31+55 LT	0.35 A±	5.65 A±	WATER PIPELINE (P)						
7A	GAYLE D & VERNA M BROWN	15,16	NB 2087+16	SB 2108+09	15.8 A±								
B		20	REL SA-1 7+00	REL SA-1 12+61	0.45 A±								
C		16,17,21,22	REL T-65 17+00	REL SA-1 32+03	3.0 A±								
D		16,17	REL SA-1 24+87	SB 2118+25	2.4 A±	146.75 A±							
		21	REL T-65 17+00 LT	REL SA-1 31+55 LT			DRAINAGE (P) & DITCH (P)						WATER PIPELINE (P)
			NB 2090+50 RT REL SA-1 31+00 LT	REL SA-1 32+03 LT			CHANNEL (P)						
			REL SA-1 31+00 LT NB 2100+50 RT				CULVERT (P) DRAINAGE (P) & DITCH (P)						
			REL SA-1 7+95 LT	REL SA-1 10+70 LT			SLOPE 2450 SF± (T)						
			REL T-65 18+25 LT	REL SA-1 32+03 LT			SLOPE 2500 SF± (T)						
			REL T-65 19+00 RT	SPUR T-65 1+59 RT			SLOPE 1.1 A± (T)						
8	PATRICK J & MARIE B CHIMENTO	20	REL SA-1 7+00	REL SA-1 8+83	0.14 A±	9.9 A±							
9	VINCENT & ANNA L HULL	20	REL SA-1 8+62	EXIST. SA-1 1+05	0.26 A±	4.7 A ±							

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	36,37 P&P 39	Parcel # 24 Wife's name removed from Detail Sheet, (deceased) Per Change Order # 907.	12-13-67	R&d.	
2	15+16	Parcel # 23 Combined Parcel #33 with Parcel # 23 (33 deleted) Per Change Order # 310	12-13-67	R&d.	
3	12	Parcel # 2 Changed Taking Line from 33' parallell to Center Line to 25' parallell to Center Line & changed Taking & Remainder 0.04 A± per Change Order # 328	12-27-67	M.A.R.	
4	29,30	Parcels # 15C, 16B & 20C Deleted & section of TH # 56 Discontinued, Per Change Order # 946	1-12-68	JAB	
5	17-19 22-24 B&P	Parcel # 11 Decreased parcel # 11 by 1/4 acre due to sale of land to Adams Inc. Per Change Order # 951	1-22-68	R&d.	
6		Parcel #28A Changed Loss of Access from 19.5A to 13.0A per Change Order #968	1-26-68	M.H.M.	
7	13	Parcel #4 Deleted Eugene A Gage & Marion Butters as Executor & Executrix of Jessie G Fiske Estate, Per Change Order # 978	1-31-68	JAB	
8	47-48 6 of P	Parcel # 32, Town of Williamstown. Rechecked Remainder on Eastside of Taking & 15.1 A± was Corrected to 10.8 A± For Remainder on East side. Total Remainder Changed from 37 A± to 33.4 A±, Per Change Order # 979	2-1-68	JAB	
9	38 6 of P	Parcel # 53, Ferno is a new Parcel, Per Change Order # 987	2-2-68	JAB	
10	35	Parcel # 13, Appelget has R T & I in a ROW w/out Parcel Taken From Huffman, Per Change Order # 970	2-5-68	JAB	
11	47-50 6 of P	Parcels # 32, 33, & 35. Changed P/L's as per attached sketch. Added additional acreage to Loss of Access & to Remainder as per change order # 994.	2-13-68	R.M.T.	

LEGEND

- TAKING WITHOUT ACCESS
- TAKING WITHOUT ACCESS ALONG PROPERTY LINES
- TAKING WITH ACCESS
- (T) TEMPORARY EASEMENT
- (P) PERMANENT EASEMENT
- SR SR SLOPE RIGHTS
- PROPERTY LINE
- TOP OF CUT
- TOE OF SLOPE

MADE BY E Rapp DATE 10-2-67

CHECKED BY P Galbraith DATE 10-2-67

APPROVED Terence P Donnelly DIRECTOR OF ADMINISTRATION DATE 10-2-67

APPROVED D.M. Lane HWY. ENGR DATE 10-2-67

APPROVED A.F. Rodgers R.O.W. DIRECTOR DATE 10-11-67

CONTRACT I

BROOKFIELD-WILLIAMSTOWN-BERLIN
SHEET 6 OF 90 SHEETS
189-1(20) SEC. I
SHEET 240 OF 414 SHEETS

3

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO	GRANTOR	SHEET NO	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
10 A	PATRICK & GEORGIANNA GROLEAU	16,17,21	NB 2106+24	REL SA-1 41+36	163A±								SPRINGS (2)
B		16,20	EXIST SA-1 0+82	EXIST SA-1 7+00	39A±								TRAILER
C		16,21	SPUR T-65+159	REL SA-1 24+87	026A±								WATER PIPELINES (2)
D		17,18	SB 2118+25	REL SA-1 41+83	15A±	1450A±							
		22	NB 2111+50RT.				DRAINAGE (P)						
			NB 2113+50RT.				DRAINAGE (P)						
			NB 2118+00RT.				DRAINAGE (P)						
			NB 2122-00RT.				DRAINAGE (P) & DITCH (P)						
			EXIST SA-1 2+00RT.				DRAINAGE (P)						
			EXIST SA-1 3+42RT.				DRAINAGE (P)						
			REL SA-1 17+95RT.				DRAINAGE (P) & DITCH (P)						
			REL SA-1 32+03LT.	REL SA-1 32+35LT.			CHANNEL (P)						
			REL SA-1 32+03LT.	REL SA-1 34+50LT.			SLOPE 1450 S.F.± (T)						
11 A	JOSEPH CIARDI	17-19	NB 2126+03	SB 2150+27	157A±								
B		17-19 22-24	REL SA-1 41+36	REL SA-1 64+64	35A±	184.8A±							
			NB 2129+50RT.				DRAINAGE (P) & DITCH (P)						
			REL SA-1 42+85LT.	REL SA-1 64+45LT.			SLOPE 034A (T)						
			REL SA-1 61+70RT.	REL SA-1 64+64RT.			SLOPE 425 S.F.(T)						
			REL SA-1 46+50LT.				DRAINAGE (P) & DITCH (P)						
			REL SA-1 56+50LT.				DRAINAGE (P)						
			REL SA-1 61+50LT.				DRAINAGE (P) & CULVERT (P)						
			REL SA-1 63+70RT.				DRAINAGE (P) & DITCH (P)						
12 A	HOWARD H LAMSON	19,25	NB 2146+73	SB 2168+42	157A±								
B		19,24	REL SA-1 64+45	REL SA-1 69+00	08A±								
C		26,27	SB 2166+35	SB 2194+50	45A±	202.0A±							GARAGE
			SB 2150+65LT.				DITCH (P)						MILK COOLER HOUSE
			SB 2154+50LT.				DRAINAGE (P)						
			SB 2159+00LT.				DRAINAGE (P)						
			SB 2161+50LT.				DRAINAGE (P)						
			REL SA-1 64+45LT.	REL SA-1 66+00LT.			SLOPE 600 S.F. (T)						
			REL SA-1 64+64RT.	REL SA-1 65+70RT.			SLOPE 300 S.F. (T)						
			REL SA-1 64+93LT.				DRAINAGE (P) & CULVERT (P)						
			REL SA-1 64+93RT.				CULVERT (P) & DITCH (P)						
			SB 2191+88LT.				DRAINAGE (P)						
			REL SA-1 68+38LT.	REL SA-1 68+30RT.									WATER PIPELINE (P)
			REL SA-1 68+15LT.	REL SA-1 68+15RT.									SEWER PIPELINE (P)

TABLE OF REVISIONS

REVISION NO	SHEET NO	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
12		PARCEL # 24 REVISED TAKING FOR DIST. MAINT AREA PER CHANGE ORDER # 976	R.L.D.	3-7-68	
13		PARCEL # 33, DELETED WIFE'S NAME FROM TITLE (DECEASED) PER CHANGE ORDER # 1016	M.A.R.	3-7-68	
14		PARCEL 15 A, ADDED LOSS OF ACCESS OF 3.1A± TO DETAIL SHEET PER CHANGE ORDER # 1027	M.A.R.	3-14-68	
15	24	Parcel # 12B Changed take line and springs and water lines and revised location of sewerline Per Change Order # 1054	R.P.D	4-24-68	
16	8 & 29	Parcel #20 Created Parcel 20C which is spring right on Knowles land Per Change Order #1100	4/29/68	M.H.M.	
17	28&29 C&P	PARCEL # 20 CHANGED P/L ON LAYOUTS AND CROSSFLEX INCREASING TAKE BY 1A± AND INCREASING REMAINDER BY 1A± AND DECREASING REMAINDER OF PARCEL 13C BY 1A± PER CHANGE ORDER # 1100.	5-9-68		
18	FofP	Parcel 54 Added all RT&I in and to R.O.W. at sta 2401+53 SB & 2423+65NB across parcel 28 Per Change Order 1154	5-23-68	R.L.D.	
19	29-30	PARCEL # 15 REDUCED THE REMAINDER OF KNOWLES DUE TO SALE OF LAND TO PETERSEN PER CHANGE ORDER # 1184	6-12-68	R.L.D.	
20	24	PARCEL # 12 CHANGED LOCATION OF DRAINAGE FROM STATION 65+50 TO STATION 64+93 SA-1 PER CHANGE ORDER # 1228	8-21-68	R.L.D.	

LEGEND

- TAKING WITHOUT ACCESS
- TAKING WITHOUT ACCESS ALONG PROPERTY LINES
- TAKING WITH ACCESS
- (T) TEMPORARY EASEMENT
- (F) PERMANENT EASEMENT
- SLOPE RIGHTS
- PROPERTY LINE
- TOP OF CUT
- TOE OF SLOPE

NAME BY E. Bush DATE 12-2-67
CHECKED BY R. Schmidt DATE 12-2-67

APPROVED Elmer S. Bromley DATE 12-2-67
CHIEF ENGINEER
APPROVED D. M. Kane DATE 12-2-67
ENGINEER
APPROVED A. J. Ladeau DATE 12-2-67
R.O.W. DIRECTOR

CONTRACT 1

BROCKFIELD-WILLIAMSTOWN-BERLIN
SHEET 2 OF 62 SHEETS
1.89-(1)(2) SECT
SHEET 245 OF 405 SHEETS

4

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO	GRANTOR	SHEET NO	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
13 A	GERALD W. & FLORENCE S. KNOWLES	25	S.B. 2167+05	S.B. 2169+78	0.35 A±	34.4A±							SUGARHOUSE
B		26,27	N.B. 2186+03	N.B. 2197+78	5.7 A±								SHED
C		28,29	N.B. 2208+00	N.B. 2220+09	10.9 A±								LOSS OF ACCESS (0.8A±)
			S.B. 2210+33	S.B. 2214+58									
			N.B. 2196+50 RT.				DRAINAGE (P)						
			N.B. 2210+00 RT.				DRAINAGE (P)						
			N.B. 2214+70 RT.				DRAINAGE (P)						
			N.B. 2217+50 RT.				DRAINAGE (P)						
			S.B. 2169+75 LT.	N.B. 2171+73 RT.			WATER PIPE LINES (2), (P)						
13D		27	SB 2192+80	NB 2197+93	0.6A±								
14	ERNEST L. & ELSIE W. SPENCER	25,26	N.B. 2165+78	S.B. 2188+06	20.4 A±	44.6 A±	DRAINAGE (P)						
		27	S.B. 2170+00 LT.				CHANNEL (P)						
			N.B. 2175+00 RT.										
			N.B. 2175+30 RT.				CHANNEL (P)						
15 A	LEON W. & THEO E. KNOWLES	27,29	S.B. 2193+23	S.B. 2210+33	16.2 A±	204.5A±							LOSS OF ACCESS (3.1A±)
		28	S.B. 2201+77	S.B. 2207+70 RT.									
B		30	NB 2214 +58	NB 2228+62	10.0 A±								
C	DELETED		NB 2205+50 RT.				DRAINAGE (P)						
			NB 2207+10 RT.				DRAINAGE (P)						
			NB 2203+50 RT.				DRAINAGE (P)						
			NB 2228+40 RT.	NB 2234+50 RT.	0.6 A±								
D													
16 A	AGNES L. GETZ	29,30	N.B. 2226+73	S.B. 2245+60	19.8 A±								
C		31,32	N.B. 2261+49	S.B. 2284+38	33.0 A±	247.0A±							
		33	S.B. 2264+50 LT.				DRAINAGE (P)						
			S.B. 2266+50 LT.				DRAINAGE (P)						
			S.B. 2267+50 LT.				DRAINAGE (P)						
			S.B. 2269+50 LT.				DRAINAGE (P)						
			S.B. 2274+50 LT.				DRAINAGE (P)						
			S.B. 2276+70 LT.				DRAINAGE (P)						
			S.B. 2277+67 LT.										
17	ELAM, RAYMOND & LOUIS BLAINE	30,31	N.B. 2244+22	S.B. 2264+00	17.9 A±	82.1 A±	DRAINAGE (P) & DITCH (P)						
		32	S.B. 2245+50 LT.				DRAINAGE (P)						
			S.B. 2250+00 LT.				DRAINAGE (P)						
			S.B. 2252+00 LT.				DRAINAGE (P)						
			S.B. 2255+50 LT.				DRAINAGE (P)						
			S.B. 2260+00 LT.				DRAINAGE (P)						
			S.B. 2260+25 LT.				DRAINAGE (P)						
			S.B. 2262+50 LT.				DRAINAGE (P)						
			S.B. 2245+60	S.B. 2264+00									LOSS OF ACCESS (69.1A±)
18	DAVID E. & GLORIA P. WINTERS	33,34	N.B. 2280+42	N.B. 2299+05	20.9 A±	259.1 A±							
			S.B. 2286+87 LT.				DRAINAGE (P)						
19	NORMAN M. & ELEANOR B. APPELGET	34	S.B. 2290+10	S.B. 2300+71	3.4 A±	278.6A±							
			S.B. 2293+00 LT.				DRAINAGE (P)						
			H+18 °C	RAMP 14+38 °C			RT. & IN ROW						
20A	DONALD G. & BARBARA M. MACDONALD	28	NB 2207+70	NB 2209+55	0.2 A±	63.0A±							
B		29	NB 2219+73	NB 2228+40	2.5A±								
C		29	NB 2222+30				Spring						

TABLE OF REVISIONS

REVISION NO	SHEET NO	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
21	27, C & P	MADE NEW PARCEL # 13D WHICH WAS ORIGINALLY PART OF PARCEL # 15A DUE TO CHANGE OF P/L PER CHANGE ORDER # 1479	11-25-69	WJM	TCB
22	9, 14, P & P	PARCEL # 24B MADE A NON-PARTICIPATING PARCEL PER CHANGE ORDER # 1519	3-13-70	WJM	TCB

LEGEND

- TAKING WITHOUT ACCESS
- TAKING WITHOUT ACCESS ALONG PROPERTY LINES
- TAKING WITH ACCESS
- (T) TEMPORARY EASEMENT
- (P) PERMANENT EASEMENT
- SR SR SLOPE RIGHTS
- PROPERTY LINE
- TOP OF CUT
- TOE OF SLOPE

MADE BY: T. Rich DATE 10-2-67

CHECKED BY: R. Smith DATE 10-2-67

APPROVED: Thomas C. Bentley, CHIEF R/W ACQUISITION DATE 10-7-69

APPROVED: K. W. Stone, MAT. ENGR. DATE 10-2-67

APPROVED: N. H. Lodge, R O W DIRECTOR DATE 10-1-67

CONTRACT I

BROOKFIELD - WILLIAMSTOWN - BERLIN
SHEET 8 OF 30 SHEETS
I 89-4201 SEC. I
SHEET 24a OF 402 SHEETS

5

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO	GRANTOR	SHEET NO	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
21	CHRIS F. & CHRISTENE H. de NEERGAARD	34-37	NB 2298+60	RELOC. SA-2 39+75	3.70 A±	87 A±							
22	CLETUS M. & ZELLA L. HUFFMAN	35	SB 2310+30 RAMP"C" E+00RT	SB 2318+35	1.6 A±	4.74 A±	DRAINAGE (P)						
23 A	EARL A. & ALTHEDA J. FERNO, & RICHARD E. FERNO	36-38	RAMP"A" 4+60	RAMP"B" 5+40	6.7 A±	82.0A±							
B		36,38	REL-T-47 2+50	SA-2 54+50	1.0 A±		DRAINAGE (P)						
			RAMP"B" 1+61 RT				DRAINAGE (P)						
		REL-	SA-2 46+00LT				DRAINAGE (P)						
			SA-2 49+50RT				CHANNEL (P)						
			SA-2 48+12 RT	SA-2 48+67RT			DITCH (P)						
			SA-2 49+50 LT				SLOPE 50 S.F.(T)						
			SA-2 53+50LT				DRIVE (P)						
			REL.T-47 1+90RT										SUGAR HOUSE
			REL.T-47 1+90LT										
24 A	CHARLES A. SANDERS	36,37,39	RELOC. SA-2 25+50	SB 2345+57	1.96 A±	2.54 A±							
			SB 2335+37 LT				DRAINAGE & DITCH (P)						SEE SECTION II FOR 24C
			SB 2339+50 LT				DRAINAGE (P)						
			SB 2336+00 LT				DRAINAGE (P)						
			RAMP"D" 1+00 RT				DRAINAGE (P)						
B		P or P	SA-2 24+01 ℄	SB 2334+25	10.9A±								NON-PARTICIPATING (ACQUIRED FOR MAINTENANCE AREA)
25 A	STEFAN & FAY WACHOWIAK	39,40	NB 2336+82	NB 2349+03	8.4A±	10.23A±							
B		39,40	NB 2356+11	NB 2353+33	1.4A±								
C		40-42	SB 2354+93	SB 2387+49	51.9A±								
			SB 2344+00 LT				DRAINAGE (P)						
			SB 2346+50 LT				DRAINAGE (P)						
			NB 2351+50 RT				DRAINAGE (P)						
			NB 2354+00 RT				DRAINAGE (P)						
			SB 2358+50 LT				DRAINAGE (P)						
			SB 2366+50 LT				DRAINAGE (P)						
			SB 2371+97 LT				DRAINAGE (P)						
			SB 2382+15 LT				DRAINAGE (P)						
			SB 2348+30 LT				DRAINAGE (P)						
			SB 2354+93	SB 2387+49									LOSS OF ACCESS (1.67A±)
26 A	FRANCIS & LAURA PACE	40	SB 2348+77	NB 2355+60	6.2 A±	1.5A±							
B		40	NB 2349+03	NB 2355+66	0.60A±								HOUSE, BARN, WATER PIPELINE
			SB 2349+50 LT				DRAINAGE (P)						
			SB 2350+10 LT				DRAINAGE (P)						
			SB 2351+00 LT				DRAINAGE (P)						
			SB 2353+94 LT				DRAINAGE (P)						
			SB 2353+50 LT				DRAINAGE (P)						

TABLE OF REVISIONS

REVISION NO	SHEET NO	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

LEGEND

- ——III——III—— TAKING WITHOUT ACCESS
- ——III——℄——III—— TAKING WITHOUT ACCESS ALONG PROPERTY LINES
- ——— — ——— TAKING WITH ACCESS
- (T) TEMPORARY EASEMENT
- (P) PERMANENT EASEMENT
- ——SR——SR—— SLOPE RIGHTS
- ——— PROPERTY LINE
- —/——/——/— TOP OF CUT
- —O——O——O— TOE OF SLOPE

MADE BY E. Burke DATE 10-2-67

CHECKED BY R. Gilbert DATE 10-2-67

APPROVED Thomas C. Kennedy CHIEF OF ACQUISITION DATE 10-2-67

APPROVED G. W. Howe (BY) ENGR. DATE 10-2-67

APPROVED H. J. Finneran R.O.W. DIRECTOR DATE 10-2-67

BROOKFIELD-WILLIAMSTOWN-BERLIN
SHEET 6 OF 90 SHEETS
I 89-1(20) SEC. I

6

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK	PG.	REMARKS
27	HOMER H. DENNY	42,43	NB 2386+65 SB 2394+50 LT. SB 2395+30 LT. SB 2399+68 LT. NB 2386+65	NB 2406+78 NB 2406+30	20.9A±	181.1A±	DRAINAGE (P) DRAINAGE (P) DRAINAGE (P)						LOSS OF ACCESS (14.2A±)
28A	FRANCIS E. POOR & WENDELL J. STETSON	43-45	SB 2401+53 SB 2422+00 NB 2406+30	NB 2423+65 NB 2423+65	30.0A±	71.8A±	DRAINAGE (P)						LOSS OF ACCESS (13.0A±)
28B	(SEE SECTION II, SHEETS 8, 24A)												
29	FERN S. & FRANCIS W. ROUX	45,46	SB 2424+20 SB 2427+00 LT. SB 2431+64 LT. SB 2433+00 LT. SB 2440+00 LT. NB 2423+65 SB 2444+00 LT.	SB 2443+95 NB 2435+05	25.3A±	139.7A±	DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P)						LOSS OF ACCESS (7.6A±)
30	E. BARTE SCRIBNER, ESTATE CORINNE C. SCRIBNER, EXECUTRIX	45,46	NB 2435+05	NB 2442+22	1.3A±	68.7A±							
31	RICHARD A. & MILDRED L. WILLEY	46,47	NB 2442+22 SB 2444+00 LT. SB 2448+00 LT. SB 2452+00 LT. SB 2443+95	NB 2454+80 SB 2455+76	13.3A±	25.7A±	DRAINAGE (P) DRAINAGE (P) DRAINAGE (P)						LOSS OF ACCESS (15.8A±)
32A	TOWN OF WILLIAMSTOWN	47,48	SB 2455+76 SB 2457+50 LT. SB 2459+50 LT. SB 2462+26 LT. SB 2467+00 LT. SB 2471+27 LT. SB 2475+27 LT. SB 2478+26 LT. SB 2480+28 LT. NB 2455+00 RT. NB 2458+00 RT. NB 2461+00 RT. NB 2464+00 RT. SB 2455+76	SB 2482+35 SB 2482+35	25.3A±	60.5A±	DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P)						LOSS OF ACCESS (49.7A±)
B		29,30	NB 2225+80 RT.	NB 2234+50 RT.			RT. & I. TR 56						
C		33	NB 2280+42 RT.	SB 2284+38 LT.			RT. & I. TR 50						
D		36-38	RELOC. SA. 2 25+50 ℄	RELOC. SA. 2 49+00 RT.			RT. & I. SA 2						
E		39	NB 2336+08 RT.	SB 2345+57 LT.			RT. & I. TR 47						
F		40	NB 2353+54 RT.	SB 2353+71 LT.			RT. & I. TR 35						
G		48-50	NB 2476+95 RT.	SB 2503+45 LT.			RT. & I. TR 7						

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

MADE BY E. Eustis DATE 10-2-67

CHECKED BY K. Galbraith DATE 10-2-67

LEGEND

- ——#|——— #|—— TAKING WITHOUT ACCESS
- ——#|——P——#|—— TAKING WITHOUT ACCESS ALONG PROPERTY LINES
- ——— — ——— TAKING WITH ACCESS
- (T) TEMPORARY EASEMENT
- (P) PERMANENT EASEMENT
- ——SR——SR—— SLOPE RIGHTS
- ——————————— PROPERTY LINE
- —△——△——/— TOP OF CUT
- —○——○——○— TOE OF SLOPE

1
2
3

APPROVED Thomas P. Landry CHIEF OF ACQUISITION DATE 10-2-67

APPROVED K. W. Laws HWY. ENGR. DATE 10-2-67

APPROVED W. F. Ringguy R.O.W. DIRECTOR DATE 10-2-67

CONTRACT I

BROCKFIELD-WILLIAMSTOWN-BERLIN
SHEET 10 OF 90 SHEETS
(89 - N20) SEC. I
SHEET 214 OF 406 SHEETS

7

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
33	ROSARIO R [illegible]	48,49	NB 2480+56 SB 2484+27 LT. SB 2488+28 LT. SB 2482+35 NB 2391+73 LT.	NB 2496+60 SB 2498+11 NB 2493+57 RT.	11.1A±	38.2A±	DRAINAGE (P) DRAINAGE (P) WATER PIPE LINE (P)						STONE FIREPLACE CAMP OUTHOUSE LOSS OF ACCESS (38.2A±) WATER PIPELINE(P)
34	J. GEORGE MITCHELL	48,49	NB 2478+95	NB 2497+63	5.7A±	174.3A±							
35A	LLOYD S. & ANNA GREARSON	49,50	SB 2498+11	NB 2501+85	5.3A±	19.94± ORANGE COUNTY							
			SB 2502+12 LT. SB 2498+11 NB 2497+63	 SB 2503+43 NB 2501+85			DRAINAGE (P)						LOSS OF ACCESS(14.4A±) LOSS OF ACCESS (0.5A±)
48	LYNN A. & BETTY R. SANDERS	36,39	NB 2331+50 RT.	SB 2335+50 LT.			BROOK & FISHING RIGHTS						
49A	TOWN OF BROOKFIELD	15,16	NB 2098+97 RT.	SB 2101+05 LT.			R.T.&I. TR 55						
B		16,17	RELOC. SA 1 24+67 RT.	NB 2120+65 RT.			R.T.&I. TR 65						
C		19	NB 2146+73 RT.	SB 2150+27 LT.			R.T.&I. SA 1						
D		26,27	SB 2186+35 LT.	NB 2194+65 RT.			R.T.&I. TR 7						
51	ROBERT H. & CATHERINE H. DUBOIS	27	NB 2196+50 RT.	NB 2201+77 RT.	1.8A±	3.2A±							SPRING
			NB 2198+00 RT.				DRAINAGE (P)						
			NB 2199+50 RT.				DRAINAGE (P)						
52	CARL A. & ALTHEDA J. FERNO H&W & RICHARD E. FERNO, SON	38	RELOC. SA-2 50+50	RELOC. SA-2 54+50	0.6A±	10.3							
			RELOC. SA-2 52+36 RT.	RELOC. SA-2 53+90 RT.			CHANNEL (P)						
54	WENDELL J. STETSON	For P	NB 2402+30	NB 2423+65		10.0A±							LOSS OF ACCESS (10.0A±)
			SB 2401+53	NB 2423+65			ALL R.T.&I. IN & TO R.O.W.						

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

LEGEND

- ——III—— III—— TAKING WITHOUT ACCESS
- ——III—— P ——III—— TAKING WITHOUT ACCESS ALONG PROPERTY LINES
- ——————— TAKING WITH ACCESS
- (T) TEMPORARY EASEMENT
- (P) PERMANENT EASEMENT
- ——SR——SR—— SLOPE RIGHTS
- ——————— PROPERTY LINE
- —A——A——A— TOP OF CUT
- —O——O——O— TOE OF SLOPE

1
2
3

MADE BY Z. Cooke DATE 10-2-67
CHECKED BY L. Blatchford DATE 10-2-67

APPROVED Thomas S. Smith DATE 10-2-67
CHIEF OF ACQUISITION
APPROVED C. M. Rank DATE 10-2-67
HWY. ENGR.
APPROVED [illegible] DATE 10-2-67
R.O.W. DIRECTOR

CONTRACT 1

BROOKFIELD-WILLIAMSTOWN-BERLIN
SHEET 11 OF 90 SHEETS
SHEET 24 OF 406 SHEETS

8

INDEX OF SHEETS

1 TITLE SHEET
2-6 TYPICAL SECTIONS
7-8 ROW DETAIL SHEETS
9-40 PLAN & PROFILE SHEETS

M

STATE OF VERMONT

DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT

INTERSTATE PROJECT

TOWNS OF BROOKFIELD, WILLIAMSTOWN, AND BERLIN

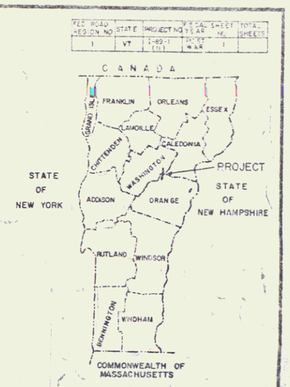
COUNTIES OF ORANGE AND WASHINGTON

INTERSTATE ROUTE 89

WHITE RIVER JCT. - MONTPELIER

SECTION II R.O.W. PLANS

LENGTH OF PROJECT Sec. II - 15,283 FEET = 2.894 MILES.

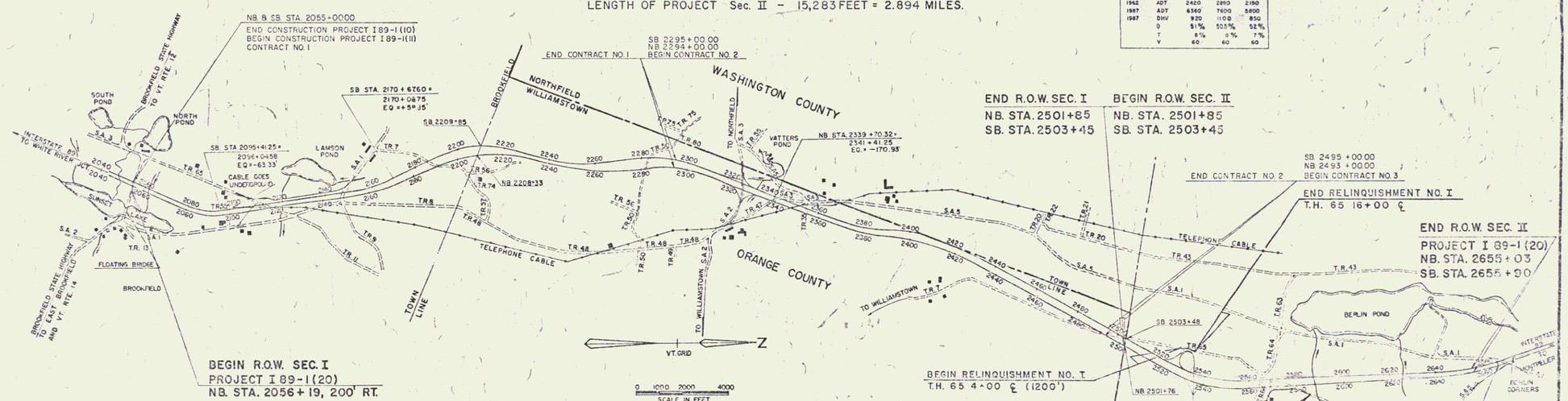


FED. ROAD REGION NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	VT	I-89-1 (20)	1	

TRAFFIC DATA

1962	ADT	2420	2890	2190
1987	ADT	6360	7600	5800
1987	DHV	920	1100	850
	D	51%	103%	52%
	T	8%	8%	7%
	V	60	60	60

END R.O.W. SEC. I	BEGIN R.O.W. SEC. II
NB. STA. 2501+85	NB. STA. 2501+85
SB. STA. 2503+45	SB. STA. 2503+45



CONVENTIONAL SIGNS

R.O.W.
COUNTY LINE
TOWN LINE
FENCE LINE
STONE WALL
UNFENCED PROPERTY
GUARD RAIL
TRAVELED WAY
RAILROAD
RETAINING WALL
CENTER LINE
SURVEY LINE
CULVERT
DROP INLET
TROLLEY POLE
POWER POLE
TELEPHONE POLE
TREES
HEDGE
LIMITED ACCESS

SLOPE RIGHTS SR SR

GROUND ELEVATION DATUM 1955 LINE

GRADE ELEVATION DATUM 1275 LINE

CURVE DATA

DEFLECTION OF ANGLE Δ
DEGREE OF CURVE D
RADIUS OF CURVE R
TANGENT DISTANCE T
LENGTH OF CURVE L
EXTERNAL DISTANCE E
POINT OF INTERSECTION P.I.
POINT OF CURVE P.C.
POINT OF TANGENT P.T.
POINT ON TANGENT P.O.T.
POINT ON SUB-TANGENT P.O.S.T.
POINT ON CURVE P.O.C.

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER OF HIGHWAYS.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION DATED APRIL, 1964, AS APPROVED BY THE BUREAU OF PUBLIC ROADS ON OCTOBER 12, 1964, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

APPROVED	APPROVED	APPROVED	APPROVED	APPROVED	APPROVED	APPROVED
DIRECTOR R.O.W.	ASST. CHIEF ENGINEER	CONSTRUCTION ENGINEER	BRIDGE ENGINEER	DISTRICT ENGINEER	HIGHWAY ENGINEER	CHIEF ENGINEER
DATE 10/3/67	DATE 10/3/67	DATE 10-3-67	DATE 10/3/67	DATE 10/3/67	DATE 10-5-67	DATE 10/5/67

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED

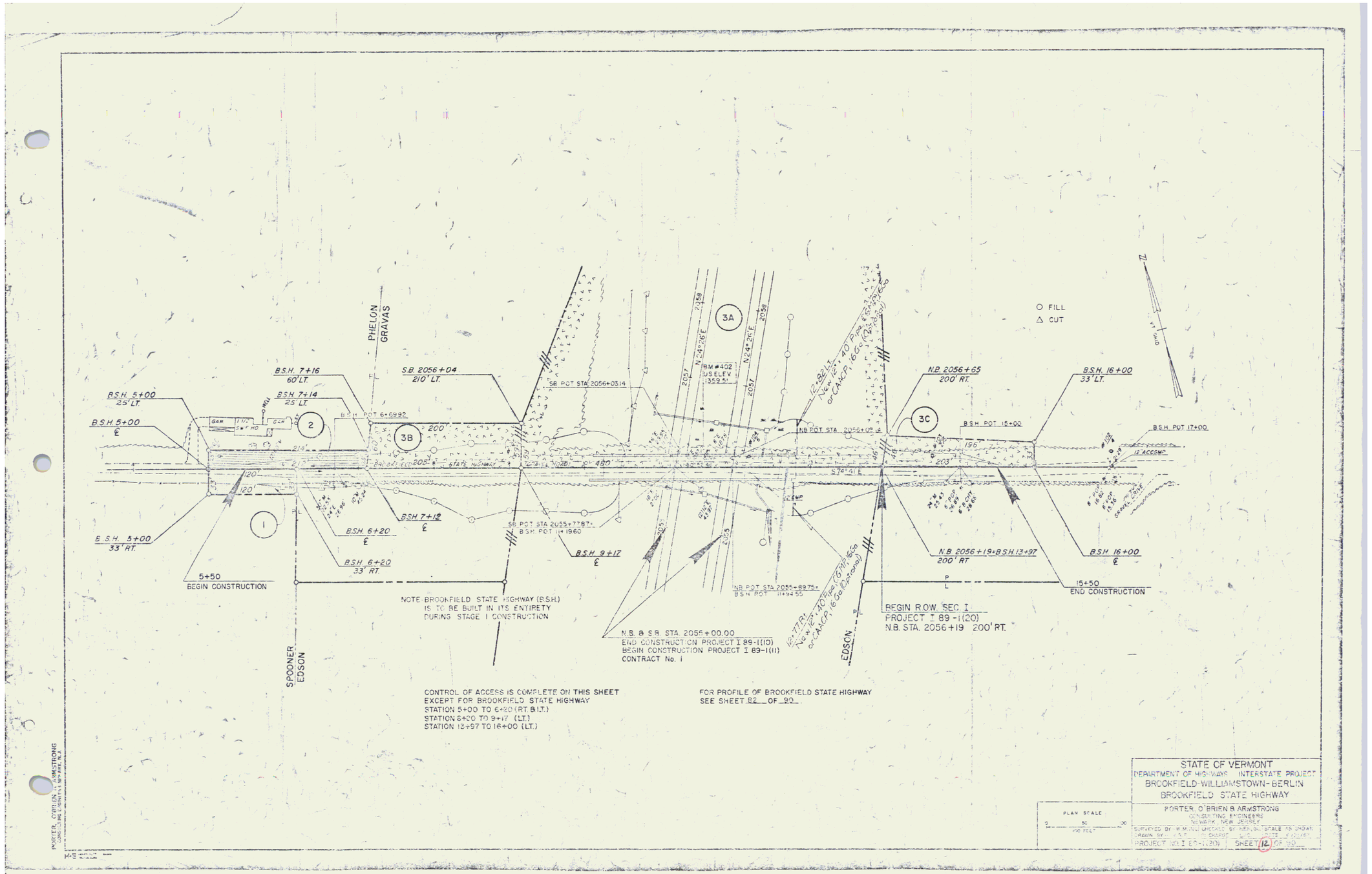
DIVISION ENGINEER DATE

PROJECT I NO 89-1 (20)

SHEET 1 OF 40 SHEETS

ROW Plans Con. Plans

9


PHELON
GRAVAS
B.S.H. 7+16
60' LT.
B.S.H. 5+00
25' LT.
B.S.H. 7+14
25' LT.
B.S.H. 5+00
℄
S.B. 2056+04
210' LT.
S.B. POT STA. 2056+03.14
B.S.H. POT 6+69.92
GAR
W.C.
S.H.
GAR
WELL
2
3B
200'
3A
BM #402
ELEV.
359.51
N 24° 26' E
205.8
205.7
205.8
(E.S.B.L.
New 12"-40 Psi (GMP)
or CMCP, 16 Gal/min)
N.B. 2056+65
200' RT.
B.S.H. 16+00
33' LT.
O FILL
△ CUT
3C
B.S.H. POT 15+00
B.S.H. POT 17+00
12" ACCESS.
N.B. POT STA. 2056+03.14
205' ± STATE HIGHWAY
CURVE DATA
D = 4°30'
R = 1273.24'
T = 50.00'
L = 100.00'
E = 0.98'
S 74° 41' E
196'
203'
120'
120'
1
B.S.H. 5+00
33' RT.
5+50
BEGIN CONSTRUCTION
B.S.H. 6+20
℄
B.S.H. 6+20
33' RT.
B.S.H. 7+12
℄
S.B. POT STA. 2055+77.87±
B.S.H. POT 11+19.60
B.S.H. 9+17
℄
N.B. POT STA. 2055+89.75±
B.S.H. POT 11+94.55
(E.S.B.L.
New 12"-10 Psi (GMP)
or CMCP, 16 Gal/min)
EDSON
N.B. 2056+19=B.S.H. 13+97
200' RT
B.S.H. 16+00
℄
15+50
END CONSTRUCTION
BEGIN R.O.W. SEC. I
PROJECT I 89-1(20)
N.B. STA. 2056+19 200' RT.
SPOONER
EDSON
NOTE: BROOKFIELD STATE HIGHWAY (B.S.H.)
IS TO BE BUILT IN ITS ENTIRETY
DURING STAGE I CONSTRUCTION
N.B. & S.B. STA. 2056+00.00
END CONSTRUCTION PROJECT I 89-1(10)
BEGIN CONSTRUCTION PROJECT I 89-1(11)
CONTRACT No. 1
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
EXCEPT FOR BROOKFIELD STATE HIGHWAY
STATION 5+00 TO 6+20 (RT. & LT.)
STATION 8+20 TO 9+17 (LT.)
STATION 13+97 TO 16+00 (LT.)
FOR PROFILE OF BROOKFIELD STATE HIGHWAY
SEE SHEET 82 OF 90
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS
NEWARK, NEW JERSEY
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS INTERSTATE PROJECT
BROOKFIELD-WILLIAMSTOWN-BERLIN
BROOKFIELD STATE HIGHWAY
PLAN SCALE
0 50 100 FEET
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS
NEWARK, NEW JERSEY
SURVEYED BY W.M.J.U. DATE AS SHOWN
DRAWN BY J.S.F. CHECKED A.E.C. DATE 1-21-61
PROJECT NO. I 89-1(20) SHEET 12 OF 90

* DENOTES STAGE 2 ITEMS

* Standard Steel Post Guard Rail (Shed Side)
Item 606-A
NB - 2056+83.00 – 2056+69.50 Lt
SB - 2065+17.00 – 2057+24.50 Rt
Note: Northbound Lane Standard
(See Existing Post Rail Warrant)
Extends 370.0 into Project I 89-1(10)
Shall Be Constructed in its
Entirety in this Contract

* Jolt Marking
Item 626
SB 2065+50 – 2061+50 Median
2061+50 – 2057+50 Median
2061+50 – 2057+50 Median
SB 2057+50 – 2057+00 Median

PROPERTY LINE FENCE
WITH STEEL POSTS
ITEM 683-E MOD

STA	STA	POS
NORTHBOUND		
2056+41	2075+00	RT
SOUTHBOUND		
2057+60	2076+60	LT

F FILL
C CUT

N.B. B.S.P. STA. 2055+00.00
END PROJECT I-89-1(10)
BEGIN PROJECT I-89-1(11)
CONTRACT No. 1

B.S.H. 7+16
33' LT.
B.S.H. 7+16
40' LT.
B.S.H. 7+16
℄
B.S.H. 9+17
℄
B.S.H. 13+97
℄
B.S.H. 13+97
200' RT.
N.B. 2056+65
200' RT.
N.B. 2060+90
100' RT.
S.B. 2060+76
115' LT.
S.B. 2060+50
115' LT.
N.B. 2065+88
100' RT.
S.B. 2065+98
115' LT.
S.B. 2056+04
210' LT.
PBM #88-1
ELEV.
1377.11
PBM #402
U.S. ELEV.
1360.04
E.M. #402
U.S. ELEV.
1360.46
BRIDGE NO. 088/129
BRIDGE OVER
GRAVES BROOK
BRIDGE NO. 088/130
BRIDGE OVER
GRAVES BROOK
BEGIN BRIDGE
STA. 10+29.87
END BRIDGE
RESUME HIGHWAY
STA. 10+59.87
SE PCT STA 2056+77.87
BSM PCT 11+96.0
SE PCT STA 2060+61.92
SE PCT STA 2065+98.07
NB PCT STA 2056+89
BSM PCT 11+94.5
NB PCT STA 2056+03.14
SB PCT STA 2056+03.14
SPOONER
FISKE ESTATE
GRAVES
SPOONER
GRAVES
FISKE
ESTATE
FISKE
ESTATE
FISKE
ESTATE
WATCH LINE
N 24° 26' E
N 24° 26' E
876'
481'
437'
(388')
(848')
(1035')
2057
2058
2059
2060
2062
2063
2064
2065
2066
2067
2068
2069
3A
3B
3C
4
5

NOTE
SEE SHEETS BR100 SERIES
FOR THE ABOVE STRUCTURE

FOR PLAN AND PROFILE OF
BROOKFIELD STATE HIGHWAY
SEE SHEETS 12+82 OF 90

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
EXCEPT FOR BROOKFIELD STATE HIGHWAY
STATION 2+00 TO 6+20 (RT. & LT.)
STATION 6+20 TO 6+47 (LT.)
STATION 13+87 TO 14+00 (LT.)

FED. ROW. SEC. I
PROJECT I 89-1(20)
NB STA 2056+19.200' RT.
SB STA 2056+45.200' LT.

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(20)
SECTION NO. I
SHEET 13 OF 90

11

* DENOTES STAGE 2 ITEMS

* Jute Matting
Item 643
2070 + 00 - 2072 + 50 Median
2071 + 55 - 2078 + 00 Median
2077 + 50 - 2079 + 50 Median

PROPERTY LINE FENCE
WITH STEEL POSTS
ITEM 583-2.MOD

SB STA		NB STA
NORTHBOUND		
2070+00	2080+00	1 FET
SOUTHBOUND		
2071+00	2084+00	1

Sb 2076+37 — 2077+25
SB 2078+50 — 2080+00
SB 2080+48 — 2085+00
Nb 2079+29 — 2081+25

FILL
CUT

FREEWARE
(US Rte.
No. 7)

S.B. 2078+40.35
115' LT

SB PC STA 2078+42.35

SB PC STA 2083+00.00

888'

644'

MATCH LINE SEE SHEET No. 13

MATCH LINE SEE SHEET No. 15

2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084

N 21°26 E

(5)

1038'

70'

NB POT STA 2074+24.89

NB PC STA 2079+36.25

N.B. 2079+36.25
100' RT

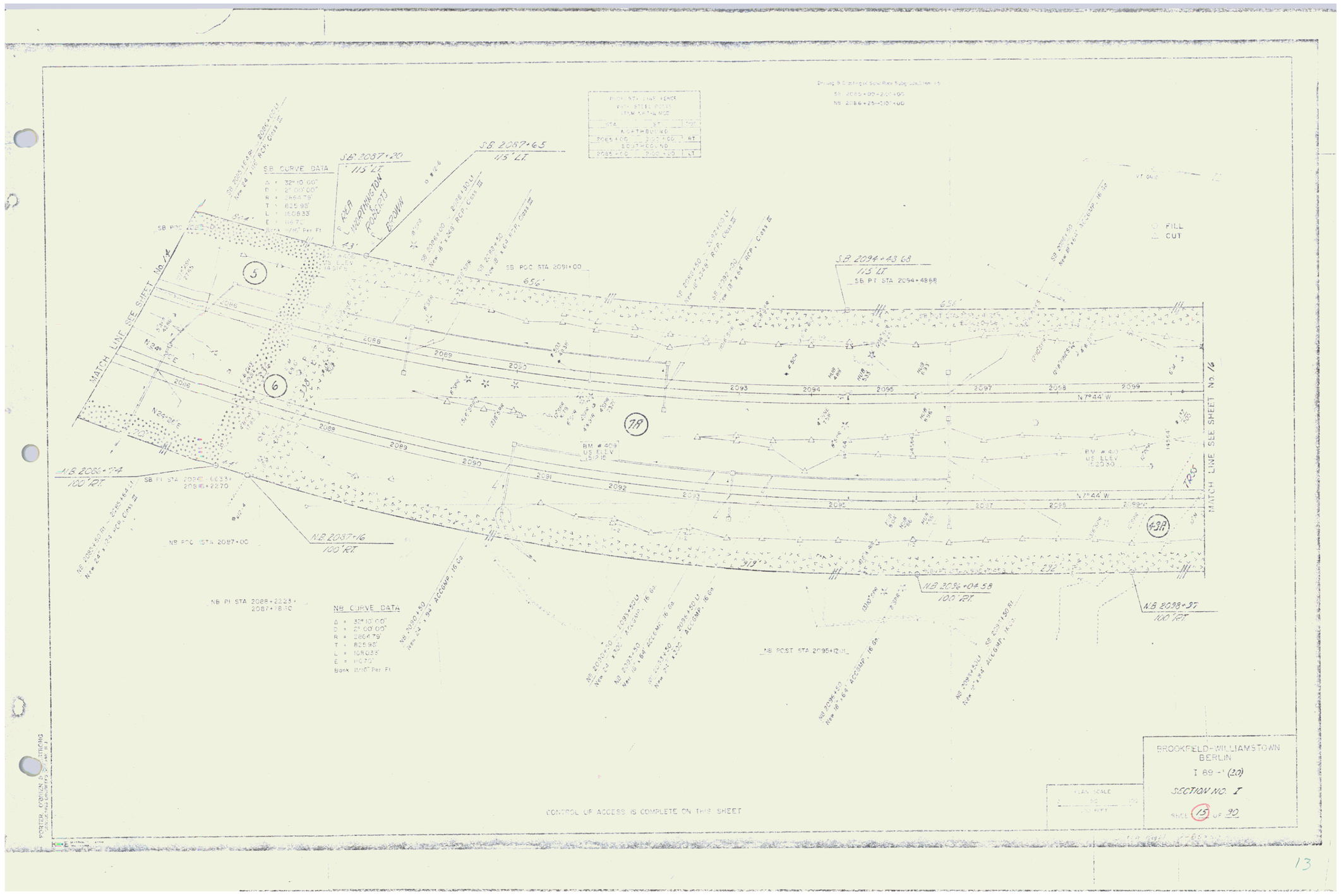
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 40 100
FEET

BROOKFIELD-WILLIAMSTOWN
PERLIN
I 89-1(20)
SECTION NO. 1
SHEET 14 OF 90

PORTER, DEREN & ARMSTRONG
CONSULTING ENGINEERS
BARRE, VERMONT

12


SB CURVE DATA
Δ = 32°10'00"
D = 22°00'00"
R = 260.79'
T = 82.98'
L = 160.83'
E = 11.70'
Bank 11/16" Per Ft
SB PC STA 2086+74.74
SB PT STA 2088+22.24
SB PI STA 2087+20
115' LT.
SB 2087+65
115' LT.
SB PC STA 2091+00
656'
SB 2094+43.68
115' LT.
SB PT STA 2094+48.68
656'
MATCH LINE SEE SHEET No. 14
MATCH LINE SEE SHEET No. 16
N24°26'E
N7°44'W
N7°44'W
NB 2086+74
100' RT.
NB PC STA 2087+00
NB 2087+16
100' RT.
NB PI STA 2088+22.24
2087+18.10
NB CURVE DATA
Δ = 32°10'00"
D = 21°00'00"
R = 260.79'
T = 82.98'
L = 160.83'
E = 11.70'
Bank 11/16" Per Ft
NB POST STA 2095+12.01
NB 2096+04.58
100' RT.
NB 2098+37
100' RT.
BM # 409
US ELEV
1512.16
BM # 410
US ELEV
1520.30
FILL
CUT
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
PORTER, OBRIEN & ARMSTRONG
BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1 (20)
SECTION NO. 1
SHEET 15 OF 90
PLAN SCALE
50 0 100
100 FEET
13

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type) Item 204
NB 2111+50 Lt - 53 Ctr + 80 Rt

* Triple Cable Guard Rail w/ Light Type Posts Item 606
SB 2111 — 2114+00 Lt
NB 2105+20 - 2114+00 Lt
NB 2109+90 - 2114.00

* Bituminous Concrete Surface For Gutters & Traffic Islands Item 554
NB 2107+50 - 2107+72 Rt
NB 2107+00 - 2108+05 Lt

Driving & Blasting of Solid Rock Subgrade, Item 115
SB 2100+00 - 2105+60
SB 2113+75 - 2114+00
NB 2100+00 - 2107+90

Bridge Railing Item 572
NB 2108+38 - 2108+60 Rt
NB 2105+20 - 2110+45 Rt
NB 2105+25 - 2107+50 Lt
NB 2108+45 - 2110+ Lt
SB 2106+30 - 2106+55 Rt
SB 2106+45 - 2111+38 Rt
SB 2106+60 - 2106+84 Lt
SB 2110+10 - 2112+95 Lt

Galvanized Chain Link Fence Item 581
6'-0" High
S.A. 1 — 8+50 — 22+70 Lt.
(Mesh to be placed facing cattle pass, 5'-0" Post Spacing)

PROPERTY LINE FENCE WITH STEEL POSTS ITEM SP3-E MOD

STA		STA	POS
NORTHBOUND			
2105 + 20	—	2107 + 67	RT
2109 + 60	—	2114 + 00	RT
SOUTHBOUND			
2100 + 00	—	2109 + 85	LT
2110 + 70	LT	Rem. SA-1 2+40 Lt	RT

NB Lt 2108+15 — 2108+85 SB Rt
NB Lt 2109+38 — 2110+17 SB Rt

RELOCATED I-68 CURVE DATA
Δ = 2° 19' 00"
D = 2° 00' 00"
R = 2874.7
T = 29.00
E = 0.14
Bank 1/2 Per Ft

SPUR T-65 CURVE DATA
Δ = 50° 43' 00"
D = 95° 29' 35"
R = 60.00
T = 61.48
E = 10.28
E = 30.30
Bank = 2/8 Per Ft

RELOCATED SA-1 CURVE DATA
Δ = 64° 28' 06"
D = 124° 00' 00"
R = 46.21
T = 29.95
E = 9.19
Bank 1" Per Ft.

SPUR T-65 1+59
SPUR T-65 1+59
33' RT.
RELOC T-65 PI STA 21+90.07
SPUR T-65 POT STA 21+52.9

SB 2100+50
Two 16' X 64' Accomp. 16.00

SB 2101+05
115' LT.

SB 2108+09
115' LT.

SB 2111+27
140' LT.

RELOC SA-1 24+87
33' RT.

RELOC SA-1 POT STA 24+00

RELOC SA-1 POT STA 22+83.66

RELOC SA-1 PI STA 25+97.24

RELOC T-65 ST 22+83.66

RELOC SA-1 POT STA 23+50.00

RELOC SA-1 POT STA 24+00

RELOC SA-1 POT STA 23+50.00

RELOC SA-1 POT STA 24+00

RELOC SA-1 POT STA 24+00

RELOC SA-1 POT STA 24+

* DENOTES STAGE 2 ITEMS

Plank Guard Rail
Item 540
NB 2121+10 RT 56 LF

* Type I Cable Guard Rail
w/Steel Posts
Item 542
NB 2114+00 – 2116+06 Rt.
NB 2114+00 – 2116+97 Lt.
SB 2114+00 – 2117+09 Rt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 962-2 MOD.		
STA	STA	POS
NORTHBOUND		
2114+00	2124+00	RT
INTERCHG		
PMS SA-1 2+00	2138+00	LT

RELOCATED SA-1
CURVE DATA
Δ = 34° 21' 06"
D = 5° 15' 03"
R = 1091.35'
T = 337.11'
L = 654.32'
E = 7.45'
Pavt = 3/4" per Ft

Overlay to Alleviate Split Pick Substrate Item NE
NB 2114+00 – 2116+06
NB 2116+97 – 2117+09
SB 2114+00 – 2117+09
NB 2117+00 – 2127+00

FILL
CUT

MATCH LINE SEE SHEET No. 16

MATCH LINE SEE SHEET No. 18

MATCH LINE SEE SHEET No. 32

APPROX LIMIT OF INTERFERENCE OF ELECTRIC

BM #413
U.S. ELEV
1528.91

BM #415
U.S. ELEV
1533.40

BM #417
U.S. ELEV
1549.37

BM #45
U.S. ELEV
1566.22

RELOC SA-1 PI 34+39.44
34+38.28

RELOC SA-1 PI 35+66.02 =
36+55.96
EQ +10.06

RELOC SA-1 POT 36+00 =
SB 2124+50.00 104.34' RT
NB 2122+50.00 25.00 RT

RELOC SA-1 PI 33+11.70
33' LT.

RELOC SA-1 33+11.70
33' RT.

RELOC SA-1 41+36
33' RT.

SB 2115+25
130' LT.

N.S. 2117+04
47' LT.

N.B. 2120+65
100' RT.

N.B. 2126+03
100' RT.

N 7° 44' W

NB POT STA 2117+23.05

FOR PLAN AND PROFILE OF
RELOCATED SA-1
SEE SHEETS 40-45 OF 406

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
EXCEPT FOR RELOCATED SA-1 STATION 10+00 (± RADIUS)

PLAN SCALE
1" = 50'

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1 (20)
SECTION NO. 1
SHEET 17 OF 90

PORTER, COWEN & ARMSTRONG
CONSULTING ENGINEERS PRINCETON, N.J.

15

* DENOTES STAGE 2 ITEMS

* Three Cable Guard Rail w/Steel Posts Item 542
NB 2140+02 – 2142+00 Rt.
NB 2140+97 – 2142+00 Lt.
SB 2138+98 – 2142+00 Rt.
SB 2139+52 – 2142+00 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 643-5 MOD		
STA	STA	SIDE
NORTHBOUND		
2128+00	2142+00	RT.
SOUTHBOUND		
2128+00	2142+00	LT.

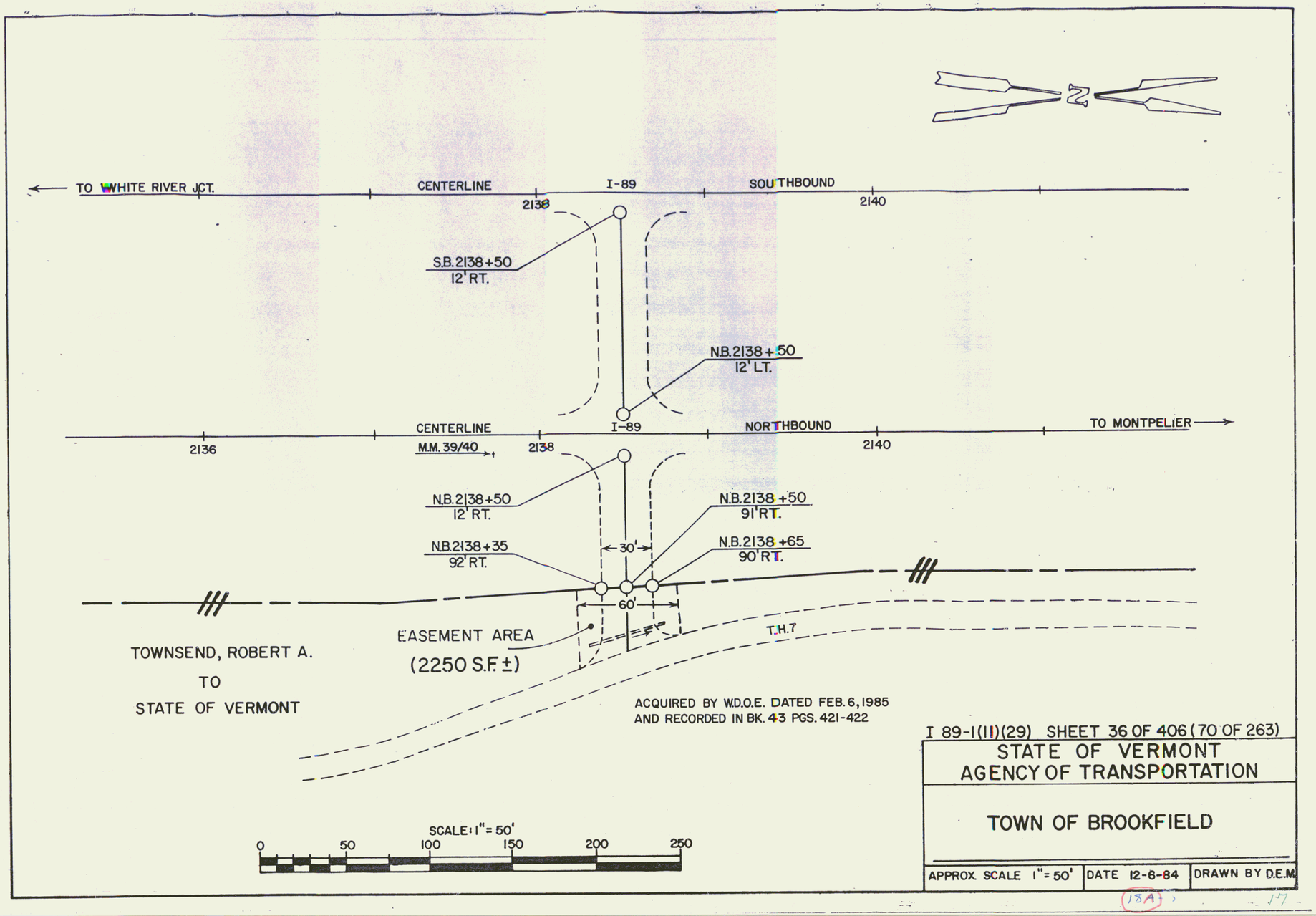
Construct U-Turn, Med. Opening
NB 2138+50 – 12' Lt
SB 2138+50 – 12' Rt

Drilling to Blasting of Solid Rock Subgrade, Item 115
SB 2126+00 – 2137+50
NB 2127+00 – 2135+50

VT. CRS

○ FILL
△ CUT

(100)
(384')
10" PINE
10" MAP
30" RCP
CABLE TEL.
CABLE TEL.
CABLE TEL.



I 89-1(11)(29) SHEET 36 OF 406 (70 OF 263)

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF BROOKFIELD

APPROX SCALE 1" = 50'	DATE 12-6-84	DRAWN BY D.E.M.

18A

* DENOTES STAGE 2 ITEMS

* Three Cable Guard Rail w/Lt.St. Posts Item 538
NB. 2140+92 – 2142+00 Rt.
NB.2139+77 – 2142+00 Lt.
SB. 2128+ – 2142+00 Rt.
SB.2139+ – 2142+00 Lt.

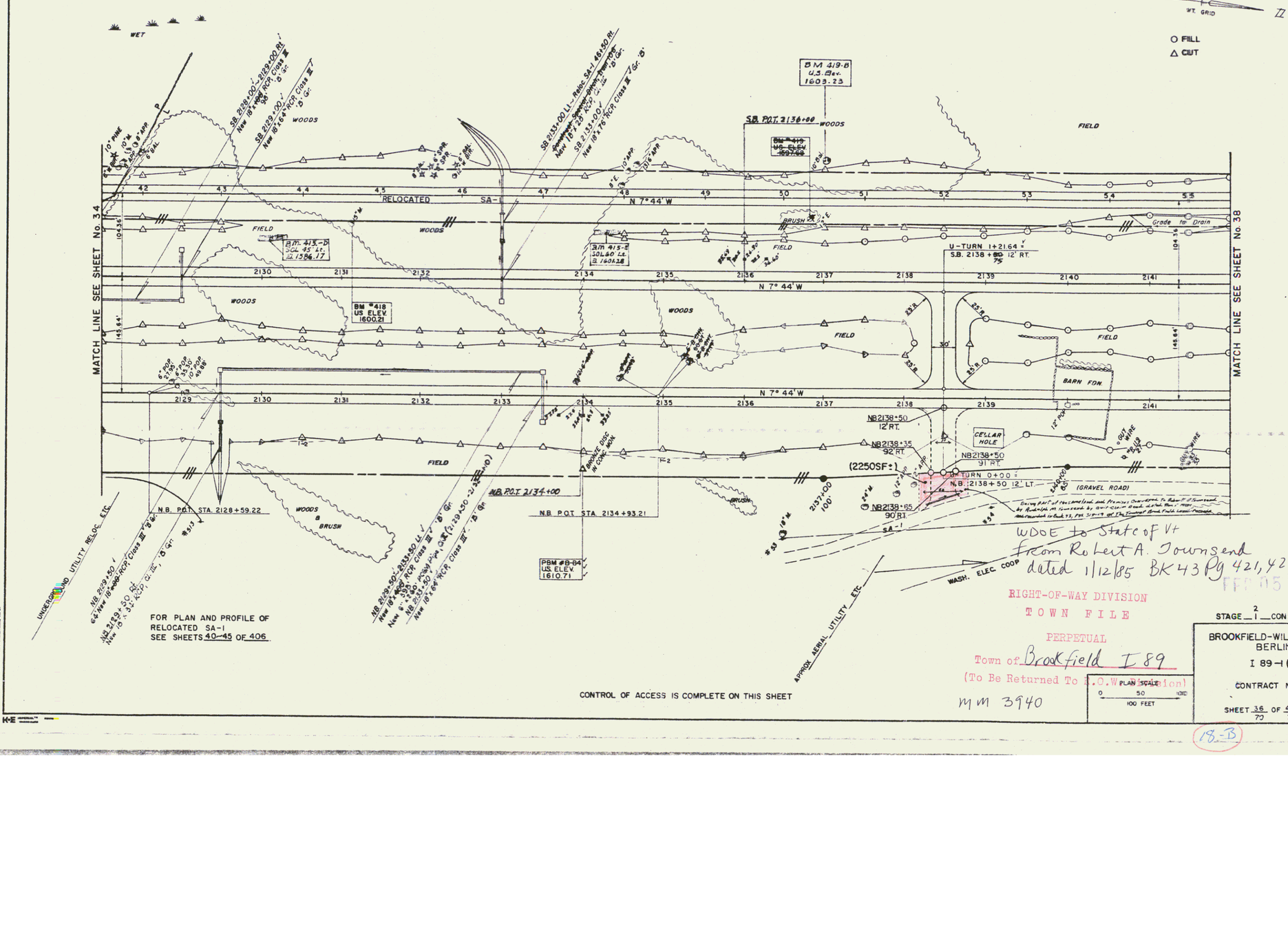
PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2128+00	2142+00	RT.
SOUTHBOUND		
2128+00	2142+00	LT.

Construct U-Turn Median Opening
NB. 2138+50 – 12' Lt.
SB. 2138+ – 12' Rt.

Drilling & Blasting of Solid Rock Subgrade, Item 115
SB 2128+00 – 2138+75
NB 2123+00 – 2138+75

MT. GRID

○ FILL
△ CUT



FOR PLAN AND PROFILE OF RELOCATED SA-1 SEE SHEETS 40–45 OF 406

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

WDOE to State of Vt
from Robert A. Townsend
dated 1/12/85 BK 43 Pg 421, 422

FEB 05 1986

RIGHT-OF-WAY DIVISION
TOWN FILE
PERPETUAL
Town of Brookfield I 89
(To Be Returned To R.O.W. Division)

MM 3940

PLAN SCALE
0 50 100
100 FEET

STAGE 2 – 1 – CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 1

SHEET 36 OF 406
70 263

18-B

18

* DENOTES STAGE 2 ITEMS

Plank Guard Rail
Item 540
NB 2154 + 85 Rt 104 LF
SB 2152 + 00 Lt 24 LF

* Three Cable Guard Rail w/Steel Posts
Item 542
NB 2142+00 – 2144+52 Rt
NB 2142+00 – 2150+48 Lt
SB 2142+00 – 2150+04 Rt
SB 2140+00 – 2151+92 Lt

RELOCATED SA-1
CURVE DATA
Δ = 55° 43' 40"
D = 45° 00' 00"
R = 109.35'
T = 57.69'
L = 106.48'
E = 14.32'
BANK = 3/4" PER FT.

PROPERTY LINE FENCE
WITH STEEL POSTS
ITEM 613-II-A-1

STA.	NO.	POS.
NORTHBOUND		
2142+00	2157+00	Rt
SOUTHBOUND		
2140+00	2157+00	Lt

Drainage Boxing at Solid Rock Culverts, Item 614
SB 2155+50 – 2157+00
NB 2140+00 – 2150+00
NB 2151+25 – 2157+00

RELOC SA-1 64+93
NEW 30" RCP ACCEMP 12 GA
RELOC SA-1 64+45
33' LT.
RELOC SA-1 P.O.C. 64+00
RELOC SA-1 64+67
33' RT.
6'x3' STONE BOX CULVERT
RELOC SA-1 62+50 RT 18" COMP
REMOVE ITEM 100 CONSTRUCT
SPECIAL DITCH, ITEM 604
SA-1 P.O.C. 62+50
RELOC SA-1 P.O.C. 58+21.20
SB 2153+20.38
125' LT.
SB P.C. 2153+20.38
RELOC SA-1 63+50.26
63+05.82
SB 2154+50
96"x 78" x 80' ACCEMP 16 GA
RELOC SA-1 61+60
33' RT.
SB 2150+27
125' LT.
BM #421
US ELEV
1611.38
BM #422
US ELEV
1643.29
BM #420
US ELEV
1601.79
NB 2140+00
50' RT.
NB 2152+00
55' RT.
NB 2146+73
85' RT.
NB 2155+50
100' RT.
N.B. P.C. STA 2154+14.5
N.B. P.O.T. STA 2153+20.38
200'
329'
335'
222'
293'
1345'
104.6'
FILL
CUT
TOWN ROAD #8
(GRAVEL ROAD)
SA-1
CMP
18" COMP
N 7° 44' W
2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156

NB 2147+00
New 18" x 118' ACCOMP, 12 GA
SEE BELOW
New 22" x 140' ACCOMP, 16 GA
NB 2146+50 – 2147+50 Rt
Construct Special Ditch, Item 604
SB 2150+18
RELOC 18" RCP 18" x 30" ACCOMP
SB 2150+18
Remove Item 120
SB 2150+18
Remove Item 120
NB 2154+60
Construct Special Ditch, Item 604
NB 2154+60
New 18" x 78' ACCOMP, 16 GA

FOR PLAN AND PROFILE OF
RELOCATED SA-1
SEE SHEETS 40-45 OF 406.

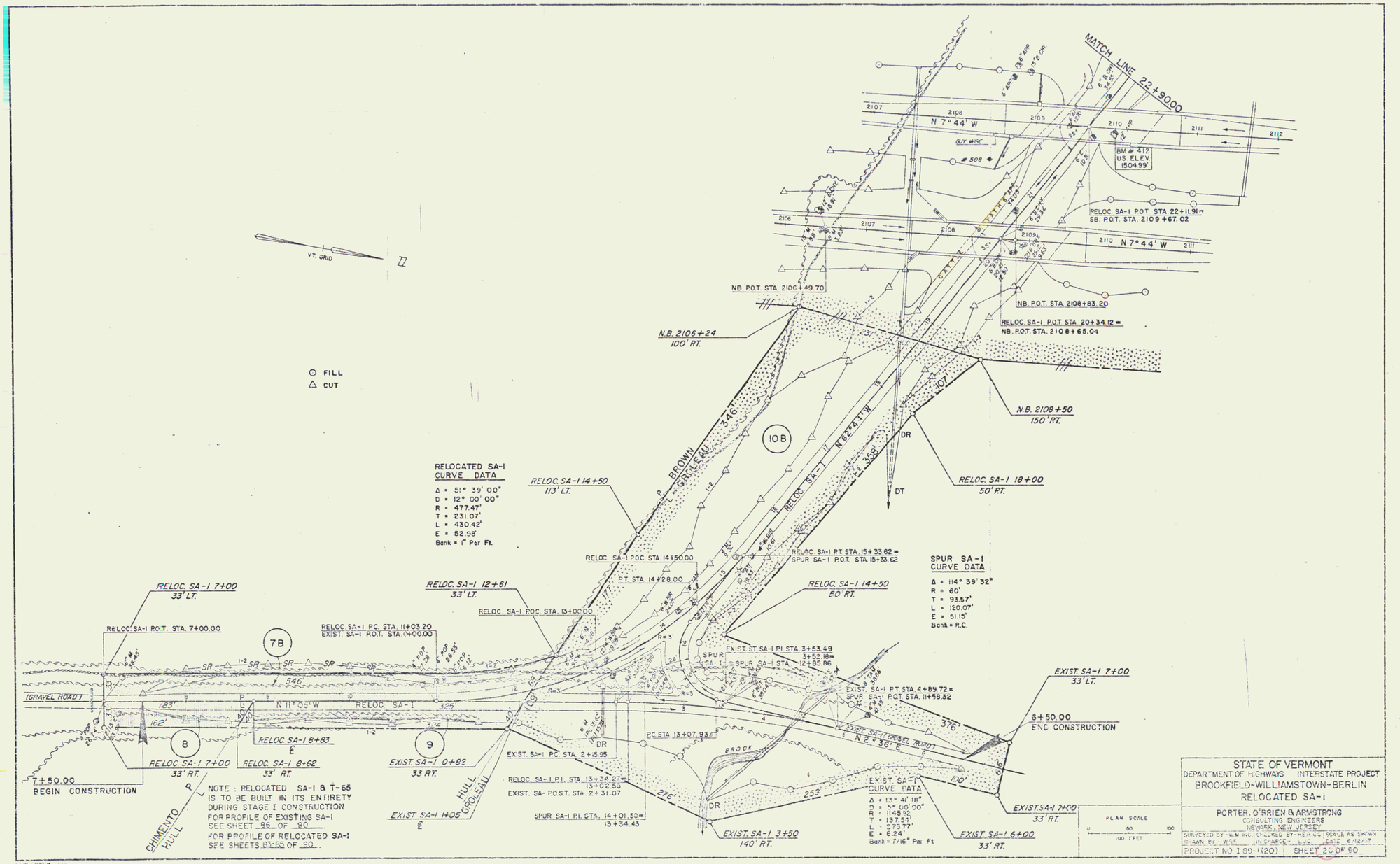
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
EXCEPT FOR RELOCATED SA-1 STA 55+40 TO 67+00 (LT.)
AND STA 61+67.10 TO 67+00 (RT.)

MATCH LINE SEE SHEET No. 18
MATCH LINE SEE SHEET No. 25

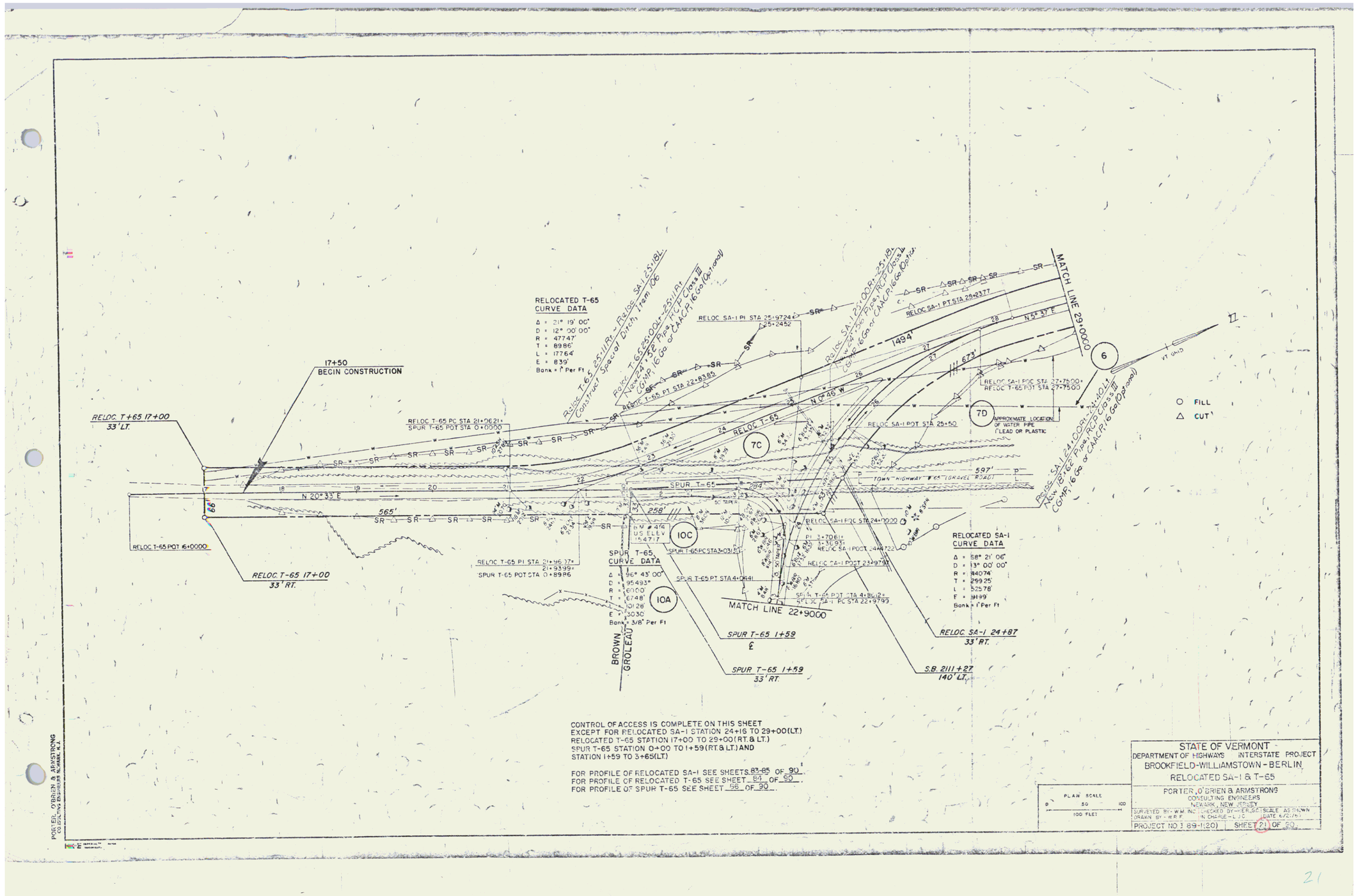
POTTER, DORAN & ARMSTRONG
CONSULTING ENGINEERS
HARTFORD, CONN.

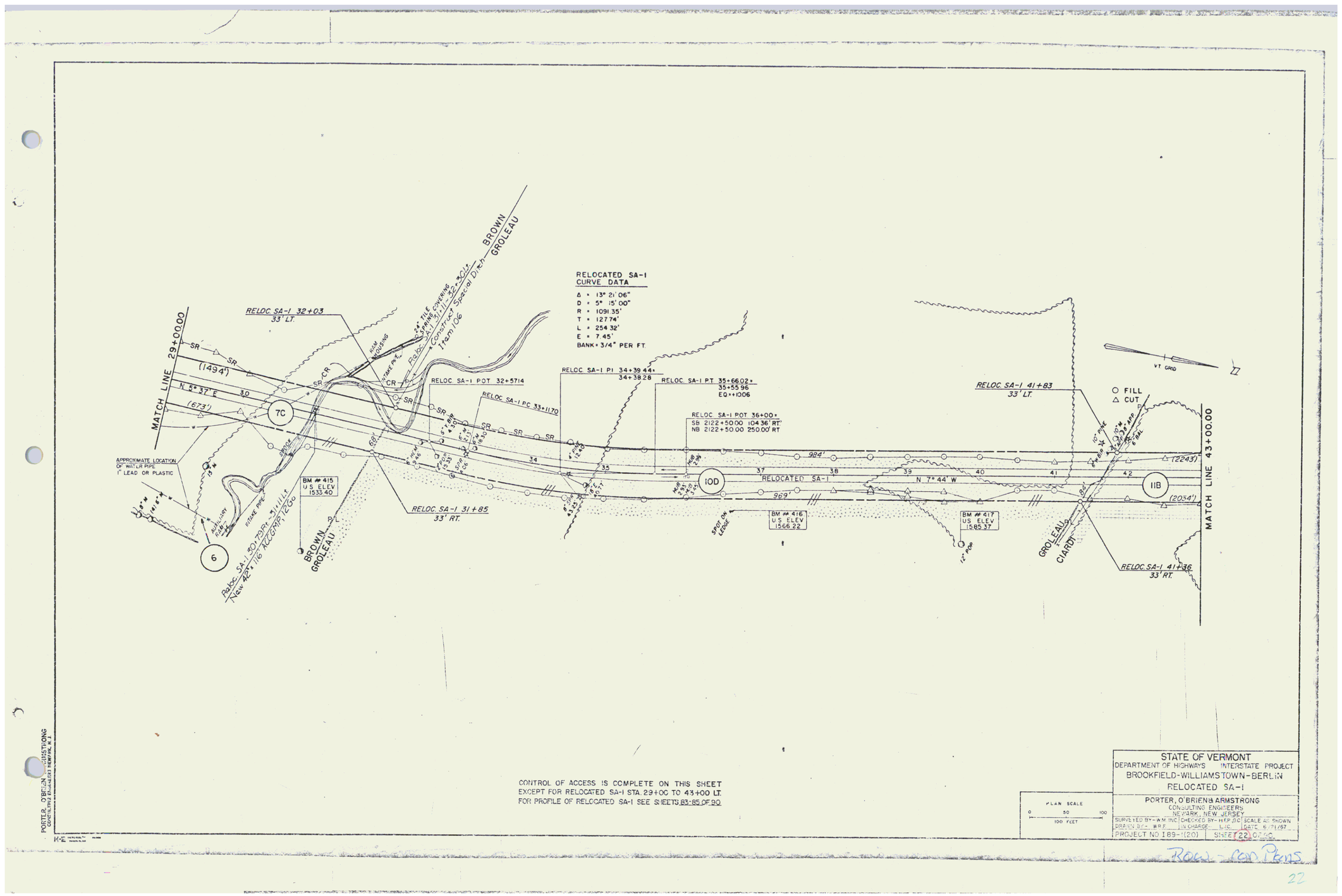
BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1 (20)
SECTION NO. I
SHEET 19 OF 30

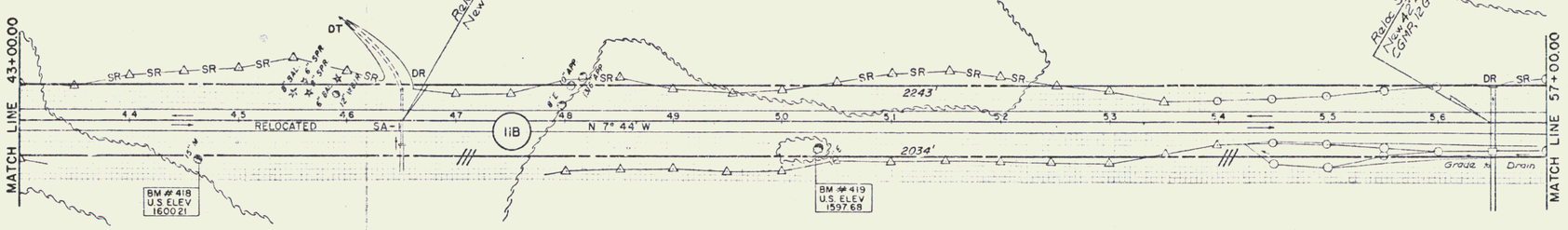
19


MATCH LINE 22+9000
N 7° 44' W
BM # 412
U.S. ELEV.
1504.99'
RELOC. SA-1 P.O.T. STA. 22+11.91 =
SB. P.O.T. STA. 2109+67.02
N 7° 44' W
NB. P.O.T. STA. 2106+49.70
NB. P.O.T. STA. 2108+83.20
RELOC. SA-1 P.O.T. STA. 20+34.12 =
NB. P.O.T. STA. 2108+65.04
N.B. 2106+24
100' RT.
N.B. 2108+50
150' RT.
VT. GRID
FILL
CUT
10B
DR
DT
N 62° 44' W
RELOCATED SA-1
CURVE DATA
Δ = 51° 39' 00"
D = 12° 00' 00"
R = 477.47'
T = 231.07'
L = 430.42'
E = 52.98'
Bank = 1" Per Ft.
RELOC. SA-1 14+50
113' LT.
RELOC. SA-1 18+00
50' RT.
RELOC. SA-1 P.O.C. STA. 14+50.00
P.T. STA. 14+28.00
RELOC. SA-1 P.T. STA. 15+33.62 =
SPUR SA-1 P.O.T. STA. 15+33.62
SPUR SA-1
CURVE DATA
Δ = 114° 39' 32"
R = 60'
T = 93.57'
L = 120.07'
E = 51.15'
Bank = R.C.
RELOC. SA-1 7+00
33' LT.
RELOC. SA-1 12+61
33' LT.
RELOC. SA-1 P.O.C. STA. 13+00.00
RELOC. SA-1 14+50
50' RT.
RELOC. SA-1 P.O.T. STA. 7+00.00
RELOC. SA-1 P.C. STA. 11+03.20
EXIST. SA-1 P.O.T. STA. 0+00.00
7B
EXIST. ST. SA-1 P.I. STA. 3+53.49
3+52.18 =
12+85.86
SPUR SA-1 STA.
EXIST. SA-1 P.T. STA. 4+89.72 =
SPUR SA-1 P.O.T. STA. 11+58.52
EXIST. SA-1 7+00
33' LT.
6+50.00
END CONSTRUCTION
[GRAVEL ROAD]
N 11° 05' W
RELOC. SA-1
8
9
RELOC. SA-1 8+83
℄
RELOC. SA-1 7+00
33' RT.
RELOC. SA-1 8+62
33' RT.
EXIST. SA-1 0+89
33' RT.
7+50.00
BEGIN CONSTRUCTION
PC STA 13+07.93
EXIST. SA-1 P.C. STA. 2+15.95
RELOC. SA-1 P.I. STA. 13+34.23 =
13+02.53
EXIST. SA-1 P.O.S.T. STA. 2+31.07
SPUR SA-1 P.I. STA. 14+01.50 =
13+34.43
EXIST. SA-1 3+50
140' RT.
EXIST. SA-1 CURVE DATA
Δ = 13° 41' 18"
D = 4° 00' 00"
R = 1145.92'
T = 137.54'
L = 273.77'
E = 8.24'
Bank = 7/16" Per Ft.
EXIST. SA-1 6+00
33' RT.
EXIST. SA-1 7+00
33' RT.
N 2° 36' E
BROOK
CHIMENITO
HULL
GROLEAU
P. BROWN
L. GROLEAU
NOTE : RELOCATED SA-1 & T-65
IS TO BE BUILT IN ITS ENTIRETY
DURING STAGE I CONSTRUCTION
FOR PROFILE OF EXISTING SA-1
SEE SHEET 96 OF 90
FOR PROFILE OF RELOCATED SA-1
SEE SHEETS 87-95 OF 90.
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS INTERSTATE PROJECT
BROOKFIELD-WILLIAMSTOWN-BERLIN
RELOCATED SA-1
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS
NEWARK, NEW JERSEY
PLAN SCALE
0 50 100
100 FEET
SURVEYED BY - K.M. INC. | CHECKED BY - H.E.K.C. | SCALE AS SHOWN
DRAWN BY - W.F.F. | IN CHARGE - L.J.C. | DATE - 6/12/67
PROJECT NO. I 89-1(20) | SHEET 20 OF 90

20


RELOCATED T-65
CURVE DATA
Δ = 21° 19' 00"
D = 12° 00' 00"
R = 477.47'
T = 89.86'
L = 177.64'
E = 8.39'
Bank = 1" Per Ft
RELOC T-65 25+11 Rt. to RELOC SA-1 25+18L. Construct Special Ditch, Typ. 1 from 106
RELOC T-65 25+10 Rt. to 25+11 Rt. New 24" 52' Pipe, RCP Class III CGMP, 16 Ga or CAALP, 16 Ga (Opt. one)
RELOC SA-1 25+10 Rt. to 25+18L. New 24" 52' Pipe, RCP Class III CGMP, 16 Ga or CAALP, 16 Ga (Opt. one)
17+50
BEGIN CONSTRUCTION
RELOC T+65 17+00
33' LT.
RELOC T-65 PC STA 21+06.21
SPUR T-65 POT STA 0+00.00
RELOC T-65 PT STA 22+83.85
RELOC SA-1 PI STA 25+97.24
25+24.52
RELOC SA-1 PT STA 28+23.77
MATCH LINE 29+00.00
1494'
N 5° 37' E
RELOC SA-1 POC STA 27+75.00
RELOC T-65 POT STA 27+75.00
673'
N 0° 46' W
RELOC T-65
RELOC SA-1 POT STA 25+50
APPROXIMATE LOCATION OF WATER PIPE (LEAD OR PLASTIC)
TOWN HIGHWAY #64 (GRAVEL ROAD)
597'
565'
N 20° 33' E
RELOC T-65 POT 16+00.00
RELOC T-65 17+00
33' RT.
RELOC T-65 PI STA 21+96.77
21+93.99
SPUR T-65 POT STA 0+89.86
SPUR T-65
284'
258'
50' TERR.
BM # 474
U.S. ELEV.
(547.7)
SPUR T-65 PC STA 3+03.21
SPUR T-65 PT STA 4+04.91
SPUR T-65 POT STA 4+86.12
RELOC SA-1 PC STA 22+97.95
MATCH LINE 22+90.00
SPUR T-65
CURVE DATA
Δ = 96° 43' 00"
D = 95.493°
R = 60.00'
T = 67.48'
L = 101.28'
E = 30.30'
Bank = 3/8" Per Ft
BROWN GROLEAU
SPUR T-65 1+59
℄
SPUR T-65 1+59
33' RT.
RELOC SA-1 PC STA 24+70.00
RELOC SA-1 POT 24+44.72
RELOC SA-1 POT 23+97.91
PI 3+70.61
3+30.95
RELOC SA-1
CURVE DATA
Δ = 58° 21' 06"
D = 13° 00' 00"
R = 440.74'
T = 299.25'
L = 525.78'
E = 91.99'
Bank = 1' Per Ft
RELOC SA-1 24+87
33' RT.
S.B. 2111+27
140' LT.
RELOC SA-1 24+40 LT. to 24+87 LT. New 18" 62' Pipe, RCP Class III CGMP, 16 Ga or CAALP, 16 Ga (Opt. one)
6
7C
7D
10A
10C
FILL
CUT
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
EXCEPT FOR RELOCATED SA-1 STATION 24+16 TO 29+00 (LT.)
RELOCATED T-65 STATION 17+00 TO 29+00 (RT. & LT.)
SPUR T-65 STATION 0+00 TO 1+59 (RT. & LT.) AND
STATION 1+59 TO 3+65 (LT.)
FOR PROFILE OF RELOCATED SA-1 SEE SHEETS 83-85 OF 90
FOR PROFILE OF RELOCATED T-65 SEE SHEET 84 OF 90
FOR PROFILE OF SPUR T-65 SEE SHEET 86 OF 90
PORTER, O'BRIEN & ARMSTRONG CONSULTING ENGINEERS NEWARK, N.J.
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS INTERSTATE PROJECT
BROOKFIELD-WILLIAMSTOWN-BERLIN
RELOCATED SA-1 & T-65
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS
NEWARK, NEW JERSEY
PLAN SCALE
0 50 100
100 FEET
SURVEYED BY - W.M. INC. CHECKED BY - H.E.R., S.C.I. SCALE AS SHOWN
DRAWN BY - W.R.F. IN CHARGE - J.J.C. DATE 6/22/67
PROJECT NO. I 89-1(20) SHEET 21 OF 90


RELOCATED SA-1
CURVE DATA
Δ = 13° 21' 06"
D = 5° 15' 00"
R = 1091.35'
T = 127.74'
L = 254.32'
E = 7.45'
BANK = 3/4" PER FT.
RELOC SA-1 32+03
33' LT.
RELOC SA-1 POT 32+57.14
RELOC SA-1 PC 33+11.70
RELOC SA-1 PI 34+39.44
34+38.28
RELOC SA-1 PT 35+66.02
35+55.96
EQ = 1006
RELOC SA-1 POT 36+00
SB 2122+50.00 104.36' RT
NB 2122+50.00 250.00' RT
RELOC SA-1 41+83
33' LT.
MATCH LINE 29+00.00
MATCH LINE 43+00.00
(1494')
N 5° 37' E
(673')
(2243')
N 7° 44' W
(2054')
984'
969'
RELOCATED SA-1
7C
10D
11B
6
BM # 415
U S ELEV
1533.40
BM # 416
U S ELEV
1566.22
BM # 417
U S ELEV
1585.37
APPROXIMATE LOCATION OF WATER PIPE 1" LEAD OR PLASTIC
RELOC SA-1 30+73 RT - 31+11 LT
New 42" R.C.C.M.P. Culvert
RELOC SA-1 31+85
33' RT.
RELOC SA-1 41+36
33' RT.
BROWN
GROLEAU
CIARDI
SPOT ON LEDGE
12" POB
FILL
CUT
VT GRID
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
EXCEPT FOR RELOCATED SA-1 STA. 29+00 TO 43+00 LT.
FOR PROFILE OF RELOCATED SA-1 SEE SHEETS 83-85 OF 90
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS INTERSTATE PROJECT
BROOKFIELD-WILLIAMSTOWN-BERLIN
RELOCATED SA-1
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS
NEWARK, NEW JERSEY
SURVEYED BY - W.M. INC. CHECKED BY - H.E.P. JR. SCALE AS SHOWN
DRAWN BY - W.R.F. IN CHARGE - L.I.C. DATE 6/71/67
PROJECT NO I 89-1(20) SHEET 22 OF 90
PLAN SCALE
0 50 100
100 FEET
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.
ROW - COR Pkgs
22



CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
EXCEPT FOR RELOCATED SA-1 STATION 43+00 TO 57+00 LT

FOR PROFILE OF RELOCATED SA-1 SEE SHEETS 83-85 OF 90

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS, NEWARK, N.J.

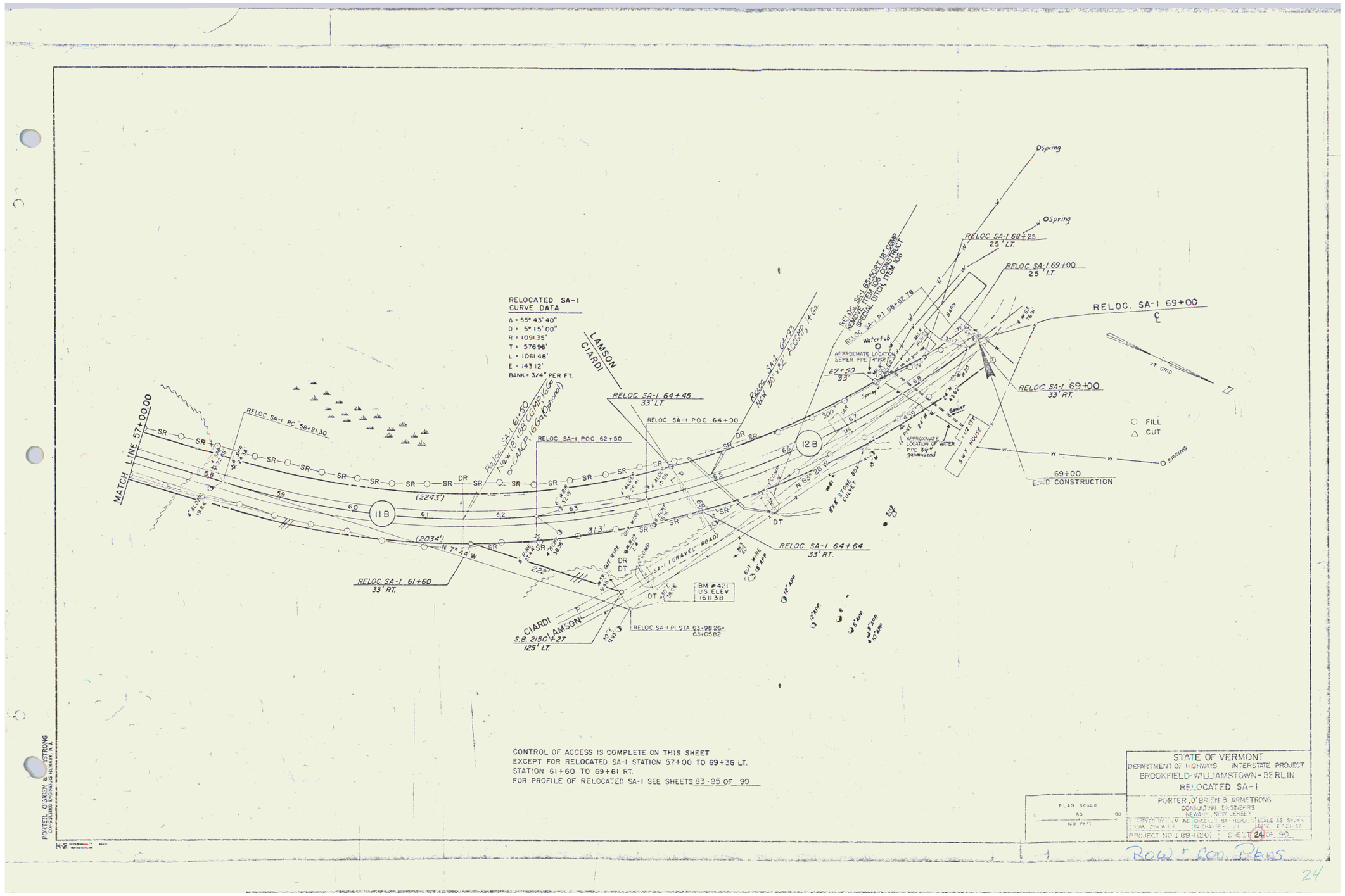
PLAN SCALE
0 50 100
100 FEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS INTERSTATE PROJECT
BROOKFIELD-WILLIAMSTOWN-BERLIN
RELOCATED SA-1

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS
NEWARK, NEW JERSEY

SURVEYED B.L.A.M. INC. | CHECKED BY H.P.R. | SCALE AS SHOWN
DRAWN BY J.R.F. | ENGINEER L.V.S. | Date 5-21-65
PROJECT NO I 89-1(20) | SHEET 23 OF 90

Road + Con. Plans
23


MATCH LINE 57+00.00
RELOC SA-1 PC 58+21.30
(2243')
(2034')
N 7° 44' W
222'
313'
11B
12B
RELOCATED SA-1
CURVE DATA
Δ = 55° 43' 40"
D = 5° 15' 00"
R = 1091.35'
T = 576.96'
L = 1061.48'
E = 143.12'
BANK = 3/4" PER FT.
RELOC SA-1 61+50
New 18" RCCMP 16GA
or CAACP 16GA (Optional)
RELOC SA-1 POC 62+50
RELOC SA-1 64+45
33' LT.
RELOC SA-1 POC 64+90
RELOC SA-1 64+93
New 30"x22" ACCMP, 14 GA.
RELOC SA-1 64+64
33' RT.
RELOC SA-1 61+60
33' RT.
LAMSON
CIARDI
CIARDI
LAMSON
S.B. 2150+27
125' LT.
RELOC SA-1 PI STA 63+98.26+
63+05.82
BM #421
US ELEV
1611.38
RELOC SA-1 65+50 RT. 18" CMP
REMOVE ITEM 106 CONSTRUCT
SPECIAL DITCH ITEM 105
RELOC SA-1 PT 68+32.78
RELOC SA-1 68+25
25' LT.
RELOC SA-1 69+00
25' LT.
RELOC. SA-1 69+00
℄
RELOC SA-1 69+00
33' RT.
69+00
END CONSTRUCTION
APPROXIMATE LOCATION
SEWER PIPE 4"ΦD
APPROXIMATE
LOCATION OF WATER
PIPE 3/4"
galvanized
Watertub
Spring
Barn
Sewer
5 W.F. HOUSE
1 1/2 STY.
VT. GRID
FILL
CUT
SPRING
STONE BOX CULVERT
CUT WIRE
GRAVEL ROAD
DR
DT
SR
CR
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
EXCEPT FOR RELOCATED SA-1 STATION 57+00 TO 69+36 LT.
STATION 61+60 TO 69+61 RT.
FOR PROFILE OF RELOCATED SA-1 SEE SHEETS 83-95 OF 90
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS INTERSTATE PROJECT
BROOKFIELD-WILLIAMSTOWN-BERLIN
RELOCATED SA-1
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS
NEWARK, NEW JERSEY
PLAN SCALE
50 0 100
100 FEET
SURVEYED BY J.M. INC. DRAWN BY H.E.R. SCALE 25 FEET/IN.
COMP. BY W.F.S. IN CHARGE J.J.O. DATE 6/21/67
PROJECT NO. I 89-1(20) SHEET 24 OF 90
FOWLER, GRUSH & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.
Row + Con. Plans
24

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 626.0200		
STA	STA	POS
NORTHBOUND		
2157 + 00	2173 + 00	RT
SOUTHBOUND		
2157 + 00	2172 + 00	LT

FILL
CUT

SB CURVE DATA
Δ = 17° 28' 22"
D = 19° 00' 00"
R = 572958
T = 88045
L = 174752
E = 6724
Bulge = 7/16 Per Ft.

SB POC STA 2158+5000

SB POC STA 2161+5000

SB POC STA 2164+0000

SB POC STA 2165+0000

SB POC STA 2169+0000

SB PT STA 2169+78
125 LT.

SB 2167+0.5
125 LT.

SB 2168+42
2' LT.

DECARLO
G. & F. KNOWLES

SB PT STA 2167+26.7

SB POT STA 2171+

13A

14

12B

N 7° 44' W

N 25° 12' W.

N 7° 44' W

N 25° 12' W.

BM # 423
U.S. ELEV.
1652.52

BM # 426
U.S. ELEV.
1652.64

BM # 426
U.S. ELEV.
1634.63

NB POT STA 2171+69.91

ASPHALT MATE LOCATION OF WATER PIPE 1/2" & 3/4" PLASTIC

MATCH LINE SEE SHEET No 13

MATCH LINE SEE SHEET No 26

NB POC STA 2158+0000

NB POC STA 2161+0000

NB POC STA 2164+0000

NB POC STA 2166+0000

NB PT STA 2161+9607
2160+8970

NB PT STA 2167+71.32
NS 2167+71.32
100' RT.

NB 2166.5+78
150 RT.

REM #3465
U.S. ELEV.
1656.55

BM # 428
U.S. ELEV.
1656.66

NB CURVE DATA
Δ = 14° 30' 00"
D = 17° 00' 00"
R = 572958
T = 73.12'
L = 145.07'
E = 4033'
Bulge = 7/16" Per Ft.

LAMSON SPRINGER

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PORTER, ORTELLI & ARMSTRONG
CONSULTING ENGINEERS
ROCHESTER, N.Y.

BROCKFIELD-WILLIAMSTOWN
REFLIN
I 90-1 (20)
SECTION NO I
SHEET 25 OF 90

25

* DENOTES STAGE 2 ITEMS

Plank Guard Rail
Item 540
SB 2186+24 Lt 16 LF

* Three Cable Guard Rail
w/Steel Posts
Item 542
SB 2186+63 - 2187+00 Rt

Drilling & Blasting of Solid Rock Subgrade, Item 15
NB 2175+50 - 2180+75
NB & SB 2425 - 2467+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583.3 M.U.		
STA	STA	POS
NORTHBOUND		
2172+00	2187+00	RT
SOUTHBOUND		
2172+16	2187+00	LT

○ FILL
△ CUT

SB HOT STA 2174+01.61

SB 2173+10 - 2174+27 Rt
Construct Special Ditch, Item 106

NB 2176+20 - 2175+40 Lt
Construct Special Ditch, Item 106

SB 2173+80 - 2187+00 Rt
Excavation, Item 203

SB 2180+00 Rt
New 36" x 100' RCCMP, 11 GA

SB 2186+03
New 18" x 30' ACCMP, 16 GA

BM #426
US ELEV
1621.79

BM #427
US ELEV
1631.0

SB 2186 + 3.5
125' Lt

1626'

1832'

907'

NB 2186 + 03
100' Rt

NB HOT STA 2180+09.52

NS HOT STA 2184+00.00

NB 2187+50
New 36" x 100' R.C.P., Class III

NB 2175+00
New 18" x 30' x 102' ACCOMPA, 8 GA
For Details See Sheet 28, U 528

SPENCER
G.F.F. KNOWLES

MATCH LINE SEE SHEET No 25

MATCH LINE SEE SHEET No 27

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

POTTER, ORNELAS & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1 (20)
SECTION NO. 1
SHEET 26 OF 90

PLAN SCALE
0 50 100 FEET

26

DENOTES STAGE 2 ITEMS

Slope Pvt For Slope Protection (Light Type)
Item 5.2
NB 2130+52 - 2200+00 Lt
SB 2130+62 - 2199+62 Rt
(Lt Side of Channel only)
SB 2191+75 - 2192+33 Rt
(Rt Side of Channel only Bottom)
SB 2191+96 - 2196+75 Rt
(Lt Side of Channel only)
SB 2191+74 - 2200+25 Lt

Plank Guard Rail
Item 540
NB Rt 2140+90 Rt 2141+

Thrie Beam Guard Rail
w/Steel Posts
Item 609
NB 2139+38 - 2202+00 Rt
SB 2135+44 - 2202+00 Lt
EB 2187+00 - 2202+00 Rt
SB 2187+69 - 2199+01 Lt

Bituminous Concrete Curb
Item 555
NB 2196+33 - 2202+00 Rt
SB 2189+00 - 2202+00 Rt

PROPERTY LINE FENCE
WITH 6' STEEL POSTS
ITEM 613-2.1400

STA		STA	
NORTHBOUND			
2187+00	-	2202+50	Rt
SOUTHBOUND			
2187+00	-	2202+00	Lt

Double W Beam Gd Rail Class A Type 1 Item 615
EB 2201+00 - 2202+00
NB 2187+00 - 2189+20

FILL
CUT

SB 2192+50
150' LT

SB 2192+00
300' LT

SB FOE STA 2190+49.61

SB POST STA 2189+72.17

SB 2187+01
115' LT

SB POST STA 2190+00.00

SB POST STA 2191+67.12

SB 2183+23
20' LT

SB FOT STA 2187+35.92

SB 2188+06
67' RT

N 26° 12' W

N 21° 18' W

SB 2192+80
26' RT

NB 2191+33
33.5' LT

NB 2197+33
104' LT

NB 2197+78
84' LT

NB PLT STA 2188+47.78

NB FOE STA 2193+10.46

NB FOE STA 2193+10.46

NB 2193+10.46
100' RT

NB 2134+65
100' RT

NB 2136+50
100' RT

NB FOE STA 2203+00.00

NB FOE STA 2201+00.00

NB 2201+77
125' RT

515'

1210'

1366'

707'

MATCH LINE SEE SHEET No 26

MATCH LINE SEE SHEET No 28

BRICK 610'

BM # 49
U.S. ELEV.
1626.84

SPOT ON FENCE

PORTION OF PAVING & CONSTRUCTING
CONTRACT FOR VARIOUS HIGHWAY IMPROVEMENTS

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

BROOKFIELD - WILLIAMSTOWN
BERLIN
I 90-1 (20)
SECTION NO. 1
SHEET 27 OF 32

27

* DENOTES STAGE II ITEMS

Stone Fill For Slope Protection (Light Type)
Item 512
NB 2202+50-2206+00 Lt.
SB 2216+00-2217+00 Lt

SB PI STA 2204+436.1
2204+05.97

* Three Cable Guard Rail w/Steel Posts
Item 642
NB 2202+00 - 2208+00 Rt
NB 2202+00 - 2204+10 Lt
SB 2202+00 - 2207+49 Rt

* Rituming in Concrete Slab
Item 655
NB 2201+00-2207+50 Rt

Demolition and Disposal of Buildings
Item A66
NB 2210+30 Lt

PROPERTY LINE FENCE
NEW SIZE - BOYD'S
ITEM 643-11400

STA		STA	
NORTHBOUND			
2202+00		2218+02	RT
SOUTHBOUND			
2202+		2218+00	LT

Drilling & Blasting of Solid Rock S. Eastside, Item 115
SB 2202+00 - 2216+00
SB 2216+00 - 2234+00
NB 2216+00 - 2238+00

SB CURVE DATA
Δ = 30° 07' 40"
D = 1° 15' 00"
R = 4583.66'
T = 1384.00'
L = 2690.22'
E = 206.98'
Bank = 9/16" Per Ft

○ FILL
△ CUT

L KNOWLES

BROOKFIELD
WILLIAMSTOWN G.

N 25° 12' W

N 12° 56' E

SB POC 2202+50.00

SB POC STA 2205+84.72

SB 2210+33
115' LT

SB POST 2212+98.23

SB 2214+58
135' LT

NB PI STA 2211+33.17

SB POC STA 2214+00.00

1366'

437'

498'

SB 2279+95

2203 2204 2205 2207 2208 2210 2211 2212 2213 2214 2215

MATCH LINE SEE SHEET No 27

MATCH LINE SEE SHEET No 29

(15A) (15B) (15C) (20A) (20B) (20C)

BM # 432
U.S. ELEV.
1577.91

BM # 433
U.S. ELEV.
1692.88

BM # 434
U.S. ELEV.
1708.21

BM # B-87
U.S. ELEV.
1676.03

N 21° 18' W

14° 00' E

NB 2208+00
65' RT.

NB 2208+70
125' RT.

NB 2211+50
125' RT.

577'

367'

345'

NB CURVE DATA
Δ = 32° 17' 40"
D = 2° 00' 00"
R = 2864.93'
T = 825.78'
L = 1614.44'
E = 110.34'
Bank = 7/8" Per Ft

NB POC STA 2203+50.00

NS POC STA 2207+00.00

NB POC STA 2215+00.00

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

BROOKFIELD-WILLIAMSTOWN-BERLIN
I 89-1 (20)
SECTION I
SHEET 28 OF 90

PONTER, GURLEY & ARMSTRONG
CONSULTING ENGINEERS
KANSAS CITY, MO. & TOPEKA, KANS.

28

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type) Item 512
SB 2220+50 – 2221+50 Lt

Fence Guard Rail Item 540
NB 2225+65 Rt 24 L.F.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 552-2 MVG		
STA	STA	POS
NORTHBOUND		
2218 +00	2232 + 05	RT
SOUTHBOUND		
2218 + 00	2232+05	LT

Delay & Jumping of Stone Posts Sub Std., Item 15

SB 6+00 – 22324+05
2218+00 – 22324+05

SB 2228+42
260' LT

LAWRENCES
CL FZ

SB 2231+70
250' LT

SB 2219+00
170' LT

(458')

SB 2218+00 – 2221+50 Lt
Contract Interceptor Ditch Item 106

SB 2221+50 – 2221+50 Rt
New 21" x 15" CMP, Class III

SB 2220+50
New 24" x 19" RCP, Class III

SB 2220+50 – 22274+50 Lt
Contract Interceptor Ditch Item 106

974'

SB 2228+00 – 22324+05 Lt
Contract Interceptor Ditch Item 106

308'

SB 2229+50
New 18" x 12" CMP, Class III

FILL
CUT

SB POT STA 2229+19.97

SB POT STA 2231+98.37

SB POT STA 2221+09.93

SB POT STA 2224+03.67

SB 2229+50 – 2232+05 Rt
New 18" x 12.8" RCP, Class III

2220 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231

N 12° 55' E

NB 2220+09
60' LT.

BM # 435
U.S. ELEV
173.67

BM # 437
U.S. ELEV
174.51

NB 2226+97
15' LT.

BM # 436
U.S. ELEV
176.51

N 14° 06' E

NB 2228+10
120' RT.

NB POT STA 2228+39.90

NB POT STA 2231+16.34

MATCH LINE SEE SHEET No 28

MATCH LINE SEE SHEET No 30

13C

15B

20C

16A

20B

32P

12D

700'

594'

249'

610'

(814')

NB 2219+73
125' RT.

NB POC STA 2220+50.00

NB 2219+00 – 2221+50 Rt
New 24" x 360' ACCEMP, 16 G.

NB 2221+50
New 18" x 64' ACCGMP, 16 G.

NB 2221+60 – 2232+30 Lt
New 8" x 70' ACCEMP, 16 G.

NB 2232+30 Lt Spring Box
Construct New Spring Box
For Details See Stand. Cs. dr.

NB 2221+60 – 2232+40
New 18" x 410' ACCGMP.

NB 2225+60
New 18" x 64' ACCGMP, 16 G.

NB 2225+80
193' RT.

NB 2226+73
15' RT.

NB 2228+10
200 RT.

O'DONALD
PETERSEN

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

BROCKFIELD-WILLIAMSTOWN
BERLIN
1.193 – 1.120
SECTION No. I.
SHEET 29 OF 30

Rowland on Plans

29

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type) Item 512
SB 2234+00 – 2234+00 Lt

Plank Guard Rail Item 540
NB 2234+75 Rt 40 LF

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 665-2 W.C.		
B.P.	E.P.	SIDE
NORTHBOUND		
2232+00	2267+00	RT
SOUTHBOUND		
2235+00	2247+00	LT

SB 2239+50
110' LT.

NB 2234+50
200' RT.

NB 2244+22
105' RT.

SB FOC STA. 2240+50.00

NB FOC STA. 2246+50.00

BM # 439
U.S. ELEV.
1756.88

BM # 440
U.S. ELEV.
1609.71

BM # B-88
U.S. ELEV.
1726.02

N 12°15'E

N 14°00'E

MATCH LINE SEE SHEET NO. 29

MATCH LINE SEE SHEET NO. 31

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

BROCKFIELD-WILLIAMSTOWN
BERLIN
I 69-1 (20)
SECTION NO. I
SHEET 30 OF 90

Roadside Plans

30

DENOTES STAGE 2 ITEMS

* Three Cable Guard Rail
* Steel Posts
Item 543
NB 2261+50 – 2262+00 Lt
SB 2257+50 – 2257+00 Lt

* Bituminous Concrete Curb
Item 555
NB 2261+50 – 2262+00 Lt
SB 2258+00 – 2262+00 Lt

PROPERTY LINE FENCE
WITH STEEL POSTS
ITEM 543-1-400

STA	STA	POS.
NORTHBOUND		
2247+00	2245+00	RT.
SOUTHBOUND		
2246+00	2262+00	LT.

SB CURVE DATA
L = 21° 17' 20"
D = 1° 00' 00"
R = 5729.58'
T = 1076.56'
L = 2128.89'
E = 100.36'
Bank = 5/16" Per Ft

FILL
CUT

SB 2248+10 Rt
Construct New Stone Box
for Culvert See Sheet No. 14 of 45

SB 2247+10 – 2250+00 Rt
New 8'X 120' ACCOMP. 16 Ga

SB 2247+40 Rt – 2250+00 Lt
New 6'X12' AC Culvert 75 Ga
New 6'X84' RCP Culvert

SB POST STA 2253+9904

SB PI STA 2254+4681 =
2254+2398

SB POC STA 2255+0000

SB 2256+50 Lt – 2256+00 Rt
New 8'X 135' ACCOMP. 14 Ga

SB POC STA 2256+5000

SB POC STA 2257+5001

SB 2260+25 Lt – 2261+75 Lt
8' CMP 14 Ga
New 10'X 121' ACCOMP. 14 Ga

SB POST STA 2261+9401

MATCH LINE SEE SHEET No. 30

N 12° 55' E

N 6° 22' W

BM # 442
US. ELEV
167.21

BM # 443
US. ELEV
164.79

BM # 444
US. ELEV
161.491

Dike

MATCH LINE SEE SHEET No. 32

NB 2247+00 – 2248+00 Lt
New 6'X 150' Underdrain, Type I

NB 2248+00
New 18"X 100' ACCOMP. 16 Ga

NB 2248+20
New 24"X 100' ACCOMP. 16 Ga

NB 2248+00 Lt – SB 2248+00 Rt
Construct Single Ditch Inlet No. 105

NB POC STA 2249+5000

NB POC STA 2252+5003

NB 2250+00 – 2251+00 Lt
New 6'X 150' Underdrain, Type I

NB 2253+00 – 2254+25 Rt
New 6'X 150' Underdrain, Type I

NB 2254+00 – 2254+25 Rt
New 18"X 236' ACCOMP. 16 Ga

NB 2254+40 Rt – 2255+40 Lt
New 6'X 60' Pipe, Type II

NB 2254+25 Rt – 2255+50 Lt
New 10'X 148' ACCOMP. 14 Ga

NB 2254+00 – 2255+50 Rt
New 6'X 150' Underdrain, Type I

NB 2255+50
New 6'X 84' Pipe, Type II

N 14° 00' E

NB 2260+14.9
105 Ft.

N 60° 58' W

NB CURVE DATA
Δ = 20° 51' 43"
D = 5° 30' 00"
R = 1145.916'
T = 210.81'
L = 416.27'
E = 19.40'
Bank = 1/4" Per Ft

NB PI STA 2260+7.17 =
2260+3279

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

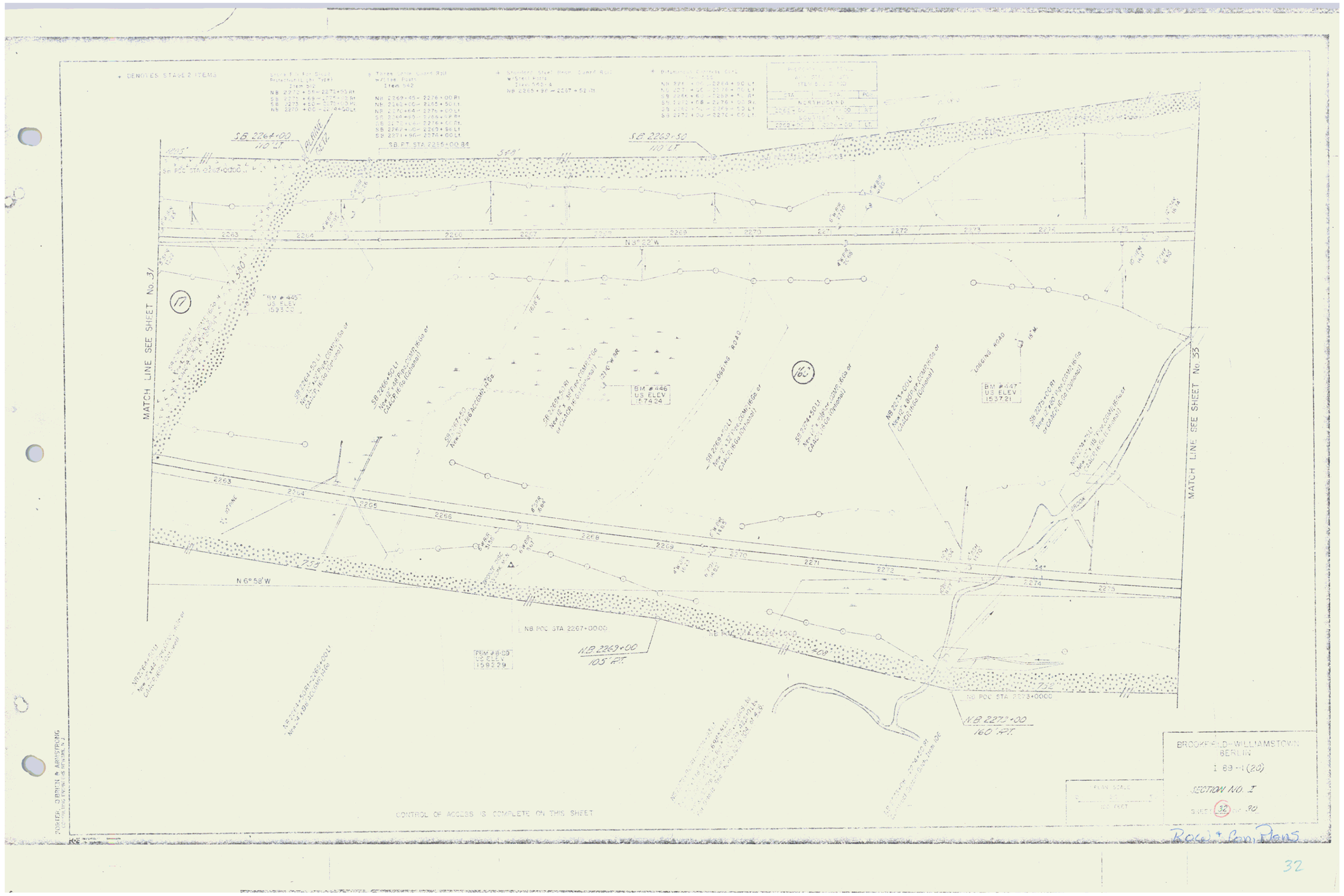
PLAN SCALE 1" = 50'

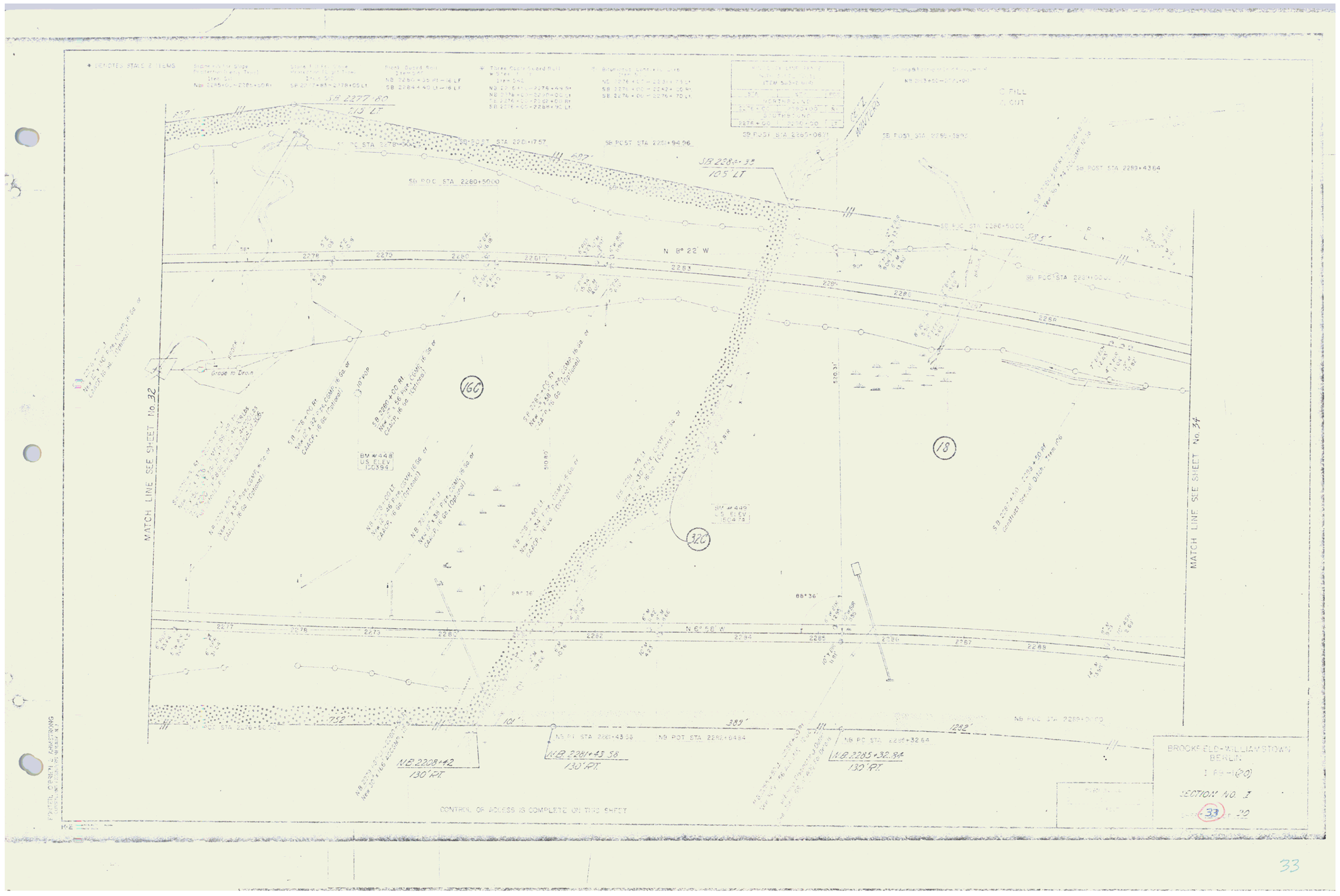
BROOKFIELD-WILLIAMSTOWN
BERLIN
1.83-1(20)
SECTION NO. I
SHEET 31 OF 90

KORTEN, KIERNAN & ARMSTRONG
CONSULTING ENGINEERS, PITTSFIELD, MASS.

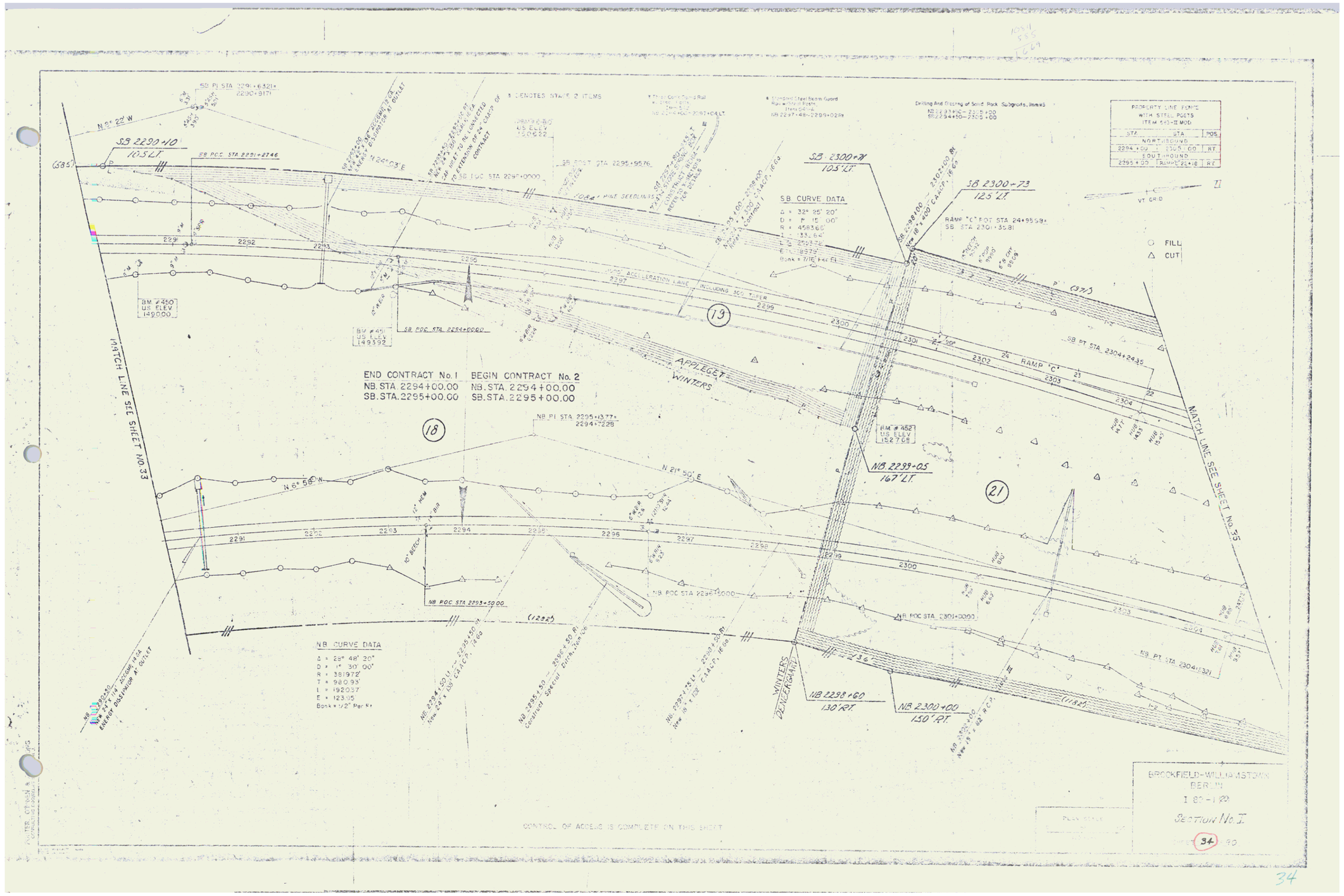
Reg. Land Plans

31


* DENOTES STAGE 2 ITEMS
Steel Thrie Beam Guide Protective Curb Type) Item 512
NB 2272+66 - 2274+93 Rt
SB 2272+69 - 2274+13 Rt
SB 2273+60 - 2274+13 Lt
NB 2270+00 - 2274+30 Lt
Three Cable Guard Rail w/Steel Posts Item 542
NB 2269+45 - 2276+00 Rt
NB 2265+00 - 2265+50 Lt
NB 2267+44 - 2271+00 Lt
SB 2268+65 - 2276+00 Rt
SB 2270+00 - 2276+00 Lt
SB 2266+00 - 2269+96 Lt
SB 2271+96 - 2276+00 Lt
Standard Steel Beam Guard Rail w/Steel Posts Item 540.4
NB 2265+97 - 2267+62 Lt
Bituminous Concrete Slope Paving Item 609
NB 2264+90 Lt
NB 2271+66 - 2276+00 Lt
SB 2265+66 - 2268+45 Rt
SB 2272+68 - 2276+00 Rt
SB 2265+74 - 2269+53 Lt
SB 2272+00 - 2276+00 Lt
SB 2264+00 110' LT
RETAINING WALL
SB P.T. STA 2265+00.84
SB 2269+50 110' LT
N.B. P.O.C. STA 2262+00.00
N.B. P.O.C. STA 2276+00.00
N 35°22' W
N 6°58' W
BM #445 U.S. ELEV 1593.20
BM #446 U.S. ELEV 1574.24
BM #447 U.S. ELEV 1537.21
LOGGING ROAD
SB 2264+50 LT New 15" RCP (COMPLIES w/ CALTRANS Class 65 (Optional)
SB 2267+50 LT New 15" RCP (COMPLIES w/ CALTRANS Class 65 (Optional)
SB 2268+50 LT New 15" RCP (COMPLIES w/ CALTRANS Class 65 (Optional)
SB 2274+50 LT New 15" RCP (COMPLIES w/ CALTRANS Class 65 (Optional)
NB 2273+00 LT New 18" RCP (COMPLIES w/ CALTRANS Class 65 (Optional)
SB 2275+00 RT New 15" RCP (COMPLIES w/ CALTRANS Class 65 (Optional)
NB 2274+00 LT New 18" RCP (COMPLIES w/ CALTRANS Class 65 (Optional)
NB P.O.C. STA 2267+00.00
NB P.O.C. STA 2273+00.00
N.B. 2263+00 105 P.T.
N.B. 2273+00 160 P.T.
FRM #B-55 (3) 1595.29
MATCH LINE SEE SHEET No. 31
MATCH LINE SEE SHEET No. 33
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
JOSEPH O'BRIEN & ARMSTRONG CONSULTING ENGINEERS NEWARK, N.J.
BROOKFIELD - WILLIAMSTOWN BERLIN
I 89-1(20)
SECTION NO. 1
SHEET 32 OF 90
PLAN SCALE 1" = 100 FEET
Road + Bridge Plans
32


SB 2277+80
215 LF
SB POST STA 2281+17.57
SB POST STA 2281+94.06
SB 2284+33
105 LF
SB POC STA 2280+50.00
SB POST STA 2280+06.91
SB POST STA 2280+38.06
SB POST STA 2283+43.64
SB POST STA 2281+00.00
N 8° 22' W
Grade to Drain
BM #448
U.S. ELEV.
160.394
BM #449
U.S. ELEV.
160.473
MATCH LINE SEE SHEET No. 32
MATCH LINE SEE SHEET No. 34
N 68° 58' W
68° 36'
NB POT STA 2281+43.58
NB POT STA 2282+84.84
NB POT STA 2285+32.64
NB POC STA 2278+50.00
NB POST STA 2280+89.00
NB 2280+42
130' RT.
NB 2281+43.58
130' RT.
NB 2285+32.84
130' RT.
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
BROOKFIELD-WILLIAMSTOWN
BERLIN
I-84-1(20)
SECTION NO. 1
SHEET 33 OF 39

33


SB PI STA 2291+6321
2290+9171
N 9° 22' W
SB 2290+10
10.5' LT.
SB POC STA 2291+2746
N 24° 03' E
SB POST STA 2295+9576
SB 2300+71
10.5' LT.
SB 2300+73
12.5' LT.
SB CURVE DATA
Δ = 32° 25' 20"
D = 4° 15' 00"
R = 458.365'
T = 133.64'
L = 259.37'
E = 18.77'
Bank = 7/16" per Ft.
RAMP "C" POT STA 24+95.58
SB ST STA 2301+35.81
PROPERTY LINE FENCE WITH STEEL POSTS ITEM 645-11 MOD
STA | STA | POS
NORTHBOUND
2294+00 | 2305+00 | RT
SOUTHBOUND
2295+00 | RAMP "C" 22+18 | RT
FILL
CUT
VT GRID
BM # 450
US ELEV
149.000
BM # 451
US ELEV
149.392
SB POC STA 2294+00.00
2ND ACCELERATION LANE INCLUDING 300' TAPER
APPLEGET
WINTERS
SB PT STA 2304+24.35
RAMP "C"
MATCH LINE SEE SHEET NO. 33
MATCH LINE SEE SHEET NO. 35
END CONTRACT No. 1
NB. STA. 2294+00.00
SB. STA. 2295+00.00
BEGIN CONTRACT No. 2
NB. STA. 2294+00.00
SB. STA. 2295+00.00
NB PI STA 2295+13.77
2294+72.28
N 6° 56' W
N 21° 50' E
NB POC STA 2293+50.00
NB POC STA 2296+50.00
NB POC STA 2301+00.00
NB PT STA 2304+15.21
N.B. CURVE DATA
Δ = 28° 48' 20"
D = 1° 30' 00"
R = 381.972'
T = 98.093'
L = 192.037'
E = 12.395
Bank = 1/2" Per Ft.
NB 2298+60
130' RT.
NB 2300+00
150' RT.
NB 2299+05
167' LT.
WINTERS DEVELOPMENT
BM # 452
US ELEV
152.709
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(9)
SECTION No. 1
SHEET 34 OF 90
PLAN STAGE

34

* DENOTES STAGE 2 ITEMS

* Three Cable Guard Rail w/Steel Posts, Item 642
SB 2311+50~2320+00 Lt

* Route Marking, Item 713
* NB 23+20~23+80 RC Rt
* NB 23+40~23+80 Lt
* SB 23+50~23+90 RC Rt
Ramp "C" 8+00~9+00 Rt
Ramp "C" 8+00~9+00 Lt

Drilling And Blasting of Solid Rock Subgrade, Item 115
NB 22+00~23+00
SB 23+00~23+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA	STA	POS
NORTHBOUND		
2305+00	2316+00	RT
SOUTHBOUND		
RAMP "C" 32+18	RAMP "C" 5+95	RT

FILL
CUT

SB 2310+30
227' LT.

SB 2310+30
153' LT.

2310+30 36" LT CONSTRUCT BERM PER TO X-SECTIONS FOR DETAILS

Ramp C 15+00 — 19 100 Rt New 30' x 18' R.C.P. Class III

Ramp C 15+00 New 30" x 50' ACCGMP, 14 Ga.

SB 2311+25 Rt — Ramp C 15+00 Lt New 36" x 74' ACCGMP, 14 Ga.

Ramp C 11+50 Lt New 18" x 50' ACCGMP, 16 Ga.

SB 2314+77 Rt New 18" x 64' ACCGMP, 16 Ga.

Ramp C 8+00 — 11+50 Lt New 18" x 350' ACCGMP, 16 Ga.

SB 2318+35
280' LT.

PBM #B-611
US ELEV
1470.81

HUFFMAN DENNEGMARD

Ft. Grid

600'

RAMP "C" POT STA 21+2664

SB POT STA 2305+2308

SB POT STA 2306+3733

RAMP "C" POT STA 14+3126

RAMP "C" POT STA 9+1000

SB POT STA 2318+5023

SB POT STA 2318+4093

BM #453
US ELEV
1525.22

BM #454
US ELEV
1510.67

N 20° 27' E

N 24° 03' E

N 21° 50' E

RAMP "C"

RAMP "A"

BEGIN DECELERATION LANE
NB STA 2314+40.00 RT.

1102'

808'

804'

500'

MATCH LINE SEE SHEET No. 34

MATCH LINE SEE SHEET No. 36

NB 2312+40
150' RT.

NB 2317+00
130' RT.

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(8)
SECTION NO. 2

35 70

35

# denotes stage 2 items

MATCH LINE SEE SHEET No. 37

MATCH LINE SEE SHEET No. 35

MATCH LINE SEE SHEET No. 38

MATCH LINE SEE SHEET No. 39

RAMP "C" 1+80 160' RT.

RAMP "D" 6+92 120' RT.

RAMP "A" 0+00 105' RT.

RAMP "A" 4+60 105' RT.

RELOC SA-2 31+90 100' LT

RELOC SA-2 39+75 8' RT.

RAMP "B" 5+40 130' RT.

SB 2334+25 150' LT.

NB 2330+75 200' RT.

NB 2331+50 200' RT.

RAMP "C" CURVE DATA
PI 0+74.61 = 0+23.43
Δ = 112° 20' 55"
D = 114° 35' 30"
R = 50.00
T = 74.61'
L = 98.04'
E = 39.81'

RAMP "A" CURVE DATA
PI 2+28.45 = 1+93.08
Δ = 54° 17' 55"
D = 13° 00' 00"
R = 440.74'
T = 228.45'
L = 421.53'
E = 55.69'
Bank = 1" Per Ft

RELOCATED SA-2 CURVE DATA
Δ = 54° 17' 16"
D = 3° 04' 00"
R = 1868.34'
T = 957.89'
L = 1770.25'
E = 231.24'
Bank = 5/8" Per Ft

RAMP "B" CURVE DATA
PI 7+91.67 = 7+56.97
Δ = 54° 28' 19"
D = 13° 00' 00"
R = 440.74'
T = 226.86'
L = 419.02'
E = 54.96'
Bank = 1" Per Ft.

RAMP "D" CURVE DATA
PI 1+47.91 = 1+45.66
Δ = 16° 07' 47"
D = 6° 30' 00"
R = 1014.74'
T = 147.61'
L = 293.27'
E = 10.41'
Bank = 3/4" Per Ft.

SB CURVE DATA
Δ = 4° 12' 00"
D = 0° 15' 00"
R = 22,918.31'
T = 84.03'
L = 168.00'
E = 1.54'
Bank = 1/4" Per Ft.

NB. CURVE DATA
Δ = 1° 59' 00"
D = 0° 07' 30"
R = 45,836.62'
T = 793.41'
L = 1586.67'
E = 6.87'
No Bank

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 613-X MOD.

STA.	STA.	POS.
NORTHBOUND		
2318+00	Ramp "A" 4+00	RT.
Ramp "A" 4+00	2334+25	RT.
SOUTHBOUND		
Ramp "C" 5+95	Ramp "C" 1+90	RT.
Relo SA-2 3+90	2335+00	LT.

CUT
FILL

FOR PLAN AND PROFILE OF SA-2 SEE SHEETS 37,38,87 OF 90

FOR PROFILE OF RAMPS SEE SHEETS 88,89,90 OF 90

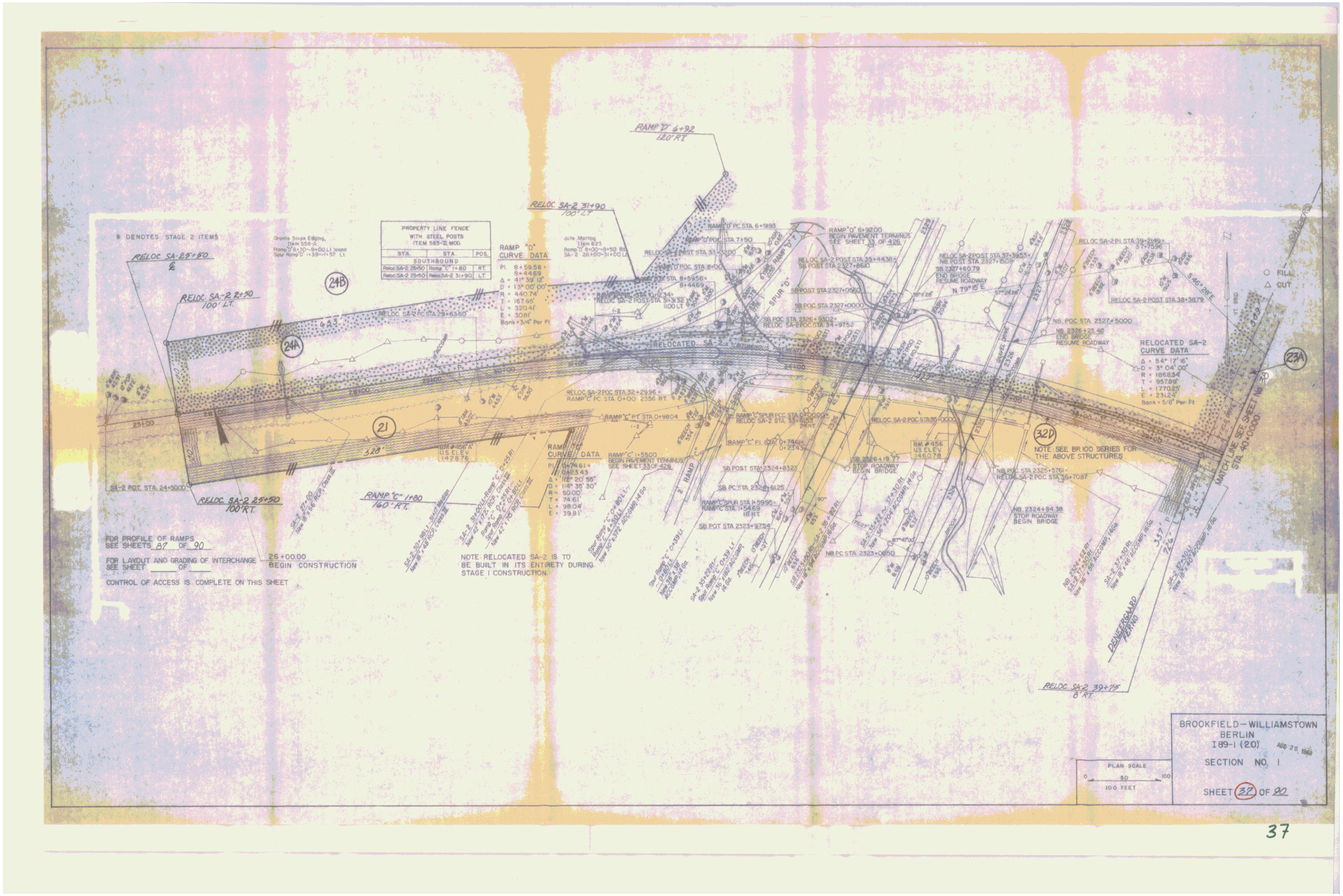
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

NOTE: SEE BRIDGE SERIES FOR THE ABOVE STRUCTURES

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(20)
SECTION NO. 1
SHEET 36 OF 90

PORTER, O'BRIEN & ARMSTRONG
CIVIL and REGIONAL PLANNING, P.C.

36


* DENOTES STAGE 2 ITEMS
RELOC SA-2 8+50
100' LT.
RELOC SA-2 2+50
100' LT.
RELOC SA-2 31+90
100' LT
RAMP "D" 6+92
120' RT.
PROPERTY LINE FENCE
WITH STEEL POSTS
ITEM 583-11 MOD.
SOUTHBOUND
Reloc SA-2 25+50 | Ramp "C" 1+80 | RT
Reloc SA-2 25+50 | Reloc SA-2 31+90 | LT
RAMP "D" CURVE DATA
PI 8+59.58
8+44.69
Δ = 41° 39' 12"
D = 13° 00' 00"
R = 440.74'
T = 167.65'
L = 320.41'
E = 30.81'
Bank = 3/4" Per Ft.
Granite Slope Edging, Item 956-A
Ramp "D" 8+30 - 9+00 Lt Island
Spur Ramp "D" 1+39 - 1+57 Lt.
Jute Matting Item 623
Ramp "D" 8+00 - 9+50 Rt.
SA-2 26+00 - 31+00 Lt.
RAMP "C" CURVE DATA
PI 6+74.61
6+23.43
Δ = 112° 20' 55"
D = 114° 35' 30"
R = 50.00'
T = 74.61'
L = 98.04'
E = 39.81'
RELOCATED SA-2
RAMP "D" PC STA. 6+93
RAMP "D" POC STA 7+50
RAMP "D" POC STA 8+00
RELOC SA-2 POST STA 33+32
11.00 LT
RELOC SA-2 PC STA 29+63.60
RELOC SA-2 POC STA 32+29.96
RAMP "C" PC STA 0+00 23.56 RT.
RAMP "C" PT STA 0+98.04
RAMP "C" PI STA 0+74.61
0+23.43
RAMP "C" I+55.00
BEGIN PAVEMENT TERMINUS
SEE SHEET 33 OF 426
RAMP "D" 6+92.00
BEGIN PAVEMENT TERMINUS
SEE SHEET 33 OF 426
RELOC SA-2 POST STA 35+44.38
SB POST STA 2327+86.10
SB POST STA 2327+0650
SB POC STA 2327+0000
SB POC STA 2326+53.02
RELOC SA-2 POC STA 34+97.52
RELOC SA-2 POST STA 37+39.53
NB POST STA 2327+15.08
SB 2327+60.79
END BRIDGE
RESUME ROADWAY
N 79° 15' E
RELOC SA-2 PI STA 39+21.49
37+75.96
RELOC SA-2 POST STA 38+38.79
NB. POC STA 2327+50.00
NB 2326+25.40
END BRIDGE
RESUME ROADWAY
RELOCATED SA-2
CURVE DATA
Δ = 54° 17' 16"
D = 3° 04' 00"
R = 1866.34'
T = 957.89'
L = 1770.25'
E = 231.24'
Bank = 5/8" Per Ft.
RAMP "C" SPUR PCC STA 0+00.00
RELOC SA-2 STA. 33+61.58
28 RT.
RAMP "C" PI STA 0+74.61
0+23.43
RELOC SA-2 POC STA 35+00.00
SB 2326+19.77
STOP ROADWAY
BEGIN BRIDGE
SB POST STA 2324+83.23
SB PC STA 2323+61.25
RAMP "C" SPUR STA 1+59.95
RAMP "C" STA 1+54.69
16 RT
SB POST STA 2323+97.54
NB PC STA 2323+00.50
BM #456
U.S. ELEV
146.78
NB. POC STA 2325+57.61
RELOC SA-2 POC STA 36+70.87
NB. 2324+84.38
STOP ROADWAY
BEGIN BRIDGE
NOTE: SEE BR 100 SERIES FOR
THE ABOVE STRUCTURES
MATCH LINE SEE SHEET NO. 38
STA. 40+00.00
FILL
CUT
DENNEFSBARD FERRO
RELOC SA-2 39+78
8' RT.
SA-2 POT. STA. 24+50.00
RELOC SA-2 25+50
100' RT.
RAMP "C" 1+80
160' RT.
328'
BM #456 A
U.S. ELEV
142.876
FOR PROFILE OF RAMPS
SEE SHEETS 87 OF 90
FOR LAYOUT AND GRADING OF INTERCHANGE
SEE SHEET ____ OF ____
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
26+00.00
BEGIN CONSTRUCTION
NOTE: RELOCATED SA-2 IS TO
BE BUILT IN ITS ENTIRETY DURING
STAGE I CONSTRUCTION
PLAN SCALE
0 50 100
100 FEET
BROOKFIELD — WILLIAMSTOWN
BERLIN
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AUG 26 1969
SECTION NO. 1
SHEET 37 OF 90
24B
24A
23A
21
32D

END RELINQUISHMENT NO. I
T.H. 47 2+50 ℄

END MAINT. AGREE. AREA NO. I
BEGIN RELINQUISMENT NO. I
T.H. 47 0+35 ℄ (215')

BEGIN MAINT. AGREE. AREA NO. I
T.H. 47 0+00 (35')

RELOC T-47 0+92 33'RT.
RELOC T-47 0+92 33'LT.
RELOC T-47 0+35 33'LT.
RELOC SA-2 49+35 50'LT.
RELOC SA-2 54+50 50'LT.
RELOC T-47 2+50 33'RT.
RELOC T-47 2+50 33'LT.
2+00 END CONSTRUCTION
RAMP "B" 0+00 130'RT.
RELOCATED T-47 10" SUB-BASE OR GRAVEL ITEM 201
RELOC T-47 PT STA 0+92.0
RELOC SA-2 ST 49+0000±
RELOC T-47 STA 0+0000 11'LT
RELOC T-47 PC STA 0+35.00
RELOC SA-2 50+50 15'LT.
RELOC SA-2 54+50 ℄
RELOC SA-2 49+00 50'RT.
RELOC SA-2 48+67 ℄
RELOC SA-2 49+00 50'LT.
RELOC SA-2 50+50 50'RT.
RELOC SA-2 54+50 50'LT.
RELOC SA-2 44+84 125'RT.
RAMP "A" 6+35 105'RT.

* DENOTES STAGE 2 ITEMS

RAMP "B" CURVE DATA
Δ = 17° 05' 10"
D = 7° 00.00'
R = 818.51'
T = 123.44'
L = 245.04'
E = 9.25'
Bank = 13/16" Per Ft

RAMP "A" CURVE DATA
Δ = 47° 56' 08"
D = 11° 00' 00"
R = 520.87'
T = 231.56'
L = 435.78'
E = 49.15'
Bank = 3/4" Per Ft

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 563-1 MOD

STA	STA	POS
NORTH BOUND		
Ramp A 6+60	Reloc SA-2 49+00	RT.
Ramp B 4+00 PT	Reloc T-47 0+35	LT.

RAMP "B" 3+75.00 BEGIN PAVEMENT-TERMINUS
RAMP "B" PT STA 3+45.09
RAMP "B" PC STA 0+00.00
RELOC SA-2 POC STA 43+57.22 3072 LT
RAMP "B" PI STA 1+23.44 1+21.60
RAMP "B" SPUR PC STA 1+25.51
RAMP "B" SPUR PT STA 2+49.51
RELOC SA-2 POC STA 41+38.98
RAMP "B" SPUR STA 2+01.66 28'LT
RELOC SA-2 POC STA 44+50.00
RELOC SA-2 POST STA 44+50.69
RELOC SA-2 POST STA 46+00.00
RELOC SA-2 POST STA 49+25.00
RELOC SA-2 POT STA 49+75.00
RELOC SA-2 POT STA 55+00.00
RELOC SA-2 POC STA 44+83.83 2028' lct.
RAMP "A" PC STA 10+71.32 ±
RELOC SA-2 POC STA 44+83.83 2028' lct.
RELOC SA-2 POC STA 41+00.00
RELOC SA-2 POC STA 41+44.19 ±
RAMP "A" SPUR STA 1+82.61
RAMP "A" PI STA 8+67.01 8+39.76
RAMP "A" PC STA 6+35.53
RAMP "A" 6+35.00 BEGIN PAVEMENT TERMINUS
RAMP "A" PT STA 7+21.53
RAMP "A" SPUR PC STA 0+38.00
RAMP "A" SPUR PT STA 0+71.38
RELOC SA-2 POC STA 41+44.19 ±
RAMP "A" SPUR STA 1+82.61

MATCH LINE SEE SHEET No 36 STA 4+00.00
MATCH LINE SEE SHEET No 36 STA 0+00.00
MATCH LINE SEE SHEET No 36 STA 6+00.00

RELOCATED SA-2
SPUR "B"
SPUR "A"
RAMP "B"
RAMP "A"
FERNO
BROOK
HOUSE
FIELD ROAD T-47
WOODS
BM #56 "B" US ELEV 146.70
BM #57 US ELEV 146.29
LUMINOUS PAVEMENT
S 46° 28' E
364'
409'
348'
515'
550'
158'
66'
33'
50'
23A
23B
32D
53
FILL
CUT

Bituminous Concrete Surface For Gutter & Traffic Islands, Item 554
Reloc SA-2 40+00~40+93.26 Median
Reloc SA-2 42+00 RT
Reloc SA-2 42+00 Lt Median

* Bituminous Concrete Curb, Item 555
Ramp B 3+75~4+00 Rt

* Standard Steel Beam Guard Rail w/Steel Posts, Item 545-A
Reloc SA-2 40+00~41+32 Rt.
Reloc SA-2 40+28~41+32 Lt

Three Cable Guard Rail w/Light Steel Posts, Item 538
Reloc SA-2 ~45+26~48+46 Lt
Reloc SA-2 ~46+00~53+84 Rt
Ramp "B" 1+69~ 3+75 Rt
* Ramp "B" 3+75~ 4+00 Rt

Stone Fill For Slope Protection (Heavy Type), Item 511 Ramp "B" 2+75~4+00 Rt

Removal and Disposal of Present Guide Rail Item 549
Reloc SA-2 47+30~48+05 Rt
Reloc SA-2 47+70~48+30 Rt

Bituminous Concrete Curb Item 556
Ramp B 1+50~3+75 Rt.

Stone Fill for Slope Protection (Light Type) Item 512
Reloc SA-2 45+25~46+55 Lt
Reloc SA-2 46+55~48+25 Rt
Reloc SA-2 47+76~48+46 Rt
Reloc Channel
Reloc SA-2 49+50~53+75 Rt.

Granite Slope Edging, Item 596-A
Reloc SA-2 40+03~40+94 Median
Reloc SA-2 41+59~42+10 Median
Reloc SA-2 41+76~41+98 Rt
Reloc SA-2 41+76~42+70 Lt
Ramp A 7+58~ 8+91 Lt
Spur Ramp A 1+28~1+47 Rt
Ramp B 0+66~1+30 Lt
Spur Ramp B 1+74~1+28 Lt

Demolition and Disposal of Building, Item 586
Reloc T-47 1+90 Lt.

Jute Matting, Item 623
Reloc SA-2 40+50~41+00 Lt
Reloc SA-2 51+00~53+55 Lt.
Ramp A 6+00~10+00 Rt
Ramp A 6+00~7+00 Lt.

Ramp "A" 6+00~7+90 Rt New 6'x 190 Underdrain, Type I
Ramp "A" 7+90 Rt~7+99 Lt New 4" Pipe, Type II
Spur Ramp "A" 0+50~1+39 Lt New 6'x 70' Underdrain, Type I
Spur Ramp "A" 1+39 New 4" x 53.67' Pipe, Type II
Ramp "A" 6+30 New 18" x 54" RCP Class III
Ramp "A" 6+30~9+50 Rt 6'x 40' Underdrain, Type I
Ramp "B" 1+60 New 18" x 78" ALCCMP 16 Ga
SA-2 42+00 Rt New 18" x 54" RCP Class III
SA-2 42+00 Lt New 18" x 54" ALCCMP 16 Ga
SA-2 42+35~45+20 Lt Channel Excavation, Item 108-6
SA-2 45~200 Lt~47+75 Rt Channel Excavation, Item 108-6
SA-2 45+25~46+55 Lt Rip Rap, Item 608 (Class II) 1'6" Deep
SA-2 47+76~48+46 Rt Rip Rap, Item 608 (Class II) 1'6" Deep
SA-2 47+70 Lt New 24" x 54" ALCCMP, 16 Ga
SA-2 49+50~53+75 Rt. Channel Excavation, Item 108-6
SA-2 52+25~53+75 Rt. Channel Excavation, Item 108-6
54+00.00 END CONSTRUCTION

FOR PROFILE OF RAMPS SEE SHEETS 89-90 OF 90

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

BROOKFIELD--WILLIAMSTOWN
BERLIN
I 89-1(20)
SECTION NO. I
SHEET 38 OF 90

38

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Heavy Type), Item 511
NB 2334+00~2335+25 Rt

Stone Fill For Slope Protection (Light Type), Item 512
SB 2339+40Rt~2340+75Rt

Drilling & Blasting of Solid Rock Subgrade Item 115
NB 2339+00~2348+00
SB 2342+25~2347+00

* Three Cable Guard Rail w/ Light Steel Posts, Item 614
NB 2338+90~2339+46 Lt
NB 2334+00~2338+78 Rt
NB 2347+08~2348+00 Lt
SB 2335+00~2341+58 Rt
SB 2339+10~2341+04 Lt
SB 2344+63~2348+00 Lt

* Bituminous Concrete Curb, Item 555
SB 2335+00~2342+56 Lt
SB 2346+50~2348+00 Lt

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-X MOD

STA.	STA.	POS.
NORTHBOUND		
2334+00	2348+00	RT
SOUTHBOUND		
2335+00	2348+00	LT

* Plank Guard Rail, Item 540
NB 2336+00 Rt 24 L.F.
SB 2345+75 Lt 40 L.F.

FILL
CUT

SB 2334+25
150' LT.

RAMP "D" P.C. STA 0+00.00 =
SB POC STA 2334+97.94
24.00' LT.

SB 2335+50
150' LT.

SB 2336+00 Lt
18" Dia. 2.38# Pipe CGMP, 16 ga
to CMAOR, 16 ga (Optional)

B.M. #458
U.S. ELEV.
1407.75

SB 2335+50
30' x 18" ACCGMP, 12 ga

SB 2335+50 ~ 2341+25 Rt.
Construct Grd Ditch, Item 106

SB POC STA 2335+50.00

SB POST STA 2336+51.41

SB POST STA 2340+58.10

SB RT STA 2341+41.25

BEGIN DECELERATION LANE
SB. 2338+97.94' LT.

RAMP "D"

400' DECEL. LANE INCL. 300' TAPER

MATCH LINE SEE SHEET No. 37

Grade to Drain

1000' ACCELERATION LANE INCLUDING 300' TAPER

NB POC STA 2336+00.00

NB. 2336+82
130' RT.

NB PT STA 2338+87.17

NB. 2336+11
197' RT.

NB. 2336+08
200' RT.

Frontage Road Sta. 2335+50
Begin Frontage Road Construction
to be built in its entirety during
Stage I Const.

SANDERS

WACHOWIAK

NB 2337+90 Rt. 24" CGMP
Remove, Item 206

NB 2338+50
New 24" x 98' RCP, Class III

Frontage Road 2336+50
New 18" x 36' ACCGMP, 16 ga

Frontage Road 2339+50
New 18" x 36' ACCGMP, 16 ga

NB. 2339+50~2345+00 Rt
New 18" x 36' RCP, Class III

NB. 2345+00
New 18" x 64' RCP, Class III

Frontage Road 2345+00
New 18" x 36' ACCGMP, 16 ga

NB POT. 2339+70.32 =
2341+41.25
EQ. = 170.93'

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

B.M. #459
U.S. ELEV.
1410.05

PBM #B-812
U.S. ELEV.
1440.49

SB 2345+87
150' LT.

SB 2344+00
18" x 78" RCP, Class III

SB 2346+50 Lt
42" Dia. 7.58# Pipe CGMP, 16 ga
to CMAOR, 16 ga (Optional)

B.M. #460
U.S. ELEV.
1441.37

SB POT STA 2345+09.00

GRAVEL ROAD

BRIDGE #8 CONCRETE

WOODS

TOWN HIGHWAY

N 19° 51' E

END ACCELERATION LANE
NB. STA. 2344+03.87 Rt.

MATCH LINE SEE SHEET No. 40

PLAN SCALE
0 50 100
100 FEET

BROOKFIELD-WILLIAMSTOWN
BERLIN AUG 20 1968
I 89-1 (20)
SECTION NO. I
SHEET 39 OF 90

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NORWICH, N.Y.

39

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type) Item 612
SB 2349+50 ℄ (Inlet Ditch)

* Three Cable Guard Rail w/ Light Steel Posts, Item 538
NB 2348+00—2348+88 Lt
SB 2348+00—2356+53 Lt
SB 2351+02—2355+98 Rt

* Bituminous Concrete Curb, Item 555
NB 2348+00—2358+00 Lt
SB 2350+50—2354+50 Rt
SB 2348+00—2356+00 Lt

Drilling & Blasting of Solid Rock Subgrade Item 115
NB 2348+00—2349+00
NB 2359+00—2363+00
SB 2357+00—2363+00

Plank Guard Rail, Item 540
NB 2353+65 Rt 16 LF
SB 2353+75 Lt 16 LF

Demolition and Disposal of Building, Item 936
NB 2354+00 Rt
NB 2354+00 Rt

* Jute Matting Item 623
NB 2357+00—2358+00 Rt
NB 2357+00—2358+00 Lt

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 383-S MOD		
STA	STA	POS
NORTHBOUND		
2348+00	2363+00	RT
SOUTHBOUND		
2348+00	2363+00	LT

○ FILL
△ CUT

SB 2348+77
150' LT.

SB 2353+75
150' LT.

SB 2354+93
150' LT.

NB 2349+03
130' RT.

NB 2353+32
130' RT.

NB 2353+3.3
139' RT.

NB 2353+55
210' RT.

NB 2353+54
130' RT.

NB 2355+60
130' RT.

NB 2355+66
172' RT.

END RELINQUISHMENT NO. II
T.H. 47 2353+80 ℄

BM #462
US ELEV.
1.49847

BM #461
US ELEV.
1.47433

SB PDT STA 2349+98A

SB PDT STA 2353+24.5

SB PDT STA 2360+35.3

(320')
498'
118'
(1930')
(1050')
423'
423'
472'
(1553')
228'
234'
(3139')
429'

N19° 51' E

MATCH LINE SEE SHEET No. 39

MATCH LINE SEE SHEET No. 41

BROOKFIELD—WILLIAMSTOWN
BERLIN
I 89-1(20)
SECTION NO I
SHEET 40 OF 90

PLAN SCALE
0 50 100
100 FEET

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PORTER, STETSON, ARMSTRONG & KNOWLTON, INC. NEW HAVEN, CONN.

40

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type) Item 512
NB 2373+00 Rt (Inlet Ditch)

* Three Cable Guard Rail Steel Posts, Item 542
NB 2374+14 – 2378+00 Lt.
SB 2374+51 – 2378+00 Lt.

* Bituminous Concrete Curb, Type 555
NB 2376+00 – 2378+00 Lt

Drilling & Blasting of Solid Rock Subgrade, Item 115
NB 2363+00 – 2372+00
NB 2373+25 – 2377+25
SB 2363+00 – 2377+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD		
STA	STA	POS
NORTHBOUND		
2363+00	2378+00	RT
SOUTHBOUND		
2363+00	2378+00	LT

MATCH LINE SEE SHEET No 40

MATCH LINE SEE SHEET No 42

FBM # B-BI3 US ELEV 1534.09

BM # 463 US ELEV 155.204

BM # 464 US ELEV 156.524

BM # 465 US ELEV 156.417

SB POT STA 2363+7205

SB 2378+30 200' LT.

SB 2375+00 150' LT.

1990'

325'

3139'

FILL

CUT

SB 2366+50 New 18" x 78' ACCOMP., 16 Ga.

SB POC STA 2368+4724

SB POST STA 2369+3045

BRONZE DISC IN CONCRETE

SB POC STA 2371+5000

SB 2371+97 Lt. – 2372+35 Rt. New 42" x 100' ACCOMP., 12 Ga.

SB POST STA 2373+6344

SB POC STA 2375+0000

SB POST STA 2376+1549

N 19° 51' E

N 4° 48' E

NB 2363+00 – 2366+00 Rt. New 24" x 300' R.C.P., Class III

NB 2366+00 – 2369+50 Rt. New 18" x 348' RCP, Class III

NB 2372+57 Lt. – SB 2372+32 Rt. Construct Special Ditch, Item 176

NB 2372+68 Lt. – 2373+00 Rt. New 42" x 118' ACCOMP., 12 Ga.

NB POC STA 2370+5000

NB PC STA 2369+3045

NB POC STA 2373+0000

NB POC STA 2375+5000

NB PI STA 2376+8759
2376+7887

BROOK

NB CURVE DATA

Δ = 15° 03' 20"
D = 1° 00' 00"
R = 5729.58'
T = 757.14'
L = 1505.56'
E = 49.81'
Bank = 5/16" Per Ft

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

BROOKFIELD–WILLIAMSTOWN
BERLIN
I 89-1 (20)
SECTION NO. I.
SHEET 41 OF 90

PORTER, ORBITZ CONSULTING INC. HAMMONTON, N.J. ARMSTRONG VERNAL, N.J.

41

* DENOTES STAGE 2 ITEMS

* Three Cable Guard Rail w/ Light Steel Posts, Item 538
NB 2378+00~2386+02 Lt.
SB 2378+00~2383+47 Lt.

* Bituminous Concrete Curb, Item 555
NB 2378+00~2384+50 Lt.

Drilling & Blasting of Solid Rock Subgrade, Item 115
NB 2384+10 – 2393+00
SB 2382+25–2393+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD

STA	STA	POS
NORTHBOUND		
2378+00	2393+00	RT
SOUTHBOUND		
2378+00	2393+00	LT

SB CURVE DATA
Δ = 19° 40' 30"
D = 1° 00' 00"
R = 5729.58'
T = 993.53'
L = 1967.0'
E = 85.6'
Bank = 5/16" Per Ft.

○ FILL
△ CUT

555'
SB POC STA 2378+3096
SB POC STA 2380+0000
SB POST STA 2381+2121
SB 2382+15 New 24" x 100' ACCGMP, 16 Ga.
SB POST STA 2383+8341
SB 2384+00 150' LT.
SB POST STA 2384+2121
SB POC STA 2383+5000
SB 2386+50 New 18" x 64' RCP, Class III
340'
SB POC STA 2386+0000
SB POST STA 2386+2121
SB PT STA 2386+1474
SB POC STA 2387+0000
WACHOWIAK PENNY
SB 2387+49 150' LT.
SB 2386+50 – 2390+50 Rt. New 8' x 400' RCP, Class III
(1489')
SB 2390+50 New 18" x 64' RCP, Class III
SB 2390+50 New 18" x 230' RCP, Class III
SB 2393+00 Rt.
SB POT STA 2390+8669
I-2
MATCH LINE SEE SHEET No. 41
MATCH LINE SEE SHEET No. 43
N 0°11'E
N 4°48'E
250
27
BM #466 US ELEV 153.711
BM #467 US ELEV 157.148
BM #468 US ELEV 156.173
94°37'10"
NB POC STA 2379+0000
SB PT STA 2378+4077
2378+212
NB POC STA 2381+5000
313.9'
NB PT STA 2384+3601
NB POT STA 2386+4089
(1943')
NB POT STA 2391+4164
NB 2856+65 130' RT
NB 2381+12 New 12" x 124' ACCGMP, 16 Ga.
NB 2381+12 Rt. Construct New Spring Box for Details See Sheet No. 406
NB 2382+50 New 24" x 172' ACCGMP, 14 Ga.
NB 2382+60 Lt. New 12" x 90' Pipe CGMP, 16 Ga. or CAACP, 16 Ga. (Optional)
NB 2384+50 Lt. New 12" x 70' Pipe CGMP, 16 Ga. or CAACP, 16 Ga. (Optional)
NB 2387+00 Lt. Construct Special Ditch, Item 106
NB 2388+00 – 2391+50 Rt. New 18" x 350' ACCGMP, 16 Ga.
NB 2391+50 – 2393+00 Rt. New 24" x 150' ACCGMP, 16 Ga.

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PORTER, O'BRIEN & ARMSTRONG CONSULTING ENGINEERS NEWARK, N.J.

PLAN SCALE
0 50 100
100 FEET

BROOKFIELD–WILLIAMSTOWN
BERLIN
I 89-1(20)
SECTION No. 1
SHEET 42 OF 90

42

* ▭ DENOTES STAGE 2 ITEMS

4 Three Cable Guard. Rail w/ Light Steel Posts, Item 738
NB 2397+50 – 2404+50 Lt
SB 2396+98 – 2404+02 Rt
SB 2394+46 – 2408+00 Lt

Drilling & Blasting of Solid Rock Subgrade, Item 85
N.B. 2383+00 – 2398+50
S.B. 2393+00 – 2398+25
S.B. 2405+25 – 2408+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-2 MOD		
STA	STA	POS
NORTHBOUND		
2393 +00	2408 +00	RT
SOUTHBOUND		
2392 +00	2408 +00	LT

○ FILL
△ CUT

TOWN OF NORTHFIELD — WASHINGTON COUNTY
TOWN OF WILLIAMSTOWN — ORANGE COUNTY

SB. 2405+70 150' LT.
SB. 2407+13 100' LT.
SB. 2406+30 New 18" x 60' ACCOMP., 16 Ga.
SB. 2402+40 150' LT.
SB. SC STA 2407+68.85
SB. TS STA 2405+18.85
SB. PI STA 2406+85.54 = 2406+85.49
SB POT STA 2402+0000
SB POT STA 2399+6517
SB POT STA 2396+3900
SB POT STA 2395+9426
SB 2401+53 111' RT.
NB. 2406+78 179' LT.
SB 2395+30 New 36" x 84' ACCOMP., 14 Ga.
SB 2394+50 New 24" x 100' RCP, Class III
SB 2393+00 — 2394+50 New 18" x 150' RCP, Class III
SB 2400+64 Lt. — 2400+04 Rt. New 42" x 198' ACCOMP., 5 Ga. Energy Dissipator (6 Outlets)
1489'
330'
135'
1474'
1943'
(429')
512'
BM # 469 US ELEV 154.22
BM # 470 US ELEV 152.65
BM # 471 US ELEV 155.455
BM # B-614 US ELEV 148.69
BROOK
Grade to Drain
N 0° 11' E
N 4° 48' E
54° 37' 10"
27
28A
28B
54 ROW
MATCH LINE SEE SHEET No 42
MATCH LINE SEE SHEET No 44
NB 2395+00 New 24" x 100' ACCOMP., 16 Ga.
NB 2396+60 Lt. — 2396+12 Rt. New 36" x 176' ACCOMP., 14 Ga.
NB 2398+00 — 2399+00 New 18" x 200' ACCOMP., 16 Ga.
NB 2402+50 — 2403+50 Lt. Covered Stone Ditch, Item 706
NB 2403+50 Lt. — 2404+00 Rt. New 36" x 209' ACCOMP., 10 Ga.
NB POC STA 2401+0000
NB POC STA 2403+5000
NB POC STA 2407+5000
NB 2406+30 130' RT.
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
PLAN SCALE 0 50 100 100' PER INCH
PORTER, GREEN & ARMSTRONG CONSULTING ENGINEERS MONTPELIER, VERMONT
BROOKFIELD – WILLIAMSTOWN BERLIN
I 89 – 1(20)
SECTION No. I
SHEET 43 OF 92

* DENOTES STAGE 2 ITEMS

* Three Cable Guard Rail w/ Light Steel Posts, Item 638
NB 2408+00–2413+10 Lt
NB 2419+96–2423+00 Lt
SB 2408+00–2423+00 Lt

Drilling & Blasting of Solid Rock, Item 114
NB 2408+75 – 2412+75
SB 2406+25 – 2407+75
SB 2410 + 25 – 2412+25

Drilling & Blasting of Solid Rock Subgrade, Item 115
NB 2409+75 — 2418+75
SB 2408 +00 — 2422+50
NB 2421 + 0.0 — 2423+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA	STA	POS
NORTHBOUND		
2408+00	2423+00	RT
SOUTHBOUND		
2408+00	2423+00	LT

SB PI STA 2413+9803 = 2413+4623

SB PI STA 2413+8645 = 2413+3780

SB POST STA 2416+0479

SEE SHEET 24A OF 40 OF SECTION II

SB POST STA 2419+0574

SB CS STA 2419+7541

SB 2420+65 100'LT.

SB PI STA 2420+5877 = 2420+5872

TOWN OF NORTHFIELD — WASHINGTON COUNTY
TOWN OF WILLIAMSTOWN — ORANGE COUNTY

SB POST STA 2421+6856

2422+2541

○ FILL
△ CUT

SB POC STA 2412+50.00

SB POC STA 2414+50.00

SB POC STA 2417+50.00

SB POST STA 2408+64.02

SB POC STA 2409+00.00

N 36° 36' E

N 0° 11' E

1410'

1245'

358'

28B

28A

5A ROW

SB CURVE DATA

Δ = 30° 09' 50"	GS = 03° 07' 30"
D = 2° 30' 00"	Dc = 2° 30' 00"
R = 2291.83'	LT = 166.69'
T = 61.761'	ST = 83.36'
L = 120.65'	LS = 250.00'
E = 8.176'	K = 124.99'
Bank = 13/16" Per Ft	TS = 879.18'
	ES = 121.99'

SB 2414+00 New 18" x 92' RCP, Class III

SB 2418+00 New 18" x 76' RCP, Class III

SB 2422+00 New 18" x 78' RCP, Class III

BM # 472 US ELEV 157.932

BM # 473 US ELEV 159.952

BM # 474 US ELEV 155.578

MATCH LINE SEE SHEET No. 43

MATCH LINE SEE SHEET No. 45

NB PI STA 2408+09.85 = 2407+78.99

NB 2413+45 New 18" x 82' RCP, Class III

NB 2417+50 New 18" x 78' RCP, Class III

NB 2421+00 New 18" x 84' Accomp. 16 Ga

NB PT STA 2419+38.03

NB POC STA 2412+00.00

NB POT STA 2416+80.00

NB CURVE DATA

Δ = 22° 52' 20"	
D = 1° 00' 00"	
R = 5729.58'	
T = 1159.04'	
L = 2287.22'	
E = 115.06'	
Bank = 5/16" Per Ft	

NB 2410+69 130' RT.

NB 2412+50 160' RT.

NB 2417+00 130' RT.

1182'

429'

440'

659'

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

BROOKFIELD—WILLIAMSTOWN
BERLIN
I 89-1 (20)
SECTION NO. I
SHEET 44 OF 90

FURTER, ORNER & ARMSTRONG
CONSULTING ENGINEERS
N.J.

44

* DENOTES STAGE 2 ITEMS

* Three Cable Guard Rail w/ Light Steel Posts, Item 536

NB 2423+00 — 2437+00 Lt
SB 2423+00 — 2438+00 Lt

Stone Fill For Slope Protection (Light Type) Item 512
NB 2425+08 Lt — SB 2431+09 Rt

* Bituminous Concrete Curb, Item 555
SB 2430+00 — 2433+00 Lt

Rip Rap (Light Type) Item 513-B
NB 2429+08 Lt — SB 2431+09 Rt

Drilling & Blasting of Solid Rock Subgrade, Item 115
NB 2433+30 — 2424+70
NB 2433+00 — 2437+00
SB 2435+90 — 2438+00

Drilling & Blasting of Solid Rock, Item 114
NB 2427+25 — 2431+25
NB 2433+00 — 2436+25

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD

STA.	STA.	POS.
NORTHBOUND		
2423+00	2437+00	RT
SOUTHBOUND		
2423+00	2438+00	LT

PBM #B-B5
US ELEV
1477.18

SB 2424+20
100' LT

SB 2424+40
100' LT

SB 2431+71
260' LT

SB 2436+20
130' LT

SB POT STA 2430+1304

SB POT STA 2432+8985

SB PC STA 2431+7097

SB PCC STA 2433+0000

SB PT STA 2436+9959 =
SB PCC STA 2437+0000

SB CURVE DATA
Δ = 7° 55' 00"
D = 0° 45' 00"
R = 7639.44'
T = 528.62'
L = 1055.56'
E = 18.27'
Rate = 1/4" Per Ft

(765')

+56'

(338')

748'

1035'

659'

(726')

(622')

108'

98'

N 36°36E

N 28°41'E

N 27°40E

MATCH LINE SEE SHEET No. 44

MATCH LINE SEE SHEET No. 46

28A

29

30

54 ROW

BM # 475
US ELEV
1525.72

BM # 476
US ELEV
1499.08

BM # 477
US ELEV
1528.49

Grade to Drain

BROOK

NB 2429+08 Lt — SB 2431+09 Rt
Construct Special Ditch, Item 106

NB 2423+65
130' RT.

NB 2429+25 Rt — 2429+08 Lt
New 48" x 276' ACCGMP, 10 Ga. Smurfd

NB 2432+00
New 24" x 146' ACCGMP, 16 Ga
Energy Dissipator 16 Gauge

NB 2434+00
130' RT.

NB 2435+05
156' RT.

NB 2436+00
180' RT.

NB 24+11.50
New 18" x 12' ACCGMP, 16 Ga

NB EOT STA 2423+53.76

NB BOT STA 2435+62.30

FDR & STETSON
ROUX

ROUX
SCRIBNER ESTATE

FILL
CUT

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

POTTER, O'BRIEN & STRONG
CONSULTING ENGINEERS
WEST ORANGE, N.J.

BROOKFIELD-WILLIAMSTOWN
SERLIN
I 89-1 (20)
SECTION No. I
SHEET 45 OF 90

PLAN SCALE
0 50 100
100 FEET

45

* DENOTES STAGE 2 ITEMS

* Three Cable Guard Rail w/ Light Steel Posts, Item 536
NB 2445+45 ~ 2452+00 Lt
NB 2437+00 ~ 2438+04 Lt
SB 2438+00 ~ 2447+54 Lt
SB 2451+98 ~ 2453+00 Lt
NB 2451+52 ~ 2452+00 Rt.

* Bituminous Concrete Curb, Item 555
NB 2446+00 ~ 2452+00 Lt

Drilling & Blasting of Solid Rock Subgrade, Item 115
NB 2437+00 ~ 2448+75
SB 2438+00 ~ 2452+50

Drilling & Blasting of Solid Rock, Item 114
NB 2449+25 ~ 2452+50

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD

STA	STA	POS
NORTHBOUND		
2437+00	2452+00	RT
SOUTHBOUND		
2438+00	2453+00	LT

VT Grid

○ FILL
△ CUT

ROUX
WILLEY

S.B. 2443+95
130' Lt.

SB POC STA 2436+57 (Approx.)
765'
SB PT STA 2442+2653
SB 2442+00 New 18" x 68' RCP, Class III
SB 2444+00 New 18" x 68' RCP, Class III
SB POT STA 2445+6768
1181'
SB 2446+00 New 18" x 64' RCP, Class III
SB POT STA 2449+6331
SB 2452+00 New 18" x 40' Acc. Cmp., 16 Ga.

MATCH LINE SEE SHEET No. 45

MATCH LINE SEE SHEET No. 47

BM #478
U.S. ELEV
1539.70

BM #479
U.S. ELEV
1538.62

BM #480
U.S. ELEV
1498.37

29

30

31

N 28°41'E

N 27°40'E

ROUX
SCRIBNER ESTATE

SCRIBNER ESTATE
WILLEY

N.B. 2442+22
40' RT.

N.B. 2442+22
180' RT.

N.B. 2444+00
180' RT.

N.B. 2448+00
115' RT.

N.B. 2441+00 New 18" x 78' RCP, Class III

N.B. 2445+00 New 18" x 78' RCP, Class III

N.B. 2449+00 New 18" x 100' Acc. Cmp. 16 Ga.

N.B. 2449+04 Lt. New 12" x 46' Pipe, Cmp. (16 Ga. or CMAP, 16 Ga. (Optional))

724'
622'
178'
405'
680'

NB POT STA 2440+4888
NB POT STA 2445+6339
NB POT STA 2450+5541

PBM #B-B16
U.S. ELEV
1529.08

1" Bronze Disc Set in Ledge

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

BROOKFIELD WILLIAMSTOWN
BERLIN
I 89-1(20)
SECTION No. I
SHEET 46 OF 90

PORTER, O'BRIEN & ASSOCIATES
CONSULTING ENGINEERS BURLINGTON, VT.

K+E

46

* DENOTES STAGE 2 ITEMS

* Three Cable Guard Rail w/ Light Steel Posts, Item 542
NB 2452+00~2461+44 Rt
NB 2452+00~2467+00 Lt
SB 2453+00~2467+98 Lt

* Bituminous Concrete Curb, Item 555
NB 2452+00~2461+00 Rt
NB 2452+00~2464+00 Lt

Drilling & Blasting of Solid Rock Subgrade, Item 115
SB 2459+25 — 2468+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 543-E MID.		
STA	STA	POS
NORTHBOUND		
2452+00	2467+00	RT
SOUTHBOUND		
2453+00	2468+00	LT

○ FILL
△ CUT

SB POT STA 2455+2079
SB 2455+76
130' LT.
(118')
SB 2457+50
24"x42" ACCGMP, 14 Ga.
SB 2459+50
New 18"x32" ACCGMP, 16 Ga.
SB POT STA 2460+7745
SB 2462+26
New 48"x 76" ACCGMP, 10 Ga.
SB POT STA 2467+0501
SB 2467+00
New 18"x 100' ACCGMP, 16 Ga.
(2659')
6"WBR 13.5
4"x8"BR 2.02
2454
2455
2456
2457
2458
2459
2460
6"BCMT 13.37
4"x8" 2.60
2461
2462
2463
2464
2465
2466
N 28°41'E
8"WBR 6.74
6"WBR 2.74
Grade to Drain
4"DWF 4.23
23"CR 10.58
18"RCP 4.23
MATCH LINE SEE SHEET No. 46
MATCH LINE SEE SHEET No. 48
450'
BM #481
U.S. ELEV.
1469.02
31
32A
BM #482
U.S. ELEV.
1458.01
BM #483
U.S. ELEV.
1455.31
8"SR
6"WBR 2.74
6"CMP 14.00'
6"CMP 9.13
10"CMP 10.35
6"CMP 13.55
6"CMP 14.33
6"WBR 13.11
6"CMP 3.84
12"PIPE 3.30
6"WBR 2.38
N 27°40'E
2453
2454
2455
2456
2457
2458
2459
2461
2462
2464
2465
2466
Grade to Drain
Grade to Drain
BROOK
SPRING
NB POT STA 2459+9097
(680')
NB POT STA 2453+4334
(2415')
NB POT STA 2462+8692
NB 2455+40 Lt.
New 12"x 84' CGMP, 16 Ga
or CAAPIP 16 Ga (Optional)
NB 2455+100 Lt.
New 12"x 84' Pipe, CGMP, 16 Ga
or CAACP, 16 Ga (Optional)
NB 2455+100 Rt.
New 12"x 36' Pipe, CGMP, 16 Ga
or CAACP, 16 Ga (Optional)
N.B 2454+80
115' RT.
WILLEY
TOWN OF WILLIAMSTOWN
NB2456+100 Lt.
New 12"x 64' Pipe, CGMP, 16 Ga
or CAACP, 16 Ga, (Optional)
NB2458+100 Rt.
New 12"x 40' Pipe, CGMP, 16 Ga
or CAACP, 16 Ga (Optional)
NB 2460+44 Rt. — 2462+50 Lt.
New 48"x 170' ACCGMP, 10 Ga
NB2461+00 Rt.
New 12"x 76' Pipe, CGMP, 16 Ga
or CAACP, 16 Ga (Optional)
NB 2461+00 Lt.
New 12"x 170' Pipe, CGMP, 16 Ga
or CAACP, 16 Ga (Optional)
NB 2463+25 Rt. — 2463+50 Lt.
New 18"x 124' ACCGMP, 16 Ga
NB 2464+00 Lt.
New 12"x 30' Pipe, CGMP, 16 Ga
or CAACP, 16 Ga (Optional)

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(20)
SECTION No. I
SHEET 47 OF 90

PORTER, O'BRIEN, & ASSOCIATES
CONSULTING ENGINEERS

47

* DENOTES STAGE 2 ITEMS

* Three Cable Guard Rail w/ Light Steel Posts, Item 542
NB 2473+50 – 2482+00 Lt.
NB 2467+00 – 2467+05 Lt.
SB 2474+50 – 2484+00 Lt.

* Jute Matting Item 623
SB 2469+00 – 2470+00 Rt.
SB 2469+00 – 2473+00 Lt.

Plank Guard Rail, Item 540
NB 2478+70 Rt. 40 L.F.

Drilling & Blasting of Solid Rock Subgrade Item 115
NB 2467+00 – 2475+35
SB 2469+25 – 2473+75
SB 2475+75 – 2481+75
SB 2483+25 – 2484+00

Drilling & Blasting of Solid Rock, Item 114
SB 2483+25 – 2481+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2467+00	2482+00	RT
SOUTHBOUTD		
2468+00	2484+00	LT

FILL
CUT

SB POT STA 2475+7294
SB POT STA 2476+93.57
SB POT STA 2481+27.60
NB POT STA 2468+72.78
NB PC STA 2475+16.45
(2650')
(2415')
(1250')
SB 2471+27 New 24" x 130' ACCGMP, 16 GA.
SB 2474+27 New 24" x 104' R.C.P. Class III
SB 2478+76 New 24" x 60' ACCGMP, 16 GA.
SB 2480+28 New 24" x 60' ACCGMP, 16 GA.
SB 2482+35 130' Lt.
NB 2469+50 New 24" x 80' RCP Class III
NB 2473+50 New 24" x 104' RCP Class III
NB 2476+50 New 18" x 106' ACCGMP, 16 GA.
NB 2473+50 New 24" x 106' ACCGMP, 16 GA.
NB 2480+56 115' Rt.
NB 2470+95 115' Rt.
BM # 484 US ELEV. 144534
BM # 485 US ELEV. 145310
BM # 486 US ELEV. 144984
PBM # B-817 US ELEV. 117448
N 28°41'E
N 27°40'E
90°
88°59'40"
321
326
33
34
392
469
165'
FARM HOUSE (IN RUINS)
FUN
GRAVEL ROAD
8" TILE PIPE
1st STONE BOW
Grade to Drain
BRONZE BSC 3½" W. LEDGE
TOWN ROAD
PROVET MITCHELL
(1619')
(1784')
TOWN OF WILLIAMSTOWN PROVET
MATCH LINE SEE SHEET No. 47
MATCH LINE SEE SHEET No. 49

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PORTER, CRAVEN & ASSOCIATES, INC. CONSULTING ENGINEERS Concord, N.H.

PLAN SCALE
0 50 100
100 FEET

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1 (20)
SECTION No. I
SHEET 18 OF 32

48

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type) Item 612
NB 2483+50 (Outlet Ditch)

Drilling & Blasting of Solid Rock, Item 114
SB 2484+00 — 2485+50

Drilling & Blasting of Solid Rock Subgrade, Item 115
NB 2482+75 — 2493+00
SB 2484+00 — 2495+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 665-2.1900.

STA	STA	FOR
NORTHBOUND		
2482+00	2493+00	RT
SOUTHBOUND		
2484+00	2495+00	LT

* Three Cable Guard Rail w/Light Steel Posts, Item 536
NB 2482+00 — 2484+54 Lt.
SB 2484+00 — 2489+02 Lt.

END CONTRACT No 2 BEGIN CONTRACT No 3
NB. STA. 2493+00.00 NB. STA. 2493+00.00
SB. STA. 2495+0000 SB. STA. 2495+00.00

FILL
CUT

SB 2484+27 New 30" x 80' ACCOMP. 14 GA.
SB POT STA 2487+3100
(1250')
SB 2488+28 New 24" x 102' RCP., Class III
SB POT STA 2491+66.98
SB 2494+85 130' LT.
SB POT STA 2494+84.56
326'
SB 2495+50 New 18" x 64' RCP CL III
SB 2495+50 - 2499+20 OBLIT. New 18" x 360' ACCOMP 16 GA.
SB 2498+11 130' LT.
(532')
MATCH SHEET 50
NB 2497+16 87' LT
(222')
NB 2496+60 83' LT.
54'
FA QUIET CR. E. PARSON
OUTHOUSE
CAMP
STONE FIREPLACE
CELLAR HOLE
ANGLE IRON
BM # 488 US ELEV 148073
BM # 489 US ELEV 147329
BM # 487 US ELEV 145936
MATCH LINE SEE SHEET No 48
N 28° 41' E
N 27° 40' E
N 29° 55' E
2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2496 2497
2483 2484 2485 2487 2488 2490 2491 2492 2494 2495 2496 2497
33
32G
34
33
35A
TOWN ROAD #2
GRAVEL ROAD
APPROXIMATE LOCATION OF WATER PIPE 3/4" PLASTIC
(469')
NB. POC. STA. 2482+5000
239'
NB. PI. STA. 2484+1212
2484+1183
NB 2483+65 115' RT.
NB. POC. STA. 2486+0000
705'
455'
NB. PT. STA. 2493+07.56
NB 2484+00 170' RT.
NB 2486+50 New 24" x 78' RCP., Class III
NB 2486+50 ~ 2490+50 New 18" x 402' RCP., Class III
NB 2490+50 New 18" x 62' RCP., Class III
NB 2493+08 170' RT.
NB 2497+63 170' RT.
NE 2498+00 New 10" x 16' CMPR 16 GA.
(422')
MITCHELL GRENNSON

NB CURVE DATA
Δ = 2° 14' 20"
D = 0° 07' 30"
R = 45,836.62'
T = 895.67'
L = 1791.11'
E = 8.75'
Bank = 1/4" Per Ft.

NB. 2482+23 Rt. Construct New Spring Box For Details See Sheet No of 426
NB 2482+23 New 6' x 78' ACCOMP., 16 Ga
NB 2482+50 New 30" x 92' ACCOMP., 14 Ga.

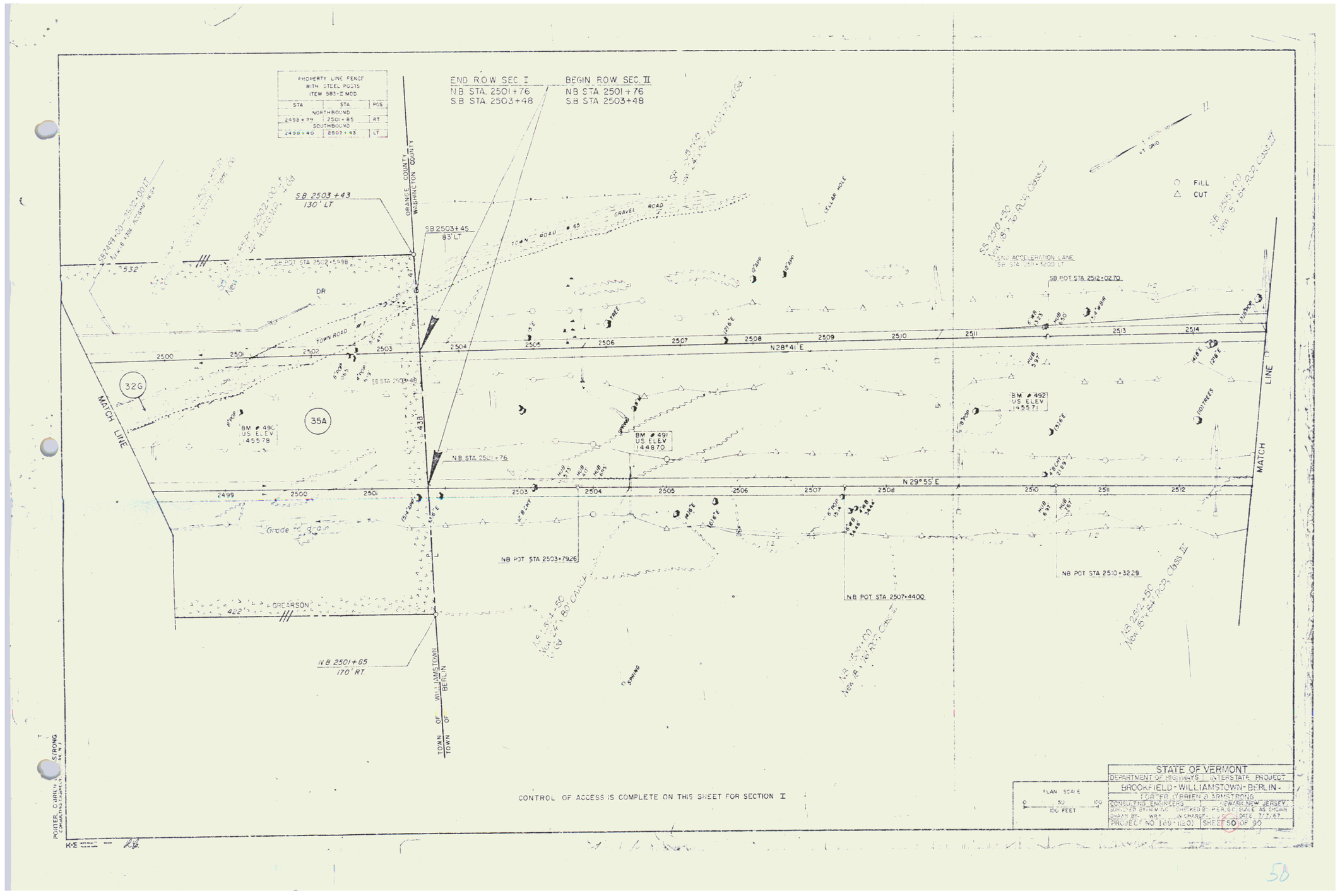
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PORTER O'BRIEN & ASSOCIATES CIVIL ENGINEERS & LAND SURVEYORS

PLAN SCALE
0 50 100 FEET

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(20)
SECTION No. I
SHEET 49 OF 90

49


PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-E MOD
STA | STA | POS
NORTHBOUND
2498+34 | 2501+85 | RT
SOUTHBOUND
2498+40 | 2503+43 | LT
END R.O.W SEC. I
N.B. STA. 2501+76
S.B. STA. 2503+48
BEGIN R.O.W. SEC. II
N.B. STA. 2501+76
S.B. STA 2503+48
ORANGE COUNTY
WASHINGTON COUNTY
SB 2503+43
130' LT
SB 2503+45
83' LT
SB POT STA 2502+09.8
SB 2499+00-2502+00 LT
New 8" x 13.5# A.C.M.P. C&I
SB 2502+00-2502+43
2" ACCUMP. C&I
SB 2502+43-2503+43
New 8" x 13.5# A.C.M.P. C&I
1532'
DR
TOWN ROAD
GRAVEL ROAD
TOWN ROAD #65
CELLAR HOLE
SB 2504+50-2505+00 LT
New 15" x 76 R.C.P. CLASS III
SB 2505+00
New 15" x 84 R.C.P. CLASS III
N.B. ACCELERATION LANE
SB STA 2511+20.00 LT
SB POT STA 2512+02.70
N28°41' E
2500
2501
2502
2503
2504
2505
2506
2507
2508
2509
2510
2511
2513
2514
32G
35A
MATCH LINE
BM # 490
U.S. ELEV.
145578
BM # 491
U.S. ELEV.
144870
BM # 492
U.S. ELEV.
145571
SB STA 2503+48
N.B. STA 2501+76
N 29°55' E
2499
2500
2501
2503
2504
2505
2506
2507
2508
2510
2511
2512
Grade to drain
422'
L GREARSON
N.B. 2501+65
170' RT.
N.B. 2501+80
New 24" x 80' C.M.P.
N.B. 2503+00
New 18" x 76 R.C.P. CLASS III
N.B. 2512+50
New 15" x 84 R.C.P. CLASS III
N.B. POT STA 2503+7926
N.B. POT STA 2507+4400
N.B. POT STA 2510+3229
SPRING
TOWN OF WILLIAMSTOWN
TOWN OF BERLIN
FILL
CUT
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET FOR SECTION I
PORTER, GURLEY & STRONG
CONSULTING ENGINEERS
NEWARK, N.J.
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS INTERSTATE PROJECT
BROOKFIELD - WILLIAMSTOWN - BERLIN -
PORTER, GURLEY & STRONG
CONSULTING ENGINEERS NEWARK, NEW JERSEY
SURVEYED BY- W.M.N.C. CHECKED BY- P.E.R., G.C. SCALE AS SHOWN
DRAWN BY- W.R.F. IN CHARGE- L.J.C. DATE 7/7/67
PROJECT NO 109-1(20) SHEET 50 OF 90
PLAN SCALE
0 50 100
100 FEET

5b

STATE OF VERMONT

DEPARTMENT OF HIGHWAYS

RIGHT-OF-WAY PLANS

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
35B	LLOYD S. & ANNA GREARSON	9-13	SB 2503+45	SB 2539+72	57.8A±	2.93A± WASHINGTON COUNTY							
C		11	REL T-65 4+00	REL T-65 7+23	0.28A±								
D		11	REL T-65 12+70	REL T-65 16+00	0.30A±								
			SB 2505+65 LT				DRAINAGE (P)						
			SB 2510+50 LT				DRAINAGE (P)						
			SB 2514+50 LT				DRAINAGE (P)						
			SB 2518+50 LT				DRAINAGE (P)						
			SB 2523+00 LT				DRAINAGE (P)						
			RAMP "C" 36+25 LT				DRAINAGE (P)						
			SB 2520+23 LT				DRAINAGE (P)						
			NB 2501+85	NB 2523+74									LOSS OF ACCESS (1.8A±)
37	LESLIE G. GALLUP	10, 12, 13	NB 2523+74	RAMP "B" 6+04	10.1A±	48.9A±							
			RAMP "B" 6+00 RT				DRAINAGE (P)						
			RAMP "B" 5+00 RT				DRAINAGE (P)						
			RAMP "B" 3+33 RT				DRAINAGE (P)						
			RAMP "B" 2+00 RT				DRAINAGE (P)						
			RAMP "B" 1+50 RT				DRAINAGE (P)						
			SBAR 62+50 LT				DRAINAGE (P)						
38A	JAMES G. & VESTA M. KEMPTON	11	REL T-65 4+90	REL T-65 13+50	1.2A±	24.7A±							
B		11	REL T-65 7+23	REL T-65 12+70	0.45A±		DRAINAGE (P)						
			REL T-65 11+00 LT				DRIVE						
			REL T-65 13+36										
39	LLOYD B. & MARION SARTELLE	11	REL T-65 13+36	REL T-65 16+00	0.20A±	26.0A±							
			REL T-65 13+36				DRIVE						
40	CLAYTON R. & BERTHA L. PHILLIPS	11-14	SB 2539+72	SB 2557+25	22.5A±	78.7A±							
			SBAR 47+50 LT				DRAINAGE (P)						
			SBAR 47+60 LT				DRAINAGE (P)						
			SB 2538+90 LT				DRAINAGE (P)						
			SB 2539+00 LT				DRAINAGE (P)						
			SB 2541+00 LT				DRAINAGE (P)						
			SB 2543+00 LT				DRAINAGE (P)						
			SB 2545+00 LT				DRAINAGE (P)						
			SB 2546+00 LT				DRAINAGE (P)						
			RAMP "B" 6+00 RT				DRAINAGE (P)						
			NB 2544+00 RT				DRAINAGE (P)						
			NB 2546+00 RT				DRAINAGE (P)						
			SB 2547+00 LT				DRAINAGE (P)						
			SB 2549+00 LT				DRAINAGE (P)						
			SB 2550+50 LT				DRAINAGE (P)						
41	DONAT B. & LILA T. BOYER	14, 15	NB 2554+73	SB 2570+08	17.6A±	145.5A±							
			SB 2560+50 LT				DRAINAGE (P)						
			NB 2561+50 RT				DRAINAGE (P)						
24C	CHARLES A. SANDERS	P or P	SA-2 22+65	SA-2 26+70	2.3A±	25.4A±							NON-PARTICIPATING (ACQUIRED FOR MAINTENANCE AREA)

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	14+15	Parcel #41 Wife's name changed from Alice to Lila on detail sheet Per Change Order #908	2-21-67	RAL	
2	16&18	Parcel #14 A&B, Joe & Douglas, Beginning & Ending Sta at Driving Right (R) Beginning Sta 25+83 Lt to 25+57 LT Indicated on Detail Sheet, Per Change Order #999	2-15-68	JAB	
3	A of G 8 of G 13, 22 23+24	Parcel #45 Added E. Nicholas Sanguinetti To Plans (Change Of Ownership) Per Change Order #1006	2-26-68	RLB	
4	9	Parcel #55 Created new parcel due to change of take line between sta SB 2503+43 Lt to 2504+37 Lt Per Change Order #1128	5-9-68	RPD	
5	7+11	Parcels #38 And #39 Added Drive At Kempton-Sartelle ℄ L At Sta. REL T-65 13+36 Per Change Order #1137	5-17-68	WJM	
6	7, 8	Parcel #24C Made A Non-Participating Parcel Per Change Order #1519	3-13-70	WJM	TCB
7	8, 23, 24	Parcel #47 Peake, Revise Property Line Between Gagnon And Peake, Add Parcel #47A Per Change Order #2472	10-6-72	DLB	T.C.C.
8	8, 23, 24	Parcel #46 Gagnon, Revise Property Line Between Gagnon And Peake To Correct Error In Original Plans Per Change Order #2473	10-6-72	DLB	T.C.C.

LEGEND

- TAKING WITHOUT ACCESS
- TAKING WITHOUT ACCESS ALONG PROPERTY LINES
- TAKING WITH ACCESS
- (T) TEMPORARY EASEMENT
- (P) PERMANENT EASEMENT
- SR — SR — SLOPE RIGHTS
- PROPERTY LINE
- TOP OF CUT
- TOP OF SLOPE

MADE BY F. Burke DATE 10-2-67

CHECKED BY R. Galbraith DATE 10-2-67

APPROVED Thomas C. Barnett DATE 10-2-67
PROGRAM SUPERVISOR

APPROVED L. M. Lank DATE 10-3-67
PROJ. ENGR.

APPROVED H. P. Anderson DATE 10-3-67
R.O.W. DIRECTOR

BROOKFIELD-WILLIAMSTOWN-BERLIN
SHEET 7 OF 40 SHEETS
189-1(20) SEC. II

51

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO	GRANTOR	SHEET NO	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
42 A	B. W. HOOKER AND COMPANY, INC	15-17	N.B. 2566+68	N.B. 2580+73	11.9A±								SPRING
B		15-18	RELT-57 8+50	RELT-57 20+73	1.8A±								PIPELINE
C		16,18	RELT-57 25+03	RELT-57 27+75	0.18A±	470A±							TRAILER
D		16,18,19	N.B. 2582+85	N.B. 2599+03	14.3A±								SHED
			RELT-57 11+00LT				DRAINAGE (P)						
			SB 2568+00 LT				DRAINAGE (P)						
			SB 2591+77 LT				DRAINAGE (P)						
			SB 2596+63 LT				DRAINAGE (P)						
			RELT-57 10+90RT	RELT-57 20+44RT			SLOPE 0.40A± (T)						
			SB 2584+98	SB 2597+80									LOSS OF ACCESS (8.2A±)
43	GLADYS E. CHENETTE	15,18	SB 2570+08	SB 2584+98	5.8A±	21.3A±							
			SB 2571+25 LT.				DRAINAGE (P)						
			SB 2580+00 LT.				DRAINAGE (P)						
			SB 2584+00 LT.				DRAINAGE (P)						
44 A	ALIDA T. DOE & GEORGE E. AND	16,18	RELT-57 20+73	RELT-57 25+03	0.80A±								
B	ALMEDA T. DOUGLAS	16,18	RELT-57 20+44	RELT-57 27+45	0.90A±	4.7A±							
			RELT-57 27+00RT				DITCH (P)						
			RELT-57 20+44RT	RELT-57 27+38RT			SLOPE 3,250 SF (T)						
			RELT-57 25+83.7	26+57 LT			DITCH (P)						
45 A	RICHARD E. DAVIS & E. NICHOLAS	19-22	NB 2595+71	SB 2627+24	5.33A±								
B	SANGUINETTI	23,24	SB 2641+67	SB 2655+90	81A±	158A±							
			SB 2600+63 LT.				DRAINAGE (P)						
			SB 2604+63 LT.				DRAINAGE (P)						
			SB 2608+63 LT.				DRAINAGE (P)						
			SB 2612+64 LT.				DRAINAGE (P)						
			SB 2616+64 LT.				DRAINAGE (P)						
			SB 2620+63 LT.				DRAINAGE (P)						
			SB 2642+08 LT.				DRAINAGE (P)						
			SB 2647+29 LT.				DRAINAGE (P)						
			SB 2652+22 LT.				DRAINAGE (P)						
			SB 2653+72 LT.				DRAINAGE (P)						
46	EDMOND & GERALDINE GAGNON	21-24	NB 2623+55	NB 2652+05	29.0A±	52.5A±							
			SB 2626+84 LT.				DRAINAGE (P)						
			SB 2634+20 LT.				DRAINAGE (P)						
			SB 2627+24	SB 2641+67									LOSS OF ACCESS (13A±)
47	HOWARD P. & THERESA L. PEAKE	24	NB 2652+00	NB 2655+03	0.45A±	28.7A±							
47 A			NB 2651+50RT	NB 2652+63RT	0.16A±			WD	2-2-73	BERLIN	40	465	
50 A	TOWN OF BERLIN	9	SB 2503+45 LT	SB 2504+37 LT			R,T & I TR-65						
B		11	RELT-65 7+23RT	RELT-65 10+70RT			R,T & I TR-65						
C		15	NB 2566+68RT	SB 2570+08LT			R,T & I TR-64						
D		15-18	NB 2571+30 RT.	RELT-57 25+03LT			R,T & I TR-57						
52	GEORGE E. & ALMEDA T. DOUGLAS	16,18	RELT-57 27+45	RELT-57 27+75	990SF	1.7A±							
28B	FRANCIS E. POOR & WENDELL J. STETSON	24A	SB 2407+13	SB 2420+65	2.2A±								
	(SEE SHEET 10, SECTION 1)		SB 2406+50 LT				DRAINAGE (P)						
		SEC. I	SB 2414+00 LT				DRAINAGE (P)						
		10,43	SB 2418+00 LT				DRAINAGE (P)						
		44	SB 2422+00 LT				DRAINAGE (P)						
55	City of Montpelier	9	SB 2503+43 LT	SB 2504+37 LT	2000 SQ. FT.								

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

LEGEND

- ——//——//—— TAKING WITHOUT ACCESS
- ——//——P/L——//—— TAKING WITHOUT ACCESS ALONG PROPERTY LINES
- ———————— TAKING WITH ACCESS
- (T) TEMPORARY EASEMENT
- (P) PERMANENT EASEMENT
- ——SR——SR—— SLOPE RIGHTS
- ——————— PROPERTY LINE
- —Δ——Δ——Δ— TOP OF CUT
- —O——O——O— TOE OF SLOPE

#2
#3

MADE BY T. Burke DATE 10-2-67

CHECKED BY J. Kilmartin DATE 10-2-67

APPROVED Thomas E. Bumsted DATE 10-2-67
PROGRAM SUPERVISOR

APPROVED [signature] DATE 10-3-67
HWY. ENGR

APPROVED H.F. Ingram DATE 10-3-67
R.O.W. DIRECTOR

BROOKFIELD-WILLIAMSTOWN-BERLIN
SHEET 8 OF 40 SHEETS
189-1(20) SEC. 11

52

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
	RELINQUISHMENT NO. I		T.H. 65 4+00 ℄	T.H. 65 16+00 ℄				AGREE.	9-10-79	BERLIN	46	217	TOWN HIGHWAY 65
	RELINQUISHMENT NO. II		T.H. 57 8+50 ℄	T.H. 57 27+75 ℄				AGREE.	9-10-79	BERLIN	46	217	TOWN HIGHWAY 65

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

MADE BY: BAM DATE 9-25-79

CHECKED BY: WEB DATE 9-25-79

DR. RT. — DRAINAGE RIGHT
DIT. RT. — DITCHING RIGHT
CH. RT. — CHANNEL RIGHT
DRIVE RT. — DRIVE RIGHT
CUL. RT. — CULVERT RIGHT
(D) — DEMOLITION OR REMOVAL
(W) — WATER SOURCES

PRESENT R.O.W.
TAKING WITHOUT ACCESS
TAKING WITHOUT ACCESS ALONG PROPERTY LINES
TAKING WITH ACCESS
(P) PERMANENT EASEMENT
(T) TEMPORARY EASEMENT

LEGEND

CONST EASE — CONST EASEMENT
SR — SR — SLOPE RIGHTS
P/L — P/L — PROPERTY LINE
TOP OF CUT
TOE OF SLOPE

APPROVED Thomas P. Mayo CHIEF OF PLANS & TITLES DATE 9/26/79

PROJECT BROOKFIELD – BERLIN
NO. I 89-1 (20)
SHEET 8A OF 40
SEC 3

RGW
53

END R.O.W. SEC. I
NB. STA. 2501+85
SB. STA. 2503+45

BEGIN R.O.W. SEC. II
NB. STA. 2501+85
SB. STA. 2503+45

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD		
STA.	STA.	POS.
NORTHBOUND		
250.+85	2512+84	RT.
SOUTHBOUND		
2503+43	2515+15	LT.

ORANGE COUNTY
WASHINGTON COUNTY
CITY OF MONTPELIER
P. L.

SB 2500+40 – 2502+00 LT
New 18"x40' ACCGMP, 14 GA

NB 2495+00 LT – SB 2500+85 Rt
Construct Special Ditch, Item 106

SB 2500+85 Rt – 2502+00 LT
New 30"x 46' ACCGMP, 12 GA

SB 2503+43
130' LT

SB 2504+37
130' LT.

SB 2505+65
New 24"x 74' ACCGMP, 12 GA

SB POT STA 2502+59.98

TOWN ROAD #7

GRAVEL ROAD

TOWN ROAD #65

CELLAR HOLE

1763'

SB 2510+50
8'x 16' RCP, CLASS III

END ACCELERATION LANE
SB STA 2511+32.00 LT

SB POT STA 2512+02.70

SB 2514+82
New 8'x 68' RCP, CLASS III

FILL
CUT

VT GRID

N28°41'E

N29°55'E

BM ø 490
U.S. ELEV
1455.78

BM ø 491
U.S. ELEV
1448.70

BM ø 492
U.S. ELEV
1455.71

35B

Grade & grain

NB POT STA 2503+79.26

NB POT STA 2510+32.29

NB POT STA 2507+44.00

1215'

ORANGE

WASHINGTON

TOWN OF WILLIAMSTOWN
TOWN OF BERLIN

NB 2501+85
170' RT.

NB 2503+45 – SB 2504+37
New 24"x 60' AACP
16 GA

NB 2509+00 – SB 2510+50
Construct Special Ditch
Item 106

NB 2509+00
New 18"x 76' RCP, CLASS III

NB 2512+50 – SB 2514+50
Construct Special Ditch
Item 106

NB 2514+50
New 16"x 54' RCP, CLASS III

MATCH LINE

MATCH LINE

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET FOR SECTION II

PLAN SCALE
0 50 100
100 FEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS | INTERSTATE PROJECT
BROOKFIELD-WILLIAMSTOWN-BERLIN
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS | W. WARK, NEW JERSEY
SURVEYED BY W.M.C. | CHECKED BY H.E.G. | SCALE AS SHOWN
DRAWN BY W.R.F. | IN CHARGE I. J.C. | DATE 8/1/67
PROJECT NO. 189-1(6) OF ISH F 90-40

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS - TRENTON, N.J.

Sec II Row con Plans

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA	STA	POS
NORTHBOUND		
2512 + 84	2529 + 14	RT
SOUTHBOUND		
2515 + 15	Ramp "C" 37+00	LT

RAMP "C" CURVE DATA
Δ = 42° 04' 21"
D = 8° 00' 00"
R = 716.20'
T = 275.44'
L = 525.90'
E = 51.14'
Bank = 7/8" Per Ft

S.B. 2522 + 00
130' LT.

SB 2520+20-2520+23 Lt.
New 2'+38" ACCGMP, 16 Ga.

SB 2520+23 Lt.
Construct New Spring Box
For Details See
Sheet 10 of 397

SB 2523+00 Rt.-Ramp "C" 33+00 Lt.
New 24"x 108" RCP, Class III

SB 2516+50
New 30"x 86' ACCGMP, 14 Ga.

SB POT STA 2517+88.81

SB POT STA 2520 + 4161

SB POT STA 2521+32.40+
RAMP "C" PC STA 31+24.02 24.00' LT

RAMP "D" CURVE (A) PI STA 41+20.93+
33+87.94

RAMP "C" POC STA 34+50.00

RAMP "C" PI STA 33+99.46
33+74.48

RAMP "C" PT STA 36+49.92

SB PC STA 2527+92.77

MATCH LINE STA 37+00.00

MATCH LINE STA 38+00.00

SB 2527+50
New 18"x 78" RCP, Class III

RAMP "D"

RAMP "C"

1000 ACCELERATION LANE INCLUDING 300' TAPER

N 28° 41' E

N 29° 55' E

N 13° 24' W

N 25° 36' E

BM #494
U.S. ELEV.
1439.52

BM #494
U.S. ELEV.
1448.87

BM #495
U.S. ELEV.
1448.84

BM #493
U.S. ELEV.
1449.84

SB POST STA 2529+50.56

NB POC STA 2528+00.00

NB PC STA 2518+65.20

NB POC STA 2522+50.00

NB POC STA 2524+50.00

BEGIN DECELERATION LANE
NB 2523+82.80 RT

35B

37

(1215')

989'

(1490')

(1490')

443'

(597')

NB 2514+00
170' RT.

NB 2516+00 Lt.-SB 2516+50 Rt.
Construct Special Ditch
Item 106

NB 2521+00 Lt.-SB 2523+00 Rt.
Construct Special Ditch
Item 106

NB 2523+74
240' RT.

NB 2525+50
New 18"x 66' ACCGMP
16 Ga.

NB 2525+50-2529+00
New 18"x 330' ACCGMP
16 Ga.

NB 2528+00
300' RT.

GREARSON
GALLUP

FILL
CUT

VT GRID

MATCH LINE

MATCH LINE

FOR PROFILES OF RAMPS "C" & "D"
SEE SHEET 37 OF 40

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS | INTERSTATE PROJECT
BROOKFIELD - WILLIAMSTOWN - BERLIN
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS | NEWARK, N.W. JERSEY
PROJECT NO. I 89-1(20) | SHEET 10 OF 40

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

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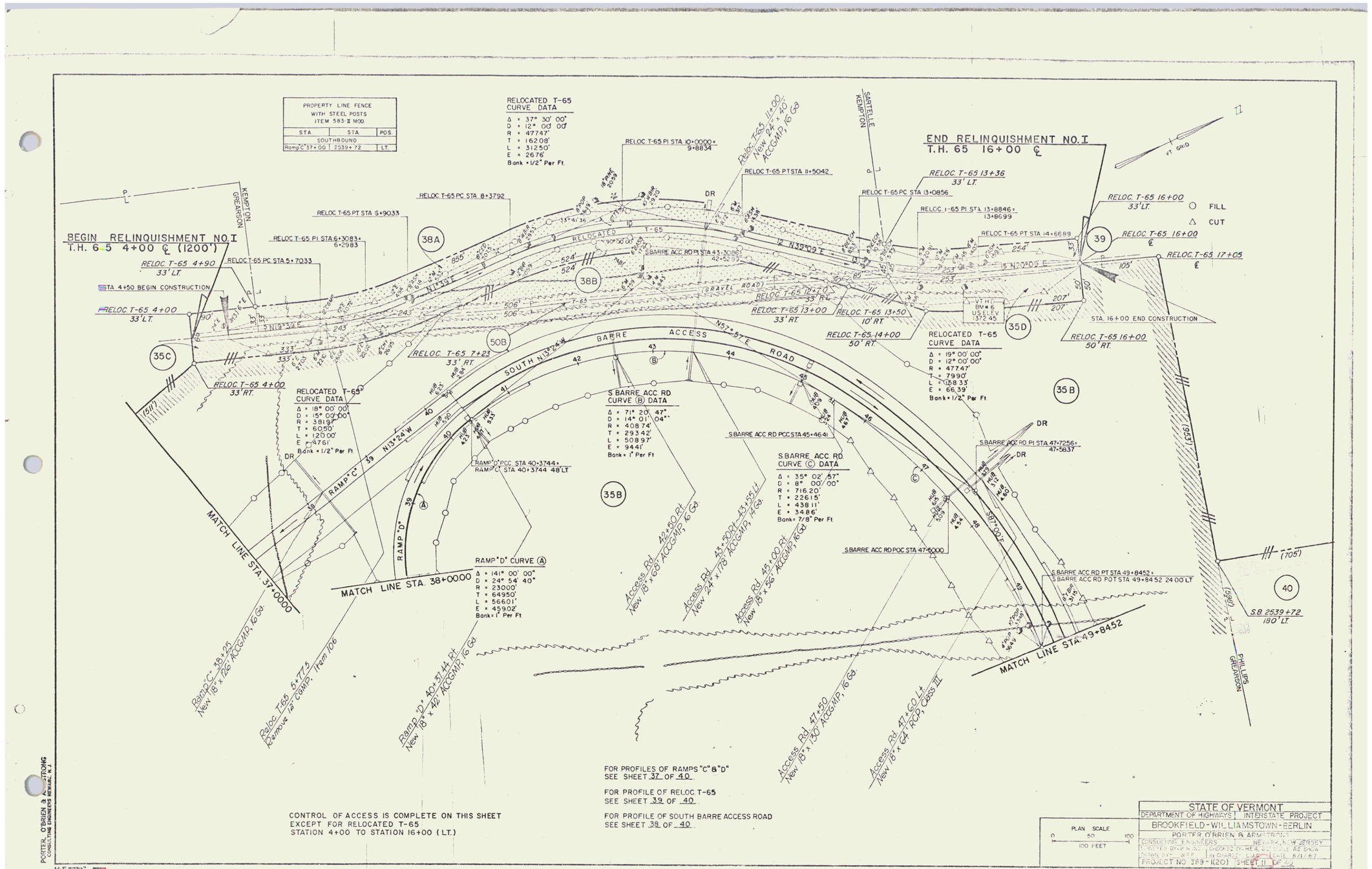
PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583.11 MOD
STA | STA | POS.
SOUTHBOUND
Ramp C 37+00 | 2539+72 | LT.
RELOCATED T-65 CURVE DATA
Δ = 37° 30' 00"
D = 12° 00' 00"
R = 477.47'
T = 162.08'
L = 312.50'
E = 26.76'
Bank = 1/2" Per Ft.
BEGIN RELINQUISHMENT NO. I
T.H. 6-5 4+00 ℄ (1200')
END RELINQUISHMENT NO. I
T.H. 65 16+00 ℄
RELOC T-65 4+90 33' LT.
RELOC T-65 4+00 33' LT.
STA. 4+50 BEGIN CONSTRUCTION
RELOC T-65 4+00 33' RT.
RELOC T-65 7+23 33' RT.
RELOC T-65 12+70 33' RT.
RELOC T-65 13+00 33' RT.
RELOC T-65 13+50 10' RT.
RELOC T-65 14+00 50' RT.
RELOC T-65 13+36 33' LT.
RELOC T-65 16+00 33' LT.
RELOC T-65 16+00 50' RT.
RELOC T-65 16+00 ℄
RELOC T-65 17+05 ℄
STA. 16+00 END CONSTRUCTION
RELOC T-65 PC STA 8+3792
RELOC T-65 PT STA 9+9033
RELOC T-65 PI STA 6+3083 = 6+2983
RELOC T-65 PC STA 5+7033
RELOC T-65 PI STA 10+0000 = 9+8834
RELOC T-65 PT STA 11+5042
RELOC T-65 PC STA 13+0856
RELOC T-65 PI STA 13+8846 = 13+8699
RELOC T-65 PT STA 14+6689
RELOC T-65 11+00 New 24" x 40' ACCGMP 16 Ga
SARTELLE KEMPTON
KEMPTON GREARSON
RELOCATED T-65 CURVE DATA
Δ = 18° 00' 00"
D = 15° 00' 00"
R = 381.97'
T = 60.50'
L = 120.00'
E = 4.76'
Bank = 1/2" Per Ft.
RELOCATED T-65 CURVE DATA
Δ = 19° 00' 00"
D = 12° 00' 00"
R = 477.47'
T = 79.90'
L = 158.33'
E = 6.66'
Bank = 1/2" Per Ft.
S BARRE ACC RD CURVE (B) DATA
Δ = 71° 20' 47"
D = 14° 01' 04"
R = 408.74'
T = 293.42'
L = 508.97'
E = 94.41'
Bank = 1" Per Ft.
S BARRE ACC RD CURVE (C) DATA
Δ = 35° 02' 57"
D = 8° 00' 00"
R = 716.20'
T = 226.15'
L = 438.11'
E = 34.86'
Bank = 7/8" Per Ft.
RAMP "D" CURVE (A)
Δ = 141° 00' 00"
D = 24° 54' 40"
R = 230.00'
T = 649.50'
L = 566.01'
E = 459.02'
Bank = 1" Per Ft.
S BARRE ACC RD PC STA 43+30.86 = 42+52.93
S BARRE ACC RD PI STA 43+30.86 = 42+52.93
S BARRE ACC RD PCC STA 45+46.41
S BARRE ACC RD POC STA 47+60.00
S BARRE ACC RD PI STA 47+72.56 = 47+56.37
S BARRE ACC RD PT STA 49+84.52 = S BARRE ACC RD POT STA 49+84.52 24.00 LT
RAMP "C" STA 40+37.44 48' LT
RAMP "D" PCC STA 40+37.44
RAMP "D" STA 40+37.44 48' LT
S.B. 2539+72 180' LT
VT GRID
VT HD BM # 6 USE ELEV 1372.45
FILL
CUT
SOUTH N13°24'W BARRE ACCESS ROAD
N57°57'E
N13°24'W
N13°33'E
N32°09'E
N20°02'E
GRAVEL ROAD
RAMP "C"
RAMP "D"
MATCH LINE STA. 37+0000
MATCH LINE STA. 38+0000
MATCH LINE STA. 49+8452
Ramp "C" 38+126 New 18" x 126' ACCGMP, 16 Ga.
Reloc. T65 5+77.5 Remove 18" CMP, Item 106
Ramp "D" 40+37.44 Rt. New 18" x 42' ACCGMP, 16 Ga.
Access Rd. 42+60 Rt. New 18" x 68' ACCGMP, 16 Ga.
Access Rd. 43+30 Rt. - 43+55 Lt. New 24" x 178' ACCGMP, 14 Ga.
Access Rd. 45+00 Rt. New 18" x 56' ACCGMP, 16 Ga.
Access Rd. 47+50 New 18" x 130' ACCGMP, 16 Ga.
Access Rd. 47+60 Lt. New 18" x 64' RCP, Class III
(1611)
(1705)
(1963)
(1696)
PHILLIPS GREARSON
35C
38A
38B
50B
35D
35B
39
40
FOR PROFILES OF RAMPS "C" & "D" SEE SHEET 37 OF 40.
FOR PROFILE OF RELOC T-65 SEE SHEET 39 OF 40.
FOR PROFILE OF SOUTH BARRE ACCESS ROAD SEE SHEET 38 OF 40.
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET EXCEPT FOR RELOCATED T-65 STATION 4+00 TO STATION 16+00 (LT.)
PORTER, O'BRIEN & ARMSTRONG CONSULTING ENGINEERS NEWARK, N.J.
PLAN SCALE 0 50 100 100 FEET
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS | INTERSTATE PROJECT
BROOKFIELD - WILLIAMSTOWN - BERLIN
PORTER O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS | NEWARK, NEW JERSEY
SURVEYED BY W.M.A.C. | CHECKED BY H.E.R. | SCALE AS SHOWN
DRAWN BY W.E.F. | IN CHARGE R.W.P. | DATE 8/1/67
PROJECT NO. I89-1(20) | SHEET 11 OF 40
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PROPERTY LINE FENCE
WITH STEEL POSTS
ITEM 583-II MOD.

STA.	STA.	POS.
NORTHBOUND		
2529+14	Ramp "A" 3+00	RT.
Ramp "B" 7+00	2543+67	RT.
SOUTHBOUND		
2539+72	2546+84	LT.

S.B. 2539+72
180' LT.

DHV = 1987

RAMP "D" CURVE (A)
Δ = 141° 00' 00"
D = 24° 54' 40"
R = 230.00'
T = 649.50'
L = 566.01'
E = 459.02'
Bank = 1" Per Ft

NB 2529+00 – 2530+00 Lt.
New 18" x 100' ACCGMP, 16 Ga.

SB 2532.00
New 18" x 64' RCP, Class III

NB 2530+00
New 18" x 82' ACCGMP, 16 Ga.

NB 2530+00 – 2535+00 Lt.
New 24" x 500' ACCGMP 16 Ga.

NB 2535+00
New 18" x 72' ACCGMP, 16 Ga.

NB 2535+00 Lt. – S. Barre Access Rd. 52+00 Rt.
New 24" x 140' RCP, Class III

S. Barre Access Rd. 52+00 Lt.
New 24" x 116' ACCGMP, 14 Ga.

S. Barre Access Rd. 52+00 Lt.
New 24" x 80' RCP, Class III

SB 2538+80 Lt.
New 12" x 48' Pipe, CGMP, 16 Ga. or CMCP, 16 Ga.
(Optional)

S. Barre Access Rd. 52+00 Lt. – SB 2539+00 Rt.
Construct Special Ditch, Item 106.

SB 2539+00
New 24" x 116' ACCGMP, 16 Ga.

SB 2541+00 Lt.
New 12" x 72' Pipe, CGMP, 16 Ga. or CMCP, 16 Ga. (Optional)

SB 2543+00 Lt.
New 12" x 48' Pipe, CGMP, 16 Ga. or CMCP, 16 Ga. (Optional)

SB 2545+00 Lt.
New 12" x 48' Pipe, CGMP, 16 Ga. or CMCP, 16 Ga. (Optional)

SB CURVE DATA
Δ = 25° 27' 00"
D = 1° 00' 00"
R = 5729.58'
T = 1293.84'
L = 2545.00'
E = 144.27
Bank = 5/16" Per Ft.

705'

SB POC STA 2530+5000
SB POC STA 2531+0000
RAMP "D" PC STA 34+71.43 24' LT
*PC DECELERATION LANE
SB POC STA 2534+5000
SB POST STA 2534+53.16
SB POC STA 2537+45.9 • S BARRE ACC RD POT STA 50+93.04
SB POC STA 2538+0000
SB 2538+62.38 END BRIDGE RESUME ROADWAY
SB 2536+86.80 STOP ROADWAY BEGIN BRIDGE
SB POC STA 2541+5000
SB PI STA 2540+66.61 • 2540+43.93
SURV. POST STA 7+44.25
REV. RAMP "B" PI STA 7+49.34 • 7+40.13
SB 2536+00
SB 2537+68.47 END BRIDGE RESUME ROADWAY
NB POC STA 2530+0000
NB POC STA 2530+65.00 • SURV RAMP "A" PC STA 0+00.00 3.23 RT.
NB POC STA 2531+09.52 • REV. RAMP "A" PC STA 0+00.00 40.90' LT.
NB POC STA 2534+0000
NB POC STA 2536+80.68 • S BARRE ACC RD POT STA 52+75.15
SURV. RAMP "A" POC STA 1+50.00
SURV. RAMP "A" POC STA 3+00.00
SURV. RAMP "A" PI STA 5+52.74 • 4+34.66
SURV. RAMP "A" PI STA 6+01.08 • 4+70.37
SURV. RAMP "B" PI STA 6+42.48 • 3+23.00
REV. RAMP "A" PI STA 5+59.7
SURV. S 89° 08' 38" E 8.00'
ACCESS ROAD
SURV. N 26° 07' 01" E
REV. N 26° 40' 30" E
SURV. N 11° 41' 19" E
REV. N 29° 52' 60" E
N 28° 41' E
N 29° 55' E
N 3° 14' E
S 89° 00' E
1490'
1490'
597'
169'
237.3'
(610')

BM # 496
US ELEV
1463.19

BM # 497
US ELEV
1424.36

BM # 498
US ELEV
1381.74

35B
40
37

MATCH LINE STA 49+84.52
MATCH LINE STA 3+00.00
MATCH LINE STA 55+00.00
MATCH LINE STA 7+00.00

NB 2535+92.89
STOP ROADWAY
BEGIN BRIDGE

NB 2537+68.47
END BRIDGE
RESUME ROADWAY

NB 2543+00
200' RT.

NB 2538+00 Lt.
New 12" x 96' Pipe CGMP, 16 Ga.
CMCP, 16 Ga.

NB 2539+00 Lt.
New 12" x 68' Pipe CGMP, 16 Ga. or
CMCP, 16 Ga. (Optional)

NB 2542+00 Lt.
New 12" x 72' Pipe CGMP, 16 Ga. or
CMCP, 16 Ga. (Optional)

NB 2544+00 Lt.
New 12" x 68' Pipe
CGMP, 16 Ga. or
CMCP, 16 Ga. (Optional)

REV. RAMP "A"
CURVE DATA
Δ = 64° 10' 52"
D = 6° 30' 00"
R = 881.47'
T = 552.74'
L = 987.40'
E = 158.97'
Bank = 3/4" Per Ft.

SURV. RAMP "A"
CURVE DATA
Δ = 64° 44' 21"
D = 6° 02' 32"
R = 948.26'
T = 601.08'
L = 1071.45'
E = 174.45'
Bank = 3/4" Per Ft.

NB CURVE "D" DATA
Δ = 31° 42' 20"
D = 0° 37' 30"
R = 9167.33'
T = 2603.33'
L = 5072.89'
E = 362.46'
Bank = 1/4" Per Ft.

REV. RAMP "B"
CURVE DATA
Δ = 34° 44' 12"
D = 12° 00' 00"
R = 477.46'
T = 149.34'
L = 289.47'
E = 22.81'
Bank = 1" Per Ft.

SURV. RAMP "B"
CURVE DATA
Δ = 96° 32' 51"
D = 10° 00' 00"
R = 572.96'
T = 642.48'
L = 965.48'
E = 287.89'
Bank = 15/16" Per Ft.

FOR PROFILES OF RAMPS "A" & "B"
SEE SHEET 36 OF 40

FOR PROFILE OF SOUTH BARRE ACCESS ROAD
SEE SHEET 38 OF 40

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS | INTERSTATE PROJECT
BROOKFIELD-WILLIAMSTOWN-BERLIN
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS | NEWARK, NEW JERSEY
DRAWN BY: ARF | IN CHARGE: LJS | DATE: 8/1/72
PROJECT NO. 189-1(20) | SHEET 12 OF 40

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS IN NEWARK, N.J.

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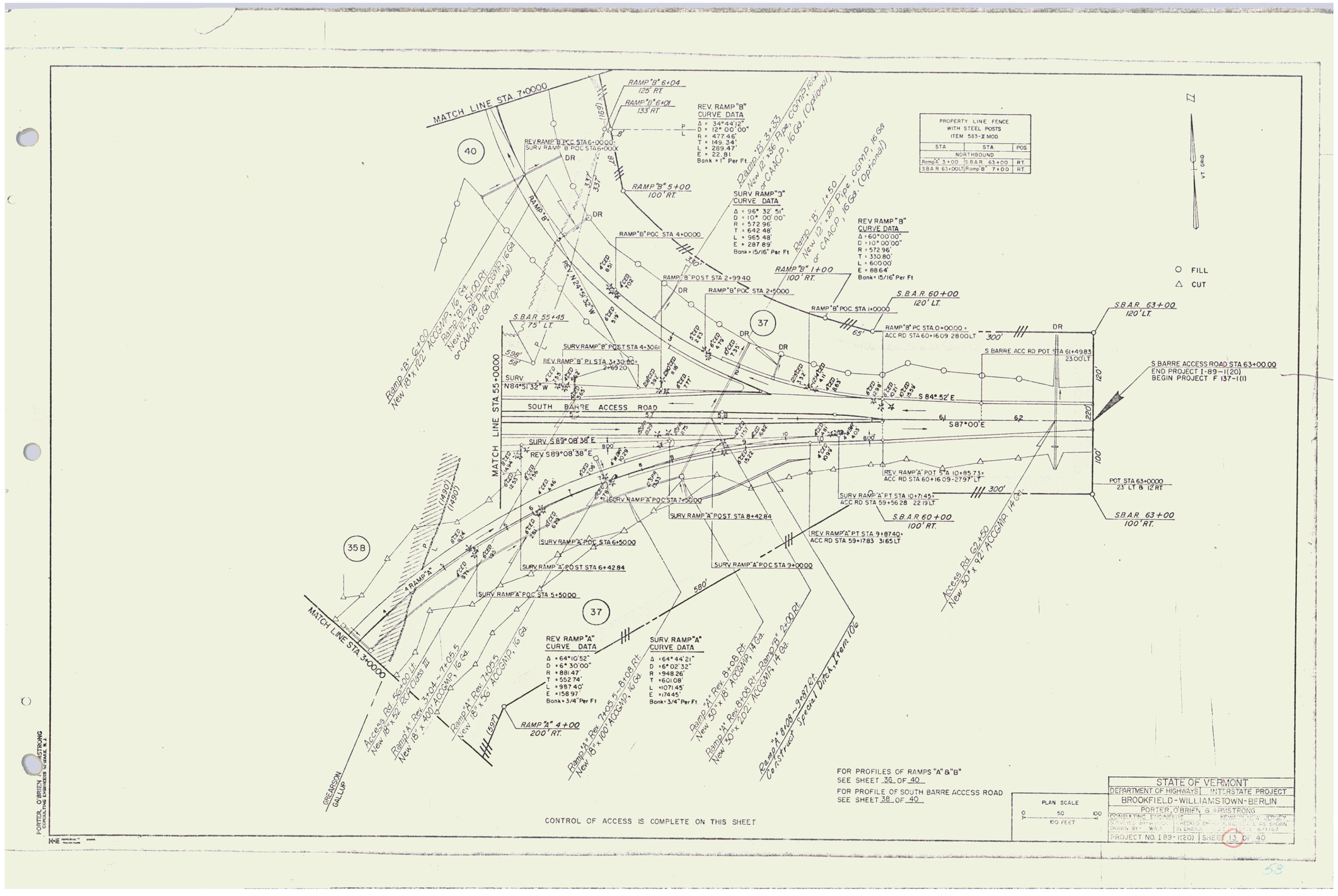
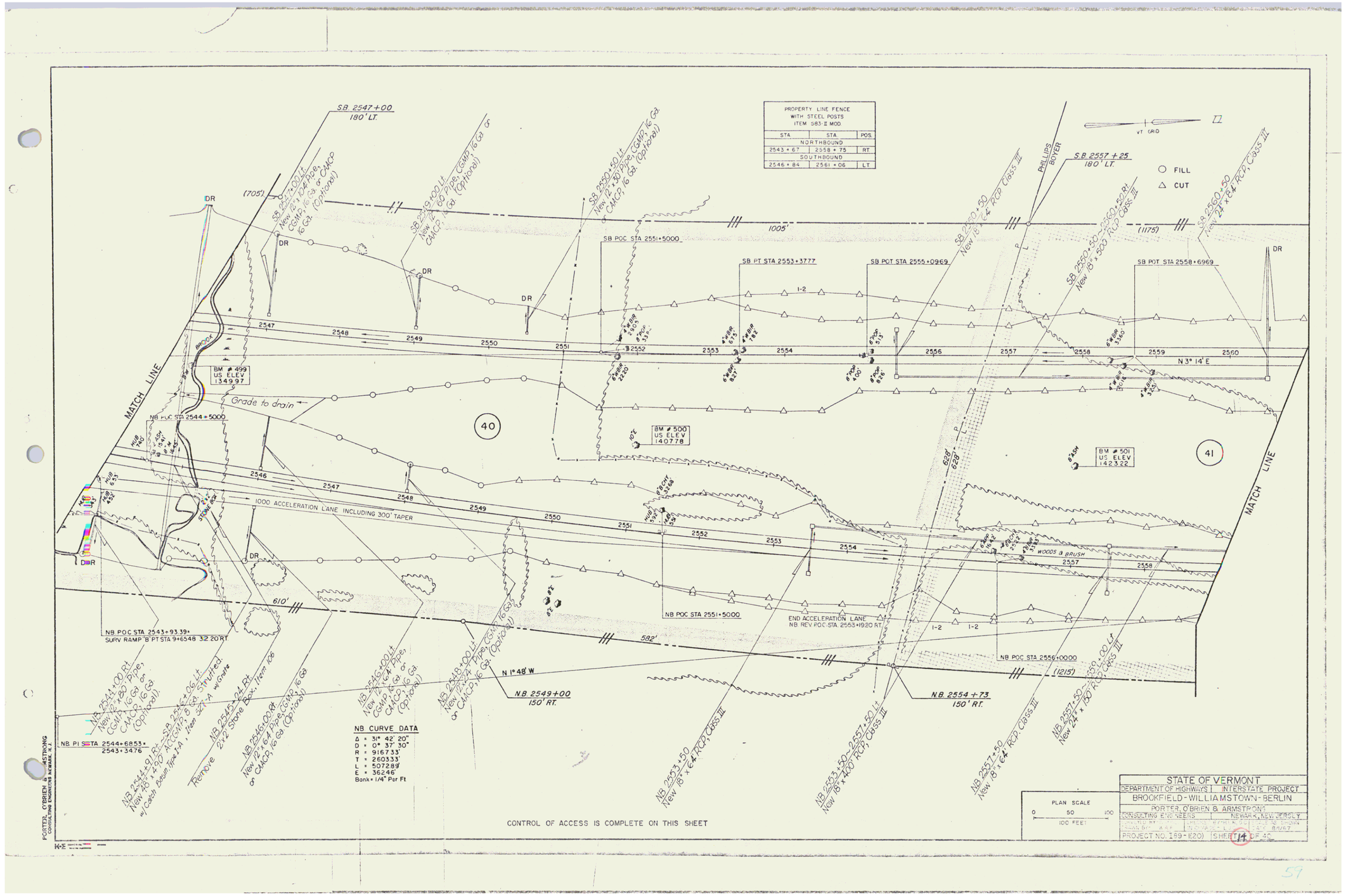

MATCH LINE STA 7+0000
MATCH LINE STA 55+0000
MATCH LINE STA 3+0000
RAMP "B" 6+04
125' RT.
RAMP "B" 6+01
133' RT.
REV. RAMP "B"
CURVE DATA
Δ = 34°44'12"
D = 12° 00' 00"
R = 477.46'
T = 149.34'
L = 289.47'
E = 22.81
Bank = 1" Per Ft.
REV. RAMP "B" PCC STA 6+0000
SURV. RAMP "B" POC STA 6+0000
RAMP "B" 5+00
100' RT.
SURV RAMP "3"
CURVE DATA
Δ = 96° 32' 51"
D = 10° 00' 00"
R = 572.96'
T = 642.48'
L = 965.48'
E = 287.89'
Bank = 15/16" Per Ft
RAMP "B" POC STA 4+0000
RAMP "B" POST STA 2+99.40
RAMP "B" POC STA 2+5000
RAMP "B" 1+00
100' RT.
REV RAMP "B"
CURVE DATA
Δ = 60°00'00"
D = 10° 00'00"
R = 572.96'
T = 330.80'
L = 600.00'
E = 88.64'
Bank = 15/16" Per Ft
RAMP "B" POC STA 1+0000
RAMP "B" PC STA 0+00.00 =
ACC RD STA 60+16.09 280 LT
S.B.A.R. 60+00
120' LT.
S.B.A.R. 63+00
120' LT.
S BARRE ACC RD POT STA 61+49.83
23.00' LT
S BARRE ACCESS ROAD STA 63+00.00
END PROJECT I-89-1(20)
BEGIN PROJECT F 137-1(1)
S.B.A.R. 55+45
75' LT.
SURV RAMP "B" POST STA 4+30.61
REV. RAMP "B" PI STA 3+30.80 =
2+69.20
SURV N84°51'32"W
REV N24°52'32"W
SOUTH BARRE ACCESS ROAD
S 84°52'E
S87°00'E
SURV S 89°08'38" E
REV S89°08'38" E
REV RAMP "A" POT STA 10+85.73 =
ACC RD STA 60+16.09-27.97' LT
POT STA 63+0000
23' LT & 12' RT
SURV RAMP "A" PT STA 10+71.45 =
ACC RD STA 59+56.28 22.19 LT
S.B.A.R. 60+00
100' RT.
S.B.A.R. 63+00
100' RT.
SURV RAMP "A" POC STA 7+0000
SURV RAMP "A" POST STA 8+42.84
REV RAMP "A" PT STA 9+87.40 =
ACC RD STA 59+17.83 31.65 LT
SURV RAMP "A" POC STA 6+5000
SURV RAMP "A" POST STA 6+42.84
SURV RAMP "A" POC STA 5+5000
SURV RAMP "A" POC STA 9+0000
RAMP "A" 4+00
200' RT.
REV RAMP "A"
CURVE DATA
Δ = 64°10'52"
D = 6° 30'00"
R = 881.47'
T = 552.74'
L = 987.40'
E = 158.97'
Bank = 3/4" Per Ft
SURV RAMP "A"
CURVE DATA
Δ = 64° 44'21"
D = 6° 02'32"
R = 948.26'
T = 601.08'
L = 1071.45'
E = 174.45'
Bank = 3/4" Per Ft
PROPERTY LINE FENCE
WITH STEEL POSTS
ITEM 583-2 MOD
NORTHBOUND
Ramp A 3+00 | S.B.A.R. 63+00 | RT.
S.B.A.R. 63+00 LT | Ramp "B" 7+00 | RT.
FILL
CUT
VT. GRID
Ramp "B" 6+00
New 18" x 122' ACCMP, 16 Ga.
Ramp "B" 5+00 Rt.
New 12" x 28' Pipe, CGMP, 16GA
or CAACP, 16GA (Optional)
Ramp "B" 3+33
New 12" x 36' Pipe, CGMP, 16 Ga
or CAACP, 16GA. (Optional)
Ramp "B" 1+50
New 12" x 30' Pipe, CGMP, 16GA
or CAACP, 16GA. (Optional)
Access Rd. 56+00
New 18" x 52' RCP, Class III
Ramp "A" Rev. 3+04 - 7+05.5
New 18" x 400' ACCGMP, 16 Ga.
Ramp "A" Rev. 7+05.5
New 18" x 36' ACCGMP, 16 Ga.
Ramp "A" Rev. 7+05.5 - 8+08 Rt.
New 18" x 100' ACCGMP, 16 Ga.
Ramp "A" Rev. 8+08 Rt.
New 30" x 18' ACCGMP, 14 Ga.
Ramp "A" Rev. 8+08 Rt. - Ramp "A" 2+00 Rt.
New 30" x 202' ACCGMP, 14 Ga.
Ramp "A" 8+08 - 9+87 Rt.
Construct Precast Ditch, 4 Trench 10G
Access Rd. 62+50
New 30" x 92' ACCGMP, 14 Ga.
40
37
35 B
37
(1490')
(1490')
GREARSON
GALLUP
FOR PROFILES OF RAMPS "A" & "B"
SEE SHEET 36 OF 40
FOR PROFILE OF SOUTH BARRE ACCESS ROAD
SEE SHEET 38 OF 40
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
PLAN SCALE
0 50 100
100 FEET
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS | INTERSTATE PROJECT
BROOKFIELD - WILLIAMSTOWN - BERLIN
PORTER, O'BRIEN, & ARMSTRONG
CONSULTING ENGINEERS
PROJECT NO. I 89-1(20) | SHEET 13 OF 40
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS WINOOSKI, N.J.


PROPERTY LINE FENCE
WITH STEEL POSTS
ITEM 583-II MOD
STA. | STA. | POS.
NORTHBOUND
2543+67 | 2558+75 | RT.
SOUTHBOUND
2546+84 | 2561+06 | LT.
SB 2547+00
180' LT.
SB 2547+00 Lt.
New 12"x 104' Pipe, CGMP, 16 Ga. or CMCP, 16 Ga. (Optional)
SB 2549+00 Lt.
New 12"x 60' Pipe, CGMP, 16 Ga. or CMCP, 16 Ga. (Optional)
SB 2550+50 Lt.
New 12"x 30' Pipe, CGMP, 16 Ga. or CMCP, 16 Ga. (Optional)
SB POC STA 2551+5000
SB PT STA 2553+3777
SB POT STA 2555+0969
SB 2550+50
New 18"x 104' RCP Class III
PHILLIPS
BOYER
SB 2550+50 - 2560+50 Rt.
New 18"x 1003' RCP Class III
SB POT STA 2558+6969
SB 2560+50
New 24"x 84' RCP, Class III
S.B. 2557+25
180' LT.
VT GRID
FILL
CUT
DR
(705)
1005'
(1175)
2547
2548
2549
2550
2551
2552
2553
2554
2556
2557
2558
2559
2560
N 3° 14' E
MATCH LINE
BM ø 499
US ELEV
1349.97
Grade to drain
NB POC STA 2544+5000
40
BM ø 500
US ELEV
1407.78
BM ø 501
US ELEV
1423.22
41
1000 ACCELERATION LANE INCLUDING 300' TAPER
WOODS & BRUSH
610'
582'
(1215')
NB POC STA 2543+93.39*
SURV RAMP 'B' PT STA 9+6548 32.20 RT
NB POC STA 2551+5000
END ACCELERATION LANE
NB. REV. POC STA. 2553+1920 RT.
NB POC STA 2556+0000
N 1°48' W
N.B. 2549+00
150' RT.
N.B. 2554+73
150' RT.
NB PI STA 2544+6853*
2543+3476
NB 2544+00 Rt.
New 12"x 80' Pipe, CGMP, 16 Ga. or CMCP, 16 Ga. (Optional)
NB 2544+91 Rt. - SB 2547+06 Lt.
New 48"x 490' ACCMP, 8 Ga. Stuffed.
w/ Catch Basin Type 1-A, Item 304-A w/ Grate
Remove
NB 2545+24 Rt.
2'x 2' Stone Box, Item 106
NB 2546+00 Rt.
New 12"x 64' Pipe, CGMP, 16 Ga. or CMCP, 16 Ga. (Optional)
NB 2546+00 Lt.
New 12"x 64' Pipe, CGMP, 16 Ga. or CMCP, 16 Ga. (Optional)
NB 2548+00 Lt.
New 12"x 52' Pipe, CGMP, 16 Ga. or CMCP, 16 Ga. (Optional)
NB 2553+50
New 18"x 64' RCP, Class III
NB 2553+50 - 2557+50 Lt.
New 18"x 400' RCP, Class III
NB 2557+50
New 18"x 64' RCP, Class III
NB 2557+50 - 2560+00 Lt.
New 24"x 130' RCP, Class III
NB CURVE DATA
Δ = 31° 42' 20"
D = 0° 37' 30"
R = 9167.33'
T = 2603.33'
L = 5072.89'
E = 362.46'
Bank = 1/4" Per Ft
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
PLAN SCALE
0 50 100
100 FEET
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS | INTERSTATE PROJECT
BROOKFIELD - WILLIAMSTOWN - BERLIN
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS | NEWARK, NEW JERSEY
DRAWN BY A.A.F. | CHECKED BY R.M.K. | DATE 8/1/67
PROJECT NO. 189-I(20) | SHEET 14 OF 42
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA	STA	POS
NORTHBOUND		
2558 + 75	2575 + 28	RT
SOUTHBOUND		
2561 + 06	2574 + 35	LT

S.B. 2569+00 180' LT.

SB 2569+00 Remove 15" RCP, Item 106

SB 2569+80 RT–2571+05 LT New 48"x36" ACCSP 3.60 sq.in. Shielded

S.B. 2570+08 218' LT.

S.B. 2571+00 250' LT.

VT. GRID

FILL

CUT

CBM #17-A US ELEV. 126872

SB POT STA 2567+4528

SB POT STA 2570+0366

SB POT STA 2570+2706

SB POT STA 2562+9195

SB POT STA 2573+9157

SB 2574+89 31' LT.

SB 2574+00 Remove 15" CMP. Item 106

SB 2573+125–2573+425 Rt. Construct Special Ditch Item 106

BM #504 US ELEV 130919

BM #503 US ELEV 129786

BM #502 US ELEV 136599

CHENETTE HOOKER

MATCH LINE

MATCH LINE

Grade to drain

GRAVEL ROAD

TREE DRIVE

BOYER

HOOKER

NB POT STA 2574+0000

NB POT STA 2571+5863

RELOC T-57 POST STA 14+8309

RELOC T-57 PI STA 13+1493 = 12+4172

NB POT STA 2569+3809

RELOC T-57 PT. STA 15+56.25

RELOC T-57 PC STA 10+0000

NB POC STA 2560+0000

NB POC STA 2565+0000

N.B. 2572 +00 175' RT.

N.B. 2571+30 170' RT.

N.B. 2568 +68 150' RT.

NB 2559+00–2561+00 Lt. New 24" x 98" RCP, Class III

NB 2561+00 Lt.–2561+50 Rt. New 24" x 100' RCP, Class III

NB 2562+00 Lt. New 12" x 70' Pipe, CGMP, 16 Ga. or CMCP, 16 Ga (Optional)

NB 2567+44 Rt.–2569+06 Lt. New 48"x36" ACCSP 3.60 sq.in. Shielded Item 104.1A Item 107.4E Date

NB 2568+50 Lt. New 12" x 100' Pipe, CGMP, 16 Ga. or CMCP, 16 Ga (Optional)

NB 2570+00 Lt. New 12" x 92' Pipe, CGMP, 16 Ga. or CMCP, 16 Ga (Optional)

NB 2566+50–2566+80 Rt. Construct Special Ditch, Item 106 Remove 15" CMP Item 106

RELOC T-57 CURVE DATA

Δ = 66° 45' 00"
D = 12°00'00"
R = 477.46'
T = 314.53'
L = 556.25'
E = 94.29'
Bank = 1/2" Per Ft.

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET EXCEPT FOR RELOCATED T-57
STATION 9+55 TO STATION 12+87 (LT.)
STATION 9+74 TO STATION 16+23 (RT.)

FOR PLAN OF RELOC T-57 SEE SHEETS 17 & 18 OF 40
FOR PROFILE OF RELOC T-57 SEE SHEET 40 OF 40

PLAN SCALE 0 50 100 FEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS | INTERSTATE PROJECT
BROOKFIELD - WILLIAMSTOWN - BERLIN
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS — NEWARK, NEW JERSEY
SURVEYED BY W.M.M.G. | CHECKED BY R.E.R. | SCALE AS SHOWN
DRAWN BY: W.R.F. | IN CHARGE - L.J.C. | DATE: 8/1/67
PROJECT NO. I 89-1(20) | SHEET 16 OF 40

PORTER, O'BRIEN & ARMSTRONG CONSULTING ENGINEERS NEWARK, N.J.

60

PROPERTY LINE FENCE
WITH STEEL POSTS
ITEM 583-II MOD.

STA	STA	POS
NORTHBOUND		
2575+26	2589+54	RT.
SOUTHBOUND		
2574+35	2591+34	LT.

VT. GRID

FILL
CUT

SB CURVE DATA
Δ = 6° 57' 20"
D = 0° 30' 00"
R = 1145.916'
T = 69.641'
L = 139.11'
E = 2.11'
Bank = 1/4" Per Ft.

NB CURVE DATA
Δ = 1° 19' 00"
D = 0° 07' 30"
R = 458.3662'
T = 52.683'
L = 105.333'
E = 2.87'
Bank = 1/4" Per Ft.

SURV. RELOC T-57 CURVE DATA
Δ = 23°56'40"
D = 6° 00'00"
R = 954.93'
T = 202.49'
L = 399.07'
E = 20.93'
Bank = 3/4" Per Ft.

REV RELOC T-57 CURVE DATA
Δ = 23° 56' 40"
D = 11° 30' 00"
R = 498.22'
T = 105.65'
L = 208.21'
E = 11.08'
Bank = 1/2" Per Ft.

S.B. 2576+00
160' LT.

S.B. 2584+98
160' LT.

S.B. 2574+89
31' LT.

SB PC STA 2578+8441

SB POC STA 2582+0000

SB POST STA 2583+554

SB POST STA 2585+654

SB POC STA 2584+0000

SB PI STA 2585+8082 = 2585+7911

SB POC STA 2589+5000

NB 2580+73
60' LT.

NB 2582+85
36' RT.

NB PC STA 2584+4034

NB POC STA 2588+5000

N.B. 2586+90
185' RT.

NB PI STA 2589+6703 = 2589+6698

RELOC T-57 20+73
33' LT.

RELOC T-57 25+03
33' LT.

RELOC T-57 20+44
33' RT.

RELOC T-57 PO T STA 20+88.89

RELOC T-57 27+45
33' RT.

RELOC T-57 27+75
33' RT.

SURV RELOC T-57 PC STA 23+7563

REV RELOC T-57 PC STA 24+72.47

SURV RELOC T-57 PI STA 25+78.12 = SURV 25+72.21 REV 25+75.03

SURV RELOC T-57 PT STA 27+70

REV RELOC T-57 PT STA 27+70

BM #505
US ELEV
1358.99

BM #506
US ELEV
1336.72

N 3° 14' E

N 1° 48' W

N 3° 44' W

N 22° 00' 40" E

S 84° 58' 40" E

1052'

817'

801'

889'

(1271')

(1261')

(1115')

(1216')

687'

432'

432'

382'

377'

377'

293'

293'

350'

150'

NB 2576+50 New 18"x64' RCP, Class III

NB 2576+50-2579+50 Rt. New 18" x 300' RCP, Class III

NB 2579+50 New 18"x64' RCP, Class III

P - HOOKER L - DOE & DOUGLAS

NB 2579+50-2583+30 Rt. New 18" x 380' RCP, Class III

NB 2583+30 New 24"x64' RCP, Class III

NB 2583+171 Rt. Remove 18" CGMP. Item 106

NB 2583+00 - SB 2584+00 Rt. New 24"x76' ACCGMP, 14 Ga.

SB 2583+00 New 18"x76' RCP, Class III

SB 2580+35 Rt. Remove Rt. ACCGMP. Item 106

SB 2584+00 New 24"x60' RCP, Class III

NB 2581+30 Rt. - SB 2583+00 Rt. New 24"x78" ACCGMP, 14 Ga.

SB 2588+00 New 30"x38" RCP, Class III

NB 2587+30 Rt. New 24"x38" ACCGMP, 16 Ga.

42A
42B
42C
42D
43
44A
44B
50D
52

GRAVEL ROAD

TOWN ROAD

MATCH LINE

MATCH LINE

HOOKER

CHENETTE

1-2 STY FR DWG

GARAGE

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
EXCEPT FOR RELOCATED T-57
STATION 16+23 TO 27+75 (RT)

FOR PLAN OF RELOC. T-57
SEE SHEETS 17 & 18 OF 40

FOR PROFILE OF
RELOC. T-57 SEE SHEET 40 OF 40

PLAN SCALE
0 50 100
100 FEET

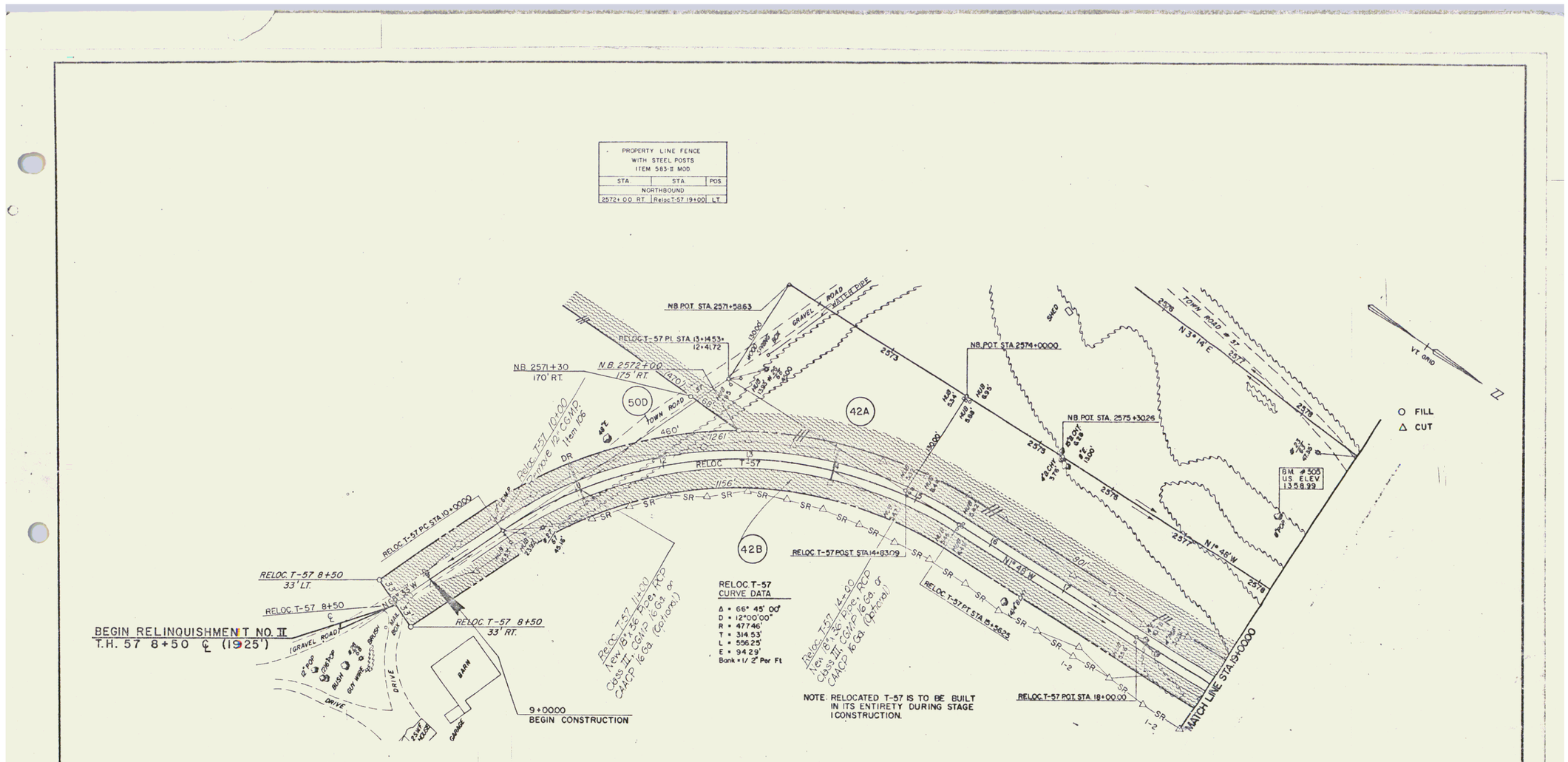
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS | INTERSTATE PROJECT
BROOKFIELD-WILLIAMSTOWN-BERLIN
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS — NEWARK, NEW JERSEY
DRAWN BY WBK | IN CHARGE L.J.G. | DATE 5/67
PROJECT NO 189-I(20) | SHEET 16 OF 40

PORTER O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

K+E

61

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD		
STA	STA	POS
NORTHBOUND		
2572+00 RT	Reloc T-57 19+00	LT



CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
EXCEPT FOR RELOCATED T-57
STATION 8 + 50 TO 12 + 87 (LT.)
STATION 8 + 50 TO 19 + 00 (RT.)

FOR PROFILE OF RELOCATED T-57
SEE SHEET 40 OF 40

PLAN SCALE
0 50 100
100 FEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS | INTERSTATE PROJECT
BROOKFIELD - WILLIAMSTOWN - BERLIN
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, NEW JERSEY
SURVEYED BY: W.M.ING | CHECKED BY: H.E.R. | QUANTITIES AS STUDY
DRAWN BY: W.R.F. | IN CHARGE: L.J.C. | DATE: 8/1/67
PROJECT NO. 160-1(20) | SHEET 17 OF 40

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N. J.

62

* DENOTES STAGE 2 ITEMS

DRILLING AND BLASTING OF SOLID ROCK SUBGRADE, ITEM 115
NB 2607+25 — 2608+25

CEDAR LOG RAIL ITEM 546
NB 2611+00 — 2614+50 RA Rt.
SB 2616+00 — 2619+65 RA Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD		
STA	STA	POS
NORTHBOUND		
2605+00	2620+00	RT.
SOUTHBOUND		
2605+00	2620+00	LT

MATCH LINE SEE SHEET NO 21

CUT
FILL

SB 2606+00 160' LT

SB 2610+00 230' LT

SB REST AREA EXIT RAMP CURVE
Δ 24°-48'
R 1909.86
T 419.60

SB POT STA 2606+65.62

SB POT STA 2611+25.44

NOTE Area between roadway shoulder and rest area shoulder to be used for waste material disposal and to be graded as directed by the engineer.

MATCH LINE SEE SHEET No. 21

N 3°44'W

N 3°07'W

BM # 512
U.S. ELEV
1228.7

BM # 511
U.S. ELEV
1251.5

BM # 50
U.S. ELEV
1253.10

45A

PBM # 8-22
BRONZE DISC
IN CONC. MON.
U.S. ELEV
1253.07

NB REST AREA
ENTRANCE RAMP CURVE
Δ 15° 12'
R 2286.92
T 305.14

NB REST AREA
EXIT RAMP CURVE
Δ 14° 02'
R 2660.45
T 329.

MATCH LINE SEE SHEET No. 21

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

PORTER O'BRIEN & ARCHIBALD
CONSULTING ENGINEERS NEWARK, OHIO

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(20)
SECTION No. II
SHEET 20 OF 40

PLAN SCALE
0 50 100
FEET

65

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS
NORTHBOUND		
Reloc T-57 19+00 LT	2586+90	RT

CHENETTE HOOKER

SB PC STA 2578+8441

SB POC STA 2582+0000

SB POST STA 2583+2554

SB POC STA 2584+0000

SB POST STA 2585+1854

N 3° 14' E

N 1° 48' W

BM ⊕ 5-6
U.S. ELEV.
1336.72

NB PC STA 2584+4034

SURV RELOC T-57
PI STA 25+78.12+
SURV 25+72.21
REV 25+75.03

RELOC T-57 25+03
33' LT.

NB 2582+85
36' RT.

NB 2586+90
185' RT.

RELOC T-57 20+73
33' LT.

RELOC T-57 PC STA 20+88.89

RELOC T-57 20+44
33' RT.

MATCH LINE STA. 19+00.00

SURV RELOC T-57 PC STA 23+76.63

REV RELOC T-57 PC STA 24+72.87

REV RELOC T-57 PT STA 26+80.68

SURV RELOC T-57 PT STA 27+74.70

RELOC T-57 27+45
33' RT.

RELOC T-57 27+75
33' LT.

RELOC T-57 27+75 ℄

RELOC T-57 27+75
33' RT.

27+50.00
END CONSTRUCTION

N 22° 08' 40" E

HOOKER

DOUGLAS

END RELINQUISHMENT NO. II
T.H. 57 27+75 ℄

SURV RELOC T-57 CURVE DATA
Δ = 23° 55' 40"
D = 6° 00' 00"
R = 954.93'
T = 202.49'
L = 399.07'
E = 20.93'
Bank = 3/4" Per Ft

REV RELOC T-57 CURVE DATA
Δ = 23° 56' 40"
D = 11° 30' 00"
R = 498.22'
T = 105.65'
L = 208.21'
E = 11.08'
Bank = 1/2" Per Ft

Reloc. T-57 23+75 - 27+00 Rt. Construct Special Ditch, Item 106.

Reloc. T-57 26+80 Remove 15" CGMP Item 106

Reloc. T-57 27+10 Rt. - 27+20 Lt. Construct Special Ditch, Item 106

Reloc. T-57 27+00 Rt. - 27+20 Lt. New 24" 48' Pipe, RCP Class III, CGMP 16 Ga, or CMP 16 Ga (Optional)

VT GRID

○ FILL
△ CUT

FOR PROFILE OF RELOCATED T-57
SEE SHEET 40 OF 40

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
EXCEPT FOR RELOCATED T-57
STATION 19+00 TO 27+50 (RT.)

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

PLAN SCALE
0 50 100
100 FEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS | INTERSTATE PROJECT
BROOKFIELD - WILLIAMSTOWN - BERLIN
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, NEW JERSEY
SURVEYED BY W.A.P.N. | CHECKED BY H.E.G. | SCALE AS SHOWN
DRAWN BY W.E.F. | CHECKED BY J.C.M. | DATE 8/11/67
PROJECT NO. I 89-1(20) | SH. ET. 18 OF 40

63

* DENOTES STAGE 2 ITEMS

Rip Rap (Light Type),
Item 613-B
NB 2591+27 ~ 2591+37 Rt.

Three Cable Guard Rail
w/I Steel Posts,
Item 638
NB 2590+00 ~ 2591+98 Rt
SB 2591+00 ~ 2593+00 Lt

Jute Matting
Item 623
NB 2590+25 ~ 2591+75 Lt

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA	STA	POS.
NORTHBOUND		
2590+00	2605+00	RT.
SOUTHBOUND		
2591+00	2605+00	LT.

VT. GRID

FILL
CUT

SB 2597+80
160' LT.

HORNER DAVIS & SANGUINETTI

SB 2591+52 RT. ~ 2591+77 LT.
New 42"x68" CCCMP (0.06 w/2' Coupling Bands At All Joints
End 37° Skew Downstream Guide

SB 2591+77 LT. ~ 2592+22 RT.
New 6'x4' CONCRETE BOX CULVERT
Item 604.63 (MOD)

SB PT STA 2592+7552

SB 2593+00 ~ 2595+48 RT
NEW 6'X 348' UNDERDRAIN TYPE I (MOD)
w/Flush basin @ 2594+00 & 2595+00

SB PT STA 2596+83.88

SB 2596+64
New 18"x90' ACCMP. 16 Ga

SB 2596+66 ~ 2600+50 RT.
NEW 6'X 384' UNDERDRAIN TYPE I (MOD)
w/Flush basin @ 2598+58 & 2600+50

SB 2600+50 RT. ~ 2600+60 LT.
NEW 6"X 64' PIPE TYPE II (MOD)

SB 2600.63
New 18"x92' CCP Class III

SB 2600+66 ~ 2604+50 RT.
NEW 6"x 384' UNDERDRAIN TYPE I (MOD)
w/Flushing Basin @ 2602+66 & 2604+50

SB PUT STA 2602+8242

SB 2604+50RT ~ 2604+60 LT.
NEW 6"X 64' PIPE TYPE II (MOD)

SB 2604.63
New 18"x 102' CCCMP. 16 Ga

SB 2604+65 ~ 2605+00
NEW 6'X 34' UNDERDRAIN TYPE I (MOD)
w/Flushing Basin @ 2604+65

MATCH LINE SEE SHEET No 16

MATCH LINE SEE SHEET No 20

1271'

2100' Acceleration Lane

N 3°44' W

N 3°07' W

600' Deceleration Lane (Including 300' Taper)

42D

45A

BM # 507
US ELEV
1290.71

BM # 508
US ELEV
1283.73

BM # 509
US ELEV
1265.04

BEGIN DECELERATION LANE

NB PT STA 2594+93.67

NB POC STA 2592+0000

NB PT STA 2601+5000

NB 2595+71
10' RT.

NB 2599+03
170' RT.

NB 2600+00
170' RT.

NB 2604+35
390' RT.

1216'

487'

NB 2591+52 RT. ~ 2591+82 LT.
New 42"x68" ACCMP. 10 Ga
w/Cotch Basin Type 1-A, Item 604.71
w/Grate

NB 2592+00 ~ 2595+74
NEW 6"X 374' UNDERDRAIN TYPE I (MOD)
w/Flush basin @ 2593+74, POC @ 2592+00

NB 2595+74 RT. ~ 2596+86 LT.
NEW 6"X 74' PIPE TYPE II (MOD)

NB 2596+00 RT. ~ 2596+63 RT.
New 18"x 68' LFP ACCMP. 16 Ga
w/ 2-24" Bends @ 0°/Mitre

NB 2596+10 ~ 2599+74 RT.
NEW 6"X 364' UNDERDRAIN TYPE I (MOD)
w/Flushing basin @ 2598+74 & 2599+74

NB 2599+74 RT. ~ 2599+90 LT.
NEW 6"X 68' PIPE TYPE II (MOD)

NB 2600+00 RT. ~ 2600+63 RT.
New 18"x 68' LFP ACCMP. 16 Ga
w/ 2-24" Bends @ 0°/Mitre

NB 2600+10 ~ 2603+74 RT.
NEW 6"X 364' UNDERDRAIN TYPE I (MOD)
w/Flush basin @ 2602+10 & 2603+74

NB 2603+74RT ~ 2603+90 LT.
NEW 6"X 82' PIPE TYPE II (MOD)

NB 2604+00 RT. ~ SB 2604+63 RT.
New 18"x 152' ACCOMP. 16 Ga

P.C. RAMP 2604+00.00
END DECELERATION LANE

NB 2604+10 ~ 2605+00 RT.
NEW 6"X 70' UNDERDRAIN TYPE I (MOD)
w/Flush basin @ 2604+10

TOWN ROAD # 57

#19

STONE BOX

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS BERWICK, N.J.

PLAN SCALE
0 50 100
100 FEET

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(20)
SECTION No II
SHEET 19 OF 40

64

SB 2613+50
500' LT.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD		
STA.	STA.	POS.
NORTHBOUND		
2610+45	2623+21	RT.
SOUTHBOUND		
2610+81	2627+51	LT.

430'

45A

MATCH LINE SEE SHEET No. 20

358'

VT. GRID

MATCH LINE SEE SHEET No. 22

SB. 2627+24
327' LT.

SB. 2627+00
350' LT.

(866' LT. 726')

46

MATCH LINE SEE SHEET No. 20

530'

45A

MATCH LINE SEE SHEET No. 22

375'

NB. 2619+55
505' RT.

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

K+E

PLAN SCALE
0 50 100
100 FEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS | INTERSTATE PROJECT
BROOKFIELD-WILLIAMSTOWN-BERLIN
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS | NEWARK, NEW JERSEY
SURVEYED BY W.C. | SCALE 1"=100' | DATE 8/1/61
DRAWN BY W.H. | CHECKED BY J.C. | DATE 8/1/61
PROJECT NO. I-89-1(20) | SHEET 21 OF 40

66

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type), Item 512
SB 2634+20 ~ 2634+75 Lt.

Rip Rap (Light Type), Item 513-B
NB 2623+82 ~ 2623+92 Rt.

* Three Cable Guard Rail w/Lt. Steel Posts Item 536
NB 2611+52 ~ 2626+00 Rt.
NB 2612+02 ~ 2626+98 Lt.
NB 2670+96 ~ 2634+48 Lt.
SB 2623+42 ~ 2628+54 Rt.
SB 2632+52 ~ 2635+56 Rt.
SB 2624+46 ~ 2630+06 Lt.
SB 2632+52 ~ 2636+00 Lt.

* Jute Matting Item 623
NB 2624+90 ~ 2626+25 Lt.

Cedar Log Rail Item 546
SB 2619+65 – 2620+00 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA	STA	POS.
NORTHBOUND		
2620+00	2635+00	RT.
SOUTHBOUND		
2620+00	2636+00	LT.

FILL
CUT

MATCH LINE SEE SHEET No. 21

SB REST AREA ENTRANCE RAMP CURVE
Δ 32° 42'
R 1145.92
T 325.78

SB REST AREA "A" STATE SHELTER
NEW 18'-9"x32' ACCOMP. 16 Ga

SB 2620+63
New 18'-9"x24' ACCOMP. 16 Ga

SB 2620+00 – 2620+50 Rt.
New 6" x 50' Underdrain Type I

SB 2620+50 Lt. – 2620+60 Lt.
New 6" x 50' Underdrain @ Sta. 2620+50 Rt. Type I
Pipe Type II (MOD.)

SB 2621+00 – 2621+50 Rt.
ITEM 156

SB 2623+53 Rt. – 2627+84 Lt.
New 42" x 248' ACCOMP. 8 Ga

SB 2628+50
195' Lt.

182'

1317'

SB 2629+00 – 2632+50 Rt.
New 6" x 352' Underdrain Type I (MOD)
#1 Flush Basin @ 2629+00

SB 2633+69 Rt. – 2634+20 Lt.
New 30" x 166' ACCOMP. 12 Ga

SB POT STA 2621+063
SB POT STA 2624+3081
SB POT STA 2626+7501
SB POT STA 2628+2538
SB POT STA 2629+8395
SB POT STA 2632+3734
SB POT STA 2634+9450

RAMP PC 2627+00.00
End Deceleration Lane

SB 2631+50 Lt.
Begin Deceleration Lane

450' Deceleration Lane (includes 300' taper)

N 3° 44' W

159

Grade to Drain

BM # 514
U.S. ELEV
1143.77

BM # 515
U.S. ELEV
1152.95

BM # 516
U.S. ELEV
1133.09

46

MATCH LINE SEE SHEET No.

N 3° 07' W

600' Acceleration Lane (includes 300' taper)

BM # 513
U.S. ELEV
1207.51

NB POT STA 2621+5000
NB POT STA 2624+5856
NB POT STA 2626+6808
NB POT STA 2628+50 Rt.
End Acceleration Lane
NB POT STA 2629+3933
NB POT STA 2630+3378
NB POT STA 2632+1233
NB POT STA 2634+5000

RAMP PT 2621+000
Begin Acceleration Lane

210'

(92')

1645'

MATCH LINE SEE SHEET No. 21

NB 2623+33
150' Rt.

NB 2621+50
185' Rt.

PBM # B-623
U.S. ELEV
1156.71

NB 2620+00 – 2621+50 Rt.
New 6" x 150' UNDERDRAIN TYPE I (MOD)

NB 2621+50 Lt. – 2622+00 Rt.
NEW 6" x 88' PIPE TYPE II (MOD)

NB 2622+00 – 2623+88 Rt.
New 6" x 188' UNDERDRAIN TYPE I (MOD)

NB 2623+87 Rt. – 2624+50 Lt.
New 42" x 204' ACCOMP. 8 Ga
W/Catch Basin Type 1-A
Item 52-A W/Grate

NB 2626+50 – 2630+50 Rt.
NEW 6" x 400' UNDERDRAIN TYPE I (MOD)

NB 2627+00 – 2630+86 Lt.
NEW 6" x 386' UNDERDRAIN TYPE I (MOD)

NB 2630+50 Rt. – 2631+90 Lt.
NEW 6" x 64' PIPE TYPE II (MOD)

NB 2633+00
New 3'-0"x108' ACCOMP. 14 Ga
End Of Drainage Ditch
2632+00 @ 6' Lt. Offset

NB 2633+08
Construct New Spring Box
For Details see Sheet 89 of 433

NB 2633+08 Lt.
New 8" x 14' ACCOMP. 16 Ga

NB 2634+00 – 2635+00 Rt.
NEW 6" x 100' UNDERDRAIN TYPE I (MOD)

NB 2634+30 – 2635+00 Lt.
NEW 6" x 50' UNDERDRAIN TYPE I (MOD)

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

PLAN SCALE
0 50 100
100 FEET

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(20)
SECTION No. II
SHEET 22 OF 40

PORTER, O'BRIEN & STRONG
CONSULTING ENGINEERS / BARRE, N.J.

67

* DENNOTES STAGE 2 ITEMS

Rip Rap(Light Type), Item 613-B
NB 2641+39~2641+49 Rt.
NB 2646+47~2646+53 Rt.
NB 2650+18~2650+24 Rt.

*Three Cable Guard Rail w/Lt. Steel Posts Item 538
NB 2639+96~2644+44 Rt.
NB 2639+38~2644+98 Lt.
SB 2639+40~2645+48 Rt.
SB 2636+00~2636+52 Lt.
SB 2639+40~2645+48 Lt.

*Jute Matting Item 623
NB 2641+25~2641+65 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA	POS.
NORTHBOUND		
2635 + 00	2651 + 00	RT.
SOUTHBOUND		
2636 + 00	2651 + 00	LT.

SB 2641+67 19.5' LT.

GAGNON DAVIS SANGUINETTI

SB 2642+08 Rt. – 2642+13 Lt. New 21" RCCCMP, 8 Gg. w/Catch Basin Type 1A Item 604-A w/Grate

(1317')

SB POT STA 2636+6122

SB 2636+50 – 2639+50 Lt. New 6"x 310' Underdrain Type I (MOD) w/Flush Basin @ 2639+00

SB 2636+40 – 2639+78 Rt. New 6"x 334' Underdrain Type I (MOD) w/Flush Basin @ 2639+30

SB POT STA 2638+1975

SB POT STA 2642+2884

SB POT STA 2644+0943

SB POT STA 2645+7980

SB POT STA 2646+4941

SB POT STA 2647+1748

1409'

SB 2645+50 – 2647+00 Rt. New 6"x 176' Underdrain Type I (MOD) w/Flush Basin @ 2645+80

SB 2645+50 – 2647+26 Lt. New 6"x 176' Underdrain Type I (MOD) w/Flush Basin @ 2645+80

SB 2647+00 Rt. – 2647+50 Lt. New 6" Pipe Type II (MOD)

SB 2647+21 Rt. – SB 2647+50 Lt. New 24"x100' ACCCMP, 16 Gg.

SB POT STA 2648+5229

SB POT STA 2650+2909

SB 2647+34 – 2651+00 Rt. New 6"x 466' Underdrain Type I (MOD) w/Flush Basin @ 2647+30

SB 2647+41 – 2651+00 Lt. New 6"x 328' Underdrain Type I (MOD) w/Flush Basin @ 2647+74

458

FILL
CUT

MATCH LINE SEE SHEET No.

MATCH LINE SEE SHEET No.

N 3°44' W

N 3°07' W

BM # 517 U.S. ELEV 1120.15

BM # 518 U.S. ELEV 1087.34

BM # 519 U.S. ELEV 1096.15

Grade to Drain

BROOK

WATER COURSE

200.27'

1225'

90°37'00"

46

NB POT STA 2638+9823

NB POT STA 2641+68.24

NB POT STA 2644+9495

NB PC STA 2645+8884

NB POC STA 2648+0000

NB POC STA 2649+5000

(1645')

1176'

NB 2635+00 – 2639+78 Rt. NEW 6"X 178' UNDERDRAIN TYPE I (MOD)

NB 2635+00 – 2639+50 RT NEW 6"X 450' UNDERDRAIN TYPE I (MOD) w/Flush Basin @ 2639+00

NB 2639+50 RT – 2640+00 LT NEW 6"X 98' PIPE TYPE II (MOD)

NB 2641+44 Rt. – 2641+46 Lt. New 42" x 196' ACCGMP, 8 Gg.

NB 2640+00 150' Rt.

NB 2645+50 – 2646+50 LT NEW 6"X 100' UNDERDRAIN TYPE I (MOD) w/Flush Basin @ 2646+00

NB 2644+50 – 2646+50 RT NEW 6"X 200' UNDERDRAIN TYPE I (MOD) w/Flush Basin @ 2644+50

NB 2646+60 New 24"x64' ACCGMP, 16 Gg.

NB 2646+50 Rt. New 24"x42' ACCGMP, 16 Gg. 2 Long Barrels @ 6" Joints

NB 2646+50 Lt. – SB 2647+21 Rt. New 24"x140' ACCGMP, 16 Gg.

NB 2646+60 – 2650+30 RT. NEW 6"X 370' UNDERDRAIN TYPE I (MOD) w/Flush Basin @ 2646+80

NB 2646+60 – 2650+64 LT NEW 6"X 404' UNDERDRAIN TYPE I (MOD) w/Flush Basin @ 2646+80 & 2650+00

NB 2650+30 RT – 2650+70 LT NEW 6"X 70' PIPE TYPE II (MOD)

NB 2650+21 Rt. – 2650+42 Rt. New 21"x70' ACCCMP, 16 Gg. 2 Long Barrels @ 6" Joints

NB 2650+42 Rt. – 2650+77 Lt. New 24"x174' ACCGMP, 16 Gg.

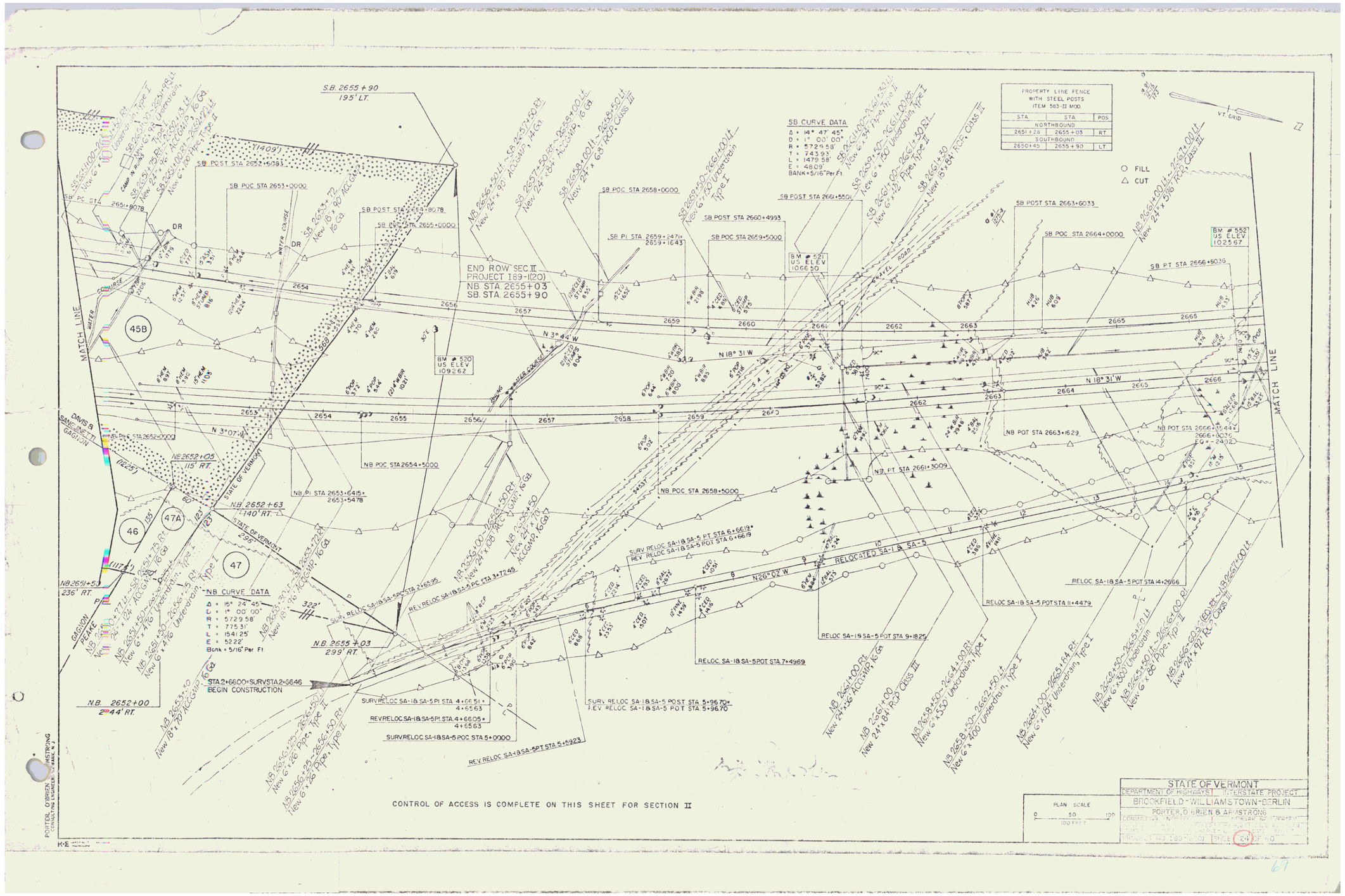
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

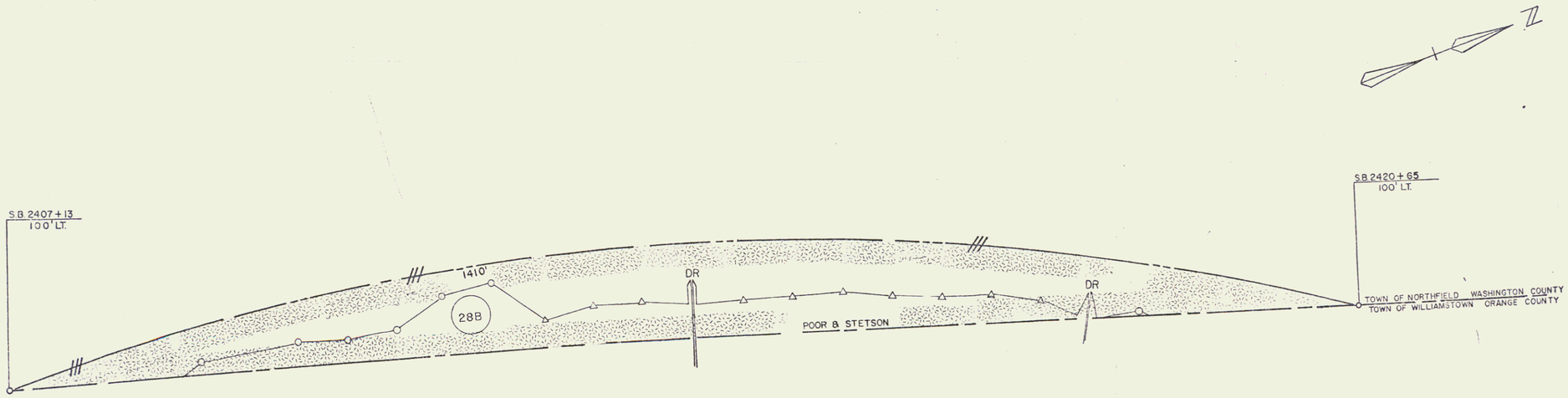
PLAN SCALE
0 50 100
100 FEET

BROOKFIELD–WILLIAMSTOWN
BERLIN
I 89-1(20)
SECTION No. II
SHEET 23 OF 90

PORTER, O'BRIEN & ARMSTRONG CONSULTING ENGINEERS MONTPELIER, VT.

68


S.B. 2655+90
195' LT.
END ROW SEC. II
PROJECT I89-1(20)
NB STA. 2655+03
SB STA. 2655+90
SB CURVE DATA
Δ = 14° 47' 45"
D = 1° 00' 00"
R = 5729.58'
T = 743.93'
L = 1479.58'
E = 48.09'
BANK = 5/16" Per Ft.
PROPERTY LINE FENCE
WITH STEEL POSTS
ITEM 583-II MOD.
STA | STA | POS
NORTHBOUND
2651+26 | 2655+03 | RT.
SOUTHBOUND
2650+45 | 2655+90 | LT.
FILL
CUT
V.T. GRID
MATCH LINE
MATCH LINE
45B
46
47A
47
DAVIS & SANFILIPPO GAGNON
STATE OF VERMONT
SB POST STA 2652+6083
SB POC STA 2653+0000
SB PC STA 2651+8078
SB POST STA 2654+8078
SB POST STA 2655+0000
SB PI STA 2659+2471
2659+1643
SB POST STA 2660+4993
SB POC STA 2659+5000
SB POST STA 2661+5501
SB POST STA 2663+6033
SB POC STA 2664+0000
SB PT STA 2666+6036
BM # 521
US ELEV
1066.50
BM # 552
US ELEV
1025.67
BM # 520
US ELEV
1092.62
NB POC STA 2654+5000
NB PI STA 2653+6415*
2653+5478
NB POC STA 2658+5000
NB PT STA 2661+3009
NB POT STA 2663+1629
NB POT STA 2666+0544
2666+0036
EQ = 2492
NB 2652+63
1140' RT.
NB 2652+05
115' RT.
NB 2651+50
236' RT.
N.B. 2652+00
2744' RT.
N.B. 2655+03
299' RT.
NB CURVE DATA
Δ = 15° 24' 45"
D = 1° 00' 00"
R = 5729.58'
T = 775.31'
L = 1541.25'
E = 52.22'
Bank = 5/16" Per Ft.
322'
STA 2+66.00 = SURV STA 2+66.46
BEGIN CONSTRUCTION
SURV RELOC SA-18 SA-5 PI STA 4+66.51*
4+65.63
REV RELOC SA-18 SA-5 PI STA 4+66.05*
4+65.63
SURV RELOC SA-18 SA-5 POC STA 5+00.00
REV RELOC SA-18 SA-5 PT STA 5+5.23
SURV RELOC SA-18 SA-5 PT STA 6+66.19*
REV RELOC SA-18 SA-5 POT STA 6+66.19
SURV RELOC SA-18 SA-5 POST STA 5+96.70*
REV RELOC SA-18 SA-5 POT STA 5+96.70
RELOCATED SA-18 SA-5
RELOC SA-18 SA-5 POT STA 7+49.69
RELOC SA-18 SA-5 POT STA 9+18.25
RELOC SA-18 SA-5 POT STA 11+44.79
RELOC SA-18 SA-5 POT STA 14+26.66
N 3° 44' W
N 3° 07' W
N 18° 31' W
N 26° 02' W
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
INTERSTATE PROJECT
BROOKFIELD - WILLIAMSTOWN - BERLIN
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS
MONTPELIER, VERMONT
PLAN SCALE
0 50 100
100 FEET
SHEET 24 OF 40
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET FOR SECTION II
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS
MONTPELIER, VT.



STATE OF VERMONT
DEPARTMENT OF HIGHWAYS INTERSTATE PROJECT
BROOKFIELD-WILLIAMSTOWN-BERLIN

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS
NEWARK, NEW JERSEY

SURVEYED BY -	CHECKED BY -	APPROX. SCALE 1"=200'
DRAWN BY -	IN CHARGE -	DATE

PROJECT NO I 89-1(20) SHEET 24A OF 40

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT

INTERSTATE PROJECT

TOWNS OF BROOKFIELD, WILLIAMSTOWN, AND BERLIN
COUNTIES OF ORANGE AND WASHINGTON
INTERSTATE ROUTE 89
WHITE RIVER JCT. — MONTPELIER

CONTRACT 1

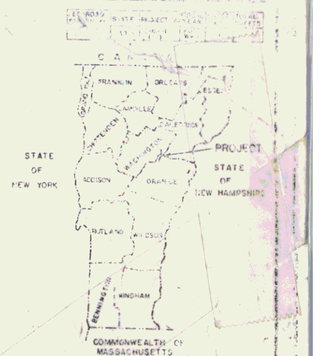
BEGINNING AT A POINT IN BROOKFIELD APPROXIMATELY 2.419 MILES SOUTHERLY OF THE BROOKFIELD-WILLIAMSTOWN TOWN LINE AND EXTENDING NORTHERLY FOR A DISTANCE OF 4.536 MILES

LENGTH OF ROADWAY 23,820.74 FEET = 4.512 MILES
LENGTH OF BRIDGE 127.02 FEET = 0.024 MILES
LENGTH OF CONTRACT 23,947.76 FEET = 4.536 MILES

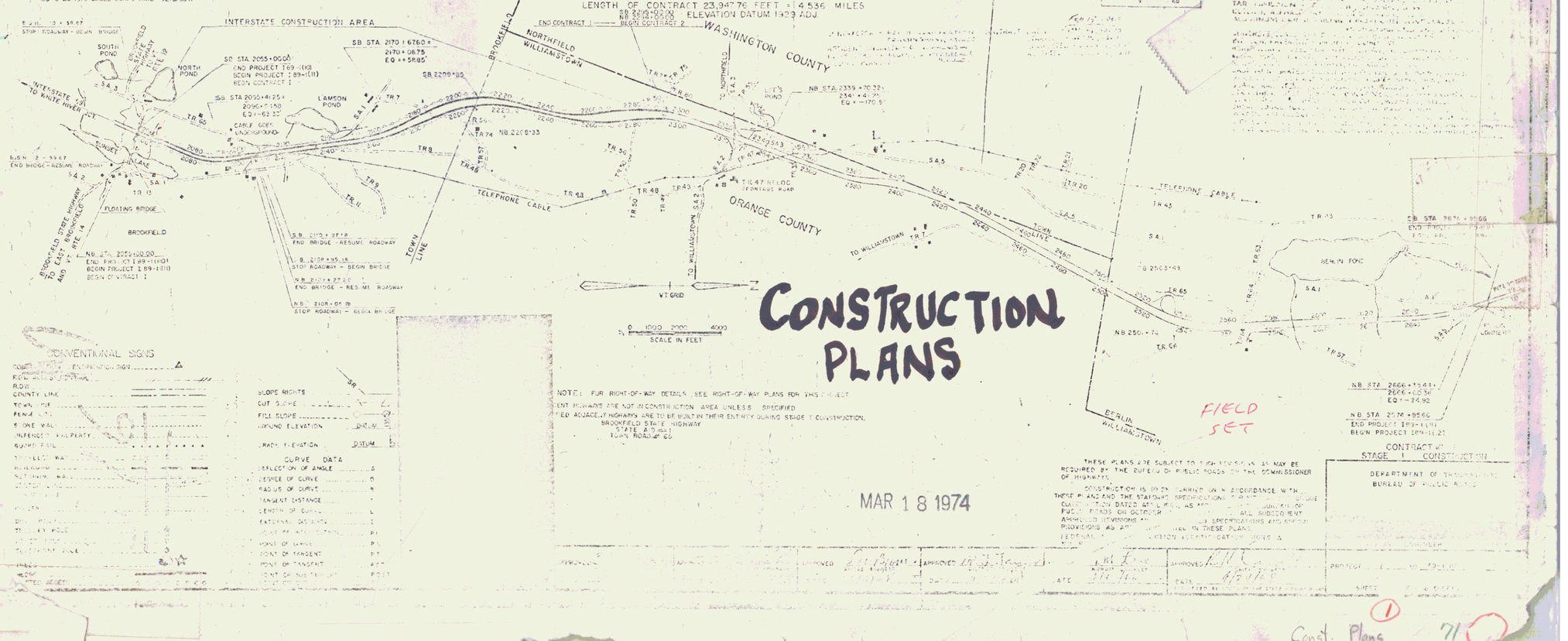
SB STA 2170+67.60 = NB STA 2170+08.75 ELEVATION DATUM 1929 ADJ.

INDEX OF SHEETS

1 TITLE SHEET
2 ALIGNMENT DATA SHEET
3-4 TYPICAL SHEETS, 76 NOTE
5 TYPICAL SHEET, BROOKFIELD STATE HIGHWAY, SAINT GEORGE ETC.
6-7 QUANTITY SHEETS
8-9 DRAINAGE SHEETS
10-24 CROSSWISE AT 100' DATA SHEETS
25-87 DETAIL SHEETS
88-89 PLAN AND PROFILE SHEETS
90 [illegible]
91 A-6(1) ROCK EXCAVATION 10/27/67 R
92 B-1 BRAKING TABLES 7/7/67 R
93 B-5 TYPICAL SLOPE GRADING 3/10/65
94 B-7 [illegible]
95 B-10 EMBANKMENT ON 3 SLOPE 3/10/65
96 B-11 USE OF UNDERCUTS WITH 3/10/65 SHATTERED ROCK SUBGRADE
97 B-17 U-TURNS 9/12/67 R
98 D-13 CATCH BASINS 3/10/65
99 D-2 HEADWALLS 1/25/67 R
100 D-3 GUTTERS 7/5/67 R
101 D-4 ELBOWS AND FLUSHING BASINS 12/4/68 R
102 A-6(2) SOLID ROCK EXCAVATION 12/20/67 R
103 D-6 DROP INLET FOR USE IN DITCHES 12/23/68
104 D-6 DROP INLETS 7/10/65
105 D-10 DROP INLET TOPS 3/10/65
106 D-11 DETAILS OF GRATES AND COVERS 3/10/65
107 D-15 PRECAST CONC. DROP INLET AND GRATES TYPE B AND C 7/10/67 R
108 D-17 VERTICAL RISER 7/1/68 R
109 E-31 CONSTRUCTION IDENTIFICATION SIGNS 8/21/67 R
110 E-32 ROAD CONSTRUCTION APPROACH SIGNS 1/6/67
111 BLANK
112 E-34 ON-PROJECT CONSTRUCTION SIGNS 5/3/67 R
113 F-1 PROPERTY LINE FENCE 11/29/67 R
114 F-2 GALVANIZED CHAIN LINK FENCE 5/7/68 R
115 G-2a TWO CABLE GUARD RAIL 12/3/68 R
116 G-2b TWO CABLE GUARD RAIL, DEAD END ANCHORAGE 3/10/65
117 BLANK
118 G-4 PLANK GUARD RAIL AND MARKER POSTS 12/30/68 R
119 J-1 BOUNDARY MARKERS 3/10/65
120 BLANK
121 CULVERT DETAILS 26"x 26" CGMPP AT SB 2191+68 CENTERLINE
122 CULVERT DETAILS 66"x 216" CGMPP AT NB 2200+38 LT. TO NB 2201+80 RT.
123 CULVERT DETAILS 72"x 318" CGMPP AT NB 2272+90 RT. TO 2274+93 LT.
124 CULVERT DETAILS 72"x 376" CGMPP AT SB 2275+92 RT. TO 2277+87 LT.
125 66", 72", & 78" CGMPP MISCELLANEOUS DETAILS AND TABULATIONS
126-1216 BRIDGE DETAILS BROOKFIELD STATE HIGHWAY OVER I-89 (BR. NO. 17)
1222-1223 SGB-01, D2, 06-67 1/24/68 (ALL)
1224 BLANK
1225 SB-R1-64 SHEET #1 — 1/31/68 R
1226 SB-R1-64 SHEET #2 — 11/8/66 R
1.6 SA-52-65 11/8/66 R
1227-1470 BRIDGE DETAILS I-89 OVER RELOCATED SA-1 (200-221)
1471 BLANK
1472 BLANK
1473 SGB-03-67 1/24/68
1501-1667 COMBINED NB & SB CROSS SECTIONS (2055+00-2090+00)
1691-1701 NORTHBOUND CROSS SECTIONS (2090+50-2094+00)
1711-1731 SOUTHBOUND CROSS SECTIONS (2090+50-2094+00)
1741-1971 COMBINED NB & SB CROSS SECTIONS (2094+50-2138+00)
1961 J-TURN CROSS SECTIONS (2139+50)
1991-2111 COMBINED NB & SB CROSS SECTIONS (2138+50-2161+00)
2121-2861 NORTHBOUND CROSS SECTIONS (2161+50-2294+00)
2871-3671 SOUTHBOUND CROSS SECTIONS (2161+50-2295+00)
3681-3741 BROOKFIELD STATE HIGHWAY CROSS SECTIONS
375 SA-1 AND T-65 (BROOKFIELD) KEY TO CROSS SECTIONS
3761-4061 SA-1 AND T-65 (BROOKFIELD) CROSS SECTIONS



TRAFFIC DATA
1965 ADT 2420
1989 ADT 5860
1989 DHV 565
D 58%
T 8%
V 40



CONVENTIONAL SIGNS

POINT OF EXPLANATION SIGN
R.O.W. MONUMENT
R.O.W.
COUNTY LINE
TOWN LINE
FENCE
STONE WALL
INTERIOR PROPERTY
GUARD RAIL
TELEPHONE WAY
BUILDING
RETAINING WALL
WATER
POLE
POLE WITH GUY
TELEPHONE POLE
TREE DECIDUOUS
TREE EVERGREEN
SPOT ELEVATION

SLOPE RIGHTS
CUT SLOPE
FILL SLOPE
GROUND ELEVATION DATUM
GRADE ELEVATION DATUM

CURVE DATA
DEFLECTION OF ANGLE Δ
DEGREE OF CURVE D
RADIUS OF CURVE R
TANGENT DISTANCE T
LENGTH OF CURVE L
EXTERNAL DISTANCE E
CHORD OF MIDDLE ORDINATE M
POINT OF CURVE PC
POINT OF TANGENT PT
POINT OF TANGENT PCC
POINT OF REVERSE CURVE POST

NOTE: FOR RIGHT-OF-WAY DETAILS SEE RIGHT-OF-WAY PLANS FOR THIS PROJECT
EXISTING HIGHWAYS ARE NOT IN CONSTRUCTION AREA UNLESS SPECIFIED
INTERSECTED ADJACENT HIGHWAYS ARE TO BE BUILT IN THEIR ENTIRETY DURING STAGE I CONSTRUCTION.
BROOKFIELD STATE HIGHWAY
STATE AID (64)
TOWN ROAD 66

CONSTRUCTION PLANS

MAR 18 1974

FIELD SET

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER OF HIGHWAYS.
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS ... DATED ... AS AMENDED BY THE BUREAU OF PUBLIC ROADS ON OCTOBER ... ALL SUBSEQUENT AMENDED REVISIONS AND ... SPECIFICATIONS AND SPECIAL PROVISIONS AS ... SHALL BE IN THESE PLANS.
FEDERAL ... LOCATION IDENTIFICATION NO. ...

CONTRACT NO. STAGE I CONSTRUCTION

DEPARTMENT OF HIGHWAYS
BUREAU OF PUBLIC ROADS

APPROVED ... APPROVED ... APPROVED ... PROJECT ... SHEET ...

Const. Plans 71

Brookfield - Williamstown - Berlin
Stations NB 2055 ~ 2294
SB 2055 ~ 2295

Brookfield - Williamstown - Brookfield I 89 Sta 4055 — 4394 58.
Contract 1

Two Cable Guard Rail
Item 541
5+65 – 10+15 Lt.
9+58 – 10+22 Lt.
12+76 – 13+05 Lt.
12+80 – 13+84 Lt.

PLANK GUARD RAIL,
ITEM 540
8 + 00 Rt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-1 MOD.		
STA.	STA.	POS.
BROOKFIELD STATE HIGHWAY		
9 + 17	10 + 12	LT.
12 + 78	14 + 00	LT.

TREATED TIMBER CURB
ITEM 556
12+75 - 13+08 Rt.
12+84 - 13+08 Lt.

BM 402-A
U.S. Elev.
1359.16

BM #402
U.S. ELEV.
1359.51

PBM # BB-1
U.S. ELEV.
1377.11

BRONZE DISC
IN CONC. MON.

O FILL
△ CUT

PASTURE
WOODS
WET
P/L
BROOKFIELD — STATE HIGHWAY — (GRAVEL ROAD)

STOP ROADWAY
BEGIN BRIDGE
STA. 10+38.87

B.S.H. P.O.T. 6+69.92

SB P.O.T. STA 2056+03.14

NB P.O.T. STA 2056+03.14

B.S.H. P.O.T. 15+00

B.S.H. P.O.T. 17+00

12" ACCMP

GRAVEL DRIVE

SB P.O.T. STA 2055+77.87*
B.S.H. P.O.T. 11+19.60

NB P.O.T. STA 2055+89.75*
B.S.H. P.O.T. 11+94.55

END BRIDGE
RESUME ROADWAY
STA. 12+59.87

S 74°41' E

80°52'46"

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

NOTE: BROOKFIELD STATE HIGHWAY
IS TO BE BUILT IN ITS ENTIRETY
DURING STAGE I CONSTRUCTION

NOTE: SEE SHEETS BR100 SERIES
FOR THE ABOVE STRUCTURE

PLAN SCALE
0 50 100
100 FEET

5+50.00
BEGIN CONSTRUCTION

15+50.00
END CONSTRUCTION

PRESENT ROAD PROFILE

STA. 10+38.87
STOP ROADWAY
BEGIN BRIDGE
P.V.C.
9+00
1400.46

-1.280%

PRESENT ROAD
PROFILE

1-2

GRANULAR
BORROW
ITEM 105

OR EXCAVATED ROCK OR
MATERIALS MEETING THE
REQUIREMENTS OF GRANULAR
BORROW.

50'

P.V.I.
12+00
1396.30
650' V.C.
M.O. 8.71'
SSD 291'

STA. 12+59.87
END BRIDGE
RESUME ROADWAY

-12.000%

P.V.T.
15+25
1357.30

NOTE: SEE SHEETS BR100 SERIES
FOR THE ABOVE STRUCTURE

1420 1410 1400 1390 1380 1370 1360 1350 1340

4 5 6 7 8 9 10 11 12 13 14 15 16 17

PROFILE SCALE
HORIZ. 50 FEET
VERT. 10 FEET

STAGE I CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BROOKFIELD STATE HIGHWAY
PROJECT I-89-1(11)
CONTRACT No. 1
SHEET 25 OF 406

FIELD SET

72

* DENOTES STAGE 2 ITEMS

* Standard Steel Beam Guard Rail w/ St. Posts (6'-3" Spacing) Item 545-A
N.B. 2054 +31 – 2056+51.64 Lt.
S.B. 2055 +18.27 – 2057+16.31 Rt.
Note: Northbound Lane Standard Steel Beam Guard Rail Which Extends 49.00' into Project I 89-(10) Shall be Constructed in its Entirety in this Contract.

* Jute Matting Item 623
2056+46 – 2060+00 Median
2061+00 – 2063+00 Median
2064+05 – 2065+50 Median
2066+50 – 2070+00 Median

PROPERTY LINE FENCE W/STEEL POSTS ITEM 583-II MOD.
N.B. 2066+98 – 2069+80 RT.
(ERECT FENCE PRIOR TO COMMENCEMENT OF OTHER WORK IN THIS AREA.)
S.B. 2065+89 – 2070+00 LT.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2056+41	2070+00	RT.
SOUTHBOUND		
2055+62	2070+00	LT.

N.B. & S.B. STA. 2055+00.00
END PROJECT I-89-1(10)
BEGIN PROJECT I-89-1(11)(29)(11)
CONTRACT No. 1

B.S.H. POT 6+6992

STOP ROADWAY BEGIN BRIDGE STA. 10+38.87

SB POT STA 2055+7787
BSH POT 11+19.60

NB POT STA 2055+89.73
BSH POT 11+9855

END BRIDGE RESUME ROADWAY STA. 12+59.87

SB POT STA 2056+03.14

NB POT STA 2056+03.14

SB POT STA 2060+16.19

NB POT STA 2064+00.00

SB POT STA 2065+98.07

NB POT STA 2669+50

PBM # BB-1 U.S. ELEV. 1377.11

BM 403-B U.S. Elev. 1376.27

BM # 402-A U.S. ELEV. 1359.54

BM # 403 U.S. ELEV. 1360.04

BM 403-A U.S. Elev. 1356.98

BM 404-B U.S. Elev. 1379.34

BM # 404 U.S. ELEV. 1366.49

BM 404-A U.S. Elev. 1361.61

BROOKFIELD – STATE HIGHWAY 9 (GRAVEL ROAD)

Approx. Road Width Rte. 9

PASTURE

WOODS

WET

BROOK

BRUSH & WOODS

Underground by N.U.T.

S 74° E

N 24°26' E

2055 2057 2058 2059 2060 2062 2063 2065 2067 2068 2069

NOTE:
SEE SHEETS BR100 SERIES FOR THE ABOVE STRUCTURE

FOR PLAN AND PROFILE OF BROOKFIELD STATE HIGHWAY SEE SHEET 25 OF 406

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

MATCH LINE SEE SHEET No. 28

FILL
CUT

VT GRID

PLAN SCALE
0 50 100
100 FEET

STAGE 2 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1 (11)(29)

CONTRACT No. 1

SHEET 26 OF 406
60 263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NORWICH, N.Y.

73

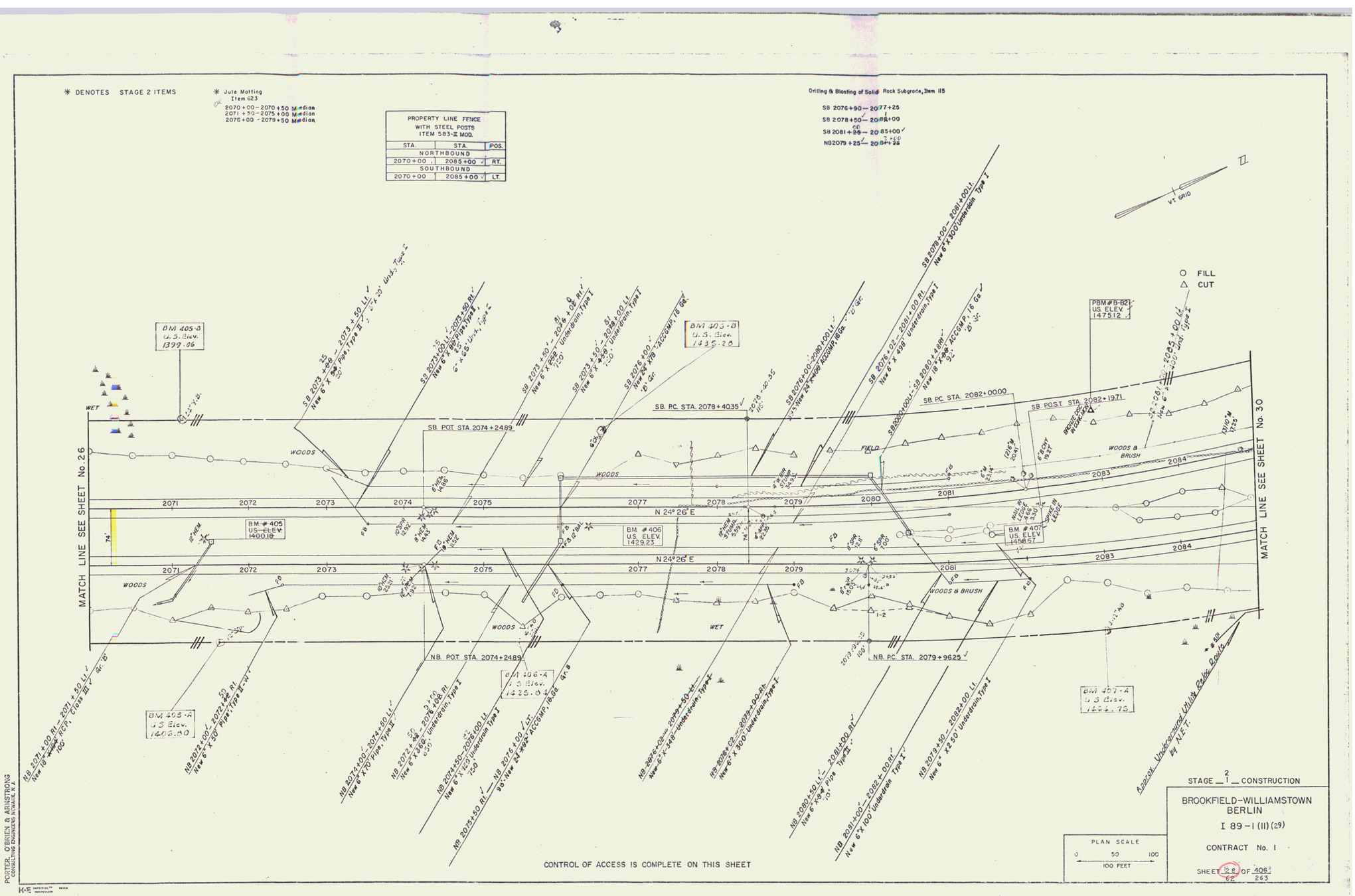
✳ DENOTES STAGE 2 ITEMS

✳ Jute Matting
Item 623
2070+00 – 2070+50 Median
2071+50 – 2075+00 Median
2076+00 – 2079+50 Median

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2070+00	2085+00	RT.
SOUTHBOUND		
2070+00	2085+00	LT.

Drilling & Blasting of Solid Rock Subgrade, Item 115

SB 2076+90 – 2077+25
SB 2078+50 – 2084+00
SB 2081+25 – 2085+00
NB 2079+25 – 2084+25



CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

STAGE 2 / 1 CONSTRUCTION

BROOKFIELD–WILLIAMSTOWN
BERLIN
I 89-1 (11) (29)

CONTRACT No. 1

PLAN SCALE
0 50 100
100 FEET

SHEET 28 OF 406 / 62 263

74

PROPERTY LINE FENCE
WITH STEEL POSTS
ITEM 583-II MOD.

STA.	STA.	POS.
NORTHBOUND		
2085+00	2100+00	RT.
SOUTHBOUND		
2085+00	2100+00	Lt.

Drilling & Blasting of Solid Rock Subgrade, Item 115
SB 2085+00 — 2100+00
NB 2086+25 — 2100+00

PROPERTY LINE FENCE W/STEEL POSTS
ITEM 583 — II MOD.
S.B. 2087+65 — 2100+00 LT.
N.B. 2087+16 — 2100+00 RT.
(ERECT FENCE PRIOR TO COMMENCEMENT OF OTHER WORK IN THIS AREA)

NOTE: POSSIBLE GRAVE
PARCEL NO. 7
CONTRACTOR TO EXCERCISE DUE CARE DURING CONSTRUCTION AND IF BODY IS FOUND, DUE PROCESS OF LAW IS TO BE FOLLOWED
(REFER TO SPECIAL AGREEMENTS)

MATCH LINE SEE SHEET No. 28

MATCH LINE SEE SHEET No. 32

SB. CURVE DATA
Δ = 32° 10' 00" LT.
D = 2° 00' 00"
R = 2864.79'
T = 825.98'
L = 1608.33'
E = 116.70'
Bank 1/16" Per Ft.

NB. CURVE DATA
Δ = 32° 10' 00" LT.
D = 2° 00' 00"
R = 2864.79'
T = 825.98'
L = 1608.33'
E = 116.70'
Bank 1/16" Per Ft.
3/4"

SB. POC. 2085+00
SB. POC. STA. 2091+00
SB. POT STA. 2094+48.68
SB. POT STA. 2095+4125 = 2096+0458 EQ=6333
SB. PI STA. 2086+6633 = 2086+22.70
NB. POC STA. 2087+00
NB. PI STA. 2088+2223 = 2087+78.60
NB. POC. 2090+00
NB. POST STA. 2095+1201
NB. PT STA 2096+0458

B.M. #408 U.S. ELEV. 1491.88
B.M. #409 U.S. ELEV. 1512.15
B.M. #410 U.S. ELEV. 1520.30
B.M. 208-A U.S. Elev. 1499.49
B.M. 208-A U.S. Elev. 1489.42
B.M. 410-A U.S. Elev. 1500.57

SB 2085+50 Rt. — 2086+00 Lt. New 24" x 148' RCP, Class III, 16 Ga.
SB 2086+00 — 2088+50 Lt. New 18" x 248' RCP, Class III
SB 2088+50 New 18" x 64' RCP, Class III, 16 Ga.
SB 2088+50 — 2091+00 Lt. New 18" x 348' RCP, Class III
SB 2091+00 — 2093+00 Lt. New 18" x 64' RCP, Class III, 16 Ga.
SB 2093+00 — 2095+00 Lt. New 24" x 300' ACCGMP, 16 Ga.
SB 2095+50 Rt. New 18" x 64' ACCGMP, 16 Ga.
NB 2085+50 Rt. New 24" x 148' RCP, Class III, 16 Ga.
NB 2086+00 — 2088+50 Lt. New 18" x 248' RCP, Class III
NB 2088+50 New 18" x 64' RCP, Class III, 16 Ga.
NB 2088+50 — 2090+50 Lt. New 24" x 198' ACCGMP, 16 Ga.
NB 2090+50 — 2093+50 Lt. New 24" x 300' ACCGMP, 16 Ga.
NB 2093+50 — 2096+50 Lt. New 24" x 300' ACCGMP, 16 Ga.
NB 2095+50 Rt. New 18" x 64" ACCGMP, 16 Ga.
NB 2096+50 Lt. New 18" x 64" ACCGMP, 16 Ga.

Existing Underground Utility Structures Route by N.J.E.P.

PASTURE
WOODS & BRUSH
SCATTERED BRUSH & WOODS
FIELD
TREE LINE
WOODS

○ FILL
△ CUT

VT. GRID

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

STAGE 2 1 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1 (11)(29)
CONTRACT No. 1
SHEET 30 OF 406
64 263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

75

✱ DENOTES STAGE 2 ITEMS

✱ Three Cable Guard Rail w/ Light Steel Posts Item 538

Stone Fill For Slope Protection (Light Type) Item 512
NB. 2111+50 Lt – SB. 2111+60 Rt.

SB 2112+20–2114+00 Rt.
NB 2110+21–2114+00 Lt
NB 2109+90–2114+00 Rt.

✱ Bituminous Concrete Surface For Gutters & Traffic Islands Item 554 MOD.

NB. 2106+96 – 2106+50 Rt.
NB. 2107+58 – 2107+95 Lt.

Drilling & Blasting of Solid Rock Subgrade, Item 115
SB 2100+00 – 2105+00
SB 2113+75 – 2114+00
NB 2100+00 – 2107+98
8,400

✱ Bridge Railing Item 572

NB 2105+45 – 2107+70 Rt
NB 2109+24 – 2110+36 Rt
NB 2105+75 – 2108+90 Lt
NB 2109+55 – 2110+67 Lt
SB 2106+30 – 2108+55 Rt
SB 2110+42 – 2112+67 Rt
SB 2106+60 – 2108+85 Lt
SB 2110+67 – 2112+92 Lt

Galvanized Chain Link Fence, Item 581
6'-0" High

S.A. I — 18+50 — 22+75 Lt.
(Mesh to be placed facing cattle path, 5'-0" Post Spacing)

PROPERTY LINE FENCE W/ST. POSTS ITEM 583–II MOD.
SB 2100+00 – 1+59 Rt. T–65
NB 2100+00 – 2106+24 RT.
(ERECT FENCE PRIOR TO COMMENCEMENT OF OTHER WORK IN THIS AREA)

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583–II MOD.

STA.	STA.	POS.
NORTHBOUND		
2100+00	2107+67	RT.
	2+36	
2108+60	2114+00	RT.
SOUTHBOUND		
2100+00	2108+85	LT.
2110+70 LT.	Reloc SA-I 29+00	RT.

NB L1 2108+15 — 2108+85 SB Rt.
NB L1 2109+39 — 2110+17 SB Rt.

NOTE: POSSIBLE GRAVE !
PARCEL NO. 7
CONTRACTOR TO EXERCISE DUE CARE DURING CONSTRUCTION AND IF BODY IS FOUND DUE PROCESS OF LAW IS TO BE FOLLOWED
(REFER TO SPECIAL AGREEMENTS)

✱ Treated Timber Curb Item 558 M
N.B. 2106+55 – 2107+70 Rt.
N.B. 2107+95 – 2108+03 Lt.
S.B. 2108+42 – 2108+55 Rt.
S.B. 2108+72 – 2108+85 Lt.

NOTE: SPUR T-65
.20+00 — 21+50 Lt. & Rt.
SAVE AS MANY TREES AS POSSIBLE.
(REFER TO SPECIAL AGREEMENT)

RELOCATED T-65 CURVE DATA
Δ = 2° 19' 00"
D = 12° 00' 00"
R = 477.47'
T = 89.86'
L = 177.64'
E = 8.39'
Bank = 1" Per Ft.

SPUR T-65 CURVE DATA
Δ = 96° 43' 00"
D = 95° 29' 35"
R = 60.00'
T = 67.48'
L = 101.28'
E = 30.30'
Bank = 3/8" Per Ft.

RELOCATED SA-I CURVE DATA
Δ = 68° 21' 06"
D = 13° 00' 00"
R = 440.74'
T = 299.25'
L = 525.78'
E = 91.99'
Bank = 1" Per Ft.

RELOC T-65 PC STA 21+06.21
SPUR T-65 POT STA 0+00.00
RELOC T-65 PI STA 21+96.07
SPUR T-65 POT STA 0+89.86
21+93.99 =
PBM # B-83
US ELEV 152.19
SPUR T-65 PC STA 3+03.13
RELOC T-65 PT STA 25+96.21
SPUR T-65 PT STA 3+93.99
RELOC SA-I PI STA 25+97.24 = 25+24.52
RELOC T-65 RT. 22+83.65
RELOC SA-I P.T. 28+23.77
RELOC SA-I P.O.T. 25+50
RELOC SA-I P.O.C. 27+75.00 =
RELOC T-65 P.O.T. 27+75.00
P.I. 3+70.61 = 3+36.94
RELOC SA-I POST 24+47.22
RELOC SA-I P.O.C. 24+00
RELOC SA-I POST 23+97.97
SPUR T-65 P.T. 4+04.41
SPUR T-65 P.O.T. 4+86.12 =
RELOC SA-I P.C. 22+97.99
RELOC SA-I STA 22+11.91
MATCH LINE SEE SHEET No. 34 STA 29+00.00
MATCH LINE SEE SHEET No. 30

O FILL
△ CUT

BM 410-B
U.S. Elev. – 1529.80 –
BM # 411
U.S. ELEV. 1526.55
BM # 412
U.S. ELEV 150.99
BM 411-A
U.S. Elev. 1518.71
BM 412-A
U.S. Elev. 1493.18
BM # 414
U.S. ELEV 154.17

STOP ROADWAY BEGIN BRIDGE STA 2108+95.16
STOP ROADWAY BEGIN BRIDGE STA 2108+08.18
END BRIDGE RESUME ROADWAY STA 2110+27.18
END BRIDGE RESUME ROADWAY STA 2109+27.20
NB P.O.T. STA 2106+49.70
NB P.O.T. STA 2108+83.20
NB P.O.T. STA 2108+65.04 = RELOC SA-I POT 20+34.12
NB P.O.T. STA 2112+39.01
SB STA 2109+67.02 = RELOC SA-I STA 22+11.91

POSSIBLE GRAVE SITE
TOWN HIGHWAY #65 (GRAVEL ROAD)
APPROXIMATE LOCATION OF WATER PIPE (LEAD OR PLASTIC)
BRONZE DISC IN CONCRETE
Approx. Utility Pole Route to NET
Underground
Underground
WOODS
FIELD
MEADOW
TREE LINE
PASTURE
CATTLE PATH
BROOK
WOODEN SPRING BOX
VT. GRID
N20° 33' E
N5° 37' E
N0° 46' W
N7° 44' W
N62° 41' W

NB 2100+50 – 2101+50 Rt. New 24" x 28" ACCGMP, 16 Ga.
NB 2100+50 – 2101+50 Lt. New 24" x 48" ACCGMP, 16 Ga.
NB 2100+50 – 2101+50 Rt. New 18" x 64" ACCGMP, 16 Ga.
NB 2102+50 – 2103+50 Lt. New 18" x 36" ACCGMP, 16 Ga.
NB 2103+50 – New 18" x 64" ACCGMP, 16 Ga.
NB 2107+50 Lt. – SB 2107+50 Rt. Construct Special Ditch, Item 106
NB 2107+50 – New 30" x 50" ACCGMP, 14 Ga. Pipe Cement To Ga. Connect Bands & Outside Joints
SB 2107+50 – New 30" x 50" ACCGMP, 14 Ga.
SB 2108+42 Rt. – New 12" x 28" Pipe CGMP, 16 Ga. (Horizontal)
SB 2108+72 Lt. – New 12" x 28" Pipe CGMP, 16 Ga. (Horizontal)
NB 2111+50 – 2114+00 Rt. New 30" x 50" ACCGMP, 14 Ga. Energy Dissipator @ outlet
Remove & Close SB 2111+60 Rt. (Installed Vertically) New 18" x 64" R.C.P.
SB 2111+60 Lt. – 2111+70 Lt. New 30" x 48" ACCGMP, 14 Ga.
SB 2111+70 Lt. – Reloc. SA-I 25+00 Rt. Construct Special Ditch, Item 106
NB 2113+50 – 2114+00 Rt. New 42" x 50" ACCGMP, 10 Ga. Energy Dissipator @ outlet

FOR PLAN AND PROFILE OF RELOCATED SA-I AND T-65 SEE SHEETS 40–45 OF 406

NOTE: SEE SHEETS BR 200 SERIES FOR THE ABOVE STRUCTURES.

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

STAGE 2 – 1 – CONSTRUCTION

BROOKFIELD–WILLIAMSTOWN
BERLIN
I 89–1 (11) (29)
CONTRACT No. 1
SHEET 32 OF 406
65 263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

K+E IMPERIAL™ MADE IN U.S.A.

76

* DENOTES STAGE 2 ITEMS

Plank Guard Rail
Item 540
NB 2121 + 10 RT 96 LF

* Three Cable Guard Rail
w/Lt St. Posts
Item 538
NB 2114 + 00 – 2116 + 04 Rt.
NB 2114 + 00 – 2116 + 06 Lt.
SB 2114 + 00 – 2117 + 15 Rt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2114 + 00	2128 + 00	RT.
SOUTHBOUND		
Reloc. SA-1 29+00	2123+00	LT.

NOTE: POSSIBLE GRAVE
PARCEL NO. 7
CONTRACTOR TO EXERCISE DUE CARE DURING CONSTRUCTION AND IF BODY IS FOUND DUE PROCESS OF LAW IS TO BE FOLLOWED.
(REFER TO SPECIAL AGREEMENTS)

RELOCATED SA-1
CURVE DATA
Δ = 13° 21' 06"
D = 5° 15' 00"
R = 1091.35'
T = 127.74'
L = 254.32'
E = 7.45'
Bank = 3/4" Per Ft.

Drilling & Blasting of Solid Rock Subgrade Item 115
SB 2114 + 00 – 2114 + 25
SB 2115 + 25 – 2115 + 75
SB 2117 + 50 – 2123 + 00
NB 2117 + 00 – 2121 + 00

R.O.W. BID ITEM
CONSTRUCT DRIVE
38+50 LT SA-1

CONSTRUCT RAMP
30 + 00 – 31 + 25 ± LT.

VT. GRID

FILL
CUT

MATCH LINE SEE SHEET No. 32 STA. 29+00.00

MATCH LINE SEE SHEET No. 36

RELOCATED SA-1

RELOC. SA-1 P.I. 34+39.44
34+38.28

RELOC. SA-1 PT. 35+66.02 ℓ
35+55.96
EQ = +10.06

RELOC. SA-1 POT 36+00 ℓ
SB 2122+50.00 104.36' RT.
NB 2122+50.00 250.00' RT.

RELOC. SA-1 POT 32+57.14

SB 2118+00 ℓ – New 18" RCP Class III

SB 2122+00 ℓ – New 18" RCP Class III

SB 2123+00 ℓ – New 18" x 64" RCP Class III

SB 2123+00 ℓ 2123+00 RT. – New 18" x 300' RCP Class III

SB 2115+74 Rt. 12" CMP ℓ – Remove, Item 204

SB 2115+95 Lt. Existing Spring Box – Construct New Spring Box For Details See Sheet 59 of 406

SB 2116+20 Rt. 36" ACCGMP ℓ – Remove, Item 106

SB 2116+68 Rt. 2116+48 Lt. – New 42" x 65' ACCGMP, 106

NB 2115 + 87 – 2117 + 12 Lt. Existing Road – Removal from 105 Ac. See Sheets 186 & 187 of 406

NB 2118+00 Lt. – SB 2118+00 Rt. – Construct Special Ditch, Item 106

NB 2116 + 00 R.L. – New 15" x 24" RCP, Class III

NB 2118+00 – New 18" x 36" RCP, Class III

NB 2122+00 Lt. – SB 2122+00 Rt. – New 18" x 64" RCP, Class III

NB 2122+00 – New 18" x 64" RCP, Class III

NB 2122+00 – New 24" x 64" RCP, Class III

5 Spans Under Concrete Utility Bridge – 28'-0" x 7'-6" Gr.

NB 2122+00 – 2125+00 Lt. – SB 2125+00 Rt. – New 24" x 360' RCP, Class III

NB 2125+00 Lt. – SB 2125+00 Rt. – New 24" x 64' RCP, Class III

NB 2123+00 – New 18" x 76' RCP, Class III

BM. #413 US. ELEV. 1528.91

BM. #413-B U.S. Elev. 1534.30

BM. #415 US. ELEV. 1533.40

BM. #415-B U.S. Elev. WOODS 1536.67

BM. #416-B U.S. Elev.

BM. #416 US. ELEV. 1566.22

BM. #417 US. ELEV. 1585.37

BM. #417-A U.S. Elev. 1534.15

BM. #45-A U.S. Elev. 1547.91

N.B. POT STA. 2117+2305

FOR PLAN AND PROFILE OF RELOCATED SA-1 SEE SHEETS 40-45 OF 406

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

STAGE 2 / 1 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1 (11) (29)

CONTRACT No. 1

SHEET 3-4 OF 406
68 263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

77

* DENOTES STAGE 2 ITEMS

* Three Cable Guard Rail w/Lt.St.Posts Item 534
NB. 2140+00 – 2142+00 Rt.
NB.2139+77 – 2142+00 Lt.
SB.2138+65 – 2142+00 Rt.
SB.2139+ – 2142+00 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2128 +00	2142 +00	RT.
SOUTHBOUND		
2128+00	2142+00	LT.

Construct U-Turn Median Opening
NB. 2138+50 – 12' Lt.
SB. 2138+50 – 12' Rt.

Drilling & Blasting of Solid Rock Subgrade, Item 115
SB 2128+00 – 2137+85
NB 2123+00 – 2138+55

VT. GRID

○ FILL
△ CUT

WET
WOODS
FIELD
BRUSH
BARN FDN.
CELLAR HOLE
(GRAVEL ROAD)
Grade To Drain
10" PINE
SB 2128+00 – 2123+00 Rt. New 18"x24" RCP, Class III 8' Cr.
SB 2123+00 – New 18"x24" RCP, Class III 8' Cr.
SB 2133+00 – Relocate SA-1 Existing Sprague Creek Trib. 48"x50" CMP 8' Cr.
SB 2133+00 – New 18"x76" RCP, Class III 8' Gr.
BM 419-B U.S. Elev. 1603.23
SB. P.O.T. 2136+60
BM #419 US ELEV. 1592.99
RELOCATED SA-1
N 7° 44' W
BM #415-D SCL 45° Lt. El 1586.17
BM #415-E 30L 60' Lt. El 1601.28
BM #418 US ELEV. 1600.21
U-TURN 1+21.64 SB. 2138+50 12' RT.
U-TURN 0+00 NB. 2138+50 12' LT.
NB2138+50 12' RT.
NB2138+35 27' RT.
NB2138+50 91' RT.
NB2138+65 90' RT.
(2250SF -
N.B. P.O.T. STA. 2134+00
N.B. P.O.T. STA. 2134+93.21
N.B. P.O.T. STA. 2128+59.22
PBM #B-84 US. ELEV. 1610.71
NB 2129+50 – 2133+50 Lt. New 84"x48" RCP, Class III 8' Gr.
NB 2133+50 – New 18"x24" RCP, Class III 8' Gr.
NB 2129+50 – New 18"x30" RCP, Class III 8' Gr.
NB 2123+50 – New 18"x34" RCP, Class III 8' Gr.
UNDERGROUND UTILITY RELOC. ETC.
APPROX. AERIAL UTILITY ETC.
WASH. ELEC. COOP
Being Part of the same Land and Premises Conveyed to Robert P. & Suzanne by Richard M. Townsend by Quit-Claim Deed dated Nov. 1981 and recorded in Book 93, Pge 319-19 of the Somerset County Records.

MATCH LINE SEE SHEET No. 34
MATCH LINE SEE SHEET No. 38

FOR PLAN AND PROFILE OF RELOCATED SA-1 SEE SHEETS 40–45 OF 406.

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

STAGE 2 / 1 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1 (11) (29)
CONTRACT No. 1
SHEET 36/70 OF 406/263

PLAN SCALE
0 50 100
100 FEET

78

* DENOTES STAGE 2 ITEMS

Plank Guard Rail Item 540
NB. 2146 + 85 Rt. 104 L.F.
SB. 2152 + 00 Lt. 64 L.F.
168

* Three Cable Guard Rail w/Lt. St. Posts Item 538
NB. 2142+00 ~ 2148+08 Rt.
NB. 2142+00 ~ 2150+63 Lt.
SB. 2142+00 ~ 2150+04 Rt.
SB. 2142+00 ~ 2151+82 Lt.
358

PROPERTY LINE FENCE W/ST POSTS
ITEM 583-II-MCD
S.B. 2150+27 — 2157+00 LT
(ERECT FENCE PRIOR TO COMMENCEMENT OF OTHER WORK IN THIS AREA)

TWO CABLE GUARD RAIL
ITEM 541
Reloc. SA-1 - 55 + 20 - 58 + 00 Lt.

RELOCATED SA-1
CURVE DATA
Δ = 55° 43' 40"
D = 5° 15' 00"
R = 1091.35'
T = 576.96'
L = 1061.48'
E = 143.12'
BANK = 3/4" PER FT.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD

STA.	STA.	POS.
NORTHBOUND		
2142 + 00	2157+00	RT.
SOUTHBOUND		
RT.	2157+00	LT.

Drilling & Blasting of Solid Rock Subgrade, Item 115
SB 2152+50 — 2157+00
NB 2148+29 — 2150+00
NB 2155+28 — 2157+00
0 + 00 - 11 + 15

RELOC. SA-1 P.O.C. 64+00
SA-1 P.O.C. 62+50
RELOC. SA-1 P.C. 58+2130
RELOC. SA-1 P.I. 63+98.26
63+05.82
S.B. P.C. 2153+20.38
N.B. P.C. STA. 2154+14.55
N.B. P.O.T. STA. 2153+20.38

8" x 8" STONE BOX CULVERT
18" C.G.M.P.
12" C.G.M.P.
SB. 2150+50 Lt. 12" CGMP, Remove Item 106 Contract Special Ditch, Item 106
SB. 2153+50 Lt. New 18" x 80' ACCGMP, 16 Ga.
SB 254+50 Lt. New 18" x 80' ACCGMP, 16 Ga.
NB. 2143+00 New 42" x 140' ACCGMP, 10 Ga.
NB. 2143+00 New 36" x 140' ACCGMP, 12 Ga.
NB. 2146+50 — 2147+50 Rt. Construct Special Ditch, Item 106
NB 2145+69 RETAIN EXISTING 18"X80'CGMP
NB 2154+50 Lt. — SB 255+50 Rt. Construct Special Ditch, Item 106
NB 2154+50 New 18" x 80' ACCGMP, 16 Ga.
SB. 2148+80 Rt. 18" CGMP, Remove Item 106 Not Incl.
Approx. Aerial Utility Relocation by N.E.P. & Wash Electric Co-op Inc.
Approx. Underground Utility Relocation by N.E.P.
Approx. Aerial Utility Relocation by Wash Electric Co-op Inc.
Approx. Kernel Underground Utility Relocation by Wash Electric Co-op Inc.

BM #421 US ELEV. 1611.38
BM #422 US ELEV. 1643.99
BM #420 US ELEV. 1601.79
BM #422-A U.S. Elev. 1654.32
BM #422-A U.S. Elev. 1640.23

FOR PLAN AND PROFILE OF RELOCATED SA-1 SEE SHEETS 40-45 OF 406.

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

MATCH LINE SEE SHEET No. 36

MATCH LINE SEE SHEET No. 47

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS, CONCORD, N.H.

STAGE 2 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 1

SHEET 138 OF 406
72 263

PLAN SCALE
0 50 100
100 FEET

Two Cable Guard Rail
Item 541
Exist. SA-1 ~~2+60 - 5+00 RT.~~ 50
1+59 - 5+47 Rt.

R.O.W. BID ITEM
CONSTRUCT DRIVE
SA 1 - 7+28 ~~84~~ 50 RT. ✓
~ 9+00 Rt.
" 12+50 Lt.

DRILLING & BLASTING OF SOLID ROCK SUBGRADE
ITEM 115
S.A. 1 11+00 - 11+86
13+25 - 16+50.00

NOTE: POSSIBLE GRAVE!
PARCEL NO. 7
CONTRACTOR TO EXERCISE DUE CARE DURING CONSTRUCTION AND IF BODY IS FOUND DUE PROCESS OF LAW IS TO BE FOLLOWED (REFER TO SPECIAL AGREEMENTS)

RELOCATED SA-1 CURVE DATA
Δ = 51° 39' 00" ✓
D = 12° 00' 00" ✓
R = 477.47' ✓
T = 231.07' ✓
L = 430.42' ✓
E = 52.98' ✓
Bank = 1" Per Ft ✓

BM 411-A1
U.S. Elev.
1456.67

MATCH LINE SEE SHEET No. 41
STA. 16+50.00

SPUR SA-1 CURVE DATA
Δ = 114° 39' 32" ✓
R = 60' ✓
T = 93.57' ✓
L = 120.07' ✓
E = 51.15' ✓
Bank = R.C. ✓

EXIST SA-1 CURVE DATA
Δ = 13° 41' 18" ✓
D = 5° 00' 00" ✓
R = 1145.92' ✓
T = 137.54' ✓
L = 273.77' ✓
E = 8.24' ✓
Bank = 7/16" Per Ft ✓

○ FILL
△ CUT

PLAN SCALE
0 50 100
100 FEET

RELOC. SA-1 POT. STA. 7+00.00
RELOC. SA-1 PC. STA 11+03.20
EXIST. SA-1 POT. STA. 0+00.00
RELOC. SA-1 POC. STA. 13+00.00
RELOC. SA-1 POC. STA. 14+50.00
RELOC. SA-1 PI. STA. 13+34.27 = 13+02.55
EXIST. SA-1 POST STA. 2+31.07
EXIST. SA-1 P.C. STA. 2+15.95
PC STA 13+07.93
SPUR SA-1 PI STA. 14+01.50 = 13+34.43
EXIST SA-1 PI STA. 3+53.49 = 3+52.18
SPUR SA-1 STA 12+95.86
EXIST SA-1 PT. STA. 4+89.72
SPUR SA-1 POT. STA. 11+58.32
EXIST SA-1 PT. STA. 15+33.62
SPUR SA-1 PT. STA. 15+33.62
6+50.00 END CONSTRUCTION
7+50.00 BEGIN CONSTRUCTION

NOTE: RELOCATED SA-1 & T-65 IS TO BE BUILT IN ITS ENTIRETY DURING STAGE I CONSTRUCTION

WOODS · BROOK · PASTURE · 18" CMP (GRAVEL ROAD) · N 11° 05' W · EXIST SA-1 (GRAVEL ROAD) N 2° 36' E · 42" ACCGMP · 6'x4' RCBC · 6'x6' RCBC · 4'x4' RCBC · 6'x3' RCBC · 4'x3' RCBC · 3-3'x2' RCBC · 4'x3' RCBC (PIPE ARCH) · 6'x4' RCBC (PIPE ARCH) · 6" TRAM · 4" DOP · 8" DOP · 6" DOP · 6" CMP · 6'x45°18" CMP DO NOT DISTURB · 3-3'x2' RCBC (PIPE ARCH) · 6'x4' RCBC (PIPE ARCH)

DRILLING & BLASTING OF SOLID ROCK SUBGRADE
ITEM 115
S.A.#1 16+50 - 22+90.00

6' GALV. CHAIN-LINK FENCE (8'-0" Post Spacing)
S.A.#1 18+00 - 22+19 Lt.

NB. P.O.T. STA. 2106+49.70

STOP ROADWAY
BEGIN BRIDGE
STA. 2108+05.18

STOP ROADWAY
BEGIN BRIDGE
STA. 2108+95.16

MATCH LINE SEE SHEET No. 40
STA. 16+50.00

MATCH LINE SEE SHEET No. 42
STA. 22+90.00

RELOC. SA-1 N 62° 45' W

WOODS

MEADOW

CATTLE PATH

RELOC. SA-1 POT. STA. 20+34.12±
NB. P.O.T. STA. 2108+65.04

NB. P.O.T. STA. 2108+83.20

END BRIDGE
RESUME ROADWAY
STA. 2109+27.20

BM #412
U.S. ELEV.
1504.99

END BRIDGE
RESUME ROADWAY
STA. 2110+27.18

RELOC. SA-1 POT. STA. 22+11.91±
SB P.O.T. STA. 2109+67.02

Reloc. SA-1 17+98 Rt. ± 18+60 Lt. ±
New 30" X 78" ACCGMP, 14 Ga. ± 30' ±

FOR PLAN OF RELOCATED SA-1
STA. 22+90.00 TO STA. 29+00.00
SEE SHEET 32 OF 406

O FILL
△ CUT

NOTE:
SEE SHEETS BR 200 SERIES
FOR THE ABOVE STRUCTURES

NOTE: RELOC. SA-1 TO BE BUILT IN ITS ENTIRETY
DURING STAGE I CONSTRUCTION.

PLAN SCALE
0 50 100
100 FEET

PLAN
NOTE BOOK
NO. 13

WEBSTER-MARTIN 1/66
W.E. FISHER 12/66
H.E. REYNOLDS 12/66
H.E. REYNOLDS 12/66

1550
1540
1530
1520
1510
1500
1490
1480
1470

ORIGINAL GROUND
AT CATTLE PATH

-7.880%

PROFILE OF CATTLE PATH +5.900%

+5.900%

P.V.C.
23+00
1510.06

RELOCATED SA-1

NOTE:
SEE SHEETS BR 200 SERIES
FOR THE ABOVE STRUCTURES

PROFILE SCALE
HORIZ. 50 FEET
VERT. 10 FEET

STAGE I CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
RELOCATED SA-1 & T-65
PROJECT I 89-1(11)
CONTRACT No. 1
SHEET 41 OF 406

17 18 19 20 21 22 23 24 25 26 27 28 29

PROFILE
NOTE BOOK
NO. 13

WEBSTER-MARTIN 1/66
W.E. FISHER 12/66
H.E. REYNOLDS 12/66
H.E. REYNOLDS 12/66

81

R.O.W. BID ITEM
CONSTRUCT DRIVE
19+25 LT. ✓

DRILLING & BLASTING OF SOLID ROCK SUBGRADE
ITEM 115
S-A-1 - 22+90.00 - 29+00
T-65 - 18+00 - 27+50

NOTE: 19+00 & 21+50 RT. & LT.
SAVE AS MANY TREES AS POSSIBLE
(REFER TO SPECIAL AGREEMENTS)

19+25 R.O.W. BID ITEM
3-4" NEW 15" CMP PIPE CULVERT
REMOVE EXIST. CULVERT
CONSTR. 15 GA.

RELOCATED T-65
CURVE DATA
Δ = 21° 19' 00" ✓
D = 12° 00' 00" ✓
R = 477.47'
T = 89.86'
L = 177.64'
E = 8.39'
Bank = 1" Per Ft ✓

Reloc. T-65 24+10.00 Rt. 25.33 Lt. New 6"x4" CMP Pipe Culvert
Reloc. T-65 25+50 Rt. New 24"x50' CSP, Class III, Gr. IA (Optional) 16 Ga. w/CMAP, 16 Ga. Coupler
Reloc. SA-1 24+00 Rt. 25.00 Rt. New 24"x50' CSP, Class III, Gr. IA (Optional) 16 Ga. w/CMAP, 16 Ga. Coupler
Reloc. SA-1 25+00 Rt. 25.00 Rt. New 24"x50' CSP, Class III, Gr. IA (Optional) 16 Ga. w/CMAP, 16 Ga. Coupler
Reloc. T-65 25+50 Lt. 24.18 Lt. New 24"x50' CSP, Class III, Gr. IA (Optional) 16 Ga. w/CMAP, 16 Ga. Coupler
Reloc. T-65 25+50 Lt. 24.18 Lt. New 24"x50' CSP, Class III, Gr. IA (Optional) 16 Ga. w/CMAP, 16 Ga. Coupler
Reloc. T-65 25+50 Lt. 24.18 Lt. New 24"x50' CSP, Class III, Gr. IA (Optional) 16 Ga. w/CMAP, 16 Ga. Coupler
Reloc. T-65 Contract Special Ditch Item 106
New 15" CMP, 16 Ga.

RELOC SA-1 PI STA 25+9724
25+2452
RELOC SA-1 PT STA 28+23.77
MATCH LINE SEE SHEET No. 43
STA. 29+00.00
N 5° 37' E
RELOC SA-1 POC STA 27+7500
RELOC T-65 POT STA 27+7500
RELOC T-65 PT STA 22+8385
RELOC T-65
N 0° 46' W
RELOC SA-1
RELOC SA-1 POT STA 25+50
APPROXIMATE LOCATION OF WATER PIPE (LEAD OR PLASTIC)
RELOC T-65 PC STA 21+0621
SPUR T-65 POT STA 0+0000
N 20° 33' E
TOWN HIGHWAY #65 (GRAVEL ROAD)
SPUR T-65
50' TAPER
RELOC SA-1 POC STA 24+0000
PI 3+7061
3+3695
RELOC SA-1 POST 24+4722
RELOC SA-1 POST 23+9797
RELOC T-65 POT STA 16+0000
RELOC T-65 PI STA 21+9607
21+9399
SPUR T-65 POT STA. 0+89.86
B.M. # 414
U.S. ELEV.
154.717
SPUR T-65 PC STA 3+031.3
SPUR T-65 PT STA 4+044.1
SPUR T-65 POT STA 4+86.12
RELOC SA-1 PC STA 22+9799 ✓
MATCH LINE SEE SHEET No. 41
STA. 22+90.00

SPUR T-65
CURVE DATA
Δ = 96° 43' 00" ✓
D = 95°29'35" ✓
R = 60.00' ✓
T = 167.48' ✓
L = 201.28' ✓
E = 130.30' ✓
Bank = 3/8" Per Ft. ✓

RELOCATED SA-1
CURVE DATA
Δ = 68° 21' 06" ✓
D = 13° 00' 00" ✓
R = 440.74' ✓
T = 299.25' ✓
L = 525.78' ✓
E = 91.99' ✓
Bank = 1" Per Ft ✓

VT GRID
○ FILL
△ CUT

NOTE: POSSIBLE GRAVEL PARCEL NO. 7
CONTRACTOR TO EXERCISE DUE CARE DURING CONSTRUCTION AND IF BODY IS FOUND, DUE PROCESS OF LAW IS TO BE FOLLOWED.
(REFER TO SPECIAL AGREEMENTS)

PLAN SCALE
0 50 100
100 FEET

17+50
BEGIN CONSTRUCTION

P.V.C. 1558.60
P.V.I. 18+50 1556.98 200' V.C. M.O. 1.22' S.S.D. +243'
P.V.I. 1550.46
P.V.C. 1532.53
P.V.I. 24+25 1519.49 400' V.C. M.O. 5.72' K=35
-1.620%
-6.320%
+4.920%
1553.0 + 8.89 %
P.V.I. 1559.2 20' V.C.
-2.44 %
1557.0 ± @ 1+60 OG
0+00 14' LT OF 19+25
+50 +70 1+00 +50
DRIVE PROFILE

GRADES FROM 26+05 TO 27+75 DETERMINED BY RELOC SA-1 GRADE

FOR PROFILE OF SPUR T-65 SEE SHEET 46 OF 406.

RELOCATED T-65

PROFILE SCALE
HORIZ 50 FEET
VERT 10 FEET

STAGE I CONSTRUCTION
BROOKFIELD-WILLIAMSTOWN
BERLIN
RELOCATED SA-1 & T-65
PROJECT I 89-1(11)
CONTRACT No. 1
SHEET 42 OF 406

WEBSTER-MARTIN
W.E. WEBSTER
H.E. REYNOLDS
H.E. REYNOLDS
12/66
12/66
12/66

PLAN
PROFILE
SHEET NUMBER 13

PLATE I. PLAN-PROFILE
FILMED & SENT CO.

82

Stone Fill For Slope Protection (Light Type) Item 512
Reloc. SA-1 30+75–32+40 Lt.

Two Cable Guard Rail Item 541
Reloc. SA-1 30+28 ~ 31+52 Rt.
Reloc. SA-1 30+68 ~ 32+76 Lt.

CONSTRUCT RAMP DRIVE
30 + 00 — 31 + 25 ½ LT.

R.O.W. BID ITEM
CONSTRUCT DRIVE
38 + 50 LT. ✓

RELOCATED SA-1
CURVE DATA
Δ = 13° 21' 06" ✓
D = 5° 15' 00" ✓
R = 1091.35' ✓
T = 127.74' ✓
L = 254.32' ✓
E = 7.45' ✓
BANK = 3/4" PER FT. ✓

MATCH LINE SEE SHEET No. 42
STA. 29+00.00

FIELD
WOODS
BROOK
N 5° 37' E
APPROXIMATE LOCATION OF WATER PIPE 1" LEAD OR PLASTIC
AUXILIARY RAM
INTAKE PIPE
RAM HOUSING
24" TILE SPRING COVERING
BM # 415 U.S. ELEV. 1533.40±
12" ASH
RELOC. SA-1 30+75 Rt. ~ 31+11 Lt. ✓
New 42" X 116' S.V.C.S.M.P. 12 Ga. ✓
RELOC. SA-1 31+41 – 32+30 Lt.
Construct Special Ditch, Item 106
RELOC. SA-1 POT. 32+57.14
RELOC. SA-1 P.C. 33+11.70
RELOC. SA-1 PI. 34+39.44 ✓ 34+38.28
RELOC. SA-1 P.T. 35+66.02 ✓ 35+55.98 54.27 EQ.+10.06 ± 11.75
RELOC. SA-1 POT. 36+00 ±
SB. 2122+50.00 104.36' RT.
NB. 2122+50.00 250.00' RT.
RELOCATED SA-1
N 7° 44' W
SPOT ON LEDGE
BM # 416 U.S. ELEV. 1566.22
BM # 417 U.S. ELEV. 1585.37
12" POP.
V.T. GRID
○ FILL
△ CUT
10" PINE
MATCH LINE SEE SHEET No. 44
STA. 43+00.00

DRILLING & BLASTING OF SOLID ROCK, SUBGRADE ITEM 115
SA-1 29+00 – 29+75
31+75 – 30+00
31+30 – 33+00

PLAN SCALE
0 50 100
100 FEET

RAMP AT STA. 30+00 LT.
GRADE TO O.G. TO BE DETERMINED IN FIELD BUILD RAMP TO SUIT FIELD CONDITIONS
O.G.
1537.5
1546.0
1545.3
+1.32%
-18.7%
H07
P.V.T. 29+50 1548.91 1300' V.C. MID ORD. 4.71 S.S.D. = 792
+5.900%
+3.000%
CUT TO FILL TRANSITION
P.V.T. 35+89.94 1567.91
P.V.C. 36+00.00 1568.21
35+66.02 ± 35+55.96 EQ. = +10.06'

PROFILE SCALE
HORIZ. 50 FEET
VERT. 10 FEET

STAGE I CONSTRUCTION
BROOKFIELD - WILLIAMSTOWN
BERLIN
RELOCATED SA-1 & T-65
PROJECT I 89-i(11)
CONTRACT No. I
SHEET 43 OF 406

PLATE 1 PLAN-PROFILE
H.C. METCALF & ESSEY CO.

WEBSTER-MARTIN 1/65
W.F. FLETCHER 12/65
P. BROUGHTON 12/65
H.E. REYNOLDS 12/65

PLAN
PROFILE
NO. 13

83

DRILLING & BLASTING OF SOLID ROCK SUBGRADE
ITEM 115
S.A.1 43+00 - 46+50
47+00 - 52+25

MATCH LINE SEE SHEET No. 43
STA. 43+00.00

MATCH LINE SEE SHEET No. 45
STA. 57+00.00

WOODS
FIELD
RELOCATED SA-1
N 7° 44' W
BRUSH
Grade to Drain
Reloc. SA-1 46+50
New 18"ø RCP Class III
Reloc. SA-1 56+19
New 42"x60" RCPA, REPLACES 36" CGMP, 126 lin ft RCPA
VT. GRID
8" BAL. @ 10 SPR
6" BAL. @ 8' SPR
12" WIER
15" W
15" APR
18" SPR
BM # 418
U.S. ELEV
1600.21
BM # 419
U.S. ELEV
1597.68
S.A.1 46+50 - 52+19.34
New 6'x 10' RCPA, 172 lin ft
6'x 2'-11" Wing Walls
○ FILL
△ CUT
PLAN SCALE
0 50 100
100 FEET

P.V.T.
44+00
1592.21
1600' V.C.
M.O. 4.96'
SSD = 950'
-3.000%
+0.520%
P.V.T.
52+00
1596.37
15.7 Fill
12.4 Fill

1640
1630
1620
1610
1600
1590
1580
1570
1560

43 44 45 46 47 48 49 50 51 52 53 54 55 56 57

PROFILE SCALE
HORIZ. 50 FEET
VERT. 10 FEET

STAGE I CONSTRUCTION
BROOKFIELD-WILLIAMSTOWN
BERLIN
RELOCATED SA-1 & T-65
PROJECT I 89-1(11)
CONTRACT No. 1
SHEET 44 OF 106

KEE MAT 1, PLAN-PROFILE
NOYES & KEEP CO.

PROJECT
PLAN
NOTE ROCK
NO. 13
WEBSTER-MARTIN
W.E. REYNOLDS
H.E. REYNOLDS
1/66
12/66
12/66
12/66

84

Demolition and Disposal of Building Item 586
Reloc. SA-1 66+80 Lt. # 2 ✓
Reloc. SA-1 67+70 Lt. # 2A ✓

R.O.W. BID ITEM
CONSTRUCT DRIVE
68+27 - LT. ✓
67+00 - RT. ✓
67+00 - LT.

RELOCATED SA-1
CURVE DATA
Δ = 55° 43' 40" ✓
D = 5° 15' 00" ✓
R = 1091.35' ✓
T = 576.96' ✓
L = 1061.48' ✓
E = 143.12' ✓
BANK = 3/4" PER FT. ✓

MATCH LINE SEE SHEET No. 44
STA. 57+00.00

RELOC. SA-1 P.C. 58+21.30
RELOC. SA-1 P.O.C. 62+50
RELOC. SA-1 P.O.C. 64+00
RELOCATED SA-1
N 74° 44' W
N 63° 28' W
RELOC. SA-1 P.I. STA 63+98.26
63+05.82
69+00.00
END CONSTRUCTION

APPROXIMATE LOCATION SEWER PIPE
APPROXIMATE LOCATION OF WATER PIPE 1 1/4" & 5/8" LEAD & PLASTIC
SW F. HOUSE
BARN
FIELD
PASTURE
WOODS & BRUSH
BRUSH
WET
GRAVEL
ROAD
Milk House
Grade to drain
Grade
To 4" Alder Drain
Reloc. SA-1 Remove Item 106
Reloc. SA-1 Remove Item 106
Reloc. SA-1 65+50 RT 18" CCMP
Reloc. SA-1 67+00 RT 18" CCMP
Reloc. SA-1 64+99.65 LT. 30" RCP
Reloc. SA-1 67+00 RT 18" CCMP
Reloc. SA-1 67+00 RT 18" CCMP
Reloc. SA-1 67+00 RT 18" CCM

PROPERTY LINE FENCE W/ST POSTS
ITEM 583-II MOD.
SB 2157+00 — 2167+05 LT
(ERECT FENCE PRIOR TO COMMENCEMENT OF OTHER WORK IN THIS AREA)

Drilling & Blasting of Solid Rock Subgrade Item 115
NB 2157+00— 2170+50
SB 2157+00— 2163+00
2165+00— 2172+25 70+50

PROPERTY LINE FENCE
WITH STEEL POSTS
ITEM 583-II MOD.

STA.	STA.	POS.
NORTHBOUND		
2157 + 00	2172 +00	RT.
SOUTHBOUND		
2157 + 00	2172 +00	LT.

SB CURVE DATA
Δ = 17° 28' 20" LT.
D = 1° 00' 00"
R = 5729.58'
T = 880.45'
L = 1747.22'
E = 67.25'
Bank = 7/16" Per Ft

NB CURVE DATA
Δ = 13° 34' 00" LT.
D = 1° 00' 00"
R = 5729.58'
T = 681.52'
L = 1356.67'
E = 40.39'
Bank = 7/16" Per Ft

○ FILL
△ CUT

VT. GRID

BM 423-B U.S. Elev. 1644.79
BM 424-B U.S. Elev. 1643.67
BM 425-B U.S. Elev. 1655.13
BM 425-A U.S. Elev. 1662.87
BM 426-A U.S. Elev. 1645.75
BM #423 US ELEV. 1650.53
BM #424 US ELEV. 1648.00
BM #425 US ELEV. 1667.64
BM #426 US ELEV. 1634.63
PBM #B-B5 US ELEV. 1660.55

SB POC STA. 2158+50.00
SB POC STA. 2161+50.00
SB POC STA. 2164+0000
SB POC STA 2166+50.00
SB POST. STA 2166+71.47
SB POC STA 2169+0000
SB PT STA 2170+6760 ℄
2170+0875 ∨
EQ = +58.85
SB PI STA. 2162+00.83 ∨
2161+87.15 ∨
NB POC STA. 2158+0200
NB POC STA. 2160+6000
NB PI STA. 2160+9607 ∨
2160+8970 ∨
NB POC STA. 2164+0000
NB POC STA. 2166+0000
NB PT. STA 2167+71.22
NB POT STA 2171+6991

SB 2159+00 L — New 18" ϕ RCP Class III "A" Gr.
SB 2161+50 L — 2162+50 RT New 24" ϕ RCP Class III
SB 2166+50 L — New 18" ϕ ACCOMR 16ga
SB 2166+50 L — 2170+00 L New 18" ϕ ACCOMR 16ga Gr. A
NB 2159+15 L — SB 2159+00 RT. Construct Special Ditch, Item 606 New 18" ϕ RCP, Class III "A" Gr.
NB 2159+15 L New 18" ϕ RCP Class III "A" Gr.
NB 2161+00 — PBM #B-B5 Bronze disc cor. mon. 16.5 Ft. Easterly — Drive go not failure — Save
SB 2161+50 RT — NB 2164+00 LT Construct Special Ditch, Item 606
NB 2164+00 L — 2165+00 RT New 24" x 136 RCP Class III
SB 2166+50 RT — 2167+00 L New 18" ϕ RCP Class III

WOODS
FIELD
PASTURE
ALDERS & WET
TREE LINE
TOWN HIGHWAY #8
APPROXIMATE LOCATION OF WATER PIPES 1/2" & 3/4" PLASTIC
BROUZ DISC IN CONC. MON.

MATCH LINE SEE SHEET No. 38
MATCH LINE SEE SHEET No. 49

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

PORTER, O'GRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

STAGE 2 — 1 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 1

PLAN SCALE
0 50 100
100 FEET

SHEET 47 OF 406
74 263

86

* DENOTES STAGE 2 ITEMS

Plank Guard Rail
Item 540
SB. 2186+24 Lt. 16 L.F.

*Standard Steel Beam Guard Rail w/Steel Posts (6'-3" Spacing)
Item 545-A
SB. 2186+57 – 2187+00 Rt.

Drilling & Blasting of Solid Rock Subgrade, Item 115
NB 2179+20 – 2180+92
NB 2185+26 – 2187+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2172+00	2187+00	RT.
SOUTHBOUND		
2172+00	2187+00	LT.

○ FILL
△ CUT

BM 427-B
U.S. Elev.
1624.26

BM 428-B
U.S. Elev.
1621.95

PBM #B-B6
U.S. ELEV.
1618.10

BM #427
U.S. ELEV.
1631.17

BM #428
US ELEV.
1621.79

BM 427-A
U.S. Elev.
1630.35

BM 428-A
U.S. Elev.

SB. P.O.T. STA. 2174+01.61

NB P.O.T. STA. 2180+09.52

NB P.O.T. STA. 2184+00.00

SB. 2173+10 – 2174+27 Rt. Construct Special Ditch, Item 106

SB. 2176+50 – 2179+50 Lt. Construct Special Ditch, Item 106

SB. 2179+50 Lt. New 36" x 106' ACCOMP., 14 Ga.

SB. 2180+00 Rt. 1 ACCOMP., 16 Ga.

SB. 2179+35 – 2187+00 Rt. Channel Excavation, Item 108C

SB. 2184+00 New 18" x 106' ACCOMP., 16 Ga.

NB. 2175+00 New 63" x 40" x 130' ACCOMP., 8 Ga. For Details See Sheet 218 of 306

NB. 2183+50 New 30" x 146' RCP, Class IV, 1.53

NB. 2184+35 New 8" x 100' Drain, Type E

WOODS
WET
SWAMP
BROOK
BRUSH & ALDERS
ALDERS & WET
WOODS & BRUSH
BRUSH & WET
Dike
Grade to Drain
TOWN HIGHWAY #7
VT. GRID
COURT ROAD
FIELD
CROSSING ROAD

N 25° 12' W
N 21° 18' W
90°

MATCH LINE SEE SHEET No. 47
MATCH LINE SEE SHEET No. 51

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

STAGE 2 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1 (11) (29)

CONTRACT No. 1

SHEET 49/76 OF 406/265

PLAN SCALE
0 50 100
100 FEET

87

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type) Item 512
NB. 2200+52 – 2202+00 Lt.
SB. 2190+80 – 2191+80 Rt. (Lt. Side of Channel only)
SB. 2191+53 – 2192 +33 Rt. (Rt. Side of Channel and Bottom)
SB. 2191 + 96 – 2196 + 75 Rt. (Lt. Side of Channel only)
SB. 2192+00 – 2200+25 Lt.
~~NB. 2195+50 – 2198+85 Lt.~~
~~NB. 2199+80 – 2200+85 Lt.~~

Plank Guard Rail Item 540
NB. 2194+90 Rt. 24 L.F.

* Three Cable Guard Rail w/Lt. St. Posts Item 538
NB. 2199+36 – 2202+00 Rt.
NB. 2195 +48 – 2202+00 Lt.

* Treated Timber Curb Item 558
NB. 2199 + 50 – 2202 + 00 Rt.
SB. 2189+00 – 2202+00 Rt.

* Standard Steel Beam Guard Rail w/Steel Posts, Item 545-A (6'-3" Spacing)
S.B. 2187+00 – 2202+00 Rt.
S.B. 2187+~~49 – 2199+49 Lt.~~ 85 – 2200+05 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2187 +00	2202+00	RT.
SOUTHBOUND		
2187 +00	2202 + 00	LT.

Drilling & Blasting of Solid Rock Subgrade Item 115
SB 2201+68 — 2202+00
NB 2187+00 — 2189 + 39.75

PROPERTY LINE FENCE W/ST POSTS ITEM 593-II MOD.
SB 2194+50 — 2202+00 LT.
(ERECT FENCE PRIOR TO COMMENCEMENT OF OTHER WORK IN THIS AREA)

VT GRID

FILL
CUT

MATCH LINE SEE SHEET No. 49

MATCH LINE SEE SHEET No. 53

SB POC STA 2198+2217

SB POST STA 2200+5961

SB PC STA 2190+5961

SB POST STA 2191+9792

SB. POST. STA. 2194+4973

SB. POT STA 2187+3592

NB. POT. STA. 2188 + 4738

NB. PC STA 2193+10.46

NB. POC. STA 2198+00.00

NB. POC. STA 2201+00.00

BM #429 U.S. ELEV. 1612.77

BM #430 U.S. ELEV. 1599.43

BM #431 US ELEV 1626.84

BM 429-A U.S. Elev. 1593.43

BM 430-A U.S. Elev. 1607.30

BM 431-B U.S. Elev. 1657.43

B.M. #428 U.S. ELEV. 1614.36

BM 4-00 U.S. Elev. 1588.24

WOODS

FIELD

BROOK

BRUSH

WOODS & BRUSH

TOWN HIGHWAY #7

GRAVEL ROAD

STONE BOX CULVER

N 25° 12' W

N 21° 18' W

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

PLAN SCALE
0 50 100
100 FEET

STAGE 2 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1 (11) (29)

CONTRACT No. 1

SHEET 51 OF 406
78 263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

✱ DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type) Item 512
NB. 2202+00 – 2206+00 Lt.
SB. 2216+00 – 2217+00 Lt.

PROPERTY LINE FENCE W/ST POSTS ITEM 588 – II MOD
SB. 2202+00 — 2218+00 LT.
(ERECT FENCE PRIOR TO COMMENCEMENT OF OTHER WORK IN THIS AREA)

✱ Three Cable Guard Rail w/Lt. St. Posts Item 538
NB. 2202+00 – 2208+00 Rt.
NB. 2202+00 – 2204+00 Lt.

✱ Standard Steel Beam Guard Rail w/Steel Posts, Item 545-A (6'-3" Spacing)
SB. 2202+00 – 2203+50 Rt.

✱ Treated Timber Curb Item 558
NB. 2202+00 – 2207+50 Rt.
SB. 2203+00 – 2205+50 Rt.

Demolition and Disposal of Building Item 586
NB. 2210+25 Lt. NO 3
NB. 2210+38 LT NO 3A

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA.	STA.	POS.
NORTHBOUND		
2202+00	2218+00	RT.
SOUTHBOUND		
2202+00	2218+00	LT.

Drilling & Blasting of Solid Rock Subgrade, Item 115
SB 2202+00 – 2210+50
SB 2210+75 – 2217+00
NB 2216+50 – 2218+00

SB CURVE DATA
Δ = 38° 07' 40" RT.
D = 1° 15' 00"
R = 458366'
T = 158400'
L = 305022'
E = 26598'
Bank = 9/16" Per Ft.

NB CURVE DATA
Δ = 35° 17' 40" RT.
D = 1° 00' 00"
R = 572958'
T = 182273'
L = 352944'
E = 28294
Bank = 7/16" Per Ft

○ FILL
△ CUT

VT. GRID

SB P.I. STA 2206+43.61 = 2205+25.83
NB P.I. STA. 2211+33.19 = 2210+17.17

SB P.O.C. 2202+50.00
SB P.O.C. STA 2205+84.72
NB P.O.C. 2203+50.00
NB P.O.C. STA 2207+00.00
NB P.O.C. STA 2210+00.00
NB P.O.C. STA 2214+50.00
NB P.O.C. STA 2215+00.00
SB P.O.S.T. 2213+98.23

BM #432 US Elev. 1677.01
BM 433-B U.S. Elev. 1724.66
BM 433-A U.S. Elev. 1691.30
BM #433 US ELEV 1694.88
BM 434-B U.S. Elev. 1729.74
BM 434-D1 U.S. Elev. 1722.63
BM #434 US ELEV 1703.21
PBM #B-87 US ELEV 1676.53

N 25° 12' W
N 12° 55' E
N 21° 18' W
N 14° 00' E

BROOKFIELD
WILLIAMSTOWN
TOWN LINE

SB 2203+50 New 18" x 88' RCP, Class III
SB 2205+00 New 18" x 76' RCP, Class III
SB 2205+50 New 18" x 76' RCP, Class III
SB 2212+00 New 18" x 80' RCP, Class III
SB 2216+25 New 30" x 16' RCP, Class III
SB 2216+50 New 18" x 80' RCP, Class III
SB 2216+50 Construct Interceptor Ditch, Item 105
SB 2216+50 – 2218+00 RT New 24" x 150' RCP, Class III
SB 2205+50 Rt. New 18" x 56' Pipe, CSMP, 16 Ga. or CMAGP, 16 Ga. (Optional)
NB 2201+50 Rt. New 24" x 52' Pipe, CSMP, 16 Ga. or CMAGP, 16 Ga. (Optional)
NB 2204+50 Rt. – 2205+50 Rt. New 8" x 120' ACCGMP, 16 Ga.
NB 2207+12 Rt. New 24" x 128' ACCGMP, 14 Ga.
NB 2208+00 Lt. New 6" x 100' Pipe, Type IL
NB 2210+00 New 8" x 76' RCP, Class III
NB 2210+50 – 2214+00 Lt. New 6" x 350' Underdrain, Type I
NB 2214+00 New 30" x 84' RCP, Class III
NB 2217+50 New 18" x 60' ACCGMP, 16 Ga.
NB 2218+00 New 24" x 60' ACCGMP, 16 Ga.
NB 2208+33
NB 2209+85
SB 2209+85
NB 2210+00 – 2210+50 SB Lt. New 6" x 50' Underdrain, Type I
SB 2210+00 New 6" x 100' Underdrain, Type I
SB 2212+00 New 18" x 80' RCP, Class III
SB 2214+53 New 18" x 80' RCP, Class III
SB 2208+00 Lt. Stone Fill as per Item 512 (Light Type)
SB 2203+50 New 18" x 88' RCP, Class III
SB 2205+50 New 18" x 76' RCP, Class III
NB 2205+15 Lt. (Not Less Than) Construct New Spring Box as Shown on Sheet 58 of 406

PASTURE
WOODS
WOODS & BRUSH
MAPLE TREES
SCATTERED BRUSH
FIELD
WET
SPRING
SUGAR HOUSE
SHED

MATCH LINE SEE SHEET No. 51
MATCH LINE SEE SHEET No. 55

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

STAGE 1 2 CONSTRUCTION

BROOKFIELD – WILLIAMSTOWN
BERLIN
I 89 – 1 (11) (29)
CONTRACT No. 1
SHEET 53 OF 406
80 263

PLAN SCALE
0 50 100
100 FEET

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

IMPERIAL

89

✳ DENOTES STAGE 2 ITEMS

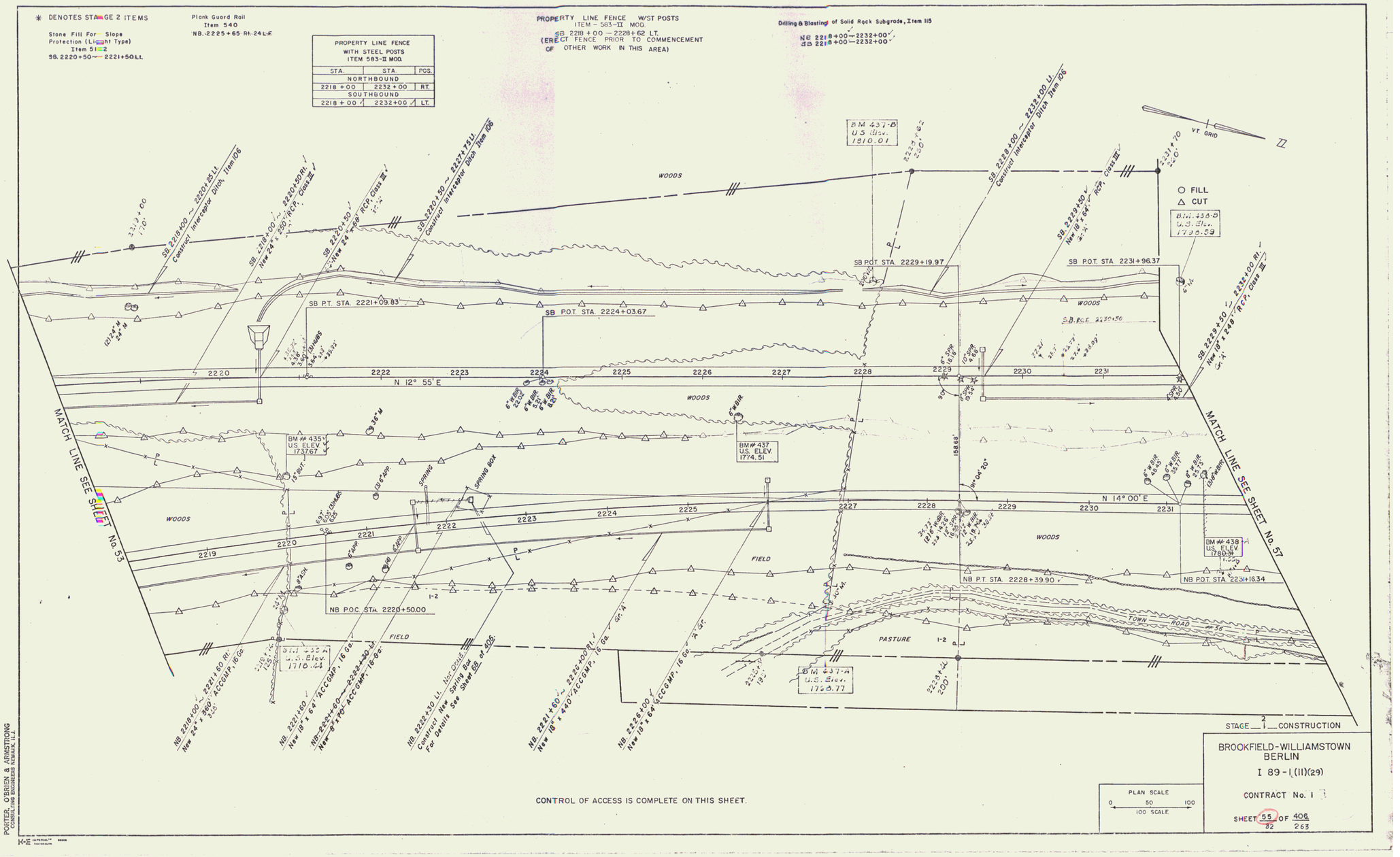
Stone Fill For Slope Protection (Light Type) Item 512
SB. 2220+50 — 2221+50 LT.

Plank Guard Rail Item 540
NB. 2225+65 Rt. 24 L.F.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2218 +00	2232 +00	RT.
SOUTHBOUND		
2218 +00 ✓	2232+00 ✓	LT.

PROPERTY LINE FENCE W/ST POSTS
ITEM – 583–II MOD.
SB 2218 +00 — 2228+62 LT.
(ERECT FENCE PRIOR TO COMMENCEMENT OF OTHER WORK IN THIS AREA)

Drilling & Blasting of Solid Rock Subgrade, Item 115
NB 2218+00—2232+00 ✓
SB 2218+00—2232+00 ✓



CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

STAGE 2 CONSTRUCTION

PLAN SCALE
0 50 100
100 SCALE

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)
CONTRACT No. 1
SHEET 55 OF 406
82 263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

90

✳ DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type) Item 512
SB 2233+50 ~ 2234+00 Lt.

Plank Guard Rail Item 540
NB 2234+75 Rt. 40 LF

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 563-II MKD.

STA.	STA.	POS.
NORTHBOUND		
2232+00	2247+00	RT.
SOUTHBOUND		
2232+00	2247+00	LT.

Drilling & Blasting of Solid Rock Subgrade, Item 115
SB 2232+00 — 2242+68.25
SB 2244+50 — 2246+00
NB 2234+00 — 2244+25
NB 2246+75 - 2247+00

FILL
CUT

SB 2232+00 ~ 2234+00 Lt. Construct Interceptor Ditch, Item 106
SB 2232+00 ~ 2234+00 Rt. New 18" x 200' RCP, Class III
SB 2234+00 ~ 2238+00 Rt. New 24" x 400' RCP, Class III
SB 2234+25 ~ 2238+75 Lt. Construct Interceptor Ditch, Item 106
SB 2238+00 New 18" x 64' RCP, Class III
SB 2238+00 ~ 2242+00 Rt. New 24" x 400' RCP, Class III
SB 2241+50 ~ 2242+00 Rt. New 18" x 80' RCP, Class III
SB 2242+00 ~ 2245+20 Rt. New 18" x 320' RCP, Class III
SB 2242+00 New 6" x 8' Underdrain Type I
SB 2245+20 New 36" x 86' ACCGMP, 16 Ga.
SB 2245+50 New 6" x 78' Underdrain Type I

BM # 439-B U.S. Elev. 1762.95
BM # 439 U.S. ELEV. 1758.88
BM # 439-A U.S. Elev. 1729.72
BM # 440 U.S. ELEV. 1698.71
BM # 440-A U.S. Elev. 1697.87
PBM # B-88 U.S. ELEV. 1726.02

SB POT STA 2236+26.85
SB POT STA 2240+31.24
SB PC STA 2243+71.95
SB POC STA 2246+50.00
NB PC STA 2239+51.36
NB POC STA 2243+00.00
NB POC STA 2246+50.00

N 12°55'E
N 14°00'E

WOODS
BRUSH
TOWN ROAD # 56

NB 2231+50 ~ 2233+00 Lt. New 18" x 150' ACCGMP, 16 Ga.
NB 2233+50 ~ 2234+00 Lt. New 6' x 40' Underdrain Type I
NB 2233+00 ~ 2237+00 Lt. New 18" x 400' ACCGMP, 16 Ga.
NB 2237+00 ~ 2241+00 Lt. New 24" x 400' ACCGMP, 16 Ga.
NB 2237+00 ~ 2241+00 Lt. New 6" x 8' Underdrain Type I
NB 2241+00 New 18" x 62' ACCGMP, 16 Ga.
Lt. NB 2241+00 ~ 2242+00.98 Rt. New 18" x 62' ACCGMP, 16 Ga. w/24" CORUGATED METAL FLARE END SECTION W/ ALL 30 BARS
NB 2241+50 ~ 2245+50 Lt. New 6" x 400' Underdrain Type I
NB 2241+50 ~ 2245+50 Rt. New 6" x 400' Underdrain Type I
NB 2245+50 ~ 2247+00 Rt. New 6" x 150' Underdrain Type I
NB 2245+50 ~ 2247+00 Rt. New 36" x 150' ACCGMP, 16 Ga.
NB 2246+00 ~ 2247+00 Rt. New 18" x 100' ACCGMP, 16 Ga.
NB 2246+00 ~ 2247+00 Rt. New 6" x 100' Underdrain, Type I

MATCH LINE SEE SHEET No. 55
MATCH LINE SEE SHEET No. 59

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

STAGE 2 — 1 — CONSTRUCTION

BROOKFIELD - WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 1

SHEET 57 OF 405
84 263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

91

* DENOTES STAGE 2 ITEMS

DRILLING & BLASTING OF SOLID ROCK SUBGRADE
ITEM 115
NB 2247+00 - 2248+00

* Three Cable Guard Rail w/Lt. St. Posts Item 538
NB. 2261+50 - 2262+00 Lt.
SB. 2257+50 - 2262+00 Lt.

* Treated Timber Curb Item 558
NB 2261+85 - 2262+00 Lt.
SB 2258+00 - 2262+00 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2247+00	2262+00	RT.
SOUTHBOUND		
2246+00	2262+00	LT.

SB. CURVE DATA
Δ = 21° 17' 20" LT.
D = 1° 00' 00"
R = 5729.58'
T = 1076.86'
L = 2128.89'
E = 100.32
Bank = 5/16" Per Ft.

N.B. CURVE DATA
Δ = 20° 57' 40" LT.
D = 0° 30' 00"
R = 11459.16'
T = 2119.81'
L = 4192.22'
E = 194.42'
Bank = 1/4" Per Ft.

V.T. GRID

○ FILL
△ CUT

B.M. 442-B U.S. Elev. 1671.41
B.M. #442 U.S. ELEV 1672.21
B.M. #443 U.S. ELEV 1646.79
B.M. #444 U.S. ELEV 1614.91
B.M. 111-A U.S. Elev. 1885.18
B.M. 113-A U.S. Elev. 1951.18
B.M. 113.6 U.S. Elev. 7/16
B.M. 111-B-1 U.S. Elev. 1928.44
B.M. 444-B U.S. Elev. 1599.61
B.M. 445-A U.S. Elev. 1609.72
B.M. 445-A-1 U.S. Elev. 1801.62
B.M. 445-A U.S. Elev. 1928.96

SB. POC. STA. 2249+0000
SB. POST STA. 2253+9904
SB. POC. STA. 2252+0000
SB. PI STA. 2254+4881 = 2254+2398
SB. POC. STA. 2254+3639
SB. POC. STA. 2256+5000
SB. POST STA. 2257+6191
SB. POC. STA. 2259+5000
SB. POST STA. 2261+9401

NB. POC. STA. 2249+5000
NB. POC. STA. 2252+5000
NB. POC. STA. 2254+00
NB. POC. STA. 2257+50.00
NB. POC. STA. 2260+4747
NB. PI STA. 2260+7117 = 2260+2377

N 12° 55' E
N 8° 22' W
N 14° 00' E
N 6° 58' W

MATCH LINE SEE SHEET No. 57
MATCH LINE SEE SHEET No. 61

WOODS
BROOK
WET
SPRING
SCATTERED BRUSH
Dike

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

PLAN SCALE
0 50 100
100 FEET

STAGE 2 — 1 — CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 1

SHEET 59/86 OF 406/263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

92

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type) Item 512
NB. 2272 + 58 – 2272+93 Rt.
SB. 2275 + 69 – 2275+92 Rt.
SB. 2273 + 50 – 2275+00 Rt.
NB. 2270 +00 – 2274+50 Lt.

* Three Cable Guard Rail w/Lt.St. Posts Item 538
NB. 2269+45 – 2276+00 Rt.
NB. 2262+00 – 2265+50 Lt.
~~SB. 2264+98 – 2268+98 Rt.~~
SB. 2262+00 – 2269+98 Lt.

* Standard Steel Beam Guard Rail w/Steel Posts (6'-3" Spacing) Item 545-A
NB. 2270+88 – 2276+00 Lt.
SB. 2272+09 – 2276+00 Rt.
SB. 2271+94 – 2276+00 Lt.

* Treated Timber Curb Item 558
NB. 2262+00 – 2264+50 Lt.
NB. 2271+00 – 2276+00 Lt.
SB. 2266+60 – 2268+50 Rt.
SB. 2272+08 – 2276+00 Rt.
SB. 2262+00 – 2269+50 Lt.
SB. 2272+08 – 2276+00 Lt.

* CONSTRUCT U-TURN
2269+50 SB Rt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA.	STA	POS.
NORTHBOUND		
2262+00	2276+00	RT.
SOUTHBOUND		
2262+00	2276+00	LT.

MATCH LINE SEE SHEET No. 59

MATCH LINE SEE SHEET No. 63

SB. POC STA. 2262+00.00

SB. PT STA. 2265+00.84

SB. POT STA. 2271+40.93

SB. POT STA. 2275+44.79

BM #445
U.S. ELEV.
1593.00

BM #446
U.S. ELEV.
1574.24

BM #447
U.S. ELEV.
1537.21

BM #447-A
U.S. Elev.
1522.08

BM #447-B
U.S. Elev.
1589.13

BM #447-B
U.S. Elev.
1513.09

BM #447-B
U.S. Elev.
1531.44

PBM #B-89
US ELEV
1592.29

NB. POC. STA. 2267+00.00

NB. POC. STA. 2269+50.00

NB. POC. STA. 2273+00.00

N 8° 22' W

N 6° 58' W

WOODS

SCATTERED BRUSH

WOODS & BRUSH

WET

FILL

CUT

LOGGING ROAD

BROOK

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

STAGE 2 / 1 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)$_0$(29)

CONTRACT No. 1

SHEET 61 OF 105
88 263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

93

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Heavy Type) Item 511
NB. 2285+00~2285+50 Rt.

Stone Fill For Slope Protection (Light Type) Item 512
SB. 2277+83~2278+05 Lt.

Plank Guard Rail Item 540
NB. 2280+35 Rt. ~ 15 L.F.
SB. 2284+40 Lt. ~ 6 L.F.

* Three Cable Guard Rail w/ Lt. St. Posts Item 538
NB. 2276+00~2276+99 Rt.

* Treated Timber Curb Item 558
NB. 2276+00~2281+75 Lt.
SB. 2276+00~2281+00 Rt.
SB. 2276+00~2276+76 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA.	STA.	POS.
NORTHBOUND		
2276+00	2290+00	RT.
SOUTHBOUND		
2276+00	2290+00	LT.

Drilling & Blasting of Solid Rock, Item 114
NB 2283+50—2285+00

* Standard Steel Beam Guard Rail w/ Steel Posts (6'-3" Spacing) Item 545-A
NB. 2276+00~2290+00 Lt.
SB. 2276+00~2282+67 Rt. & SB. 2284+94 Lt.

○ FILL
△ CUT

BM 448-B U.S. Elev. 1473.81

SB P.C. STA 2278+30.57

SB P.O.S.T. STA 2281+17.57

SB P.O.S.T. STA 2281+94.96

SB P.O.S.T. STA 2285+06.71

BM 449-B U.S. Elev. 1492.31

SB P.O.S.T. STA 2285+68.93

SB P.O.S.T. STA 2289+43.84

SB P.O.C. STA 2280+50.00

SB P.O.C. STA 2282+00.00

SB P.O.C. STA 2286+50.00

SB P.O.C. STA 2289+00.00

SB 2278+80' @ 58° Lt.
New 6" x 320' Pipe, Typ. 2 Lt. & 1 Rt.
6" x 160' Pipe, Typ. 2 Lt. at 72" Pipe

SB 2286+80 Rt. L=2286+87 Lt.
New 36" x 174' ACCOMP, 12 Ga.

N 8° 22' W

N 6° 58' W

BM 448-A U.S. Elev. 1493.00

BM #448 U.S. ELEV 1504.94

BM #449 U.S. ELEV 1504.74

BM 449-B2 U.S. Elev. 1496.15

BM 449-A U.S. Elev. 1532.17

BM 449-A1 U.S. Elev. 1531.64

WOODS

BROOK

Grade to Drain

WET

TOWN ROAD #50

(GRAVEL ROAD)

VT. GRID

MATCH LINE SEE SHEET No. 61

MATCH LINE SEE SHEET No. 65

NB P.O.C. STA 2276+50.00

NB P.T. STA 2281+43.58

NB P.O.T. STA 2282+84.84

NB P.C. STA. 2285+32.84

NB P.O.C. STA 2289+00.00

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

STAGE 2 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 1

SHEET 63 OF 405
90 263

PLAN SCALE
0 50 100
100 FEET

94

* DENOTES STAGE 2 ITEMS

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2290+00	2294+00	RT.
SOUTHBOUND		
2290+00	2295+00	LT.

* Standard Steel Beam Guard Rail w/Steel Posts (6'-3" Spacing) Item 545-A, Type 5
NB. 2290+00 ~~2294+00~~ Lt.

SB CURVE DATA
Δ = 32° 25' 20" ✓
D = 1° 15' 00" ✓
R = 4583.66' ✓
T = 1332.64' ✓
L = 2593.78' ✓
E = 189.79' ✓
BANK = ~~7/16~~ 9/16" PER FT.

SB P.I. STA. 2291+63.21* ✓
2290+91.71 ✓

BM #451-B1 U.S. Elev. 1460.36

PBM #B-B10 US ELEV. 1506.22

SB P.O.C. STA. 2291+27.46

END ACCELERATION LANE SB. STA. 2293+26.05 LT.

SB 2293+50 ✓ 2295+00 RT. Cap Adj. 1.059 Tan. 24" x 50' Extended 15' ~~24"~~ 24" CMP ~~CMP~~ CMCP ✓ 2 CMCP ✓ connect

SB 2293+00 ✓ 12" Nor. 42' x 136" ACCOMP. 12 Ga. Energy Dissipator @ Outlet

BROKEN DISC SET IN LEDGE

N 24° 03' E

PINE SEEDLINGS

END CONTRACT NO. 1	BEGIN CONTRACT NO. 2
NB. STA. 2294+00.00	NB. STA. 2294+00.00
SB. STA. 2295+00.00	SB. STA. 2295+00.00

VT. GRID

○ FILL
△ CUT

WOODS

BM #450 U.S. ELEV. 1490.00

SB P.O.C. STA. 2294+00.00

BM #451 U.S. ELEV. 1493.92

NB P.I. STA. 2295+13.77*
2294+72.28 ✓

SB P.T. STA. 2304+24.35 ✓

FIELD

TREES

MATCH LINE SEE SHEET No. 63

BM #451-A1 U.S. Elev. 1512.35

N 6° 58' W

NB 2293+00 ✓ 12" Nor. 42' x 136" ACCOMP. 14 Ga. ✓ Energy Dissipator @ Outlet

NB 2293+00 ~~2294+00~~ ✓ 10 Ga. Nor. 6'-6" x 150' Ga. Type II 6'x 50' pipe, Type II

NB P.O.C. STA 2293+50.00

BM #451-A U.S. Elev. 1512.05

N 21° 50' E

NB P.T. STA. 2304+53.21 ✓

NB CURVE DATA
Δ = 28° 48' 20" ✓
D = 1° 30' 00" ✓
R = 3819.72' ✓
T = 980.93' ✓
L = 1920.37' ✓
E = 123.95' ✓
BANK = ~~1/2~~ 5/8" PER. FT.

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

STAGE 2 CONSTRUCTION
BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)
CONTRACT No. 1
SHEET 65/92 OF 406/263

PLAN SCALE
0 50 100
100 FEET

95

Brookfield-Williamstown-Berlin I 89-1(11) Contract #2

Stations NB 2494 — 2493
SB 2295 — 2495

Construction Plans

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT

INTERSTATE PROJECT

TOWNS OF BROOKFIELD, WILLIAMSTOWN, AND BERLIN
COUNTIES OF ORANGE AND WASHINGTON
INTERSTATE ROUTE 89
WHITE RIVER JCT. – MONTPELIER

CONTRACT 2

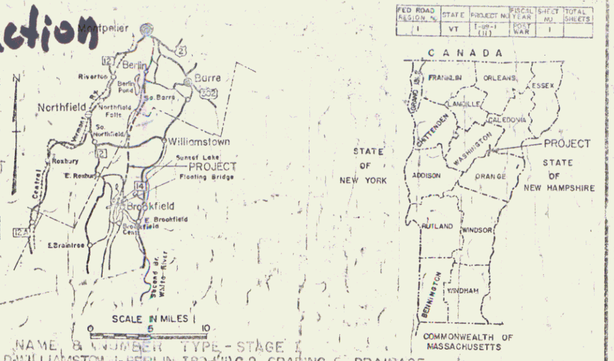
BEGINNING AT A POINT IN WILLIAMSTOWN APPROXIMATELY 1.618 MILES NORTHERLY OF THE BROOKFIELD WILLIAMSTOWN TOWN LINE AND
EXTENDING NORTHERLY FOR A DISTANCE OF 3.762 MILES
LENGTH OF ROADWAY 19,723.52 FEET = 3.735 MILES
LENGTH OF BRIDGE 141.02 FEET = 0.027 MILES
LENGTH OF CONTRACT 19,864.54 FEET = 3.762 MILES
ELEVATION DATUM 1929 ADJ.

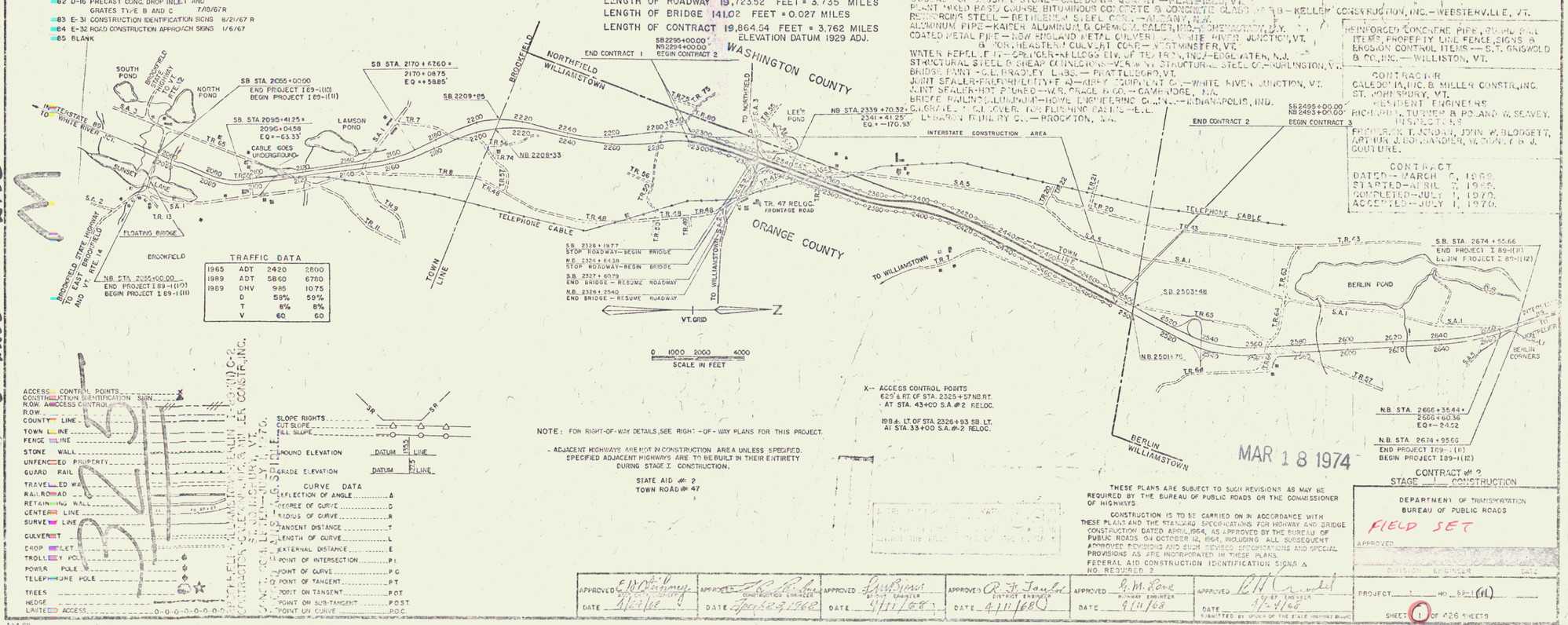
FED ROAD PROJECT NO.	STATE PROJECT NO.	MISCEL. PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	VT	I-89-1 (11)	ROW WAR	1

PROJECT NAME & NUMBER TYPE - STAGE
BROOKFIELD-WILLIAMSTOWN-BERLIN I 89-1(11)C-2 GRADING & DRAINAGE
RECORD PLANS

INDEX OF SHEETS

1 TITLE SHEET
2 ALIGNMENT DATA SHEET
3-4 TYPICAL SHEETS, MAINLINE
5 TYPICAL SHEET, RE-LOCATED SA-2 (WILLIAMSTOWN INTERCHANGE) AND ONE-WAY RAMP TYPICALS
6-7 QUANTITY SHEETS
8-13 DRAINAGE SHEETS
14-25 EARTHWORK AND GRADE SHEETS
25a-25f ROW DETAILS SHEETS
26-58 PLAN AND PROFILE SHEETS
59-62 LAYOUT AND GRADE SHEETS, RELOC.SA2, Wmstn. Inter.
63a,b TRAFFIC SIGN LOCATION SHEET, TR.SIGN & DELIN. SHEET
63-64 DRAINAGE DETAIL SHEETS
65 A-60 SOLID ROCK EXCAVATION 12/21/67 R
65a A-61 SOLID ROCK EXCAVATION 8/7/67R
66 B-1 BANKING TABLES 7/17/67R
67 B-5 TYPICAL SLOPE GRADING 3/10/65
68 BLANK
69 B-10 EMBANKMENT ON A SLOPE 3/10/65
70 B-11 USE OF UNDERDRAIN IN ROCK 3/10/65
70a B-15 ENTRANCE AND EXIT TERMINAL 7/21/67 R
70b B-16 DIVISIONAL ISLANDS-STOR. LANE 7/21/67 R
71 C-1 CURBS 10/23/68
72 C-1a CURBS 3/10/65
73 D-2 HEADWALLS 7/25/67R
74 D-3 GUTTERS 7/19/67 R
75 D-4 ELBOWS AND FLUSHING BASINS 12/4/68R
76 D-13 CATCH BASIN 3/10/65
77 D-6 DROP INLET FOR USE IN DITCHES 12/23/66
78 D-8 DROP INLETS 3/10/65
79 D-9 REINFORCED CONCRETE DROP INLET TOP WITH REINFORCED CONCRETE THROAT ADAPTER 3/10/65
80 D-10 DROP INLET TOPS 3/10/65
81 D-11 DETAILS OF GRATES AND COVERS 3/10/65
82 D-16 PRECAST CONC. DROP INLET AND GRATES TYPE B AND C 7/8/67R
83 E-31 CONSTRUCTION IDENTIFICATION SIGNS 8/21/67 R
84 E-32 ROAD CONSTRUCTION APPROACH SIGNS 1/6/67
85 BLANK
86 E-34 ON-PROJECT CONSTRUCTION SIGNS 5/3/67R
87 F-1 PROPERTY LINE FENCE 11/29/67 R
88 BLANK
89 G-6 THREE CABLE GUARDRAIL W/LIGHT STEEL POSTS 3/21/68 R
90 BLANK
91 G-4 PLANK GUARD RAIL AND MARKER POSTS 12/30/65R
92 J-1 PROJECT AND BOUNDARY MARKERS 3/10/65
93 BLANK
94 CULVERT DETAILS 84"x 400' CGMPP AT NB 2332+96 RT. TO SB 2335+37 LT.
95 CULVERT DETAILS 72"x 218' CGMPP AT RELOCATED SA-2 46+00 LT. TO 47+75 RT
96 CULVERT DETAILS 72"AND 84" CGMPP MISCELLANEOUS DETAILS AND TABULATIONS
97-120 BRIDGE DETAILS 1-89 OVER RELOCATED EA-2 (BR100-124)
121-123 SCB-D1,02,06-67 ALL 1/24/68
124 BLANK
125 SB-R1-64 1-31-68 R
125a SB-R1-64 11/8/66 R
126 SB-R2-65 11/8/66 R
127-156 NORTHBOUND CROSS SECTIONS (2294+00-2339+50)
157-185 SOUTHBOUND CROSS SECTIONS (2295+00-2341+00)
186-205 COMBINED NB & SB CROSS SECTIONS (NB 2339+70.32+ — 2368+47.24) (SB 2341+41.25 — 2368+47.24)
206-282 NORTHBOUND CROSS SECTIONS (2369+00-2493+00)
283-361 SOUTHBOUND CROSS SECTIONS (2369+00-2495+00)
362 RELOCATED SA-2 (WILLIAMSTOWN INTERCHANGE) KEY TO CROSS SECTIONS
363-382 RELOCATED SA-2 (WILLIAMSTOWN INTERCHANGE) CROSS SECTIONS
383 RELOCATED T-47 TYPICAL SECTION & CROSS SECTIONS
384-392 RAMP "A" (WILLIAMSTOWN INTERCHANGE) CROSS SECTIONS
393-401 RAMP "B" (WILLIAMSTOWN INTERCHANGE) CROSS SECTIONS
402-418 RAMP "C" (WILLIAMSTOWN INTERCHANGE) CROSS SECTIONS
419-426 RAMP "D" (WILLIAMSTOWN INTERCHANGE) CROSS SECTIONS
426c-426e FRONTAGE ROAD, T-47





TRAFFIC DATA

1965	ADT	2420	2800
1989	ADT	5860	6780
1989	DHV	985	1075
	D	58%	59%
	T	8%	8%
	V	60	60

0 1000 2000 4000
SCALE IN FEET

NOTE: FOR RIGHT-OF-WAY DETAILS, SEE RIGHT-OF-WAY PLANS FOR THIS PROJECT.

- ADJACENT HIGHWAYS ARE NOT IN CONSTRUCTION AREA UNLESS SPECIFIED. SPECIFIED ADJACENT HIGHWAYS ARE TO BE BUILT IN THEIR ENTIRETY DURING STAGE 2 CONSTRUCTION.

STATE AID #: 2
TOWN ROAD #: 47

X-- ACCESS CONTROL POINTS
629'± RT. OF STA. 2325+57 NB RT.
AT STA. 43+CO S.A.#2 RELOC.

199'± LT. OF STA. 2326+93 SB LT.
AT STA. 33+00 S.A.#2 RELOC.

MATERIALS

SUBBASE OF GRAVEL & GRAVEL BACKFILL — CARPENTER-LAGALLADE PIT — WILLIAMSTOWN, VT.
SUBBASE OF CRUSHED STONE — CALEDONIA QUARRY — PLAINFIELD, VT.
PLANT MIXED BASE, COURSE BITUMINOUS CONCRETE & CONCRETE CLASS A & B — KELLER CONSTRUCTION, INC. — WEBSTERVILLE, VT.
REINFORCING STEEL — BETHLEHEM STEEL CORP. — ALTOONA, PA.
ALUMINUM PIPE — KAISER ALUMINUM & CHEMICAL SALES, INC. — CHEMATOX, PA.
COATED METAL PIPE — NEW ENGLAND METAL CULVERT CO. — WHITE RIVER JUNCTION, VT.
REINFORCED CONCRETE PIPE, DROP INLET ITEMS, PROPERTY LINE FENCE, SIGNS & EROSION CONTROL ITEMS — S.T. GRISWOLD & CO., INC. — WILLISTON, VT.
WATER REPELLENT — SPENCER-KELLOGG DIV. OF TEXTRON, INC. — EDGEWATER, N.J.
STRUCTURAL STEEL & SHEAR CONNECTORS — VERMONT STRUCTURAL STEEL CO. — BURLINGTON, VT.
BRIDGE PAINT — C.E. BRADLEY LABS. — BRATTLEBORO, VT.
JOINT SEALER-PREFORMED (TYPE A) — ABEY EQUIPMENT CO. — WHITE RIVER JUNCTION, VT.
JOINT SEALER-HOT POURED — W.R. GRACE & CO. — CAMBRIDGE, MA.
BRIDGE RAILING (ALUMINUM) — HOWE ENGINEERING CO., INC. — INDIANAPOLIS, IND.
BEARING PADS — L.E. BARON RUBBER CO. — BROCKTON, MA.

CONTRACTOR
CALEDONIA, INC. & MILLER CONSTR., INC.
ST. JOHNSBURY, VT.

RESIDENT ENGINEERS
RICHARD L. TURNER & ROLAND W. SEAVEY.

INSPECTORS
FRANK R. T. JONAH, JOHN W. BLODGETT, ARTHUR J. BOURDANIER, W. CONLEY & J. COUTURE.

CONTRACT
DATED — MARCH 6, 1969.
STARTED — APRIL 2, 1969.
COMPLETED — JULY 1, 1970.
ACCEPTED — JULY 1, 1970.

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER OF HIGHWAYS.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION DATED APRIL, 1964, AS APPROVED BY THE BUREAU OF PUBLIC ROADS ON OCTOBER 12, 1964, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INDICATED IN THESE PLANS.

FEDERAL AID CONSTRUCTION IDENTIFICATION SIGNS 4
NO. REQUIRED 3

MAR 18 1974

CONTRACT # 2
STAGE 1 CONSTRUCTION

DEPARTMENT OF TRANSPORTATION
BUREAU OF PUBLIC ROADS

FIELD SET

APPROVED _____
DIVISION ENGINEER DATE

PROJECT I 89-1(11)
SHEET 1 OF 426 SHEETS

APPROVED	APPROVED	APPROVED	APPROVED	APPROVED	APPROVED
E.B. Mudgett	R.R. Black	Lin Byers	R. H. Taylor	R.M. Lane	R.H. Crandall
STATE HIGHWAY ENGINEER	STATE AID ENGINEER	ASST. DIST. ENGINEER	DISTRICT ENGINEER	HIGHWAY ENGINEER	CHIEF ENGINEER
DATE 4/11/68	DATE April 23, 1968	DATE 4/11/68	DATE 4/11/68	DATE 4/11/68	DATE 4-4-68

SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

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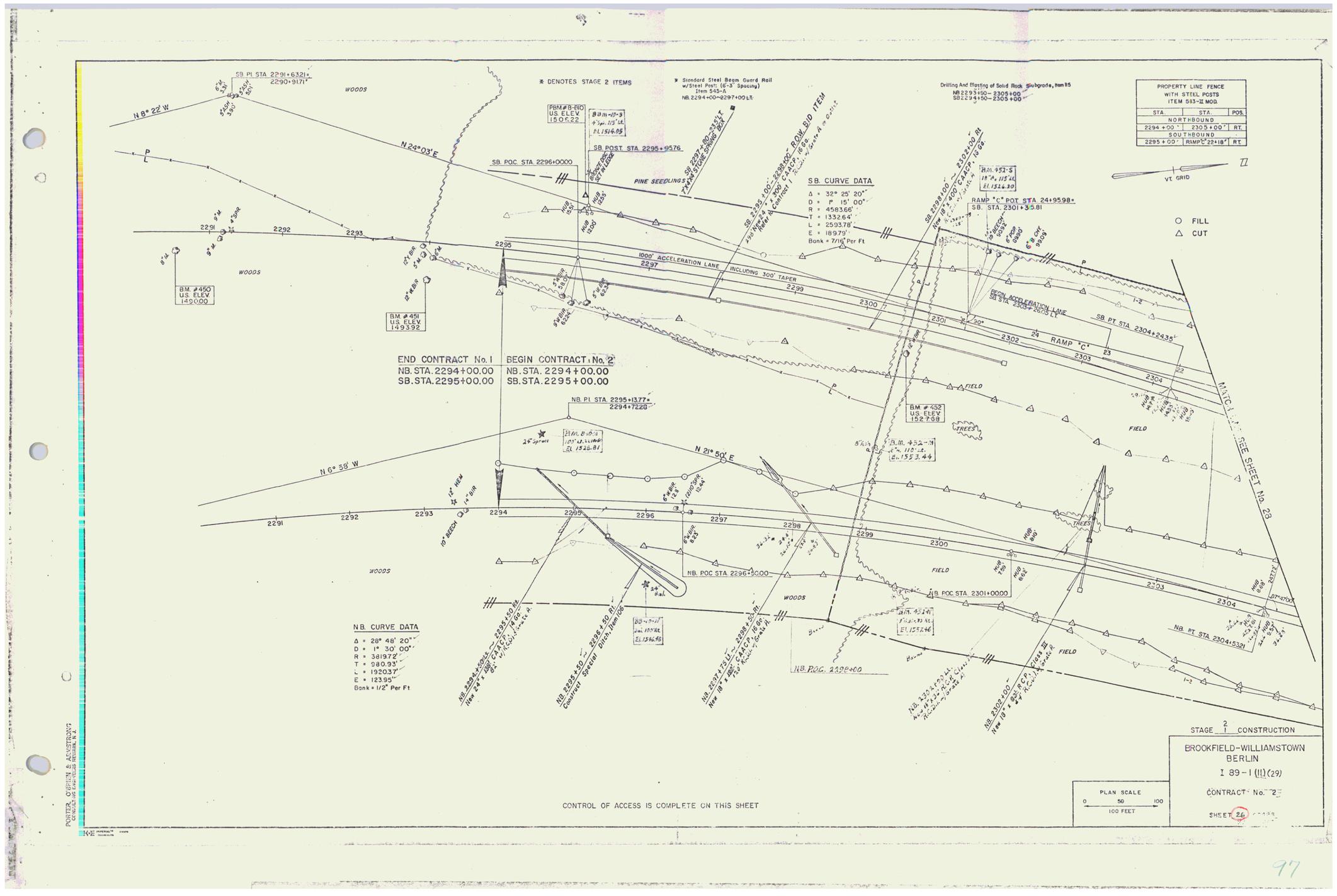
* DENOTES STAGE 2 ITEMS
* Standard Steel Beam Guard Rail w/Steel Posts (6'-3" Spacing) Item 545-A NB 2294+00-2297+00 Lt.
Drilling And Blasting of Solid Rock Subgrade, Item 85 NB 2293+50 - 2305+00 SB 2294+50 - 2305+00
PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.
STA. | STA. | POS.
NORTHBOUND
2294+00 | 2305+00 | RT.
SOUTHBOUND
2295+00 | RAMP "C" 22+18 | RT.
SB PI STA 2291+632.1
2290+91.71
N 8° 22' W
N 24° 03' E
N 6° 58' W
N 21° 50' E
WOODS
FIELD
TREES
SB POC STA 2296+0000
SB POST STA 2295+9576
PINE SEEDLINGS
SB 2297+80 - 2295+35 Lt. 7"x14" STONE SPIKE BOX
SB 2295+00 - 2298+00 ROW BID ITEM
New 18"x24" x 300' CAASP, 16 Ga. Reinforced Contour Plate w/Spiral Rib Metal Conforming to AASHTO M-167
SB 2298+00 - 2302+00 RH
New 18"x 300' CAASP, 16 Ga.
SB CURVE DATA
Δ = 32° 25' 20"
D = 1° 15' 00"
R = 4583.66'
T = 1332.64'
L = 2593.78'
E = 189.79'
Bank = 7/16" Per Ft.
RAMP "C" POT STA 24+95.98
SB STA 2301+35.81
BEGIN ACCELERATION LANE SB STA 2303+26.05 Lt.
SB PT STA 2304+24.35
1000' ACCELERATION LANE INCLUDING 300' TAPER
RAMP "C"
MAINTENANCE
SEE SHEET No. 28
BM #450 US ELEV 149.000
BM #451 US ELEV 149.392
BM #452 US ELEV 152.768
BM #452-N El. 155.3.44
BM #452-M El. 155.2.46
BM #452-S El. 152.4.30
PBM #B-BRO US ELEV 150.622
BBm-10-3 4" Spr. 11.5' Lt. El. 151.4.05
BBm-10-4 El. 146.48
BBm-B-10-A 10.5" Lt. Witness El. 132.8.81
END CONTRACT No. 1
NB STA. 2294+00.00
SB STA. 2295+00.00
BEGIN CONTRACT No. 2
NB STA. 2294+00.00
SB STA. 2295+00.00
NB PI STA 2295+13.77
2294+72.26
NB POC STA 2296+50.00
NB POC STA 2301+00.00
NB POC STA 2298+00
NB PT STA 2304+53.21
NB 2294+50±LT - 2295+50 RT New 24" x 108' CAASP, 8 Ga. R.C.S.P. Type IV
NB 2296+50± Rt. - 2296+50 Rt. Construct Special Ditch, Item 106
NB 2297+73 Lt. - 2298+50 Rt. New 18" x 108' CAASP, 16 Ga. R.C.S.P. Type IV
NB 2300+00 Lt. - 2300+00 Rt. New 18" x 22" RCP, Class III R.C.S.P. Type A
NB 2302+00 - New 18" x 82' RCP, Class III R.C.S.P. Type A
NB CURVE DATA
Δ = 28° 48' 20"
D = 1° 30' 00"
R = 3819.72'
T = 980.93'
L = 1920.37'
E = 123.95'
Bank = 1/2" Per Ft.
FILL
CUT
VT GRID
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
PLAN SCALE
0 50 100
100 FEET
STAGE 2 / 1 CONSTRUCTION
BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)
CONTRACT No. 2
SHEET 26
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS
BRATTLEBORO, VERMONT, N.H.

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✱ DENOTES STAGE 2 ITEMS

✱ Three Cable Guard Rail w/ Light Steel Posts, Item 538
SB 2311+05~2320+00 Lt

✱ Jute Matting Item 623
✱ NB 2314+00~2318+00 Rt.
✱ NB 2314+00~2318+00 Lt.
✱ SB 2315+00~2320+00 Rt.
Ramp C 8+00~9+00 Rt.
~~Ramp C 8+00~16+00 Lt~~

NOTE: POSSIBLE GRAVES
PARCEL NO. 22 RAMP "C" 12+00~14+70 RT. (50'~150' OFFSET)
CONTRACTOR TO EXERCISE DUE CARE DURING CONSTRUCTION
AND IF BODY IS FOUND, DUE PROCESS OF LAW IS TO BE FOLLOWED.
(REFER TO SPECIAL AGREEMENTS)

Treated Timber Curb Item 558
SB 2310+97 ~ 2310+00 LL

Drilling And Blasting of Solid Rock Subgrade, Item 115
NB 2305+00~2318+00
SB 2305+00~2320+00
15+23

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2305+00	2318 +00	RT.
SOUTHBOUND		
RAMP "C" 22+18	RAMP "C" 5+95	RT.

PBM #8-BII
U.S. ELEV.
1470.81

○ FILL
△ CUT

RAMP "C" POT STA. 21+2664
SB. POT STA. 2305+2308
SB. POT STA. 2306+3733
SB. POT STA. 2311+00.00
SB POT STA 2312+5023
RAMP "C" POT STA. 14+3126
RAMP "C" POT STA. 9+5000
SB POT STA 2318+4093
BEGIN DECELERATION LANE
NB. STA. 2314+40.00 RT.
NB. POT STA. 2316+5772
NB. POT STA. 2308+8620
RAMP A

WOODS
FIELD
HOUSE FDN.
DR
P L
I-2
N 20°27'E
N 24°03'E
N 21°50'E
RAMP "C"

BM. #453
U.S. ELEV.
1525.22

B.M. #453-M
PK. NAIL
EL. 1546.92

B.M. #454
U.S. ELEV.
1510.67

B.M. #454-M
EL. 1515.05

B.M. #453-M
EL. 1571.30

MATCH LINE SEE SHEET No. 26

MATCH LINE SEE SHEET No. 30

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

STAGE 2 CONSTRUCTION

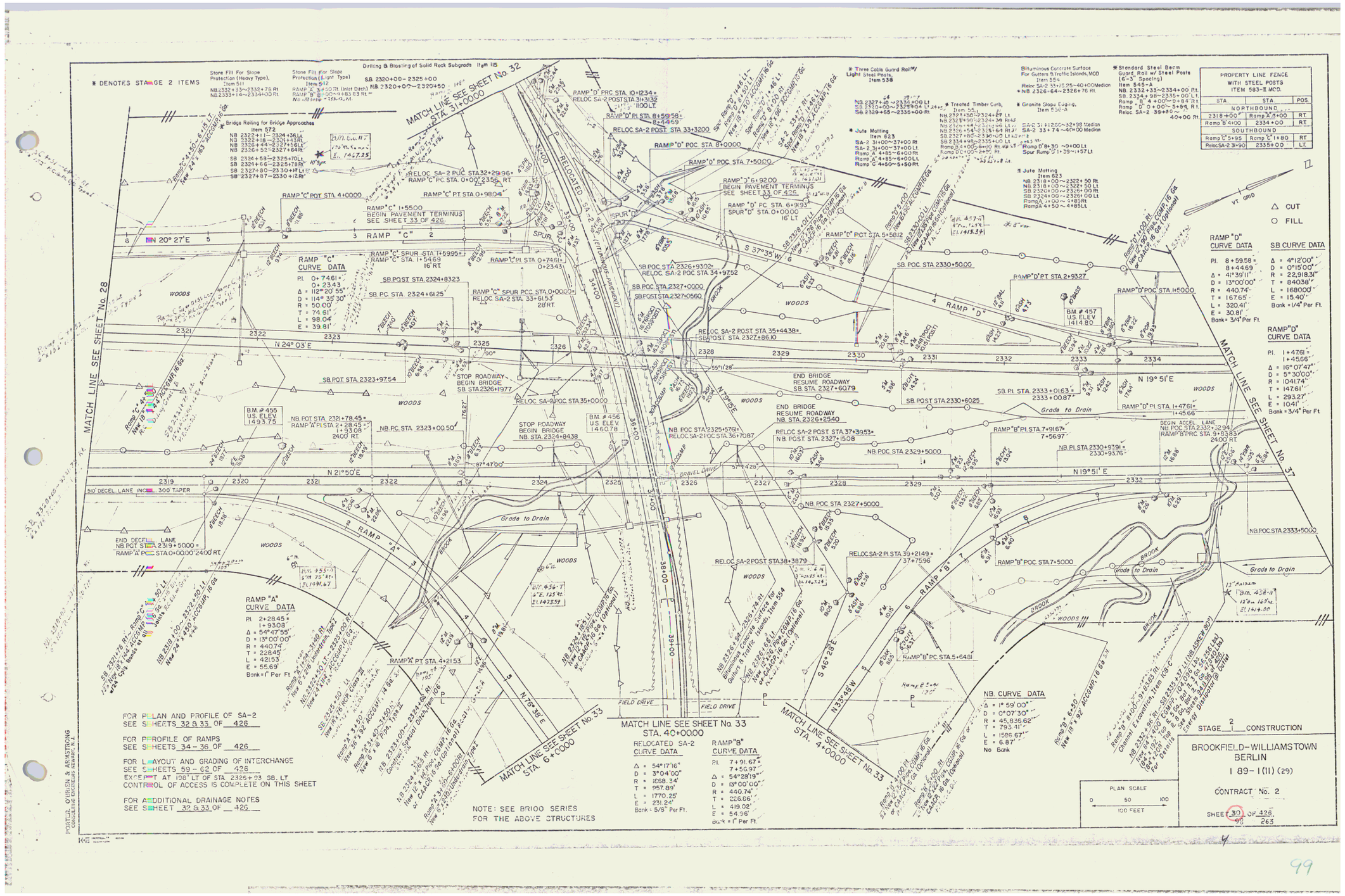
BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1 (11) (29)

CONTRACT No. 2

SHEET 28 OF 426
56 265

PORTER, OSGOOD & ARMSTRONG
CIVIL ENGINEERS AND SURVEYORS
MONTPELIER, VERMONT

98


* DENOTES STAGE 2 ITEMS
Stone Fill For Slope Protection (Heavy Type), Item 511
NB 2332+33~2332+78 Rt
NB 2333+14~2334+00 Rt.
Stone Fill For Slope Protection (Light Type) Item 512
RAMP "A" S-SOR Rt. (Inlet Ditch)
RAMP "B" S-00~4+83.83 Rt ~
Drilling & Blasting of Solid Rock Subgrade Item 115
SB 2320+00~2325+00
NB 2320+00~2320+50
Bridge Railing for Bridge Approaches Item 572
NB 2322+11~2324+36 Lt
NB 2322+18~2301+43 Rt
NB 2326+44~2327+68 Lt
NB 2326+52~2327+64 Rt
SB 2326+58~2325+70 Lt
SB 2324+66~2325+78 Rt
SB 2327+80~2330+91 Lt
SB 2327+87~2330+12 Rt
MATCH LINE SEE SHEET No. 32 STA. 31+0000
RAMP "D" PRC STA. 10+1234 = RELOC SA-2 POST STA 31+3132 1100 Lt.
RAMP "D" PI STA. 8+59.58 = 8+44.69
RELOC SA-2 POST STA 33+3200
RAMP "D" POC STA. 8+0000
RAMP "D" POC STA 7+5000
RAMP "D" 9+9200 BEGIN PAVEMENT TERMINUS SEE SHEET 33 OF 426
RAMP "D" PC STA 6+9.93
SPUR "D" STA. 0+0000 16' LT
RAMP "D" POT STA 5+5812
RAMP "C" POT STA 4+0000
RAMP "C" 1+5500 BEGIN PAVEMENT TERMINUS SEE SHEET 33 OF 426
RAMP "C" PT STA 0+9804
RELOC SA-2 P.C. STA 32+29.96 = RAMP "C" P.C. STA. 0+00 2356 RT
RAMP "C" SPUR STA 1+5995 = RAMP "C" STA. 1+5469 16' RT
RAMP "C" PI STA 0+7461 = 0+2343
RAMP "C" CURVE DATA
PI. 0+7461 = 0+2343
Δ = 112° 20' 55"
D = 114° 35' 30"
R = 50.00'
T = 74.61'
L = 98.04'
E = 39.81'
SB POST STA 2324+8323
SB PC STA. 2324+6125'
RAMP "C" SPUR PCC STA 0+0000 = RELOC SA-2 STA. 33+6153 28' RT.
SB POT STA 2323+9754
STOP ROADWAY BEGIN BRIDGE SB STA 2326+1977
RELOC SA-2 POC STA 35+0000
NB POT STA 2321+78.45 = RAMP "A" PI STA 2+28.45 = 1+93.08 2400 RT
NB PC STA. 2323+00.50
STOP ROADWAY BEGIN BRIDGE NB STA 2324+8438
B.M. # 455 U.S. ELEV 1493.75
B.M. # 456 U.S. ELEV 1460.78
B.M. # 457 U.S. ELEV 1414.80
SB POC STA 2326+9302 = RELOC. SA-2 POC STA 34+9752
SB POC STA 2327+0000
SB POST STA 2327+0560
RELOC SA-2 POST STA 35+4438 = SB POST STA 2327+86.10
END BRIDGE RESUME ROADWAY SB STA 2327+6079
SB POST STA 2330+6025
SB PI STA 2333+0163 = 2333+00.87
RAMP "D" PI STA 1+4761 = 1+4566
Grade to Drain
END BRIDGE RESUME ROADWAY NB. STA 2326+2540
NB POC STA 2325+576 = RELOC SA-2 POC STA 36+7087
RELOC SA-2 POST STA 37+3953 = NB POST STA 2327+15.08
RAMP "B" PI STA 7+91.67 = 7+56.97
NB POC STA 2329+5000
NB PI STA 2330+9791 = 2330+93.76
BEGIN ACCEL LANE NB POC STA 2332+2294 = RAMP "B" PRC STA 9+83.83 2400 RT
NB POC STA 2327+5000
NB POC STA 2333+5000
RELOC SA-2 POST STA 38+3879
RELOC SA-2 PI STA 39+2149 = 37+7596
RAMP "B" POC STA 7+5000
RAMP "B" PC STA 5+648
RAMP "A" CURVE DATA
PI. 2+28.45 = 1+93.08
Δ = 54° 47' 55"
D = 13° 00' 00"
R = 440.74'
T = 228.45'
L = 421.53'
E = 55.69'
Bank = 1" Per Ft.
RAMP "A" PT STA. 4+2153
RELOCATED SA-2 CURVE DATA
Δ = 54° 17' 16"
D = 3° 04' 00"
R = 1858.34'
T = 957.89'
L = 1770.25'
E = 231.24'
Bank = 5/8" Per Ft.
RAMP "B" CURVE DATA
PI. 7+91.67 = 7+56.97
Δ = 54° 28' 19"
D = 13° 00' 00"
R = 440.74'
T = 226.66'
L = 419.02'
E = 54.96'
Bank = 1" Per Ft.
NB. CURVE DATA
Δ = 1° 59' 00"
D = 0° 07' 30"
R = 45,836.62'
T = 793.41'
L = 1586.67'
E = 6.87'
No Bank
RAMP "D" CURVE DATA
PI. 8+59.58 = 8+44.69
Δ = 41° 39' 11"
D = 13° 00' 00"
R = 440.74'
T = 167.65'
L = 320.41'
E = 30.81'
Bank = 3/4" Per Ft.
SB CURVE DATA
Δ = 4° 12' 00"
D = 0° 15' 00"
R = 22,918.31'
T = 840.38'
L = 1680.00'
E = 15.40'
Bank = 1/4" Per Ft.
RAMP "D" CURVE DATA
PI. 1+4761 = 1+4566
Δ = 16° 07' 47"
D = 5° 30' 00"
R = 1041.74'
T = 147.61'
L = 293.27'
E = 10.41'
Bank = 3/4" Per Ft.
PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.
NORTHBOUND: STA 2318+00 ~ STA A"5+00 RT; Ramp B" 4+00 ~ 2334+00 RT
SOUTHBOUND: Ramp C" 5+95 ~ Ramp C" 1+80 RT; Reloc SA-2 31+90 ~ 2335+00 LT
40+00 Rt.
Three Cable Guard Rail w/ Light Steel Posts, Item 538
Jute Matting Item 623
Treated Timber Curb, Item 554
Granite Slope Edging, Item 536-A
Bituminous Concrete Surface For Gutters & Traffic Islands, MOD Item 554
Standard Steel Beam Guard Rail w/ Steel Posts (6'-3" Spacing) Item 545-A
NB. 2332+35~2334+00 Rt.
SB. 2334+98~2335+00 Lt.
Ramp "B" 4+00~9+83 Rt.
Ramp "D" 0+00~5+85 Rt.
Reloc. SA-2 39+80~40+00 Rt.
△ CUT
○ FILL
MATCH LINE SEE SHEET No. 28
MATCH LINE SEE SHEET No. 37
MATCH LINE SEE SHEET No. 33 STA. 6+0000
MATCH LINE SEE SHEET No. 33 STA. 40+0000
MATCH LINE SEE SHEET No. 33 STA. 4+0000
RAMP 1 RAMP "C" RAMP "D" RAMP "A" RAMP "B"
WOODS
BROOK
GRAVEL DRIVE
FIELD DRIVE
Grade to Drain
N 20° 27' E
N 24° 03' E
N 21° 50' E
N 19° 51' E
S 37° 35' W
N 75° 38' E
S 46° 28' E
N 33° 48' W
N 39° 15' E
510' DECEL. LANE INCL. 300' TAPER
END DECEL. LANE NB POT STA 2319+5000 = RAMP "A" PC STA 0+0000 2400 RT
FOR PLAN AND PROFILE OF SA-2 SEE SHEETS 32 & 35 OF 426
FOR PROFILE OF RAMPS SEE SHEETS 34 - 36 OF 426
FOR LAYOUT AND GRADING OF INTERCHANGE SEE SHEETS 59 - 62 OF 426 EXCEPT AT 108' LT OF STA 2326+93 SB. LT CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
FOR ADDITIONAL DRAINAGE NOTES SEE SHEET 32 & 33 OF 426
NOTE: SEE BRIDGE SERIES FOR THE ABOVE STRUCTURES
PORTER, O'BRIEN & ARMSTRONG CONSULTING ENGINEERS NEWARK, N.J.
STAGE 2 CONSTRUCTION
BROOKFIELD - WILLIAMSTOWN BERLIN
I 89-1(11)(29)
CONTRACT No. 2
SHEET 30 OF 426
95 263
PLAN SCALE 0 50 100 100 FEET
99

* DENOTES STAGE 2 ITEMS

* Standard Steel Beam Guard Rail w/Steel Posts (6'-3" Spacing) Item 545-A
SA-2 ~~26+00 — 27+50 Rt.~~
SA-2 ~~39+00 — 40+00 Lt.~~

Granite Slope Edging, Item 556-A
Ramp "D" 8+30~9+00 Lt. Island
Spur Ramp "D" 1+39~1+57 Lt.

Jute Matting Item 623
Ramp "D" 8+00~9+50 Rt.
SA-2 28+00~31+00 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

SOUTHBOUND		
STA.	STA.	POS.
Reloc SA-2 25+50	Ramp "C" 1+80 *	RT.
Reloc SA-2 25+50	Reloc SA-2 31+90	LT.

RAMP "D" CURVE DATA
PI 8+59.58 *
8+44.69
Δ = 41° 39' 12"
D = 13° 00' 00"
R = 440.74'
T = 167.65'
L = 320.41'
E = 30.81'
Bank = 3/4" Per Ft

RAMP "C" CURVE DATA
PI 0+74.61 *
0+23.43
Δ = 112° 20' 55"
D = 114° 35' 30"
R = 50.00'
T = 74.61'
L = 98.04'
E = 39.81'

RELOCATED SA-2 CURVE DATA
Δ = 54° 17' 16"
D = 3° 04' 00"
R = 186834'
T = 95789'
L = 177025'
E = 23124'
Bank = 5/8" Per Ft

RELOC SA-2 PC STA 29+6360
BM. #456 "A" 10" Maple 33' Lt. U.S. ELEV. 1436.39

RELOCATED SA-2 (BITUMINOUS PAVEMENT)

RAMP "D" PC STA 6+9.93
RAMP "D" POC STA 7+50
RELOC SA-2 POST STA 33+2200
RAMP "D" PCC STA 8+00
RAMP "D" PI STA 8+59.58 *
8+44.69
RAMP "D" PRC STA 9+12.34 *
RELOC SA-2 POST STA 31+33.2
1100 LT.
RAMP "D" 6+92.00 BEGIN PAVEMENT TERMINUS SEE SHEET 33 OF 426
RELOC SA-2 POST STA 35+44.38 *
SB POST STA 2327+86.10
SB 2327+60.79 END BRIDGE RESUME ROADWAY
N 79° 15' E
RELOC SA-2 POST STA 37+39.53 *
NB POST STA 2327+15.08
RELOC SA-2 PI STA 39+21.43 *
37+75.95
RELOC SA-2 POST STA 38+38.79
SB POST STA 2327+05.60
SB POC STA 2327+00.00
SB POC STA 2326+93.02 *
RELOC SA-2 POC STA 34+97.52
NB POC STA. 2327+50.00
NB 2326+25.40 END BRIDGE RESUME ROADWAY
RELOC SA-2 POC STA 32+29.96 *
RAMP "C" PC STA 0+00 2356 RT.
RAMP "C" PT STA 0+98.04
RAMP "C" PCC STA 0+00.00 *
RELOC SA-2 STA 33+61.53 28 RT.
RELOC SA-2 POC STA 35+00.00
RAMP "C" PI STA 0+74.61 *
0+23.43
BM. #456 U.S. ELEV. 1460.78
SB 2326+19.77 STOP ROADWAY BEGIN BRIDGE
SB POST STA 2324+83.23
SB PC STA 2324+61.25
RAMP "C" SPUR STA 1+59.95 *
RAMP "C" STA 1+54.69 16 RT.
SB POT STA 2323+97.50
NB PC STA. 2323+00.50
NB POC STA 2325+57.61 *
RELOC SA-2 POC STA 36+70.87
NB 2324+84.38 STOP ROADWAY BEGIN BRIDGE
BM. #456 "A" U.S. ELEV. 1428.76
RAMP "C" 1+55.00 BEGIN PAVEMENT TERMINUS SEE SHEET 33 OF 426
SPUR "D"
2 RAMP "C"
FIELD DRIVE
MATCH LINE SEE SHEET No. 33 STA 40+00.00
NOTE: SEE BR 100 SERIES FOR THE ABOVE STRUCTURES.

FOR PROFILE OF RAMPS SEE SHEETS 34~~36 OF 426

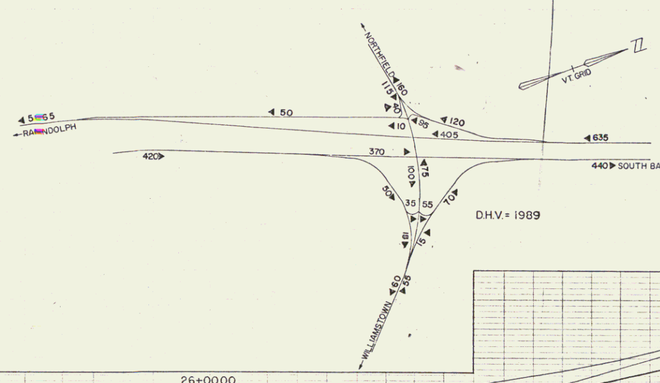
FOR LAYOUT AND GRADING OF INTERCHANGE SEE SHEET 59~~62 OF 426

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET EXCEPT AT 198' LT OF STA. 2326+93 SB. LT.

26+00.00 BEGIN CONSTRUCTION

NOTE: RELOCATED SA-2 IS TO BE BUILT IN ITS ENTIRETY DURING STAGE I CONSTRUCTION.

PLAN SCALE
0 50 100
100 FEET



P.V.I. 31+00 1434.28 850' V.C. M.O. 3.35' SSD = 613'
P.V.C. 26+75 1409.12
P.V.I. 35+25 1446.00
P.V.C. 36+00 1448.06
P.V.I. 37+00 1450.82 200' V.C. M.O. 0.36' K = 141
P.V.I. 38+00 1455.00
1404.90
+5.920%
+2.757%
+4.180%
NOTE: SEE BR. 100 SERIES FOR THE ABOVE STUCTURES.

PROFILE SCALE
HORIZ. 50 FEET
VERT. 10 FEET

2
STAGE I CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
RELOCATED SA-2
(WILLIAMSTOWN INTERCHANGE)
I 89-1(11)(29)
CONTRACT No. 2
SHEET 32 OF 426.

WEBSTER & MARTIN 6/65
W.R. FLETCHER 11/67
R.E. REYNOLDS 11/67
H.E. REYNOLDS 11/67

100

* DENOTES STAGE 2 ITEMS

MATCH LINE SEE SHEET No. STA. 4+00 00.20

RAMP "B" 3+75.00 BEGIN PAVEMENT-TERMINUS

RAMP "B" PT STA 2+45.04

RAMP "B" CURVE DATA
Δ = 17° 09' 10"
D = 7° 00' 00"
R = 818.51'
T = 123.44'
L = 245.04'
E = 9.25'
Bank = 13/16" Per Ft

Stone Fill For Slope Protection (Heavy Type), Item 511 Ramp "B" 2+75~4+00 Rt.

Three Cable Guard Rail w/Light Steel Posts, Item 538 Reloc. SA-2 45+26~48+46 Lt. Reloc. SA-2 46+00~53+84 Rt. Ramp "B" 1+69~3+75 Rt. =SA2 45+26~48+46 Lt.

2+00 END CONSTRUCTION

RAMP "B" PC STA 0+0000 = RELOC. SA-2 POC STA 43+6022 3072' LT

RELOC SA-2 PT STA 47+3385

RELOC SA-2 PC STA 45+2679 17.71 LT

RELOC SA-2 POST STA 46+5116 II LT

RELOC SA-2 POST STA 48+4652 II RT

RELOC SA-2 POST STA 49+4500 CII LT

RELOC SA-2 POST STA 55+0000

RAMP "B" PI STA 1+23.44 = 1+21.60

RAMP "B" SPUR PC STA 1+28.51 = RAMP "B" ROT. STA 2+49.57

RELOC SA-2 POC STA 41+39.98 = RAMP "B" SPUR STA 2+01.86.26' LT

RELOC SA-2 POC STA 41+00.00

RELOC SA-2 POC STA 41+44.19 = RAMP "A" SPUR STA 1+62.61

RAMP "A" PC STA 6+35.54

(RAMP "A" 6+35.00 BEGIN PAVEMENT TERMINUS)

MATCH LINE SEE SHEET No. STA. 6+0000

RAMP "A" CURVE DATA
Δ = 47° 56' 08"
D = 11° 00' 00"
R = 520.87'
T = 231.56'
L = 435.78'
E = 49.15'
Bank = 3/4" Per Ft

RAMP "A" PI STA 8+67.04 = 8+39.76

RAMP "A" PCC STA 10+71.32 = RELOC SA-2 POC STA 44+8383 2028' LT

RELOC SA-2 POC STA 44+5000

RELOCATED SA-2

RELOCATED T-47
10' SUB-BASE OF GRAVEL ITEM 201

Construct Drive 1+90 Rt. Relocated T-47

RELOC T-47 PT STA 0+92.00 II LT

RELOC SA-2 STA 49+0000 = RELOC T-47 STA 0+0000 II LT

RELOC T-47 PC STA 0+35.00

RELOC T-47 POST STA 0+65.00 II LT

RELOC T-47 POST STA 1+00.00 II LT

RELOC T-47 POST STA 1+35.00 II LT

RELOC T-47 POST STA 1+70.00 II LT

RELOC T-47 PT STA 2+00.00 II LT

RELOC T-47 STA 2+00.00 = RELOC SA-2 STA 49+0000 II LT

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-11 MOD.

STA.	STA.	POS.
NORTHBOUND		
Ramp A 6+00	Reloc SA-2 49+00	RT.
Ramp B 4+50 Rt.	Reloc T-47 0+35	Lt.

Bituminous Concrete Surface For Gutters & Traffic Islands, Item 554 MOD
Reloc. SA-2 40+00~40+93.26 Median
Reloc. SA-2 42+00 Rt
Reloc. SA-2 42+00 Lt Median

* Standard Steel Beam Guard Rail w/ Steel Posts (6'-3" Spacing) Item 545A
Reloc. SA-2 40+00~41+38 Rt
Reloc. SA-2 40+38~41+38 Lt
Ramp "B" 3+75~4+00 Rt.

* Treated Timber Curb, Item 558
Ramp "B" 3+75~4+00 Rt.

FILL
CUT

Removal and Disposal of Present Guard Rail Item 549
Reloc. SA-2 47+30~48+05 Rt
Reloc. SA-2 47+70~48+30 Rt

Bituminous Concrete Curb Item 555
Ramp "B" 1+50~3+75 Rt.

Stone Fill For Slope Protection (Light Type) Item 512
Reloc. SA-2 45+25~46+25 Lt
Reloc. SA-2 46+25~48+25 Rt
Reloc. SA-2 47+75~48+13 Rt
(Reloc Channel)
Reloc. SA-2 49+50~53+73 Rt.

Demolition and Disposal of Building, Item 586
Reloc T-47 47+67 Lt.

Granite Slope Edging, Item 556-A
Reloc SA-2 40+00~40+94' Median
Reloc SA-2 41+68~45+10 Median
Reloc SA-2 41+76~42+98 Rt
Reloc SA-2 41+76~42+70 Lt
Ramp A 7+69~8+91 Lt.
Spur Ramp "A" 1+23~1+47 Rt.
Ramp "B" 0+89~1+90 Lt*
Spur Ramp "B" 1+64~1+88 Lt

Jute Matting Item 623
Reloc. SA-2 40+50~41+00 Lt.
Reloc. SA-2 51+00~53+50 Lt.
Ramp "A" 6+00~10+00 Rt.
Ramp "A" 6+00~7+00 Lt.

* Install Overhead Traffic Sign Support Item 703
Reloc. SA-2 40+80

54+0000 END CONSTRUCTION

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET EXCEPT AT STA. 43+00 SA-2 RELOC.
FOR LAYOUT AND GRADING OF INTERCHANGE SEE SHEETS 59-62 OF 426

FOR PROFILE OF RAMPS SEE SHEETS 34-36 OF 426

PLAN SCALE 0 50 100 100 FEET

BM #456 "B" US ELEV 1467.70

BM #456 "C" US ELEV 1480.29

BM #456 "D" US ELEV 1493.63

BM #456 "E" US ELEV 1503.03

BM #456 "F" US ELEV 1503.03

BM #456 "G" US ELEV 1503.03

BM #456 "H" US ELEV 1503.03

BM #456 "I" US ELEV 1503.03

BM #456 "J" US ELEV 1503.03

BM #456 "K" US ELEV 1503.03

BM #456 "L" US ELEV 1503.03

BM #456 "M" US ELEV 1503.03

BM #456 "N" US ELEV 1503.03

BM #456 "O" US ELEV 1503.03

BM #456 "P" US ELEV 1503.03

BM #456 "Q" US ELEV 1503.03

BM #456 "R" US ELEV 1503.03

BM #456 "S" US ELEV 1503.03

BM #456 "T" US ELEV 1503.03

BM #456 "U" US ELEV 1503.03

BM #456 "V" US ELEV 1503.03

BM #456 "W" US ELEV 1503.03

BM #456 "X" US ELEV 1503.03

BM #456 "Y" US ELEV 1503.03

BM #456 "Z" US ELEV 1503.03

BM #456 "AA" US ELEV 1503.03

BM #456 "BB" US ELEV 1503.03

BM #456 "CC" US ELEV 1503.03

BM #456 "DD" US ELEV 1503.03

BM #456 "EE" US ELEV 1503.03

BM #456 "FF" US ELEV 1503.03

BM #456 "GG" US ELEV 1503.03

BM #456 "HH" US ELEV 1503.03

BM #456 "II" US ELEV 1503.03

BM #456 "JJ" US ELEV 1503.03

BM #456 "KK" US ELEV 1503.03

BM #456 "LL" US ELEV 1503.03

BM #456 "MM" US ELEV 1503.03

BM #456 "NN" US ELEV 1503.03

BM #456 "OO" US ELEV 1503.03

BM #456 "PP" US ELEV 1503.03

BM #456 "QQ" US ELEV 1503.03

BM #456 "RR" US ELEV 1503.03

BM #456 "SS" US ELEV 1503.03

BM #456 "TT" US ELEV 1503.03

BM #456 "UU" US ELEV 1503.03

BM #456 "VV" US ELEV 1503.03

BM #456 "WW" US ELEV 1503.03

BM #456 "XX" US ELEV 1503.03

BM #456 "YY" US ELEV 1503.03

BM #456 "ZZ" US ELEV 1503.03

BM #456 "AAA" US ELEV 1503.03

BM #456 "BBB" US ELEV 1503.03

BM #456 "CCC" US ELEV 1503.03

BM #456 "DDD" US ELEV 1503.03

BM #456 "EEE" US ELEV 1503.03

BM #456 "FFF" US ELEV 1503.03

BM #456 "GGG" US ELEV 1503.03

BM #456 "HHH" US ELEV 1503.03

BM #456 "III" US ELEV 1503.03

BM #456 "JJJ" US ELEV 1503.03

BM #456 "KKK" US ELEV 1503.03

BM #456 "LLL" US ELEV 1503.03

BM #456 "MMM" US ELEV 1503.03

BM #456 "NNN" US ELEV 1503.03

BM #456 "OOO" US ELEV 1503.03

BM #456 "PPP" US ELEV 1503.03

BM #456 "QQQ" US ELEV 1503.03

BM #456 "RRR" US ELEV 1503.03

BM #456 "SSS" US ELEV 1503.03

BM #456 "TTT" US ELEV 1503.03

BM #456 "UUU" US ELEV 1503.03

BM #456 "VVV" US ELEV 1503.03

BM #456 "WWW" US ELEV 1503.03

BM #456 "XXX" US ELEV 1503.03

BM #456 "YYY" US ELEV 1503.03

BM #456 "ZZZ" US ELEV 1503.03

BM #456 "AAAA" US ELEV 1503.03

BM #456 "BBBB" US ELEV 1503.03

BM #456 "CCCC" US ELEV 1503.03

BM #456 "DDDD" US ELEV 1503.03

BM #456 "EEEE" US ELEV 1503.03

BM #456 "FFFF" US ELEV 1503.03

BM #456 "GGGG" US ELEV 1503.03

BM #456 "HHHH" US ELEV 1503.03

BM #456 "IIII" US ELEV 1503.03

BM #456 "JJJJ" US ELEV 1503.03

BM #456 "KKKK" US ELEV 1503.03

BM #456 "LLLL" US ELEV 1503.03

BM #456 "MMMM" US ELEV 1503.03

BM #456 "NNNN" US ELEV 1503.03

BM #456 "OOOO" US ELEV 1503.03

BM #456 "PPPP" US ELEV 1503.03

BM #456 "QQQQ" US ELEV 1503.03

BM #456 "RRRR" US ELEV 1503.03

BM #456 "SSSS" US ELEV 1503.03

BM #456 "TTTT" US ELEV 1503.03

BM #456 "UUUU" US ELEV 1503.03

BM #456 "VVVV" US ELEV 1503.03

BM #456 "WWWW" US ELEV 1503.03

BM #456 "XXXX" US ELEV 1503.03

BM #456 "YYYY" US ELEV 1503.03

BM #456 "ZZZZ" US ELEV 1503.03

BM #456 "AAAAA" US ELEV 1503.03

BM #456 "BBBBB" US ELEV 1503.03

BM #456 "CCCCC" US ELEV 1503.03

BM #456 "DDDDD" US ELEV 1503.03

BM #456 "EEEEE" US ELEV 1503.03

BM #456 "FFFFF" US ELEV 1503.03

BM #456 "GGGGG" US ELEV 1503.03

BM #456 "HHHHH" US ELEV 1503.03

BM #456 "IIIII" US ELEV 1503.03

BM #456 "JJJJJ" US ELEV 1503.03

BM #456 "KKKKK" US ELEV 1503.03

BM #456 "LLLLL" US ELEV 1503.03

BM #456 "MMMMM" US ELEV 1503.03

BM #456 "NNNNN" US ELEV 1503.03

BM #456 "OOOOO" US ELEV 1503.03

BM #456 "PPPPP" US ELEV 1503.03

BM #456 "QQQQQ" US ELEV 1503.03

BM #456 "RRRRR" US ELEV 1503.03

BM #456 "SSSSS" US ELEV 1503.03

BM #456 "TTTTT" US ELEV 1503.03

BM #456 "UUUUU" US ELEV 1503.03

BM #456 "VVVVV" US ELEV 1503.03

BM #456 "WWWWW" US ELEV 1503.03

BM #456 "XXXXX" US ELEV 1503.03

BM #456 "YYYYY" US ELEV 1503.03

BM #456 "ZZZZZ" US ELEV 1503.03

BEGIN PAVEMENT TERMINUS
END TOP COURSE, ITEM 361 - MOD.
END SHOULDER COURSE, ITEM 361-MOD.
END 2" TOPSOIL, ITEM 621

RAMP "A"	6+35
RAMP "B"	3+75
RAMP "C"	1+55
RAMP "D"	6+92

END BOTTOM COURSE, ITEM 361-MOD.
END SHOULDER, ITEM 303 MOD.

END TOP COURSE, ITEM 213

END BOTTOM COURSE, ITEM 213

END TOP 12" COURSE, ITEM 204

END ITEM 204

RAMP "A"	4+85
RAMP "B"	5+25
RAMP "C"	3+05
RAMP "D"	5+42

25' MIN. 25' MIN. 25' MIN. 25' MIN. 50' MIN.

3" 1-1/2" 5" 2 1/2" 24" 12"

6" SAND CUSHION

BITUMINOUS CONCRETE PAVEMENT ITEM 361 - MOD.

SUB - BASE OF CRUSHED ROCK ITEM 204

CRUSHED GRAVEL OR CRUSHED STONE PLANT MIXED BASE COURSE ITEM 213

STAGE I TERMINUS OF SUB-BASE, BASE, PAVEMENT, AND TOPSOIL ON RAMPS

2+00 END CONSTRUCTION

1+00

RELOC T-47

RELOC SA-2 STA 49+0000 = RELOC T-47 STA 0+0000 II LT

P.V.C. 49+00 1489.48

P.V.T. 47+50 1486.66 +1.880%

P.V.I. 44+00 1480.08 700' V.C. M.O. 2.0' SSD = 652'

+1.880%

P.V.C. 40+50 1465.45

+4.180%

72" C.G.M.P.P. GRANULAR BORROW ITEM 105

STRUCTURE EXCAVATION ITEM 109

P.V.I. 51+00 1493.24 400' V.C. M.O. 1.22' K = 164

P.V.T. 53+00 1501.88

1505.20

+4.320%

STAGE 2 / 1 CONSTRUCTION

PROFILE SCALE HORIZ. 50 FEET VERT. 10 FEET

BROOKFIELD-WILLIAMSTOWN
BERLIN
RELOCATED SA-2
(WILLIAMSTOWN INTERCHANGE)
189-1(11)(29)
CONTRACT No. 2
SHEET 33 OF 426

WEBSTER & MARTIN
W.E. FLETCHER
H.E. REYNOLDS
6/65
1/67
1/67
1/67

101

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Heavy Type), Item 511
NB 2334+00~2335+25 Rt.

Stone Fill For Slope Protection (Light Type), Item 512
SB 2339+40 Rt~2340+75 Rt.

Drilling & Blasting of Solid Rock Subgrade Item 115
NB 2339+00~2348+00
SB 2342+25~2347+00

* Three Cable Guard Rail w/ Light Steel Posts, Item 528
NB 2334+00~2339+85 Lt.
NB 2347+04~2348+00 Lt.
SB 2335+00~2341+68 Rt.
SB 2344+53 2348+00 Lt.

* Standard Steel Beam Guard Rail w/ Steel Posts (6'-3" Spacing) Item 545-A
NB. 2334+00~2338+94 Rt.
SB. 2335+00~2343+26 Lt.

* Treated Timber Curb, Item 558
SB 2335+00~2342+85 Lt.
SB 2346+50~2348+00 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2334+00	2348+00	RT.
SOUTHBOUND		
2335+00	2348+00	LT.

Plank Guard Rail, Item 540
SB 2345+75 Lt. 40 L.F.

VT. GRID

FILL
CUT

END DECELERATION LANE
RAMP "D" P.C. STA. 0+00.00 =
SB. POC STA 2334+97.94
24.00' LT.

B.M. #458-3
3/4" "E" 132' Lt.
El. 1402.30

B.M. #458
U.S. ELEV. 1407.75

B.M. #459
U.S. ELEV. 1410.05

PBM #8-B12
U.S. ELEV. 1440.49

B.M. #460
U.S. ELEV. 1441.37

SB. 2335+00 Lt. New 12"ø RCP, CGMP, 16 Ga. or CAAP, 16 Ga (Optional) R.C.C.P.

SB. 2339+50 New 10'4" x 16'8" ACCGMP, 12 Ga. C.M.

SB. 2339+50~2341+68 Rt. New 24"ø RCP, CGMP, 14 Ga. w/ 24"ø Flared End Sections

SB 2340+78~2341+28 Rt. Construct Special Ditch, Type 605

SB. 2340+78~2341+28 Rt. New 18"ø RCP, CGMP, 16 Ga. w/ 24"ø Flared End Sections

Construct U-Turn
2340+70 SB. Rt.
2339+85 NB Lt.

SB. 2344+00 New 18"ø RCP, CGMP, 16 Ga. w/ 24"ø Flared End Sections

SB. 2345+50 Lt. New 24"ø RCP, CGMP, 16 Ga. or CAAP, 16 Ga. (Optional)

SB. POC. STA. 2335+5000
SB. POC. STA. 2338+0000
SB. POST. STA. 2340+5810
SB. PT. STA. 2341+4125
SB. POST. STA. 2336+5141
SB. POT. STA. 2345+0300
BEGIN DECELERATION LANE
SB. 2339+97.94 Lt.
RAMP "D"
400' DECEL. LANE INCL. 300' TAPER
1000' ACCELERATION LANE INCLUDING 300' TAPER
GRAVEL ROAD
TOWN HIGHWAY # 47
BROOK
WOODS
Grade to Drain
BROWSE OVER W. CONC. WALL
N 19° 51' E
MATCH LINE SEE SHEET No. 30
MATCH LINE SEE SHEET No. 39

B.M. #460-11
8" Stump Nail
El. 1449.00

NB. 2335+72
14"ø R.C.C.P.

NB. POC. STA 2336+00.00

NB. PT. STA 2338+87.17

END ACCELERATION LANE
NB. STA. 2340+67 Rt.

Frontage Road Sta. 2335+50
Begin Frontage Road Construction
to be built in its entirety during Stage 1 Constr.

Frontage Road 2336+50 Lt. New 18"x 38" ACCGMP, 16 Ga.

NB 2337+90 Lt. 10" CGMP
Remove & Item 108 M.C. Road

NB. 2339+57 94' New 24"ø RCP, Class II R.C.D. w/ 19'x12' E.E.

NB. 2339+50~2345+00 Rt. New 18"x 38" ACCGMP, 16 Ga.

NB. 2339+50~2345+00 Rt. New 18"ø RCP, Class II R.C.D. w/ 16'x12' E.E.

NB. 2345+00 New 18"ø RCP, Class III R.C.D. w/ 16'x12' E.E.

Frontage Road 2345+00 Lt. New 18"x 38" ACCGMP, 16 Ga.

Approx. Underground Utility Bldg. by N.U.T.

B.M. #460-11
1"x 12" x 10.5' Wd.
El. 1431.38

NB POT. 2339+70.32 =
2341+41.25
EQ. = -170.93'

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

STAGE 2 CONSTRUCTION

BROOKFIELD–WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 2

SHEET 37/705 OF 426/263

PLAN SCALE
0 50 100
100 FEET

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS
MONTPELIER, VERMONT

102

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type) Item 512
SB 2349+80 ℄ (Inlet Ditch)

* Three Cable Guard Rail w/ Light Steel Posts Item 538
NB 2348+00~2358+88 Lt
SB 2348+00~2356+58 Lt
SB 2351+02~2355+98 Rt

◆ Treated Timber Curb, Item 558
NB 2348+00~2358+90 Lt
SB 2351+50~2354+50 Rt
SB 2348+00~2356+90 Lt

Drilling & Blasting of Solid Rock Subgrade Item 115
NB 2348+00~2349+00 ℄
NB 2359+00~2363+00 "
SB 2357+00~2363+00 "

Plank Guard Rail, Item 540
NB 2353+66 Rt 16 L.F.
SB 2353+75 Lt 16 L.F.

Demolition and Disposal of Building, Item 586
"B NB 2354+06 Rt
"BA NB 2355+62 Rt

* Jute Matting Item 623
NB 2357+00~2358+00 Rt.
NB 2357+00~2358+00 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA.	STA.	POS.
NORTHBOUND		
2348+00	2363+00 "	RT.
SOUTHBOUND		
2348+00 "	2363+00 "	LT.

FILL
CUT

MATCH LINE SEE SHEET No. 37

MATCH LINE SEE SHEET No. 41

SB POT. STA 2349+0483

SB POT. STA 2353+2406

SB POT. STA 2360+3503

BM #461-S 24" Pine 105' Lt El 1458.77

BM #462 US ELEV 1498.47

BM #461 US ELEV 1474.33

N19° 51' E

Grade to drain

Grade to Drain

Dike

Underground - N.E.T.Co.

Aerial - N.E.T.Co.

F.R. 2350+100

F.R. 2353+65 End Frontage Road Construction

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

PLAN SCALE
0 50 100
100 FEET

STAGE 2 CONSTRUCTION

BROOKFIELD—WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 2

SHEET 39 (107) OF 426 (265)

103

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type) Item 512
NB. 2373+00 Rt. (Inlet Ditch).

* Standard Steel Beam Guard Rail w/ Steel Posts (6'-3" Spacing) Item 545-A
NB. 2374+02 ~ 2378+00 Lt.
SB. 2374+51 ~ 2378+00 Lt.

* Treated Timber Curb, Item 558
NB 2376+00 ~ 2378+00 Lt.

Drilling & Blasting of Solid Rock Subgrade, Item 115
NB 2363+00 — 2372+00
NB 2373+29 — 2377+29
SB 2363+00 — 2377+00

Drilling & Blasting of Solid Rock, Item 114
2375+00 — 2378+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2363+00'	2378+00'	RT.
SOUTHBOUND		
2363+00'	2378+00'	LT.

VT. GRID

FILL
CUT

PBM #B-613
U.S. ELEV. 1534.09'

SB. POT. STA. 2363+7205

SB. PC. STA. 2368+4724

SB. POST STA. 2369+3045

SB. POC. STA. 2371+5000

SB. POST STA. 2373+6344

SB. POC. STA. 2375+0000

SB. POST STA. 2376+1549

BM. #463
U.S. ELEV. 1552.04

BM. #464
U.S. ELEV. 1565.24

BM. #465
U.S. ELEV. 1564.17'

P.In. 463-N
S.R.E. 8.38
El. 1553.17

P.In. 464-N
S.R.E. 9.43
El. 1571.44

P.In. 465-N
S.R.E. 15.47
El. 1601.74

P.In. 443-N
15"x100' Rt.
El. 1590.17

P.In. 463-N
S.R.E. 12.52
El. 1574.10

P.In. 464-N
S.R.E. 15.71
El. 1607.31

BRONZE DISC w/CONC. MON.

SB. 2366+50 — 100' Rt. New 18"x76' ACCGMP, 16 Ga. R.C.P. w/Grate B

SB. 2371+97 Rt. — 70' New 42"x1100' ACCGMP, 12 Ga. R.C.D.I. w/Grate A

SB. 2372+35 Rt. — 70' New 42"x114' ACCGMP, 12 Ga. R.C.D.I. w/Grate A

NB. 2363+00 — 2366+100 Rt. New 18"x300' R.C.P. Class III w/Grate B

NB. 2366+00 — 2369+50' Rt. New 18"x318' R.C.P. Class III w/Grate B

NB. 2372+57 Lt. — SB. 2372+32 Rt. Contract Special Ditch, Item 106 Eliminated

NB. 2372+78 Lt. — 2373+90 Rt. New 42"x198' ACCGMP, 12 Ga. w/Inlet Stone Lined Outlet Ditch

NB. POC. STA. 2370+5000

NB. PC. STA. 2369+3045

NB. POC. STA. 2373+0000

NB. POC. STA. 2375+5000

NB. PI STA. 2376+8759*
2376+7687

MATCH LINE SEE SHEET No. 39

MATCH LINE SEE SHEET No. 43

N 19° 51' E

N 4° 48' E

NB. CURVE DATA
Δ = 15° 03' 20"
D = 1° 00' 00"
R = 5729.58'
T = 757.14'
L = 1505.56'
E = 49.81'
Bank = 5/16" Per Ft

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

STAGE 2 CONSTRUCTION

BROOKFIELD–WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 2

SHEET 41/109 OF 426*/263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS MONTPELIER, VERMONT

104

* DENOTES STAGE 2 ITEMS

*Standard Steel Beam Guard Rail w/ Steel Posts (6'-3" Spacing) Item 545-A
NB 2378+00 – 2381+02 Lt
SB 2378+00 – 2383+10 Lt

*Treated Timber Curb, Item 558
NB 2378+00 – 2384+50 Lt

Drilling & Blasting of Solid Rock, Item 114
2378+00 – 2379+50

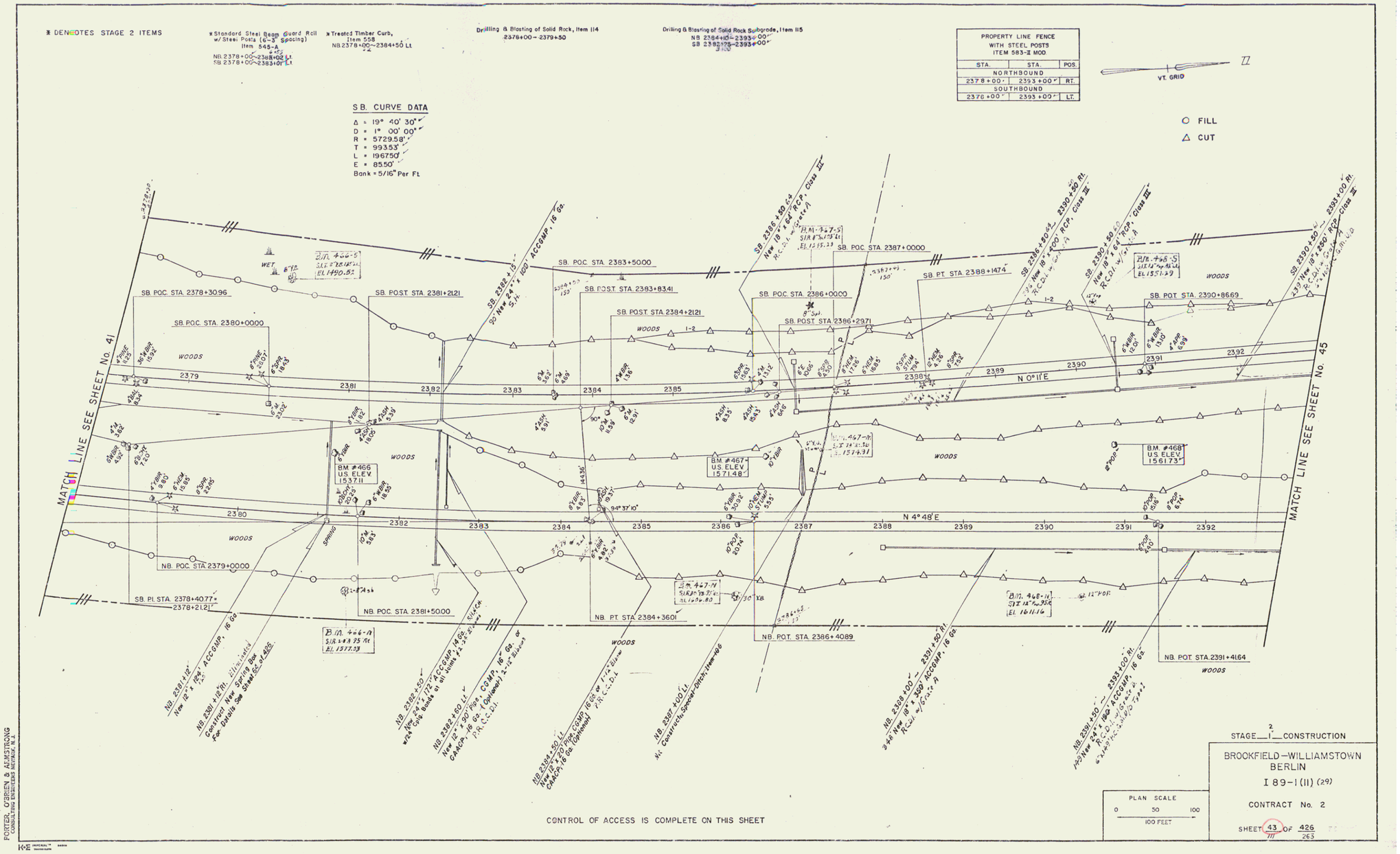
Drilling & Blasting of Solid Rock Subgrade, Item 115
NB 2384+10 – 2393+00
SB 2382+75 – 2393+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD		
STA.	STA.	POS.
NORTHBOUND		
2378+00	2393+00	RT.
SOUTHBOUND		
2378+00	2393+00	LT.

VT. GRID

○ FILL
△ CUT

S.B. CURVE DATA
Δ = 19° 40' 30"
D = 1° 00' 00"
R = 5729.58'
T = 993.53'
L = 1967.50'
E = 85.50'
Bank = 5/16" Per Ft



CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

STAGE 2 CONSTRUCTION

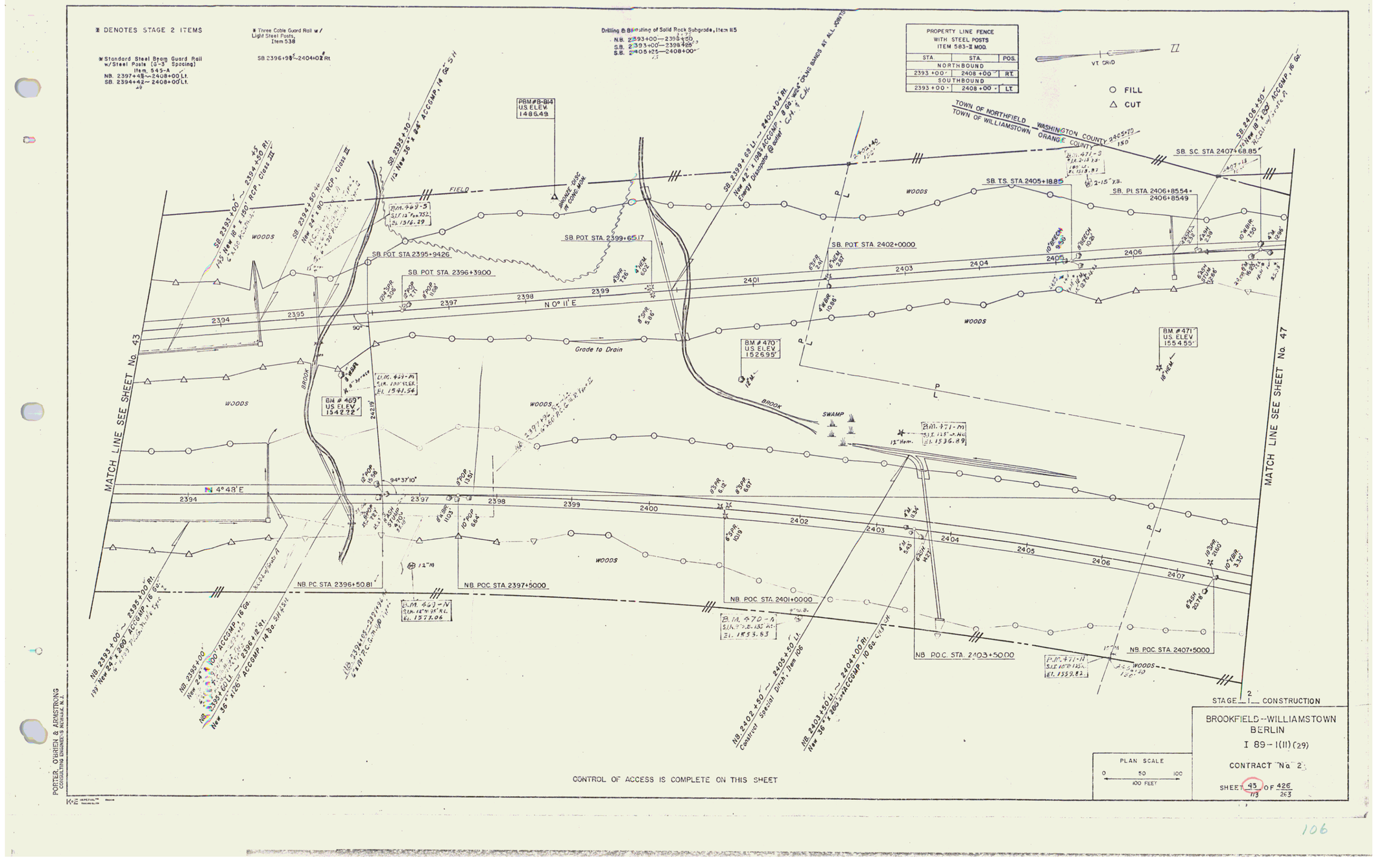
BROOKFIELD – WILLIAMSTOWN
BERLIN
I 89-1(11) (29)

CONTRACT No. 2

SHEET 43 OF 426
263

FORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

105


* DENOTES STAGE 2 ITEMS
*Standard Steel Beam Guard Rail w/Steel Posts (6'-3" Spacing) Item 545-A
NB. 2397+48½ ~ 2408+00 Lt.
SB. 2394+42 ~ 2408+00 Lt.
* Three Cable Guard Rail w/ Light Steel Posts, Item 538
SB. 2396+98½ ~ 2404+02 Rt.
Drilling & Blasting of Solid Rock Subgrade, Item 115
N.B. 2393+00 — 2398+50
S.B. 2393+00 — 2398+25
S.B. 2405+25 — 2408+00
PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.
STA. | STA. | POS.
NORTHBOUND
2393 +00 | 2408 +00 | RT.
SOUTHBOUND
2393 +00 | 2408 +00 | LT.
VT GRID
FILL
CUT
TOWN OF NORTHFIELD — WASHINGTON COUNTY
TOWN OF WILLIAMSTOWN — ORANGE COUNTY
SB. SC. STA. 2407+68.85
SB. TS. STA. 2405+18.85
SB. PI STA. 2406+85.54 = 2406+85.49
SB. POT STA. 2399+65.17
SB. POT STA. 2395+94.26
SB. POT STA. 2396+39.00
SB. POT STA. 2402+00.00
PBM #8-BM
US ELEV. 1486.49
BRONZE DISC IN CONC. MON.
BM #469
US ELEV. 1542.22
BM #470
US ELEV. 1529.95
BM #471
US ELEV. 1554.55
NB. PC STA. 2396+50.81
NB. POC STA. 2397+50.00
NB. POC STA. 2401+00.00
NB. POC STA. 2403+50.00
NB. POC STA. 2407+50.00
Grade to Drain
WOODS
BROOK
SWAMP
FIELD
N 0° 11' E
N 4° 48' E
94° 37' 10"
MATCH LINE SEE SHEET No. 43
MATCH LINE SEE SHEET No. 47
STAGE 1 2 CONSTRUCTION
BROOKFIELD--WILLIAMSTOWN
BERLIN
I 89-1(11)(29)
CONTRACT No 2
SHEET 43 OF 426
113 263
PLAN SCALE
0 50 100
100 FEET
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET
PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS & PLANNERS, N.J.

106

* DENOTES STAGE 2 ITEMS

* Standard Steel Beam Guard Rail w/ Steel Posts (6'-3" Spacing) Item 545-A
NB 2408+00 — 2423+00 Lt
SB 2408+00 — 2423+00 Lt

Drilling & Blasting of Solid Rock, Item 114
NB 2408+75 — 2412+75
SB 2406+25 — 2407+75
SB 2410+25 — 2412+25

Drilling & Blasting of Solid Rock Subgrade, Item 115
NB 2409+75 — 2418+75
SB 2408+00 — 2422+90
NB 2421+00 — 2423+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA.	STA.	POS.
NORTHBOUND		
2408+00	2423+00	RT.
SOUTHBOUND		
2408+00	2423+00	LT.

VT GRID

○ FILL
△ CUT

SB. PI STA. 2413+9803 = 2413+4623
SB. PI STA. 2413+8646 = 2413+5780
SB. POC STA. 2412+50.00
SB. POST STA. 2408+64.02
SB. POC STA. 2409+00.00
SB. POC STA. 2414+50.00
SB. POST STA. 2416+04.79
SB. POC STA. 2417+50.00
SB. POST STA. 2419+05.74
SB. C.S. STA. 2419+75.41
SB. PI STA. 2420+58.77 = 2420+58.72
SB. POST STA. 2421+68.56
SB. ST STA. 2422+25.41

TOWN OF NORTHFIELD — WASHINGTON COUNTY
TOWN OF WILLIAMSTOWN — ORANGE COUNTY

N.0°11'E
N.36°36'E
N.27°40'E
81°04'40"

B.M. #472
U.S. ELEV. 1579.32'

B.M. #473
U.S. ELEV. 1599.52'

B.M. #474
U.S. ELEV. 1555.78'

B.M. 472-S
S.I.T. 10"Ls. 75'Lt.
El. 1522.21

B.M. 473-S
S.I.T. 6"Birch
El. 1531.37

B.M. 474-S
S.I.T. 10"Ash
El. 1515.03

B.M. 472-M
S.I.T. 90 Lt. Rib.
El. 1546.03

B.M. 472-N
S.I.T. 12"Birch
El. 1537.30

B.M. 473-M
S.I.T. 135' Lt. N.B.
El. 1542.91

B.M. 473-N
S.I.T. 12"Birch
El. 1605.89

B.M. 474-M
S.I.T. 85' Lt. N.B.
El. 1566.67

B.M. 474-N
S.I.T. 9"Ash
El. 1567.42

SB. CURVE DATA
Δ = 30°09'50"
D = 2° 30' 00"
R = 2291.83'
T = 617.61'
L = 1206.56'
E = 81.76'
Bank = 13/16" Per Ft
GS = 03° 07' 30"
Dc = 2° 30' 00"
LT = 166.69'
ST = 83.36'
LS = 250.00'
K = 124.99'
TS = 879.18'
ES = 1219.9'

NB. CURVE DATA
Δ = 22° 52' 20"
D = 1° 00' 00"
R = 5729.58'
T = 1159.04'
L = 2287.22'
E = 116.06'
Bank = 5/16" Per Ft.

SB 2414+00 New 18" x 58'-1 RCP Class III R.C.D.I. w/ Grate A
SB 2418+00 New 18" x 178' RCP, Class III R.C.D.I. w/ Grate A
NB 2413+50 New 18" x 183' RCP Class III R.C.D.I. w/ Grate A
NB 2417+50 New 18" x 78' RCP, Class III R.C.D.I. w/ Grate A
SB 2422+00 New 18" x 53' RCP, Class III R.C.D.I. w/ Grate A
NB 2421+00 New 18" x 84' ACCOMP. 16 Ga. R.C.D.I. w/ Grate A

MATCH LINE SEE SHEET No. 45
MATCH LINE SEE SHEET No. 49

NB. PI STA. 2408+09.35 = 2407+78.99
NB. POC STA. 2412+00.00
NB. POC STA. 2416+50.00
NB. PT STA. 2419+38.03

WOODS

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

STAGE 2 — 1 — CONSTRUCTION

BROOKFIELD—WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 2

SHEET 47 OF 426
115 263

POTTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS MONTPELIER, VERMONT

107

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type) Item 512
N.B. 2429+08 Lt.~S.B. 2431+09 Rt.

* Standard Steel Beam Guard Rail w/ Steel Posts (6'-3" Spacing) Item 545-A
~~N.B. 2423+00~2437+00 Lt.~~
S.B. 2423+00~2438+00 Lt.

PBM #B-815 U.S. ELEV. 1477.19

B.M. 475-S S.I.T. 12"R. 175'± El. 1466.30

* Treated Timber Curb, Item 558
S.B. 2430+00~2433+00 Lt.

Rip Rap (Light Type) Item 513-9
N.B. 2429+08 Lt.~S.B. 2431+09 Rt.

Drilling & Blasting of Solid Rock Subgrade, Item 115
N.B. 2423+00 — 2424+70
N.B. 2433+00 — 2437+00
S.B. 2435+90 — 2438+00

Drilling & Blasting of Solid Rock, Item 114
N.B. 2427+25–2431+25
N.B. 2433+00–2436+25

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD		
STA.	STA.	POS.
NORTHBOUND		
2423+00	2437+00	RT.
SOUTHBOUND		
2423+00	2438+00	LT.

VT. GRID

○ FILL
△ CUT

S.B. CURVE DATA
Δ = 7° 55' 00"
D = 0° 45' 00"
R = 7639.44'
T = 528.62'
L = 1055.56'
E = 18.27'
Bank = 1/4" Per Ft.

S.B. POT. STA. 2424+7976
S.B. POT. STA. 2430+1304
S.B. PC. STA. 2431+7097
S.B. POST STA. 2432+89.85
S.B. POC. STA. 2433+0000
S.B. PI STA. 2436+99.59 = 2436+97.91
S.B. POC. STA. 2437+0000

S.B. 2427.100' New 30"x 100' ACCGMP, 12 Ga. w/24" Cpg. Energy Dissipator @ Outlet Bands at all Joints

S.B. 2431+09 Rt. — 2431+64 Lt. New 48" x 328' ACCGMP, 10 Ga. Shielded 24" Cpg. Energy Dissipator @ Outlet Bands at all Joints

S.B. 2431+50 Eliminated New 18"x 108' ACCGMP, 16 Ga.

S.B. 2433+00 Lt. Eliminated New 12"x 118' Pipe, CGMP, 16 Ga. Optional CMCP

N 36°36'E

N 28°41'E

N 27°40'E

MATCH LINE SEE SHEET No. 47

MATCH LINE SEE SHEET No. 51

N.B. 2429+08 Lt. — S.B. 2431+09 Rt. Construct Special Ditch, Item 108 w/ A.C. Fill Slope

N.B. 2428+25 Rt. — 2429+08 Lt. New 48"x 216' ACCGMP, 16 Ga. w/24" Cpg. Energy Dissipator @ Outlet Bands at all Joints

N.B. 2432+00 — 15" New 24"x 148' ACCGMP, 14 Ga. Energy Dissipator @ outlet 24" Cpg. Bands at all Joints

N.B. 2437+00 New 8'x 8' RCBC, 0° Skew

B.M. #475 U.S. ELEV. 1525.72

B.M. #476 U.S. ELEV. 1499.08

B.M. #477 U.S. ELEV. 1528.49

B.M. 476-M S.I.T. 115'± S.B. El. 1498.78

B.M. 476-N S.I.T. 12"M, 80'± El. 1573.41

B.M. 476-S S.I.T. 12"R, 170'± El. 1442.33

B.M. 477-M S.I.R. 12"±, 45'± S.B. El. 1540.35

B.M. 477-N S.I.R. 14"±, 75'± Rt. El. 1584.69

Grade to Drain

BROOK

WOODS

N.B. POT. STA. 2423+5370

N.B. POT. STA. 2429+8209

N.B. P.O.T STA. 2434+62.30

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

STAGE 2 — 1 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 2

SHEET 49 OF 426
117 263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS BOSTON, MASS.

108

* DENOTES STAGE 2 ITEMS

* Three Cable Guard Rail w/ Light Steel Posts, Item 536

SB. 2451+98 ~ 2453+00 Lt.
NB. 2451+68 ~ 2452+00 Rt.

* Treated Timber Curb, Item 558
NB. 2446+00 ~ 2452+00 Lt.

* Standard Steel Beam Guard Rail w/ Steel Posts (6'-3" Spacing) Item 545-A
NB. 2437+00 ~ 2438+83 Lt.
NB. 2445+36 ~ 2452+00 Lt.
SB. 2438+00 ~ 2447+54 Lt.

Drilling & Blasting of Solid Rock Subgrade, Item 115
NB 2437+00 ~ 2448+75
SB 2438+00 ~ 2452+50

Drilling & Blasting of Solid Rock, Item 114
NB 2449+25 ~ 2452+50

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA.	STA.	POS.
NORTHBOUND		
2437+00	2452+00	RT.
SOUTHBOUND		
2438+00	2453+00	LT.

VT. GRID

FILL
CUT

MATCH LINE SEE SHEET No. 49

MATCH LINE SEE SHEET No. 53

SB. POC. STA. 2438+5000

SB. 2440+00 ± 54' New 18"x 55' R.C.P. Class III R.C.D.I. w/ Grate A

SB. PT. STA. 2442+2653

SB. 2444+00 ± New 18"x 63' R.C.P. Class III R.C.D.I. w/ Grate A

SB. POT STA 2445+6768

SB. 2448+00 ± New 18"x 58' R.C.P. Class III R.C.D.I. w/ Grate B

SB. POT STA. 2449+6331

SB. 2452+00 ± 42' New 18" & 48' ACCGMP, 16 Ga. R.C.D.I. w/ Grate B

B.M. 478-S
S.I.T. 12B.60 Lt.
El. 1498.34

B.M. 479-S
S.I.T. 674.70 Lt.
El. 1485.89

BM #478
U.S. ELEV.
1539.70

BM #479
U.S. ELEV.
1538.62'

BM #480
U.S. ELEV.
1498.37

B.M. 478-N
S.I.T. 4M.90 Rt.
El. 1593.20

B.M. 479-N
S.I.T. 18"BL.100' Rt.
El. 1587.30

B.M. 480-N
S.I.T. 24"E.70' Rt.
El. 1524.78

NB. POT STA. 2440+4888

NB. POT STA. 2445+6339

NB. POT STA. 2450+5541

NB. 2441+00 ± 63' New 18" x 78" RCP. C1038 III R.C.D.I. w/ Grate B

NB. 2443+00 ± 18" x 78" RCP. C1038 III R.C.D.I. w/ Grate B

NB. 2445+00 ± New 18" x 78" RCP. C1038 III R.C.D.I. w/ Grate B

NB. 2447+00 ± 42' New 18" & 48' ACCGMP, 16 Ga. R.C.D.I. w/ Grate B

NB. 2449+00 ± 42' New 18" & 48' ACCGMP, 16 Ga. R.C.D.I. w/ Grate B

NB. 2449+00 ± 42' New 12"x 46' Pipe CGMP, 16 Ga. (Optional) or 63' ACPI, 16 Ga. (Optional)

PBM #B-B16
U.S. ELEV.
1529.08

N 28°41'E

N 27°40'E

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

STAGE 2 CONSTRUCTION

BROOKFIELD WILLIAMSTOWN BERLIN

I 89-1(11)(29)

CONTRACT No. 2

SHEET 51 OF 425

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

109

* DENOTES STAGE 2 ITEMS

* Three Cable Guard Rail w/ Light Steel Posts, Item 538
NB 2452+00~2461+60 Rt.
SB 2453+00~2467+98 Lt.

* Treated Timber Curb, Item 558
NB 2452+00~2461+00 Rt.
NB 2452+00~2464+00 Lt.

* Standard Steel Beam Guard Rail w/ Steel Posts (6'-3" Spacing) Item 545-A
NB 2452+00~2467+00 Lt.

Drilling & Blasting of Solid Rock Subgrade, Item 115
SB 2463+25 — 2468+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2452+00	2467+00	RT.
SOUTHBOUND		
2453+00	2468+00	LT.

VT GRID

○ FILL
△ CUT

SB. POT. STA. 2455+2079
SB 2457+50 New 18"x114" ACCGMP, 16 Ga. C.M.
SB 2459+50.75 New 18"x132" ACCGMP, 16 Ga. C.M.
SB. POT. STA. 2460+7745
SB 2462+26.34 New 42"x114" ACCGMP, 10 Ga. C.M.
SB. POT. STA. 2467+0501
SB 2467+00 New 18"x100" ACCGMP, 16 Ga.
B.M. 481-S S.I.T. 3-10 7/8 in. El. 1448.90
B.M. 482-S S.I.T. 12" in. 95° El. 1433.50
B.M. 483-S S.I.T. 14" R 95° El. 1426.27
B.M. #481 U.S. ELEV. 1469.02
B.M. #482 U.S. ELEV. 1458.01
B.M. #483 U.S. ELEV. 1455.31
B.M. 483-W S.I.T. 12" R 80° Rt. El. 1464.79
B.M. 481-W S.I.T. 10" Rt. 30° R. El. 1493.37
B.M. 482-W S.I.T. 10" Rt. 30° R. El. 1468.52
B.M. 483-W S.I.T. 95° Lt. 36 El. 1467.77
N 28°41'E
N 27°40'E
MATCH LINE SEE SHEET No. 51
MATCH LINE SEE SHEET No. 55
NB. POT. STA. 2453+4334
NB. POT. STA. 2459+9097
NB. POT. STA. 2462+8692
WOODS
WET
BROOK
SPRING
PINE SEEDLINGS
Grade to Drain
NB 2455+00 Lt. 35' New 12" x 64' Pipe CGMP, 16 Ga. (Optional) or CAACP, 16 Ga (Optional) P.R.C.C.Lt.
NB 2455+00 Rt. 31' New 12" x 58' Pipe CGMP, 16 Ga or CAACP, 16 Ga (Optional) P.R.C.C.Rt.
NB 2455+00 Rt. 35' New 12" x 36' Pipe CGMP, 16 Ga (Optional) or CAACP, 16 Ga (Optional) P.R.C.C.Rt.
NB 2458+00 Lt. 20' New 12" x 64' Pipe CGMP, 16 Ga or CAACP, 16 Ga (Optional) P.R.C.C.Lt.
NB 2458+60 Rt. 36' New 12" x 46' Pipe CGMP, 16 Ga or CAACP, 16 Ga (Optional)
NB 2460+44 Rt. — 2460+50 Lt. New 42"x120" ACCGMP, 10 Ga. S.M. & S.M.
NB 2461+00 Rt. 20' New 12" x 26' Pipe CGMP, 16 Ga or CAACP, 16 Ga (Optional)
NB 2461+00 Lt. 21' New 12" x 45' Pipe CGMP, 16 Ga or CAACP, 16 Ga (Optional) P.R.C.C.Lt.
NB 2463+25 Rt. — 2463+50 Lt. 125' New 18"x12" ACCGMP, 16 Ga. S.M.
NB 2464+00 Lt. 20' New 12" x 30' Pipe CGMP, 16 Ga or CAACP, 16 Ga (Optional) P.R.C.C.Lt.
NB. 2464+00 Rt. 16' x 7' P.C.C.& R.R. 14 Ga. C.M.

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

STAGE 2 I CONSTRUCTION

BROOKFIELD–WILLIAMSTOWN
BERLIN
I 89-1(11) (29)

CONTRACT No. 2

SHEET 53 OF 425

PLAN SCALE
0 50 100
100 FEET

110

* DENOTES STAGE 2 ITEMS

*Standard Steel Beam Guard Rail w/ Steel Posts (6'-3" Spacing) Item 545-A 10
NB. 2467+00~2467+05 Lt.

* Three Cable Guard Rail w/ Light Steel Posts, Item 538
NB.2473+50~2482+00 Lt.
SB 2474+50~2484+00 Lt.

* Jute Matting Item 623
SB 2469+00~2470+00 Rt.
SB.2469+00~2470+00 Lt.

Plank Guard Rail, Item 540
NB.2478+70 Rt. 40 L.F.

Drilling & Blasting of Solid Rock Subgrade Item 115
NB 2467+00 – 2475+25
SB 2469+25 – 2473+75
SB 2475+75 – 2481+75 79+99
SB 2483+25 – 2484+00 75

Drilling & Blasting of Solid Rock, Item 114
SB 2483+25 – 2484+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2467+00	2482+00	RT.
SOUTHBOUND		
2468+00	2484+00	LT.

VT GRID

FILL
CUT

MATCH LINE SEE SHEET No. 53

MATCH LINE SEE SHEET No. 57

N 28°41'E

N 27°40'E

88°59'40"

90°

SB. POT STA. 2475+7294

SB. POT STA 2476+93.57

SB. POT STA 2481+2765

NB POT STA 2468+7278

NB. PC STA 2475+1645

B.M. 484-S
S.I.R. 12.4 80' Lt.
El. 1424.20

B.M. 485-S
S.I.R. 12.4 80' Lt.
El. 1422.12

B.M. 486-S
S.I.R. 14 Rt.
El. 1426.23

B.M. #484
U.S. ELEV.
1445.34

B.M. #485
U.S. ELEV.
1453.10

B.M. #486
U.S. ELEV.
1449.84

B.M. 485-N
S.I.R. 12.4 80' Lt.
El. 1472.30

B.M. 484-N
S.I.R. 12.4 100' Lt.
El. 1477.49

PBM #B-817
U.S. ELEV.
1474.48

WOODS
WET
SCATTERED APPLE TREES
FARM HOUSE (IN RUINS)
FDN
GRAVEL ROAD
TOWN ROAD #7
MITCHELL
Grade to Drain
Spring
14" STONE BOX
BUSHINGS

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 50 100
100 FEET

STAGE 2 CONSTRUCTION

BROOKFIELD–WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 2

SHEET 55 OF 426
123 263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type) Item 512
NB. 2482+50 Lt. (Outlet Ditch)

Drilling & Blasting of Solid Rock, Item 114
SB 2484+00 — 2485+50

Drilling & Blasting of Solid Rock Subgrade, Item 115
NB 2482+75 — 2493+00
SB 2484+00 — 2495+00

DEMOLITION & DISPOSAL OF BUILDING
ITEM 586
#98 — SB — 2490+29 Lt.

* Three Cable Guard Rail w/Light Steel Posts, Item 538
NB 2482+00 — 2486+50 Lt.
SB 2484+00 — 2489+22 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 563-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2482+00	2493+00	RT.
SOUTHBOUND		
2484+00	2495+00	LT.

END CONTRACT No. 2 — NB. STA. 2493+00.00 — SB. STA. 2495+00.00
BEGIN CONTRACT No. 3 — NB. STA. 2493+00.00 — SB. STA. 2495+00.00

SB. POT STA. 2487+31.00
SB. POT STA. 2491+66.98
SB. POT STA. 2494+84.56

FILL
CUT

MATCH LINE SEE SHEET No. 55

N 28° 41' E
N 27° 40' E
N 29° 55' E
91° 14' 00"
90°

BM #487 US ELEV. 1459.36"
BM #488 US ELEV. 1480.73"
BM #489 US ELEV. 1473.29

B.M. 487-S S.I.T. 8"ø L E1. 1481.21
B.M. 488-S S.I.T. 14"ø M.BL E1. 1444.93
B.M. 489-N 3 I.R. 25"ø R E1. 1483.33
B.M. 489-W S.I.T. 6"ø WITN E1. 1511.47

NB. POC. STA. 2482+5000
NB. PI. STA. 2484+1212.5
2484+1189
NB. POC. STA. 2486+0000
NB. PT. STA. 2493+07.56

NB. CURVE DATA
Δ = 2° 14' 20"
D = 0° 07' 30"
R = 45,836.62'
T = 895.67'
L = 1791.11'
E = 8.75'
v. Bank = 1/4" Per Ft

TOWN ROAD # 7
GRAVEL ROAD
WOODS
WOODS & BRUSH
SCATTERED APPLE TREES
SCATTERED WOODS & BRUSH
FIELD
OUTHOUSE
CAMP
STONE FIREPLACE
CONC. SPRING BOX
APPROXIMATE LOCATION OF WATER PIPE 3/4" PLASTIC

NB. 2482+23 Rt. Ext. Drive Construct New Spring Box For Details See Sheet 64 of 426
NB. 2482+23 New 8"ø 70' ACCGMP. 16 Ga. Non-perforated
NB. 2482+50 New 12" x 32" ACCGMP. 14 Ga. S.H.
NB. 2486+50 New 24"ø 29' RCP. Class III R.C.S.H. w/ Grate A
NB. 2485+73 12"ø RCP. Cl. III R.C.S.H. w/ Grate A
NB. 2486+50 47'+ New 18"ø 100' RCP. Class III R.C.S.H. w/ Grate A
NB. 2490+50 New 18"ø 82' RCP. Class III R.C.S.H. w/ Grate A

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

PLAN SCALE
0 — 50 — 100
100 FEET

STAGE 2 CONSTRUCTION

BROCKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)
CONTRACT No. 2
SHEET 57 OF 426
745 263

PORTER, OPDYLN & MUNDSTROYIG
CONSULTING ENGINEERS
NEWARK, N.J.

112

I 89-1(11) Contract 3
Brookfield-Williamstown-Berlin
Stations NB 2493 — 2666+05.44
SB 2495 — 2666+95.66

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT

INTERSTATE PROJECT

TOWNS OF BROOKFIELD, WILLIAMSTOWN, AND BERLIN

COUNTIES OF ORANGE & WASHINGTON

INTERSTATE ROUTE 89

WHITE RIVER JCT. – MONTPELIER

PROJECT NAME & NUMBER — TYPE STAGE I
BROOK.-WILL.-BERLIN I 89-1(11) C-3 GRADING & DRAINAGE

CONTRACT 3

BEGINNING AT A POINT IN WILLIAMSTOWN APPROXIMATELY 0.165 MILES SOUTHERLY OF THE BERLIN – WILLIAMSTOWN TOWN LINE AND EXTENDING NORTHERLY FOR A DISTANCE OF 3.425 MILES
LENGTH OF ROADWAY 17,909.12 FEET 3.392 MILES
LENGTH OF BRIDGE 174.09 FEET 0.033 MILES
LENGTH OF CONTRACT 18,083.21 FEET 3.425 MILES
ELEVATION DATUM 1929 ADJ.

RECORD PLANS

MATERIALS

SUBBASE OF GRAVEL – LOWE PIT – BERLIN, VT. & KING PIT – S. BARRE, VT.
SUBBASE OF SAND-KING PIT – S. BARRE, VT.
SUBBASE OF CRUSHED ROCK – GALLUP QUARRY – BERLIN, VT.
CONCRETE CLASS AA & B – KELLEY CONST. INC – MONTPELIER, VT.
RETARDER – (DARAFLO) W. R. GRACE & CO., INC – CAMBRIDGE, MA.
REINFORCING & STRUCTURAL STEEL & SHEAR CONNECTORS – BANCROFT & MARTIN – S. PORTLAND, ME.
STEEL PILING – BETHLEHEM STEEL CORP. – SAUSON, PA.
METAL CULVERT PIPE – NORTHEASTERN CULV. CO. – WESTMINSTER, VT.
REINF. CONC. PIPE – HUME PIPE CO. – WINDSOR, VT.
CATCH BASIN, MANHOLE & GRATES A & B – ELLELEARON FOUNDRY CO. – BROCKTON, MA.
JOINT SEALER – PREFORMED – D.S. BROWN CO. – NO. BALTIMORE, OHIO.

TRAFFIC DATA

1965	ADT	2500	2650
1989	ADT	6780	6920
1989	DHV	1078	935
	D	59%	59%
	T	6%	7%
	V	60	60

GUARD RAIL & FENCE ITEMS & EROSION CONTROL ITEMS – S. I. SHISWOLD & CO., INC. – WILLISTON, VT.
EPOXY COATING COMP. & WATER REPELLENT – KIRBY EQUIPMENT CO. INC. – WHITE RIVER JUNCTION, VT.
BRIDGE RAILING – HOWE ENGINEERING CO. – INDY., IND.
BRIDGE PAINT – AMSTERDAM COLOR WORKS – NEW YORK, N.Y.

CONTRACTOR – GREEN CONSTRUCTION, CO. DES MOINES, IOWA.
RESIDENT ENGINEER – LEGRAND DUNN.
INSPECTORS – D. ALLEN, L. BLETZ, L. BURGETT, J. CUETO, C. LANERIE, G. MCGINNIS, L. PIERSON, W. PIDDLE, G. POMERANCY, E. PRATT, A. STONE, J. WALKER, L. FELTY, S. WYCHECOK & S. WICKENZIL.
RECORD PLANS – P.W.U & A.G. SMIDLE.

INDEX OF SHEETS

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5 TYPICAL SHEET, SOUTH BARRE ACCESS ROAD (SOUTH BARRE INTERCHANGE) AND ONE-WAY RAMP TYPICALS
6 TYPICAL SHEET, RELOCATED TH-57 (BERLIN) AND RELOCATED SA-5 & SA-1 (BERLIN)
7 TYPICAL SHEET, RELOCATED T-65 (BERLIN)
8-9 QUANTITY SHEETS
10-15 DRAINAGE SHEETS
16-27 EARTHWORK AND STAGE SHEETS
27A-27F R.O.W. DETAIL SHEETS
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64-67 LAYOUT AND GRADE SHEETS (SOUTH BARRE INTERCHANGE)
68-69 DRAINAGE DETAIL SHEETS
70 A-60 SOLID ROCK EXCAVATION 12/21/67 R
71 B-1 BANKING TABLES 7/17/67 R
72 B-5 TYPICAL SLOPE GRADING 3/10/65
73 BLANK
74 B-10 EMBANKMENT ON A SLOPE 3/10/65
75 B-11 USE OF UNDERDRAIN WITH SHATTERED ROCK SUBGRADE 3/10/65
76 B-15 ENTRANCE & EXIT TERM. 7/21/67 R
77 B-16 DIVIDONAL ISLANDS 7/21/67 R
77a B-17 DETAILS OF REST AREA 9/12/67 R
78 D-2 HEADWALLS 7/25/67 R
79 D-3 GUTTERS 7/19/67 R
80 D-4 ELBOWS AND FLUSHING BASINS 12/4/68 R
81 A-61 SOLID ROCK EXCAVATION 8/7/67 R
82 D-6 DROP INLET FOR USE IN DITCHES 6/23/66
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84 D-9 REIN. CONC. DROP INLET TOP WITH GRANITE CURB 3/10/65
85 D-10 DROP INLET TOPS 3/10/65
86 D-11 DETAILS OF GRATES AND COVERS 3/10/65
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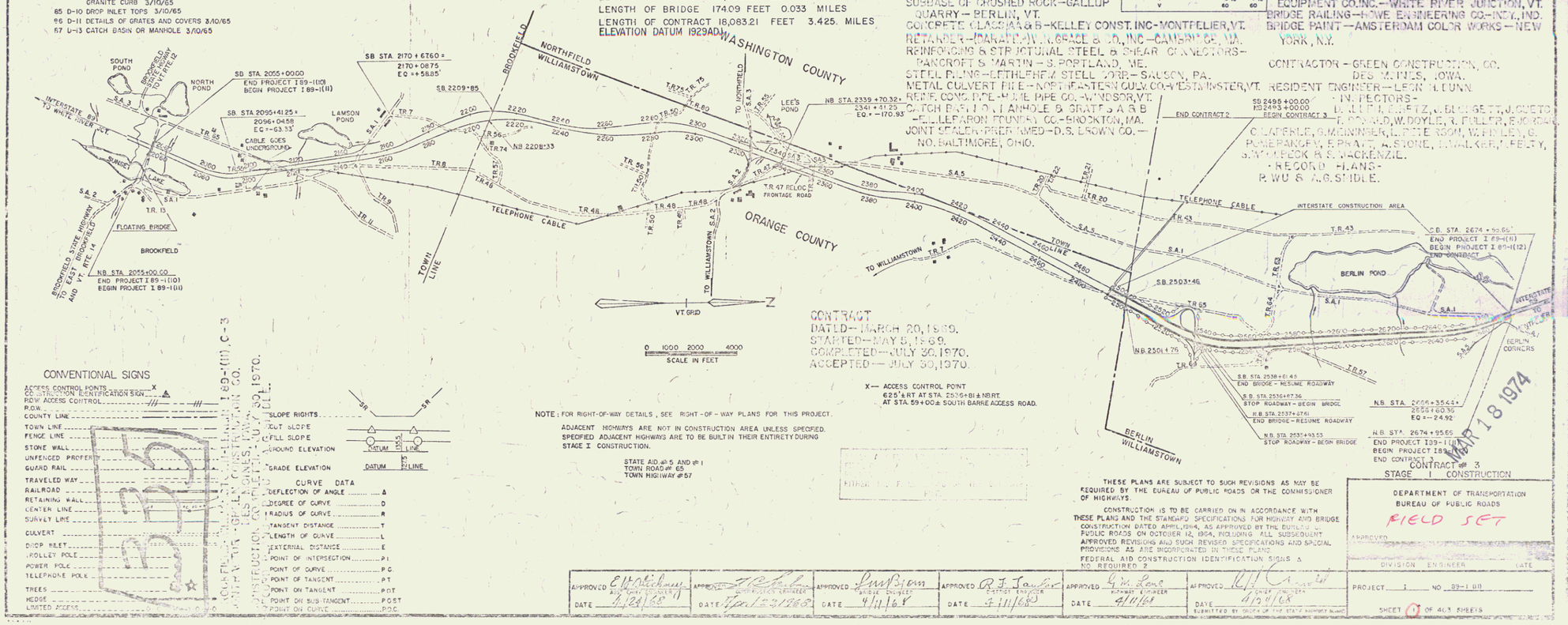
88 D-16 PRECAST CONC. DROP INLET AND GRATES TYPE 3 SNG. C 7/12/67 R
89 E-31 CONSTRUCTION IDENTIFICATION SIGNS 8/21/67 R
90 E-32 ROAD CONSTRUCTION APPROACH SIGNS 1/6/67
91 BLANK
92 E-34 ON PROJECT CONSTRUCTION SIGNS 5/3/67 R
93 F-1 PROPERTY LINE FENCE 11/25/67 R
94 BLANK
95 G-2a TWO CABLE GUARD RAIL 12/3/68 R
96 BLANK
97 BLANK
98 BLANK
99 G-4 PLANK GUARD RAIL AND MARKER POSTS 12/30/65 R
100 J-1 PROJECT AND BOUNDARY MARKERS 3/10/65
101 BLANK
102-126 BRIDGE DETAILS I-89 OVER SOUTH BARRE ACCESS ROAD (BR 100-120)
122-127 SCB-D1, D2, D4, D6, D7, D9-67 (ALL) 12/4/68
128 SB-R1-64 11/8/66 R
129 SB-R1-64 1/31/68 R
130 SB-R2-65 11/8/66 R
131-241 NORTHBOUND CROSS SECTIONS (2493+00 – 2666+00)
242-343 SOUTHBOUND CROSS SECTIONS (2495+00 – 2666+50)
344-349 COMBINED NB & SB CROSS SECTIONS (2666+3544 = 2674+9566) (2666+6036 = 2674+9566)
350 SOUTH BARRE INTERCHANGE KEY TO CROSS SECTIONS
351-358 RAMP A' (SOUTH BARRE INTERCHANGE) CROSS SECTIONS
359-364 RAMP B' (SOUTH BARRE INTERCHANGE) CROSS SECTIONS
365-370 RAMP C' (SOUTH BARRE INTERCHANGE) CROSS SECTIONS
371-374 RAMP D' (SOUTH BARRE INTERCHANGE) CROSS SECTIONS
375-389 SOUTH BARRE ACCESS ROAD CROSS SECTIONS
390-392 RELOCATED T-65 CROSS SECTIONS
393-397 RELOCATED T-57 CROSS SECTIONS
398-403 RELOCATED SA-1 & SA-5 CROSS SECTIONS
403A-403L NB & SB REST AREA CROSS SECTIONS



CONVENTIONAL SIGNS

ACCESS CONTROL POINTS
CONSTRUCTION IDENTIFICATION SIGN
ROW ACCESS CONTROL
ROW
COUNTY LINE
TOWN LINE
FENCE LINE
STONE WALL
UNFENCED PROPERTY
GUARD RAIL
TRAVELED WAY
RAILROAD
RETAINING WALL
CENTER LINE
SURVEY LINE
CULVERT
DROP INLET
TROLLEY POLE
POWER POLE
TELEPHONE POLE
TREES
BRUSH
LIMITED ACCESS

SLOPE RIGHTS
CUT SLOPE
FILL SLOPE
GROUND ELEVATION
GRADE ELEVATION
DATUM
SR LINE

CURVE DATA

DEFLECTION OF ANGLE ..... Δ
DEGREE OF CURVE ..... D
RADIUS OF CURVE ..... R
TANGENT DISTANCE ..... T
LENGTH OF CURVE L
EXTERNAL DISTANCE ..... E
POINT OF INTERSECTION ..... PI
POINT OF CURVE ..... P.C.
POINT OF TANGENT ..... P.T.
POINT ON TANGENT ..... P.O.T.
POINT ON SUB-TANGENT ..... P.O.S.T.
POINT ON CURVE ..... P.O.C.

CONTRACT
DATED – MARCH 20, 1969.
STARTED – MAY 5, 1969.
COMPLETED – JULY 30, 1970.
ACCEPTED – JULY 30, 1970.

X — ACCESS CONTROL POINT
625' ± RT AT STA. 2536+81 ± NB RT.
AT STA. 59+00 ± SOUTH BARRE ACCESS ROAD.

NOTE: FOR RIGHT-OF-WAY DETAILS, SEE RIGHT-OF-WAY PLANS FOR THIS PROJECT.

ADJACENT HIGHWAYS ARE NOT IN CONSTRUCTION AREA UNLESS SPECIFIED. SPECIFIED ADJACENT HIGHWAYS ARE TO BE BUILT IN THEIR ENTIRETY DURING STAGE I CONSTRUCTION.

STATE AID #5 AND #1
TOWN ROAD #65
TOWN HIGHWAY #57

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER OF HIGHWAYS.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION DATED APRIL, 1964, AS APPROVED BY THE BUREAU OF PUBLIC ROADS ON OCTOBER 12, 1964, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

FEDERAL AID CONSTRUCTION IDENTIFICATION SIGNS Δ NO. REQUIRED 2

APPROVED	E. Whitney	APPROVED	H. Cole	APPROVED	Guy Bloom	APPROVED	R. J. Taylor	APPROVED	G. W. Love
AREA ENGINEER		CONSTRUCTION ENGINEER		BRIDGE ENGINEER		DISTRICT ENGINEER		HIGHWAY ENGINEER	
DATE	9/23/68	DATE	April 23 1968	DATE	4/11/68	DATE	4/11/68	DATE	4/11/68

APPROVED [illegible]
CHIEF ENGINEER
DATE 4/24/68
SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

DEPARTMENT OF TRANSPORTATION
BUREAU OF PUBLIC ROADS
FIELD SET
APPROVED
DIVISION ENGINEER — DATE

PROJECT I NO 89-1 (11)
SHEET 1 OF 403 SHEETS

CONTRACT NO. 3
STAGE I CONSTRUCTION

FIELD NOTE REGION NO. 1 | STATE VT | PROJECT NO I 89-1 (11) | YEAR WAR | SHEET NO. 1 | TOTAL SHEETS

APR 18 1974

113

* DENOTES STAGE 2 ITEMS

Three Cable Guard Rail w/Lt. Steel Posts Item 538 NB 2496+52 – 2498+00 Lt.

Demolition and Disposal of Building, Item 580
No. 9A SB 2497+86 ℄
No. 9 SB 2498+12 RT.
No. 9D SB 2497+81 LT.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2483+00	2498+00	RT.
SOUTHBOUND		
2495+00	2499+00	LT.

Drilling & Blasting of Solid Rock Subgrade Item 115
SB 2495+00 – 2499+00
NB 2493+00 – 2496+25.00

END CONTRACT No. 2
NB. STA. 2493+0000
SB. STA. 2495+00.00

BEGIN CONTRACT No. 3
NB. STA. 2493+0000
SB. STA. 2495+00.00

SB. POT. STA. 2491+6698

SB. POT. STA. 2494+8456

SB 2495+50 New 18" RCCP

SB 2495+50 – 2499+00 New 18" RCCP

FILL
CUT

WOODS

OUTHOUSE

FIELD

I-2

#9D

#9A

#9

CAMP

STONE FIREPLACE

SCATTERED WOODS & BRUSH

MATCH LINE SEE SHEET No. 30

2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2496 2497

N 28° 41' E

6" DIPS 1589

6" DIPS 1278

6" DIPS 1278

B.M.#488 U.S. ELEV 148073

B.M.#489 U.S. ELEV 1473.29

B.M.#487 U.S. ELEV 1459.36

SCATTERED APPLE TREES

CELLAR HOLE

WOODS & BRUSH

TOWN ROAD

P (GRAVEL ROAD)

N 27° 40' E

N 29° 55' E

2483 2484 2485 2486 2487 2488 2490 2491 2492 2494 2495 2496 2497

APPROXIMATE LOCATION OF WATER PIPE 3/4" PLASTIC

8" W 3144

6" DIPS 1839

NB. PI. STA. 2484+12.12 = 2484+11.89

NB. PT STA. 2493+0756

NB. POT STA. 2495+8145

WOODS & BRUSH

CONC. SPRING BOX

NB. 2498.00 New 30" HP CASING 14.63 LF

NB. CURVE DATA

Δ = 2° 14' 20"
D = 0° 07' 30"
R = 45,836.62'
T = 895.67'
L = 1791.11'
E = 8.75'
Bank = 1/4" Per Ft.

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

PLAN SCALE
0 50 100
100 FEET

STAGE 2 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 3

SHEET 22 OF 127 (603 265)

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

114

* DENOTES STAGE 2 ITEMS

Drilling and Blasting of Solid Rock
Subgrade Item 115
SB 2499+00 – 2503+50
NB 2503+00 – 2513+00
SB 2506+00 – 2515+00

Drilling and Blasting of Solid Rock Item 114
NB 2502+58 – 2503+75
SB 2503+45 – 2504+75

Stone Fill For Slope Protection (Light Type) Item 512
NB 2498+00Lt–SB 2500+65Rt.
NL 2512+50Lt–SB 2514+50Rt.

Plank Guard Rail, Item 540
SB 2504+45Lt. 32 Lf.

* Three Cable Guard Rail w/Lt. Steel Posts Item 538
NB 2498+00–2505+48 Lt.

Steel-Backed Steel Plank Guard Rail, W. Steel Posts (4'-3" Spacing)
U-Term NB. 2506+50 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-2 MOD.

STA.	STA.	POS.
NORTHBOUND		
2498+00	2513+00	RT.
SOUTHBOUND		
2499+00	2515+00	LT.

FILL
CUT

MATCH LINE SEE SHEET No. 28

MATCH LINE SEE SHEET No. 32

ORANGE COUNTY
WASHINGTON COUNTY

TOWN OF WILLIAMSTOWN
TOWN OF BERLIN

FBM # B-B16
U.S. ELEV. 1423.77

BRONZE DISC SET IN LEDGE

TOWN ROAD #65

GRAVEL ROAD

CELLAR HOLE

SB. STA. 2502+59.98

SB. STA. 2503+28

NB. STA. 2501+76

BEGIN ACCELERATION LANE
SB. STA. 2511+32.00 Lt.

SB. POT. STA. 2512+02.70

NB. POT. STA. 2503+7926

NB. POT. STA. 2507+4400

NB. POT. STA. 2510+3229

BM. # 490
U.S. ELEV. 1455.78

BM. # 491
U.S. ELEV. 1448.70

BM. # 492
U.S. ELEV. 1455.71

SB 2499+00–2504+88 Rt. New 18" x 30" ACCOMP. 16 Ga.

SB 2500+65–2502+00 Lt. New 30" x 48" RCCP, Class III

SB 2502+00–2503+50 Rt. Construct Special Ditch, Item 106

SB 2503+45–2504+75 Rt. New 24" x 38" ACCOMP. 16 Ga.

SB 2505+65–2506+50 Rt. New 24" x 38" ACCOMP. 16 Ga.

SB 2510+00 Lt. New 19" x 30" RCP, Cl. III, Gr. 5

SB 2510+60 New 18" x 29" RCP, Class III

SB 2514+50 New 18" x 29" RCP, Class III

NB 2504+30 New 24" x 38" CAECP 16 Ga.

NB 2503+00 Lt–SB 2510+65 Rt. Construct Special Ditch, Item 106

NB 2503+00 New 19" x 30" RCP, Class III

NB 2512+50 Lt–SB 2514+50 Rt. Construct Special Ditch, Item 106

NB 2512+50 New 18" x 29" RCP, Class III

SCATTERED WOODS & BRUSH
SCATTERED BRUSH
WOODS & BRUSH
WOODS
PINE SEEDLINGS
PASTURE
PASTURE & SCATTERED BRUSH
TREES
Grade To Drain
SPRING

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

PLAN SCALE
0 50 100
100 FEET

STAGE 2 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1 (11)(29)

CONTRACT No. 3

SHEET 30 OF 403
129 265

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

115

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type) Item 512
NB 2516+00 Lt. – SB 2518+50 Rt.

* Standard Steel Beam Guard Rail w/Steel Posts (6'-3" Spacing) Item 545-A
Ramp "C" 36+02 – 37+06 Lt.

* Granite Slope Edging Item 556-A
Ramp "D" 35+97 – 38+00 Rt.

Drilling and Blasting of Solid Rock Subgrade Item 115
SB 2515+00 – 2530+00
NB 2513+00 – 2513+25
NB 2514+50 – 2529+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA.	STA.	POS.
NORTHBOUND		
2513+00	2529+00	RT.
SOUTHBOUND		
2515+00	Ramp "C" 37+00	LT.

RAMP "C" CURVE DATA
Δ = 42° 04' 21"
D = 8° 00' 00"
R = 716.20'
T = 275.44'
L = 525.90'
E = 51.14'
Bank = 7/8" Per Ft

RAMP "C" CURVE (A) PI STA 41+2093 = 33+8794
RAMP "C" POC STA. 34+50.00
RAMP "C" PI STA. 33+99.46 = 33+7448
RAMP "C" POT STA 36+49.92
SB POT STA. 2521+32.40 = RAMP "C" PC STA. 31+24.02 – 24.00' LT. END ACCELERATION LANE
SB POT STA. 2517+88.81
SB POT. STA. 2520+41.61
SB PC STA. 2527+92.77
SB POST STA. 2529+50.56
SB POST STA. 2525+50.56
NB POC STA. 2518+65.20
NB POC STA. 2522+50.00
NB POC STA. 2524+50.00
NB POC STA. 2528+00.00
BEGIN DECELERATION LANE NB. 2523+82.80 RT.

MATCH LINE SEE SHEET No. 30 STA. 37+00.00
MATCH LINE SEE SHEET No. 34 STA. 38+00.00
MATCH LINE SEE SHEET No. 37

BM 493-S U.S. Elev. 1425.46
BM #493-A U.S. ELEV. 1439.52
BM #493 U.S. ELEV. 1449.84
BM 493-N U.S. Elev. 1464.37
BM #494 U.S. ELEV. 1448.87
BM #495 U.S. ELEV. 1448.84
PBM #B-819 U.S. ELEV. 1431.60

SB 2518+00 New 30" x 98' ACCGMP, 14 Ga. Gr. A
SB 2520+23 Lt. 30" ACCGMP, 16 Ga. Construct New Spring Box For Details See Sheet 152 of 403
SB 2523+00 Rt. New 24" x 101' RCP, Class III
SB 2527+76 New 18" x 96' RCP, Class III Gr. A
SB 2523+00 Rt. New 24" x 29' ACCGMP 16 Ga.
NB 2516+00 New 30" x 98' ACCGMP, 14 Ga.
NB 2516+00 Lt. – SB 2518+93.93 Rt. Construct Special Ditch, Item 106
NB 2521+00 New 18" x 98' RCP, Class III
NB 2521+00 Lt. – SB 2523+00 Rt. Construct Special Ditch, Item 106
NB 2525+50 New 18" x 65' ACCGMP, 16 Ga.
NB 2525+50 – 2529+00 Lt. New 18" x 350' ACCGMP, 16 Ga.

FILL
CUT

FOR PROFILES OF RAMPS "C" & "D" SEE SHEET 35 OF 403
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

PLAN SCALE
0 50 100
100 FEET

STAGE 2 – 1 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 3

SHEET 32 (131) OF 403 (263)

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS
MONTPELIER, VT.

116

* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type) Item 512 T-65: 11+00 Rt. (Inlet Ditch)

* Three Cable Guard Rail w/Lt. St. Posts Item 538 S.B.A.R. 40+75 ~ 45+56 Rt. Ramp "D" 38+52 ~ 40+75 Rt.

* Standard Steel Beam Guard Rail w/Steel Posts (6'-3" Spacing) Item 545-A S.B.A.R. 40+75~47+14 Lt. Ramp "C" 37+00~40+79 Lt.

* Bituminous Concrete Surface For Gutters & Traffic Islands, Item 554, Mod. S.B.A.R. 42+50 Median S.B.A.R. 45+00 Median S.B.A.R. 47+60 Median Ramp "D" 38+90 Rt. Ramp "D" 40+00 ~ 45+00

RELOCATED T-65 CURVE DATA
Δ = 37° 30' 00"
D = 12° 00' 00"
R = 477.47'
T = 161.08'
L = 312.50'
E = 26.76'
Bank = 1/2" Per Ft.

* Treated Timber Curb, Item 558 S.B.A.R. 40+78 ~ 45+02 Rt. Ramp "D" 40+37.44 ~ 40+75 Rt.

* Granite Slope Edging, Item 556-A S.B.A.R. 40+75~49+84.52 Median Ramp "C" 40+37.44~40+75 Rt. Ramp "D" 38+00 ~ 40+37.44 Rt. Ramp "D" 40+37.44~40+75 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 585-II MOD.

STA.	STA.	POS.
SOUTH BOUND		
Ramp "C" 37+00	39+39 + 72	LT.

CONSTRUCT DRIVE ROW BID ITEM
~~13+36 LT.~~
12+00

VT. GRID

FILL
CUT

RELOC. T-65 PI STA 10+0000 = 9+8834

RELOC. T-65 PT STA 11+5042

RELOC. T-65 PC STA 13+0856

RELOC. T-65 PI STA 13+8846 = 13+6699

RELOC. T-65 PT STA 14+6689

STA. 16+00 END CONSTRUCTION

RELOC. T-65 PC STA 8+3792

RELOC. T-65 PT STA 6+9033

RELOC. T-65 PI STA 6+3083 = 6+2983

RELOC. T-65 PC STA 5+7033

STA. 4+50 BEGIN CONSTRUCTION

RELOCATED T-65 CURVE DATA
Δ = 19° 00' 00"
D = 12° 00' 00"
R = 477.47'
T = 79.90'
L = 158.33'
E = 6.39'
Bank = 1/2" Per Ft.

RELOCATED T-65 CURVE DATA
Δ = 18° 00' 00"
D = 15° 00' 00"
R = 381.97'
T = 60.50'
L = 120.00'
E = 4.76'
Bank = 1/2" Per Ft.

S. BARRE ACC. RD. CURVE (B) DATA
Δ = 71° 20' 47"
D = 14° 01' 04"
R = 408.74'
T = 293.42'
L = 508.97'
E = 94.41'
Bank = 1" Per Ft.

S. BARRE ACC. RD. CURVE (C) DATA
Δ = 35° 02' 57"
D = 8° 00' 00"
R = 716.20'
T = 226.15'
L = 438.11'
E = 34.86'
Bank = 7/8" Per Ft.

RAMP "D" CURVE (A)
Δ = 141° 00' 00"
D = 24° 54' 40"
R = 230.00'
T = 649.50'
L = 566.01'
E = 459.02'
Bank = 1" Per Ft.

S. BARRE ACC. RD. POC STA 45+46.41

S. BARRE ACC. RD. POC STA 47+50.00

S. BARRE ACC. RD. PI STA 47+72.56 = 47+58.37

S. BARRE ACC. RD. PT STA 49+84.52 = S. BARRE ACC. RD. POT STA. 49+84.52 24.00' LT.

RAMP "C" POC STA. 40+37.44 = RAMP "C" STA. 40+37.44 48' LT

RAMP "D" POC STA. 40+37.44 = RAMP "D" STA. 40+37.44 48' LT

MATCH LINE SEE SHEET No. 32 STA. 38+00.00

MATCH LINE SEE SHEET No. 32 STA. 37+00.00

MATCH LINE SEE SHEET No. 37 STA. 49+84.52

Reloc. T-65 5'x7'5" 12" CSMP Remove Item 106

Reloc. T-65 Inlet w/ Hood New 24"x40" ACCGMP 16 Ga. Energy Dissipator @ Outlet

New 18"x29" ACCGMP, 16 Ga. 150'

New 18"x29" ACCGMP, 16 Ga. 22'

2 Conc. Barrels @ 11' Joints

Access Rd. 42+50 Rt. New 18"x29" ACCGMP, 16 Ga. 2 Conc. Barrels @ 11' Joints

Access Rd. 43+50 Rt. New 24"x29" ACCGMP, 14 Ga.

Access Rd. 45+00 Rt. New 18"x29" ACCGMP, 16 Ga.

Access Rd. 45+00 Med.-Rt. New 18"x24" ACCGMP, 16 Ga.

Access Rd. 47+00 Rt. New 18"x29" ACCGMP, 16 Ga.

Access Rd. 47+50 Med.-Lt. New 18"x29" ACCGMP, 16 Ga. 44'

Access Rd. 47+50 Med.-Lt. New 18"x24" ACCGMP, 16 Ga. 24'

Reloc. T-65 Inlet w/ Hood New 24"x40" ACCGMP, 16 Ga. Energy Dissipator @ Outlet

* DENOTES STAGE 2 ITEMS

* Bridge Railing for Bridge Approaches Item 572
NB 2533+37 ~ 2535+82 Rt.
NB 2537+82 ~ 2538+96 Rt.
NB 2533+26 ~ 2535+70 Lt.
NB 2537+71 ~ 2538+85 Lt.
SB 2525+35 ~ 2536+76 Rt.
SB 2538+75 ~ 2541+00 Rt.
SB 2535+105 ~ 2536+65 Lt.
SB 2538+63 ~ 2538+88 Lt.

* Treated Timber Curb, Item 558
NB 2543+955 ~ 2544+00 Rt.
NB 2537+71 ~ 2544+00 Lt.
SB 2538+68 ~ 2546+00 Lt.
Ramp "B" Rev. 7+00 ~ 9+53 Rt.

* Granite Slope Edging Item 536-A
S.B.A.R. 49+84.52 55+00 Median
Ramp "D" 34+71.43 ~ 35+97 Rt.

Jute Matting Item 623
NB 2540+25 ~ 2544+00 Lt.

Bituminous Concrete Surface for Gutter & Traffic Islands
NB 2537+50 ~ 2544+00 Lt.
Ramp B 7+00 ~ 9+53
S.B.A.R. 51+75 ~ 51+10
S.B.A.R. 52+55 ~ 53+00
S.B. 2546+00 ~ 2546+65

Drilling and Blasting of Solid Rock Subgrade ITEM 115
SB 2530+00 ~ 2535+750
NB 2529+00 ~ 2535+750
Ramp "B" 7+00 ~ 9+53
S.B.A.R. 49+84.52 ~ 51+75
S.B.A.R. 51+10 ~ 52+55
S.B. 2538+68 ~ 2546+00

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA.	STA.	POS.
NORTHBOUND		
2529 + 00 ·	Ramp "A" 3+00	RT.
Ramp "B" 7+00	2544 + 00	RT.
SOUTHBOUND		
2539 + 72	2546+00 ·	LT.

* Three Cable Guard Rail w/Lt. Steel Posts Item 538
NB 2538+48 ~ 2541+55 Rt.
NB 2538+87 ~ 2544+00 Lt.
SB 2540+53 ~ 2546+00 Rt.
Ramp "B" 7+00 ~ 7+52 Lt.

* Standard Steel Beam Guard Rail w/Steel Posts (6'-3" Spacing) Item 545-A
Ramp "B" 7+00 ~ 2543+955 Rt M.L.
NB 2543+955 ~ 2544+00 Rt.
S.B. 2538+88 ~ 2546+00 Lt.
S.B.A.R. 49+84.52 ~ 49+48 Rt. & Lt.
S.B.A.R. 50+18 ~ 50+48 Rt. & Lt.

RAMP "D" CURVE (A)
Δ = 14° 00' 00"
D = 2° 54' 40"
R = 2000'
T = 246.50'
L = 556.01'
E = 34.59.02'
Bank = 1" Per Ft.

SB CURVE DATA
Δ = 25° 27' 00"
D = 1° 00' 00"
R = 5729.58'
T = 1293.84'
L = 2545.00'
E = 144.27
Bank = 5/16" Per Ft.

REV. RAMP "A" CURVE DATA
Δ = 64° 10' 52"
D = 6° 30' 00"
R = 881.47'
T = 552.74'
L = 987.40'
E = 158.97'
Bank = 3/4" Per Ft.

SURV. RAMP "A" CURVE DATA
Δ = 64° 44' 21"
D = 6° 02' 32"
R = 948.26'
T = 601.08'
L = 1071.45'
E = 174.45'
Bank = 3/4" Per Ft.

NB. CURVE DATA
Δ = 31° 42' 20"
D = 0° 37' 30"
R = 9167.33'
T = 2603.33'
L = 5072.89'
E = 362.46'
Bank = 1/4" Per Ft.

REV. RAMP "B" CURVE DATA
Δ = 34° 44' 12"
D = 12° 00' 00"
R = 477.46'
T = 149.34'
L = 289.47'
E = 22.81'
Bank = 1" Per Ft.

SURV. RAMP "B" CURVE DATA
Δ = 96° 32' 46"
D = 10° 00' 00"
R = 572.96'
T = 642.48'
L = 965.48'
E = 287.89'
Bank = 15/16" Per Ft.

NOTE:
SEE SHEETS BR 100 SERIES FOR THE ABOVE STRUCTURES.

FOR PROFILES OF RAMPS "A" & "B" SEE SHEET 40 OF 403.
FOR PROFILE OF SOUTH BARRE ACCESS ROAD SEE SHEET 41 OF 403.
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

PLAN SCALE
0 50 100
100 FEET

STAGE 2 CONSTRUCTION

BROOKFIELD – WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 3

SHEET 37/135 OF 407/263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

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* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type Item 512
G.G.A. R. 62+50 Rt. (Inlet Ditch)

* Three Cable Guard Rail w/Lt. Steel Posts Item 538
Ramp "B" 3+52 ~ Rev. 7+00 Lt.

* Treated Timber Curb, Item 558
S.B.A. 60+16.09 ~ 60+53 Lt.
Ramp "B" 0+00 ~ Rev. 7+00 Rt.

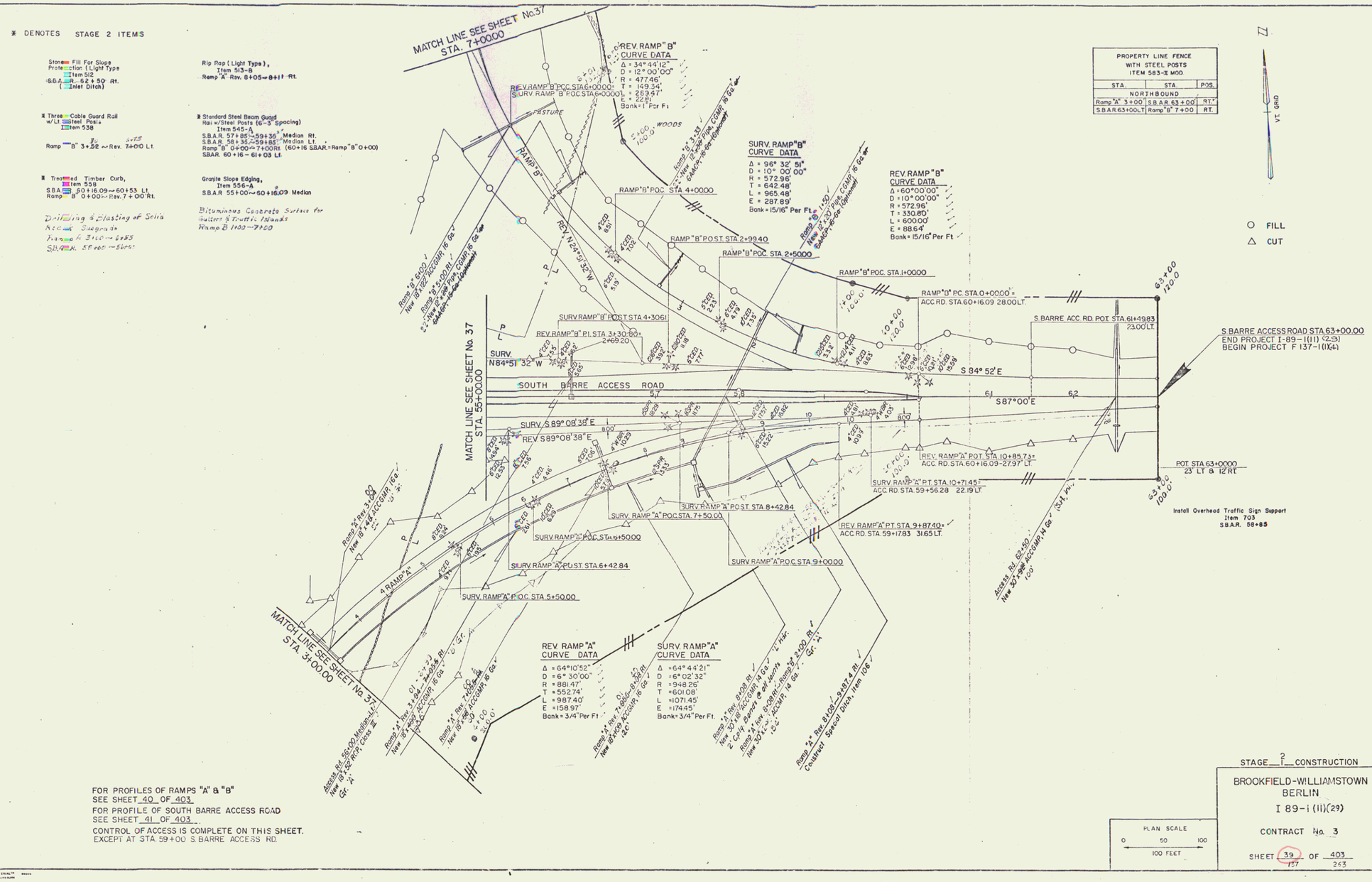
Drilling & Blasting of Solid Rock Suspension
Ramp A 3+10 ~ 6+85
S.B.A. 55+00 ~ 56+65

Rip Rap (Light Type), Item 513-B
Ramp "A" Rev. 8+05 ~ 8+11 Rt.

* Standard Steel Beam Guard Rail w/Steel Posts (6'-3" Spacing) Item 545-A
S.B.A.R. 57+85 ~ 59+35 Median Rt.
S.B.A.R. 58+35 ~ 59+85 Median Lt.
Ramp "B" 0+00 ~ 7+00 Rt. (60+16 S.B.A.R. = Ramp "B" 0+00)
S.B.A.R. 60+16 ~ 61+03 Lt.

Granite Slope Edging, Item 556-A
S.B.A.R 55+00 ~ 60+16.09 Median

Bituminous Concrete Surface for Gutter & Traffic Islands
Ramp B 1+03 ~ 7+20



FOR PROFILES OF RAMPS "A" & "B" SEE SHEET 40 OF 403

FOR PROFILE OF SOUTH BARRE ACCESS ROAD SEE SHEET 41 OF 403

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET. EXCEPT AT STA. 59+00 S. BARRE ACCESS RD.

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

STAGE 2 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1 (11)(29)

CONTRACT No. 3

SHEET 39 OF 403
137 263

PLAN SCALE
0 50 100
100 FEET

119

* DENOTES STAGE 2 ITEMS

Bituminous Concrete Surface for Grading & Paving Items 19 & 19 P
NB. 2544+00 ~ 2546+50 Rt
NB. 2551+00 ~ 2551+63 Lt.
SB. 2544+00 ~ 2547+00

Stone Fill For Slope Protection (Light Type) Item 512
NB: 2544+00 ~ 2547+50 - Rt

* Three Cable Guard Rail w/Lt. Steel Posts Item 538
NB. 2544+00 ~ 2543+96 Lt.
SB. 2546+00 ~ 2551+12 Rt

* Standard Steel Beam Guard Rail w/Steel Posts (6'-3" Spacing) Item 545-A
N.B. 2544+00 ~ 2549+43 Rt.
S.B. 2546+00 ~ 2551+00 Lt.

* Treated Timber Curb, Item 558
NB. 2544+00 ~ 2546+00 Rt
NB. 2543+00 ~ 2548+00 Lt +
SB. 2546+00 ~ 2550+50 Lt.
Ramp 'B' Rev. 7+00 ~ 9+63 Rt.

Jute Matting Item 623
NB. 2544+00 ~ 2546+50 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA.	STA.	POS.
NORTHBOUND		
2544+00	2559+00	RT.
SOUTHBOUND		
2546+00	2561+00	LT.

Drilling and Blasting of Solid Rock Subgrade Item 115
NB 2549+25 ~ 2559+00
SB 2551+25 ~ 2561+00

VT. GRID

FILL
CUT

B.M. 499
U.S. Elev.
1342.

PBM #B-620
U.S. ELEV.
1377.79

BM # 499
U.S. ELEV.
1349.97-N.
1348.32-S.

BM # 500
U.S. ELEV.
1407.78

BM # 501
U.S. ELEV.
1423.22

NB. POC STA 2544+5000

NB. POC STA 2543+93.39
SURV. RAMP "B" P.T. STA 9+6548 32.20 RT.

NB. PI STA. 2544+6853
2543+34.76

NB. POC STA 2551+5000

SB. POC. STA. 2551+5000

SB. PT STA. 2553+37.77

SB. POT STA. 2555+0969

SB. POT. STA. 2558+6969

NB. POC STA. 2556+0000

END ACCELERATION LANE
NB. REV. P.O.C. STA. 2553+1920 RT.

1000' ACCELERATION LANE INCLUDING 300' TAPER

MATCH LINE SEE SHEET No. 37

MATCH LINE SEE SHEET No. 44

N 1° 48' W

N 3° 14' E

NB. CURVE DATA
Δ = 31° 42' 20"
D = 0° 37' 30"
R = 9167.33'
T = 2603.33'
L = 5072.89'
E = 362.46'
Bank = 1/4" Per Ft

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS
CINCINNATI, OHIO

PLAN SCALE
0 50 100
100 FEET

STAGE 2 1 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)
CONTRACT No. 3
SHEET 42/140 OF 403'/263

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* DENOTES STAGE 2 ITEMS

Bituminous Concrete Surface for Gutter & Traffic Islands
NB. 2564+94 – 2570 — 00 Lt.
NB. 2574+60 – 00 Lt.

Stone Fill For Slope Protection (Light Type), Item 512
NB. 2567+00 – 2571+50 Rt
SB. 2569+55 – 2570+05 Rt

* Three Cable Guard Rail w/Lt. Steel Posts Item 538
NB. 2563+62 – 2572+88 Rt

* Standard Steel Beam Guard Rail w/Steel Posts (6'-3" Spacing) Item 545-A
N.B. 2563+98 – 2572+98 Lt.
S.B. 2564+92 – 2575+00 Rt.
S.B. 2564+92 – 2575+00 Lt.

* Treated Timber Curb, Item 558
NB. 2563+00 – 2570+00 Lt.

Drilling and Blasting of Solid Rock Subgrade Item 115
NB 2559+00 – 2563+00
NB 2572+75 – 2573+00
SB 2561+00 – 2563+75

Plank Guard Rail, Item 540
NB. 2566+68 Rt. 16 L.F.
N.B. 2571+30 Rt. 24 L.F.
SB. 2570+10 Lt. 32 L.F.

* CONSTRUCT U-TURN
2563 +09 N.B. LT
75

Demolition and Disposal of Building, Item 586
SB. 2575+15 Rt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA	STA.	POS.
NORTHBOUND		
2559 + 00	2575 + 00	RT.
SOUTHBOUND		
2561 + 00	2575 + 00	LT.

VT. GRID

○ FILL
△ CUT

SB. POT STA. 2562+9195
SB. POT STA. 2567+4528
SB. POT STA. 2570+0366
SB. POT STA. 2570+2206
SB. POT STA. 2573+9157
SB. 2569+85 to 2571+35 Lt. New 18" x 36" ACCMP & Ga. Shielded
SB. 2574+00 – 8" CMP Remove Item 108
SB. 2573+45 – 2573+65 Rt. Construct Swales-Ditch, Item 106
1569+00 100.0'
CBM # 17-A U.S. ELEV 1268.22
BM # 504 U.S. ELEV 1309.19
BM # 502 U.S. ELEV 1315.99
B.M. # 503 U.S. ELEV 1297.86
BM 503-B U. S. Elev. 1302.28
BM 505-B U. S. Elev. 1327.40
N 3° 14' E
N 1° 48' W
2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573
FIELD
WOODS
WOODS & BRUSH
WATER COURSE
BROOK
WET
Grade to Drain
TOWN ROAD
GRAVEL ROAD
DRIVE
TRAILER
SHED
GUY WIRE
MATCH LINE SEE SHEET No. 42
MATCH LINE SEE SHEET No. 46
NB. POC STA 2560+00.00
NB. POC STA 2565+0000
NB. PT STA 2569+3809
NB. POT STA 2571+5863
NB. POT STA 2574+0000
RELOC T-57 PI STA 13+1453 = 12+4172
RELOC T-57 PC STA 10+0000
RELOC T-57 PT STA 15+5625
RELOC T-57POST STA 14+8309
NB 2559+00 – 2561+50 Lt. New 24" x 100' RCP, Class III
NB 2559+00 – 2561+50 Rt. New 24" x 100' RCP, Class III
NB 2561+50 – 2562+00 Lt. New 24" x 100' RCP, Class III
NB 2562+00 – 2564+00 Lt. New 24" x 100' RCP, Class III
NB 2564+00 – 2566+00 Lt. New 24" x 100' RCP, Class III
NB 2566+00 – 2566+60 Rt. Remove Item 106 Contract Special Ditch, Item 106
NB 2567+00 Lt. New 12"-30" Pipe CGMP, 16 Ga. w/Catch Basin Type 4 Item 604-A
NB 2567+00 – 2570+00 Lt. New 48" x 36" ACCMP, 10 Ga. Shielded w/Catch Basin Type 4 Item 604-A w/Grate
NB 2568+50 Lt. New 12"-30" Pipe CGMP, 16 Ga. w/Catch Basin Type 4 Item 604-A w/Grate
NB 2570+00 Lt. 12"-42" Pipe CGMP, 16 Ga.
NB 2568+60 – 2566+80 Rt. 15" CMP
NB 2574+00 – 2573+65 Rt. 15" CMP
NB 2574+00 – 2573+65 Rt. 18" CMP
NB 2574+00 – 2573+65 Rt. 24" CMP
NB 2574+00 – 2573+65 Rt. 30" CMP
NB 2574+00 – 2573+65 Rt. 36" CMP
NB 2574+00 – 2573+65 Rt. 42" CMP
NB 2574+00 – 2573+65 Rt.

* DENOTES STAGE 2 ITEMS

Rip Rap (Light Type), Item 512-B
~NB 2587+27~2587+33 Rt.
Reloc. T-57 20+96~27+04 Rt.

Drilling and Blasting of Solid Rock Subgrade Item 115
NB 2575+00 - 2585+25.00
SB 2576+25 - 2587+25.00
T.H. 37 11+58 - 21+58

Two Cable Guard Rail Item 541
Reloc. T-57 22+10~27+46 Lt.

* Standard Steel Beam Guard Rail w/Steel Posts (6'-3" Spacing) Item 545-A
SB 2575+00-2575+34 Rt.
SB 2575+00-2575+84 Lt.

* Three Cable Guard Rail w/ Lt. Steel Posts Item 538
NB 2589+50 - 2590+00 Rt.
SB 2589+46 - 2591+00 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2575+00	2590+00	RT.
SOUTHBOUND		
2575+00	2591+00	LT.

VT GRID

FILL
CUT

SB CURVE DATA
Δ = 6° 57' 20"
D = 0° 30' 00"
R = 11459.16'
T = 696.41'
L = 1391.11'
E = 21.14'
Bank = 1/4" Per Ft.

NB CURVE DATA
Δ = 1° 19' 00"
D = 0° 07' 30"
R = 45836.62'
T = 526.69'
L = 1053.33'
E = 2.87'
Bank = 1/4" Per Ft

REV. RELOC T-57 CURVE DATA
Δ = 23° 56' 40"
D = 11° 30' 00"
R = 498.22'
T = 105.65'
L = 208.21'
E = 11.08'
Bank = 1/2" Per Ft.

SB STA 2580+36.50 END ACCELERATION LANE

SB PC STA 2578+94.41

SB POC STA 2582+00.00

SB POST STA 2583+25.54

SB POST STA 2585+18.54

SB PI STA 2585+80.82 = 2585+79.11

SB POC STA 2589+50.00

NB POT STA 2575+30.26

NB PC STA 2584+40.34

NB POC STA 2589+50.00

NB PI STA 2589+67.03 = 2589+66.98

RELOC T-57 POT STA 18+00.00

RELOC T-57 POT STA 20+88.89

REV. RELOC T-57 PC STA 24+72.47

SURV. RELOC T-57 PC STA 23+75.63

SURV. RELOC T-57 PI STA 25+78.12 = SURV 25+72.21 REV. 25+75.03

SURV. RELOC T-57 PI STA 26+80.68

SURV. RELOC T-57 PI STA 27+74.40

B.M. #505 U.S. ELEV. 1358.99

B.M. #506 U.S. ELEV. +336.72

B.M. #506-N U.S. Elev. 1347.85

B.M. #507-N U.S. Elev. 1-05-64

MATCH LINE SEE SHEET No. 44

MATCH LINE SEE SHEET No. 50

N 3° 14' E

N 1° 48' W

N 3° 44' W

N 22° 08' 40" E

2325' Acceleration (includes 300' taper)

WOODS

BRUSH

FIELD

SCATTERED BRUSH

WOODS & BRUSH

TOWN ROAD #57

GRAVEL ROAD

DRIVE

LAWN

2 STY FR DWG

GARAGE

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

FOR PLAN & PROFILE OF RELOC. T-57 SEE SHEETS 48&49 OF 403

PLAN SCALE
0 50 100
100 FEET

STAGE 2 — 1 — CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 3

SHEET 46 OF 403
144 263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS MONTPELIER, VT.

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* DENOTES STAGE 2 ITEMS

CONSTRUCT DRIVE 10+50 RT.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA.	STA.	POS.
NORTHBOUND		
2572 +00 RT.	Reloc T-57 19+00	LT.

NB POT. STA. 2571+5863

RELOC T-57 P.I. STA 13+14.53°
12+44.72

Reloc. T-57 10+00 12"CCMP Remove 1Han #06

TOWN ROAD # 57

RELOC T-57

RELOC T-57 P.C. STA 10+0000

12"CCMP

TYP. ST. 14+00 - 15+00 Rt. New 6"x 75' thick., Type II New 2"x 30' thick.

RELOC. T-57 POST STA 14+8309

RELOC. T-57 CURVE DATA

Δ = 66° 45' 00"
D = 12°00'00"
R = 477.46'
T = 314.53'
L = 556.25'
E = 94.29'
Bank = 1/2" Per Ft.

10+50 RT. New 12"x 24' Pipe 10% Skew 45° CCMP 16 Ga.

Reloc. T-57 11+00 New 18" x 36' Pipe-Arch CCMP 16 Ga. w/ SAMP-16 Ga. (Optional)

Reloc. T-57 14+00 New 18" x 36' Pipe-Arch CCMP 16 Ga. w/ SAMP-16 Ga. (Optional)

RELOC T-57 P.T. STA 15+5625

RELOC T-57 P.T. STA 18+00.00

NOTE: RELOCATED T-57 IS TO BE BUILT IN ITS ENTIRETY DURING STAGE I CONSTRUCTION.

9+0000 BEGIN CONSTRUCTION

MATCH LINE SEE SHEET No. 49 STA. 19+0000

NB POT. STA 2574+0000

NB POT. STA. 2575+3026

BM # 505 U.S. ELEV 1358.99

N 3° 14' E

N 1° 48' W

N 66° 33' W

WOODS & BRUSH

FIELD

SHED

BARN

GARAGE

(GRAVEL ROAD)

DRIVE

LAWN

BUSH

GUY WIRE

12" POP

ORCHARD

BRUSH

○ FILL
△ CUT

PLAN SCALE
0 50 100
100 FEET

P.V.I. 18+75 1383.80 700' V.C. M.O. 9.87' SSD. 295'

P.V.T. 13+50 1358.60

P.V.C. 15+25 1367.00

+ 4.800 %

P.V.C. 9+50 1353.96

- 2.480 %

1355.20

P.V.I. 11+50 1349.00 400' V.C. M.O. 3.64' K = 55

1390
1380
1370
1360
1350
1340

8 9 10 11 12 13 14 15 16 17 18 19

PROFILE SCALE
HORIZ. 50 FEET
VERT. 10 FEET

STAGE I CONSTRUCTION

BROOKFIELD - WILLIAMSTOWN
BERLIN
RELOCATED T-57
PROJECT I 89-1(11)

CONTRACT No. 3

SHEET 48 OF 403

PLATE 1. PLAN-PROFILE

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* DENOTES STAGE 2 ITEMS

SB. PC. STA 2578+84.41

SB. POC STA 2582+0000

SB. POST STA 2583+25.54

SB. POC STA 2584+0000

SB. POST STA. 2585+18.54

Stone Fill For Slope Protection (Light Type), Item 512 -Reloc.T-57 27+20 Lt.-NB.2587+30 Rt. (Special Ditch)

Rip Rap (Light Type), Item 513-B Reloc.T-57 26+96-27+04 Rt.

Two Cable Guard Rail Item 541 Reloc.T-57 22+68-27+26 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
Reloc.T-57 19+00 Lt.	2586 + 90	Rt.

N3° 14' E

N1° 48' W

N22° 08' 40" E

BM. # 506 U.S. ELEV. 1336.72

NB. PC. STA 2584+40.34

SURV. RELOC. T-57 P.I. STA. 25+78.12* SURV. 25+72.21 REV. 25+75.03

SURV. RELOC. T-57 PT. STA 27+74.70

SURV. RELOC. T-57 PC. STA 23+05.63

REV. RELOC. T-57 PT. STA. 26+80.68

REV. RELOC. T-57 PC. STA 24+72.47

RELOC. T-57 POT. STA 20+88.89

SURV. RELOC. T-57 CURVE DATA
Δ = 23° 56' 40"
D = 6° 00' 00"
R = 954.93'
T = 202.49'
L = 399.07'
E = 20.93'
Bank = 3/4" Per Ft.

REV. RELOC. T-57 CURVE DATA
Δ = 23° 56' 40"
D = 11° 30' 00"
R = 498.22'
T = 105.65'
L = 208.21'
E = 11.08'
Bank = 1/2" Per Ft.

Reloc. T-57 23+75-27+00 Rt. Construct Special Ditch, Item 106

Reloc. T-57 26+80 6" COMP. Remove Item 105

Reloc. T-57 27+20 Lt.-NB 2587+30 Rt. Construct Special Ditch, Item 106

Reloc. T-57 27+00 Rt.-27+20 Lt. Rip-Rap 24" x 18" Deep Class "B" CSMP 16 Cu. Yds. per 100 SF (Approx.)

27+50.00 END CONSTRUCTION

MATCH LINE SEE SHEET No 48 STA. 19+00.00

WOODS

SCATTERED BRUSH

WOODS & BRUSH

GRAVEL ROAD

TOWN ROAD #57

FIELD

BRUSH

LAWN

ASH

DRIVE

2 STY. FR. DWG.

GARAGE

○ FILL
△ CUT

PLAN SCALE
0 50 100
100 FEET

VT. GRID

NOTE: RELOC. T-57 TO BE BUILT IN ITS ENTIRETY DURING STAGE I CONSTRUCTION

P.V.T. 22+25 1361.12

-6.480%

P.V.C. 23+50 1355.02

P.V.I. 25+50 1340.06 400' V.C. M.O. 3.64 K = 55

+0.800%

P.V.T. 27+50 1341.66

PROFILE SCALE
HORIZ 50 FEET
VERT 10 FEET

STAGE I CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
RELOCATED T-57
PROJECT I 89-1(11)
CONTRACT No. 3
SHEET 45 OF 403

WEBSTER-MARTIN 7-65
W.A. FLETCHER 5-67
H.E. REYNOLDS 5-67

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* DENOTES STAGE 2 ITEMS

Rip Rap (Light Type), Item 513-B
NB. 2591+27 Rt.–2591+37 Rt.

* Three Cable Guard Rail w/ft Steel Posts, Item 538
NB. 2590+00–2591+88 Rt.
SB. 2591+00–2593+10 Lt.

Stonefill Item 512
NB. 2604+75 Rt. Gas Station

Jute Matting Item 623
NB. 2590+25–2591+75 Lt.

REST AREAS NOT TO BE BUILT

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2590+00	2605+00	RT.
SOUTHBOUND		
2591+00	2605+00	LT.

VT. GRID

FILL
CUT

SB. 2591+00–252+62 Rt. NEW 6"X 12' UNDERDRAIN TYPE I (MOD)

SB. 2591+82 Rt.–2591+71 Lt. New 42" RCPCCOMP (16 Ga. w/ 2 Coupling Bands At All Joints (Fr. End @ Diagonal @ Bottom Angle 45°) Cl. B Cradle

SB. POT. STA. 2595+5454

SB. POT STA 2596+83.88

SB. POT STA 2602+8342

SB. PT. STA 2592+7552

SB. 2594+00–2595+00 NEW 6"X 36' UNDERDRAIN TYPE I (MOD) w/Flush Basin @ 2595+00 Lt. & 2595+50 Lt.

SB. 2595+00 Rt.–2595+50 Lt. NEW 6"X 8'6" PIPE TYPE II (MOD)

SB. 2596+63.17 New 18"Ø RCCOMP. 16 Ga. Gr. 2°

SB. 2596+18 Rt.–2596+50 Lt. NEW 6"X 8'6" PIPE TYPE II (MOD)

SB. 2598+68–2600+50 Rt. NEW 6"X 36' UNDERDRAIN TYPE I (MOD) w/Flush Basin @ 2598+68 & 2600+50

SB. 2600+50 Rt.–2600+50 Lt. NEW 6"X 8'6" PIPE TYPE II (MOD)

SB. 2600+65–2602+58 Rt. NEW 6"X 36' UNDERDRAIN TYPE I (MOD) w/Flushing Basin @ 2600+65 & 2602+58

SB. 2602+63 RCP Class III New 6'Ø

RA. P.T. 22+90.27 24' Lt. SB 2603+61.52

SB. 2604+58 Rt.–2604+58 Lt. NEW 6"X 36" PIPE TYPE II (MOD)

SB. 2604+63 New 6'Ø 100% COMP. 16 Ga. Gr. 2°

SB. 2604+58–2605+00 NEW 6"X 36' UNDERDRAIN TYPE I (MOD) w/Flushing Basin @ 2604+58

MATCH LINE SEE SHEET No. 46

MATCH LINE SEE SHEET No. 52

FIELD

WOODS

BROOK

B.M. # 507 U.S. ELEV. 1290.71

B.M. # 508 U.S. ELEV. 1283.33

B.M. 508-N U.S. Elev. 1280.10

B.M. # 509 U.S. ELEV. 1265.04

B.M. 509 N U.S. Elev. 1268.89

N3°44' W

N3°07' W

90°

50°37'00"

600' Deceleration Lane w/300' Taper

NB. STA 2590+40.00 BEGIN DECELERATION LANE

NB. POC STA. 2592+0000

NB. P.T. STA 2594+9367

NB Rest Area P.I. 2+1020+ 2+01.31 (24' Rt. NB STA. 2598+50)

NB POT. STA. 2601+50.00

NB Rest Area P.C. 0+00.00 (24' Rt. NB STA. 2596+1980)

NB Rest Area P.I. 6+46.18=6+26.34

NB Rest Area P.T. 4+1151

INNER N.B. Rest Area P.C. 4+65.40

INNER N.B. R.A. Curve Δ 41° 58' 20" D 10° R 572.96 T 219.78 L 419.72 E 40.71 Bank 1/4" Per Ft.

INNER NB Rest Area P.T. 8+45.12=8+13.92 EQ.= -67.61

INNER NB Rest Area P.C. 0+13.65

R.A. Curve Δ 28°48' 20" D 7° R 818.51 T 210.20 L 411.51 E 26.56 Bank 1/2" Per Ft.

R.A. 3+30 Rt.–NB. 2595+63.43 New 6"X 148' Pipe Type II (MOD)

R.A. 3+30 Rt.–NB. 2600+00 Rt. New 18" X 120' ACCOMP. 16 Ga. (Slotted) 2 Cplg. Bands @ all Joints

NB. 2600+00 Rt.–SB. 2600+63.43 New 18" X 120' ACCOMP. 16 Ga. 2 Cplg. Bands @ all Joints

R.A. 3+30 Rt.–7+84 Rt. New 6"X 39'4" Underdrain Type I (MOD) w/ Flushing Basin @ 3+90 & 7+35

NB. 2600+10–2603+74 Rt. 37'-6" New 6"X 364' Underdrain Type I (MOD) w/ Flushing Basin @ 2600+10 & 2603+74

NB. 2603+74–2604+58 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2604+58 Rt.–NB. 2605+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

R.A. 7+35 Rt.–NB. 2603+74 Rt. New 6"X 168' Pipe Type II (MOD)

R.A. 7+96 Lt.–NB. 2603+00 Rt. New 18" X 124' ACCOMP. 16 Ga.

R.A. 7+84 Rt.–R.A. 7+96 Lt. New 18" X 42' ACCOMP. 16 Ga.

R.A. 8+30 Rt.–12+30 Rt. New 6"X 400' Underdrain Type I (MOD) w/Flushing Basin @ 8'+00

NB. 2604+16–2603+00 Rt. New 6"X 36' Underdrain Type I (MOD) w/Flushing Basin @ 2604+16

NB. 2603+00 Rt.–2602+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2602+50 Rt.–2602+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2602+00 Rt.–2601+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2601+50 Rt.–2601+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2601+00 Rt.–2600+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2600+50 Rt.–2600+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2600+00 Rt.–2599+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2599+50 Rt.–2599+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2599+00 Rt.–2598+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2598+50 Rt.–2598+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2598+00 Rt.–2597+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2597+50 Rt.–2597+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2597+00 Rt.–2596+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2596+50 Rt.–2596+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2596+00 Rt.–2595+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2595+50 Rt.–2595+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2595+74 Rt.–2595+63.43 Rt. New 6"X 148' Pipe Type II (MOD)

NB. 2595+74 Rt.–2595+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2595+00 Rt.–2594+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2594+50 Rt.–2594+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2594+00 Rt.–2593+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2593+50 Rt.–2593+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2593+00 Rt.–2592+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2592+50 Rt.–2592+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2592+00 Rt.–2591+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2591+50 Rt.–2591+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2591+32 Rt.–2591+21 Lt. New 42" RCPCCOMP (16 Ga. w/ 2 Coupling Bands At All Joints (Fr. End @ Diagonal @ Bottom Angle 45°) Cl. B Cradle

NB. 2591+00–252+62 Rt. NEW 6"X 12' UNDERDRAIN TYPE I (MOD)

NB. 2591+21 Lt.–2591+00 Lt. New 42" RCPCCOMP 10 Ga. w/Cast Iron Grate & Frame Type I-A, Item 527-A

NB. 2592+00–2592+74 Rt. NEW 6"X 74' UNDERDRAIN TYPE I (MOD) w/Flush Basin @ 2592+00 & 2592+74

NB. 2595+74 Rt.–2595+63.43 Rt. New 6"X 148' Pipe Type II (MOD)

NB. 2595+74 Rt.–2596+00 Rt. New 6"X 144' ACCOMP. 16 Ga. 2 Cplg Bands @ all Joints

NB. 2596+00 Rt.–2596+63.43 Rt. New 18"Ø RCCOMP. 16 Ga. Gr. 2°

NB. 2596+18 Rt.–2596+50 Rt. New 6"X 8'6" PIPE TYPE II (MOD)

NB. 2596+50 Rt.–2597+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2597+00 Rt.–2597+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2597+50 Rt.–2598+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2598+00 Rt.–2598+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2598+50 Rt.–2599+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2599+00 Rt.–2599+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2599+50 Rt.–2600+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2600+00 Rt.–2600+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2600+50 Rt.–2601+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2601+00 Rt.–2601+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2601+50 Rt.–2602+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2602+00 Rt.–2602+50 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2602+50 Rt.–2603+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

NB. 2603+00 Rt.–2603+74 Rt. New 6"X 168' Pipe Type II (MOD)

NB. 2603+74 Rt.–2604+58 Rt. New 6"X 84' Pipe Type II (MOD)

NB. 2604+58 Rt.–2605+00 Rt. New 18" X 42' ACCOMP. 16 Ga.

TOWN ROAD # 52

1/2 STONE BOX

#8

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

STAGE 2 CONSTRUCTION

PLAN SCALE
0 50 100
100 FEET

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 3

SHEET 50 OF 403
146 263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

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* DENOTES STAGE 2 ITEMS

REST AREAS NOT TO BE BUILT

SB REST AREA
Δ 23°00 RT
D 4°53'17"
R 1172.17
T 238.48
L 470.54
E 23.92
BANK 1/4" PER FT.

DRILLING AND BLASTING OF SOLID ROCK SUBGRADE, ITEM 115
NB 2607+25 – 2608+25

PROPERTY LINE FENCE WITH STEEL POSTS, ITEM 583-II MOD.

STA.	STA	POS
NORTHBOUND		
2605+00	2620+00	RT
SOUTHBOUND		
2605+00	2620+00	LT

OUTER SB R.A. PI. 12+15.65* 12+04.31

MATCH LINE - SEE SHEET NO.

△ CUT
○ FILL

V.T. GRID

OUTER SB REST AREA
Δ 34°00 LT
D 10°
R 572.96
T 175.17
L 340.00
E 26.18
BANK 1/4" PER FT.

SB POT STA. 2606+6562

SB POT STA. 2611+85.4

B.M. # 501 U.S. ELEV. 1253.10

P.I. 2+58.21 = 2+51.79 24' LT STA. 2606+00

B.M. 511 E. U.S. Elev. 1248.12

B.M. # 5H U.S. ELEV. 1251.19

B.M. # 512 U.S. ELEV. 1228.77

N 3° 44' W

N 3° 07' W

PBM # B-22
BRONZE DISC IN CONC. MON.
U.S. ELEV. 1253.07

INNER NB REST AREA PI 12+69.52* 12+57.78

INNER NB REST AREA
Δ 41°53' RT
D 6°
R 954.93
T 365.45
L 698.06
E 67.54
BANK 1/4" PER FT.

INNER NB REST AREA PI 19+06.94* 18+74.10

N.B. REST AREA PI. 25+70.17 = 25+63.39 (24' RT. NB STA. 2620+01.83)

MATCH LINE SEE SHEET No. 50

MATCH LINE SEE SHEET No. 54

MATCH LINE SEE SHEET No.

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

PLAN SCALE
0 50 100
100 FEET

STAGE 2 – 1 – CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)
CONTRACT No. 3
SHEET 52 OF 403

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

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* DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type), Item 512
SB 2634+20~2634+75 Lt.

Rip Rap (Light Type), Item 513-8
NB 2623+82~2623+92 Rt.

* Three Cable Guard Rail w/ Lt. Steel Posts Item 538
NB 2621+58~2626+00 Rt.
NB 2622+02~2626+98 Lt.
NB 2630+85~2634+49 Lt.
SB 2623+42~2628+84 Rt.
SB 2632+52~2635+56 Rt.
SB 2624+46~2630+06 Lt.
SB 2632+52~2636+00 Lt.

Jute Matting Item 623
NB 2624+90~2626+25 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA.	STA.	POS.
NORTHBOUND		
2620+00	2635+00	RT.
SOUTHBOUND		
2620+00	2636+00	LT.

REST AREAS NOT TO BE BUILT

MATCH LINE SEE SHEET No.

SB REST AREA
Δ 32°40' RT
D 10°15'
R 558.98
T 163.81
L 318.70
E 23.51
BANK 1/2" PER FT.

OUTER SB REST AREA
Δ 21°40'
D 10°
R 572.96
T 109.64
L 216.67
E 10.40
BANK 1/4" PER FT.

SB REST AREA 53.40 LT.~5+35 RT. NEW 8'X 54' ACCMP 16 GA.

SB REST AREA LT. 34.50~5+10 LT. CONSTRUCT SPECIAL DITCH ITEM 606

SB REST AREA RT. 27.53~2622+13.97 24 HR. N.B. POT.

RA PI. 4+95.65 =
OUTER 4+93.04 =

RA P.I. 1+41.52 = 1+32.60

RA P.T. 6+02.68

RA P.C. 2+96.41

RA PT. 0~22.29 =

24' Lt. SB 2625+63.81

SB 2622+55 RT.~2625+65 RT. NEW 42"X 26" ACCMP 8 GA.

SB POT STA 2624+3081

SB POT STA 2626+7501

SB POT STA 2628+2538

SB Sta 2629+24.00 Begin Deceleration Lane

SB POT STA 2629+8395

SB POT STA 2632+3734

SB POT STA 2634+9450

SB 2629+00~2632+50 Rt. New 6'X 332' Underdrain Type I (MOD)

SB 2631+65 Rt.~2634+20 Lt. New 30"X 166' ACCMP 12 GA.

SB 2622+00~2623+50 Rt. New 6'X 150' Underdrain Type I (MOD)

SB 2623+00 Lt. New 6'X 68' Underdrain Type I (MOD)

SB 2623+50 Rt. New 6'X 70' Pipe Type II (MOD)

SB 2624+50 Rt.~2624+90 Lt. New 6'X 150' Underdrain Type I (MOD)

RA 27+08 Rt.~27+45 Rt. New 6'X 61' Underdrain Type I (MOD)

RA 27+65 Rt.~27+75 Rt. New 6'X 24' Pipe Type II (MOD)

NB 2623+87 Rt.~2624+30 Lt. New 42"X 52" ACCMP 8 GA. Water Control Basin Type A (see Sheet 54)

NB 2625+50 Rt.~2625+75 Rt. New 6'X 200' Underdrain Type I (MOD)

NB 2627+00 Rt.~2630+30 Rt. New 6'X 366' Underdrain Type I (MOD)

NB 2630+60 Rt.~2631+00 Lt. New 6'X 90' Pipe Type II (MOD)

NB 2633+00 115' New 30"X 98' ACCMP 14 GA. Connect New Spring Box to Existing Drainage System Contract New Spring Box Sheet 59 of 402

NB 2633+08 Contract New Spring Box For Details see Sheet 59 of 402

NB 2634+00~2635+00 Rt. New 6'X 100' Underdrain Type I (MOD)

NB 2634+50~2635+00 Lt. New 6'X 50' Underdrain Type I (MOD)

NB 2634+20 Lt. New 6'X 50' Pipe Type II (MOD)

NB 2635+70~2636+00 Lt. New 6'X 30' Pipe Type II (MOD)

NB POT STA 2621+5000

NB POT STA 2624+5156

NB POT STA 2626+6808

NB POT STA 2629+3933

NB POT STA 2630+3378

NB POT STA 2632+1233

NB POT STA 2634+5000

NB Sta 2628+13.97 End Acceleration Lane

BROOK

WOODS

FIELD

WET

WATER COURSE

SPRING

BRIDGE 20'-0" IN DIAMETER

N 3° 44' W

N 3° 07' W

600' ACCEL. LANE INCL. 300' TAPER

420' DECEL. LANE INCL. 300' TAPER

B.M. # 513 U.S. ELEV. 1207.54

B.M. # 514 U.S. Elev. 1143.77

B.M. # 514-A U.S. Elev. 1154.35

B.M. # 515 U.S. ELEV. 1152.95

B.M. # 516 U.S. ELEV. 1133.09

PBM # B-523 U.S. ELEV. 1156.71

TBM 513 U.S. Elev. 1218.09

B.M. 513-N U.S. Elev. 1225.01

MATCH LINE SEE SHEET No. 52

MATCH LINE SEE SHEET No. 56

FILL
CUT

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

PLAN SCALE
0 50 100
100 FEET

STAGE 2 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)

CONTRACT No. 3

SHEET 54 OF 403
150 263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

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* DENOTES STAGE 2 ITEMS

Rip Rap (Light Type), Item 513-B
NB. 2641+39 ~ 2641+49 Rt.
NB. 2646+47 ~ 2646+53 Rt.
NB. 2650+18 ~ 2650+24 Rt.

* Three Cable Guard Rail w/ Lt. Steel Posts Item 538
NB. 2638+96 ~ 2643+48 Rt.
NB. 2639+38 ~ 2644+98 Lt.
SB. 2639+40 ~ 2645+98 Rt.
SB. 2636+00 ~ 2636+82 Lt.
SB. 2639+40 ~ 2645+48 Lt.

Jute Matting Item 623
NB. 2641+25 ~ 2641+65 Lt.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.		
STA.	STA.	POS.
NORTHBOUND		
2635+00	2651+00	RT.
SOUTHBOUND		
2636+00	2651+00	LT.

V.T. GRID

FILL
CUT

MATCH LINE SEE SHEET No. 54

MATCH LINE SEE SHEET No. 58

SB POT STA 2636+6122
SB POT STA 2638+1975
SB POT STA 2642+2884
SB POT STA 2644+0943
SB POT STA 2645+7960
SB POT STA 2646+4941
SB POT STA 2647+1748
SB POT STA 2648+5229
SB POT STA 2650+2909

NB POT STA 2638+9823
NB POT STA 2641+68.24
NB POT STA 2644+9495
NB PC STA 2645+8384
NB POC STA 2648+0000
NB POC STA 2649+5000

N 3°44' W
N 3°07' W
90°
90° 37' 00"

B.M. # 517 U.S. ELEV. 1120.15
B.M. # 518 U.S. ELEV. 1087.34
B.M. # 519 U.S. ELEV. 1096.15

WOODS
BROOK
WATER COURSE
WET
Grade to Drain

NB 2635+00 ~ 2639+70 LT. NEW 6"X 478' UNDERDRAIN TYPE I (MOD)
NB 2635+00 ~ 2639+50 RT. NEW 6"X 450' UNDERDRAIN TYPE I (MOD)
NB 2639+50 RT. ~ 2640+00 LT. NEW 6"X 98' PIPE TYPE II (MOD)
NB 2641+25 New 6"X 58' Und., from SB 2641+46 Lt.
NB 2641+25 New 6"X 180' Und., from SB 2642+25
NB 2642+25 ~ 2642+50 New 6"X 101' Und., from SB 2642+25
NB 2642+50 ~ 2643+25 New 6"X 225' Und., from SB 2642+25
NB 2643+25 New 6"X 58' Und., from SB 2643+46 Lt.
NB 2643+50 ~ 2644+50 105' W. 6"X 100' UNDERDRAIN TYPE I (MOD) w/Flush basin @ 2644+50
NB 2644+50 ~ 2645+50 RT. NEW 6"X 160' UNDERDRAIN TYPE I (MOD) w/Flush basin @ 2644+50
NB 2645+50 ~ 2646+50 LT. NEW 6"X 160' UNDERDRAIN TYPE I (MOD) w/Flush basin @ 2645+50
NB 2646+50 New 24" RCP ACCOMR 16 Ga. 40' w/ 24"x24" 2 Cplg Bends @ all Joints
NB 2646+50 ~ 2647+21 RT. NEW 24" RCP ACCOMR 16 Ga. 71' w/ 24"x24" 2 Cplg Bends @ all Joints
NB 2646+60 ~ 2650+30 RT. NEW 6"X 370' UNDERDRAIN TYPE I (MOD) w/Flush basin @ 2646+60
NB 2646+60 ~ 2650+64 LT. NEW 6"X 404' UNDERDRAIN TYPE I (MOD) w/Flush basin @ 2646+60
NB 2650+30 RT. ~ 2650+70 LT. NEW 6"X 70' PIPE TYPE II-A (MOD)
NB 2650+85 ~ 2651+00 RT. New 6"X 35' Und., from SB 2651+00 Rt.
NB 2650+21 RT. ~ 2650+42 RT. 2 Cplg bends @ 45° w/ Joints New 24" RCP ACCOMR 16 Ga.
NB 2650+42 RT. ~ 2650+63 RT. 2 Cplg bends @ 45° w/ Joints New 24" RCP ACCOMR 16 Ga.
NB 2650+63 RT. ~ 2650+84 RT. New 24" RCP ACCOMR 16 Ga.
NB 2650+84 RT. ~ 2651+00 RT. New 6"X 35' Und., from SB 2651+00 Rt.

SB 2636+100 ~ 2639+70 LT. NEW 6"X 478' UNDERDRAIN TYPE I (MOD)
SB 2636+50 ~ 2639+50 RT. NEW 6"X 450' UNDERDRAIN TYPE I (MOD) w/Flush basin @ 2639+50
SB 2639+40 ~ 2640+00 RT. NEW 6"X 98' PIPE TYPE II (MOD)
SB 2641+46 ~ 2642+13 Lt. New 24" RCP ACCOMR 8 Ga. w/Conc. Basin Type I-A Item 557-A w/Grate. C.A.D. Unit.
SB 2642+00 Rt. ~ 2642+13 Lt. New 24" RCP ACCOMR 8 Ga. w/Conc. Basin Type I-A Item 557-A w/Grate.
SB 2642+25 ~ 2643+50 Lt. New 6"X 125' Und., from SB 2643+46 Lt.
SB 2643+50 ~ 2644+50 Lt. New 6"X 100' Und., from SB 2643+46 Lt.
SB 2644+50 ~ 2645+50 Lt. New 6"X 100' Und., from SB 2643+46 Lt.
SB 2645+50 ~ 2646+50 Lt. New 6"X 100' Underdrain Type I (MOD) w/Flush basin @ 2645+50
SB 2646+50 ~ 2647+28 Lt. New 6"X 178' Underdrain Type I (MOD) w/Flush basin @ 2646+50
SB 2647+29 Rt. ~ SB 2647+00 Rt. New 24"X 100' ACCOMR 16 Ga. Pipe
SB 2647+00 ~ 2647+29 Lt. New 6"X 29' Underdrain Type I (MOD)
SB 2647+00 ~ 2651+00 Lt. New 6"X 384' Underdrain Type I (MOD) w/Flush basin @ 2647+74 & 2649+50
SB 2647+24 ~ 2651+00 Lt. New 6"X 376' Underdrain Type I (MOD) w/Flush basin @ 2647+74 & 2649+50

CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

N.B.L. Rt. 700' ± Howard Foote Corp Well

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS NEWARK, N.J.

STAGE 2 — 1 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1 (11)(29)
CONTRACT No. 3

PLAN SCALE
0 50 100
100 FEET

SHEET 56 OF 403
152 263

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DENOTES STAGE 2 ITEMS

Stone Fill For Slope Protection (Light Type), Item 512
NB 2661+00 Rt.~SA-1 & SA-5 9+55 Lt. (Special Ditch)

Rip Rap (Light Type), Item 513-B
NB. 2655+95~2655+04 Rt.
NB. 2660+97~2661+03 Rt.

* Standard Steel Beam Guard Rail w/ Steel Posts (6'-3" Spacing) Item 545-A
SB. 2651+21 ~ 2653+08 Lt.

* Plank Guard Rail, Item 540
SB. 2663+25 Lt. 32 L.F.

Jute Matting Item 623
NB 2662+00~2667+00 Lt.

Two Cable Guard Rail Item 541
SA-1 and SA-5 ,
8+75 - 10+59 Lt.
13+50 - 15+50 Lt.

DEMOLITION & DISPOSAL OF BUILDING ITEM 586
SB 2651 + 40 LT. NO. 10

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA.	STA.	POS.
NORTHBOUND		
2651+00 RT.	Reloc. SA-1 & SA-5 15+54	LT.
SOUTHBOUND		
2651+00	2667+00	LT.

SB CURVE DATA
Δ = 14° 47' 45"
D = 1° 00' 00"
R = 5729.58'
T = 743.93'
L = 1479.58'
E = 48.09'
BANK = 5/16" Per Ft.

NB CURVE DATA
Δ = 15° 24' 45"
D = 1° 00' 00"
R = 5729.58'
T = 775.31'
L = 1541.25'
E = 52.22'
Bank = 5/16" Per Ft.

SA 1 & SA 5 Curve Data
Δ = 3° 20' 20"
D = 5° 00' 00"
R = 1145.92
T = 99.20
L = 166.78
E = 3.62
Bank = 3/8" per ft.

FILL
CUT

MATCH LINE SEE SHEET No. 56

MATCH LINE SEE SHEET No. 60

SB PC STA 2651+80.78
SB POST STA 2652+60.83
SB POC STA 2653+0000
SB POST STA 2654+80.78
SB POC STA 2655+0000
SB PI STA 2659+247.1 = 2659+1643
SB POC STA 2658+0000
SB POST STA 2660+4993
SB POC STA 2659+5000
SB POST STA 2661+5501
SB POST STA 2663+6033
SB POC STA 2664+0000
SB PT STA 2666+6036

NB POC STA 2652+0000
NB POC STA 2654+5000
NB PI STA 2653+6415 = 2653+5478
NB POC STA 2658+5000
NB POT STA 2663+1629
NB PT STA 2661+3009
NB POT STA 2666+3544

BM # 520 U.S. Elev. 1077.32
BM # 520 U.S. ELEV. 1092.62
BM # 521 U.S. ELEV. 1066.50
PBM # B-624 U.S. ELEV. 1057.58
BM # 552 U.S. ELEV. 1025.67

STA. 2+6600 = SURV. STA 2+6646
BEGIN CONSTRUCTION

SURV. RELOC. SA-1 & SA-5 PI STA 4+6651 = 4+65.63
REV. RELOC. SA-1 & SA-5 PI STA 4+6605 = 4+65.63
SURV. RELOC. SA-1 & SA-5 POC STA 5+0000
REV. RELOC. SA-1 & SA-5 PT STA 5+5923
SURV. RELOC. SA-1 & SA-5 POST STA 5+9670 = REV. RELOC. SA-1 & SA-5 P.O.T. STA. 5+9670

SURV. RELOC. SA-1 & SA-5 PT STA 6+6619 = REV. RELOC. SA-1 & SA-5 POT STA. 6+66.19

RELOCATED SA-1 & SA-5
RELOC. SA-1 & SA-5 POT STA 14+2666
RELOC. SA-1 & SA-5 POT STA 11+4479
RELOC. SA-1 & SA-5 POT STA 9+1825
RELOC. SA-1 & SA-5 POT STA 7+4969

FOR PLAN & PROFILE OF RELOC. SA-1 & SA-5 SEE SHEETS 62 & 63 OF 403
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

Approx. Underground Utility Relocate by NET

PLAN SCALE
0 50 100
100 FEET

STAGE 2 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1(11)(29)
CONTRACT No. 3
SHEET 58 OF 403
154 263

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS INDIANA, IND.

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* DENOTES STAGE 2 ITEMS

ROW BID ITEM
CONSTRUCT DRIVE
17+50 RT.

Rip Rap (Light Type), Item 613-B
NB. 2670+22-2670+52 Rt.

Jute Matting Item 623
* 2668+00-2670+00 Median
* 2671+00-2674+50 Median

Approx. Underground Utility Poles Reloc. by N.E.T.

Approx. Aerial Utility Poles Reloc. by G.M.P.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA.	STA.	POS.
NORTHBOUND		
Reloc SA-1 & SA-5 15+54 LT.	2674+95.66	P.T. 4T.
SOUTHBOUND		
2667+00	2674+95.66+	RT. LT.

V.T. GRID

○ FILL
△ CUT

SB. POT STA. 2674+95.66+
SB POT STA. 35+00.00

RELOC SA-1 & SA-5 PI STA. 21+27.54 = 21+03.99

SB. 2674+96 Rt. — 2674+90 Lt. 6"x8" P.C.G.M.P. ∥

NB. & SB. STA. 2674+95.66
END PROJECT I-89-1(11)(29)
BEGIN PROJECT I-89-1(12)(30)
END CONTRACT No. 3

B/L POT STA 35+00.00

NB POT STA. 2674+95.66 =
B/L POT STA. 35+00.00

Approx. Aerial Reloc. Poles by G.M.P. Corp.

MATCH LINE SEE SHEET No. 58

SB. 2667+00 Rt. — 2667+40 Lt. New 24" H.D.P. Gas Line Relocation (Owner)

Gravel 29+50 Rt. by others

SB. POT STA. 2671+51.20

SB. POT STA. 2671+77.00

RELOC SA-1 & SA-5 PC STA. 19+19.93

RELOC SA-1 & SA-5 POT STA. 17+38.22

RELOC SA-1 & SA-5 POT STA. 16+14.86

RELOC SA-1 & SA-5 POC STA. 20+00.00

RELOC SA-1 & SA-5 PT STA. 23+11.60

N 18° 31' W

N 26° 02' W

N 20° 58' E

52°37'00"

90°

CEMETERY

WOODS & BRUSH

WOODS & PINE SEEDLINGS

WOODS

FIELD

WET

GRAVEL

ROAD

BRUSH

VT. H.D. BM #10 U.S. ELEV. 102.766

NB. 2667+35 — 6"x8" P.C.G.M.P. Rt. 6.2' Lt. of ℄ Reloc. SA-1 & SA-5

NB. 2670+22 — 315' — 2670+00 Lt. 32' New 42" RCP ACCMP. 12 GA.

RELOC. SA-1 & SA-5 18+20.87 — 60°-42" New RCP Outlet, CMP 12 GA. CMCP - 12 GA. OPTIONAL @ 50.50 Rt.

Approx. Underground Utility Poles Reloc. by N.E.T.

NB 2671+30 — 2674+09 Lt. 5'-1" New 6"x 260' Underdrain, Type I (MOD) at Brush Basin @ 2671+30 & 2674+00

NB 2673+10 — 2674+95.66 Lt. 4'-3" New 6"x196' Underdrain, Type I (MOD) at Brush Basin @ 2673+10 & 2674+95.66

NB. 2674+00 Lt. — 2674+95.66 Rt. 5'-1" New 6"x108' Pipe, Type I (MOD)

17+50 ROW BID ITEM
New 18"x12" Pipe, CMP
36'-0" — 18 GA. CMP

CONSTRUCT DRIVE SA 1 & 5 17 + 50 Rt.

RELOC SA-1 & SA-5 CURVE DATA

Δ = 47°00'00"
D = 12°00'00"
R = 477.47'
T = 207.61'
L = 391.67'
E = 45.18'
Bank = 5/8" Per Ft.

FOR PLAN AND PROFILE OF RELOC. SA-1 & SA-5
SEE SHEETS 62 & 63 OF 403
CONTROL OF ACCESS IS COMPLETE ON THIS SHEET.

PORTER, O'BRIEN & ARMSTRONG
CONSULTING ENGINEERS HOWARD, N.Y.

STAGE 2 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
I 89-1 (11)(29)

CONTRACT No. 3

PLAN SCALE
0 50 100
100 FEET

SHEET 60 OF 403
156 263

I-89

* DENOTES STAGE 2 ITEMS

○ FILL
△ CUT

Plank Guard Rail SA#1 Sec

NB. CURVE DATA
Δ = 15° 24' 45"
D = 1° 00' 00"
R = 5729.56'
T = 775.31'
L = 1541.25'
E = 52.22'
Bank = 5/16 Per Ft

SURV. RELOC. SA-1 & SA-5 CURVE DATA
Δ = 9° 20' 20"
D = 2° 20' 00"
R = 2455.53'
T = 200.56'
L = 400.24'
E = 8.18'

REV. RELOC. SA-1 & SA-5 CURVE DATA
Δ = 9° 20' 20"
D = 5° 00' 00"
R = 1145.92'
T = 93.60'
L = 186.78'
E = 3.82'
Bank = 5/8" Per Ft.

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-II MOD.

STA.	STA.	POS.
Reloc. SA-1 & SA-5		LT.
3 + 5[illegible]	~15 + 00	

NB. PI. STA. 2653+6415 = 2653+5478
NB. POC. STA. 2658+5000
SB. POST STA. 2661+5501
SB. POST STA. 2663+6033
SB. POC. STA. 2664+0000
SB. PT. STA. 2666+6036
BM # 552 US ELEV 1025.67
BM # 521 US. ELEV 1066.50
SB. POST STA. 2660+4993
SB. PI STA. 2659+2471 = 2659+1643
NB. POT STA. 2663+1629
NB. PT STA. 2661+3009
NB. POT STA. 2666+35.44 = 2666+60.36 EQ = -24.92
SURV. RELOC. SA-1 & SA-5 P.T. STA 6+66.19 = REV. RELOC. SA-1 & SA-5 P.O.T. STA 6+66.19
SURV. RELOC. SA-1 & SA-5 P.C. STA 2+6695
REV. RELOC SA-1 & SA-5 P.C. STA 3+7245
SURV. RELOC. SA-1 & SA-5 P.I. STA 4+66.51 = 4+65.63
REV. RELOC. SA-1 & SA-5 P.I. STA. 4+66.05 = 4+65.63
SURV. RELOC SA-1 & SA-5 P.O.C. STA 5+0000
REV. RELOC SA-1 & SA-5 P.T. STA 5+59.23
SURV. RELOC. SA-1 & SA-5 POST STA 5+96.70 = REV. RELOC. SA-1 & SA-5 P.O.T. STA 5+96.70
RELOC. SA-1 & SA-5 P.I. STA 1+5000
RELOC. SA-1 & SA-5 P.O.T. STA 0+0000
RELOC. SA-1 & SA-5 P.O.T. STA 7+49.69
RELOC. SA-1 & SA-5 P.O.T. STA 9+18.25
RELOC. SA-1 & SA-5 P.O.T. STA 11+44.79
RELOC. SA-1 & SA-5 P.O.T. STA 14+26.66
STA. 2+66.00 = SURV. STA. 2+66.46
BEGIN CONSTRUCTION
RELOCATED SA-1 & SA-5
N 18° 31' W
N 26° 02' W
SPRING
WATER COURSE
GRAVEL ROAD
WOODS
WET
FIELD
WOODS & BRUSH
P.L.

NOTE: RELOCATED SA-1 & SA-5 IS TO BE BUILT IN ITS ENTIRETY DURING STAGE I CONSTRUCTION.

END CABLE GUARD RAIL, ITEM 541
3 + 75 - 10 + 88
13 + 50 - 15 + 00

MATCH LINE SEE SHEET No. 63 STA. 15+00.00

PLAN SCALE
0 50 100
100 FEET

P.V.C. 4+50 1129.52
P.V.I. 13+50 1120.62 200' V.C. MO 0.24' K=213
P.V.T. 6+50 1112.66
P.V.C. 14+75 1046.99
-8.901%
-7.960%
-7.960%

PROFILE SCALE
HORIZ. 50 FEET
VERT. 10 FEET

STAGE I CONSTRUCTION
BROOKFIELD-WILLIAMSTOWN
BERLIN
RELOCATED SA-1 & SA-5
PROJECT I 89-1(11)
CONTRACT No. 3
SHEET 62 OF 403.

WEBSTER-MARTIN INC. CONCORD N.H. W.E. REYNOLDS 7-65 7-20-67 3-20-67 PLAN SHEET NO. 12

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* DENOTES STAGE 2 ITEMS

SB. POT STA 2671+7700

S3. POT STA 2671+5120

Rip Rap (Light Type), Item 513-B
SA-1 & SA-5 19+06 - 19+27 Rt

Two Cable Guard Rail, Item 541
SA-1 & SA-5 8+75 ± 10 489 Lt
SA-1 & SA-5 13+50 ± 15+50 Lt
SA-1 & SA-5 15+30 ± 22+11 Lt

R.O.W. BID ITEM
CONSTRUCT DRIVE
17+50 RT

PROPERTY LINE FENCE WITH STEEL POSTS ITEM 583-1E MOD.		
STA.	STA.	POS.
Reloc. SA-1 & SA-5		LT.
15+00 ~ 23+14		

V.T. GRID

FILL
CUT

VT. H.D. BM #10 US. ELEV. 102.766

RELOC. SA-1 & SA-5 PI STA 21+2754 = 21+0399

RELOC. SA-1 & SA-5 POC STA 20+0000

RELOC. SA-1 & SA-5 POT STA 17+3222

RELOC. SA-1 & SA-5 POT STA 16+14.86

RELOC. SA-1 & SA-5 PC STA 19+19.93

RELOC. SA-1 & SA-5 PT STA 23+11.60

RELOC. SA-1 & SA-5
CURVE DATA
Δ = 47°00'00"
D = 12°00'00"
R = 477.47'
T = 207.61'
L = 391.67'
E = 43.18'
Rank = 5/8" Per Ft

MATCH LINE SEE SHEET No. 62
STA. 15+00.00

NOTE: RELOC. SA-1 & SA-5 TO BE BUILT IN ITS ENTIRETY DURING STAGE 1 CONSTRUCTION

24+50.00
END CONSTRUCTION

PLAN SCALE
0 50 100
100 FEET

P.V.I. 18+75 1015.15 800' V.C. M.O. 12.76' K = 63
P.V.T. 22+75 1034.35
P.V.C. 23+50 1037.95
P.V.I. 24+00 1040.35 100' V.C. M.O. 0.31' K = 40
P.V.T. 24+50 1041.50
-7.960%
+4.800%
+2.300%

PROFILE SCALE
HORIZ. 50 FEET
VERT. 10 FEET

STAGE 1 CONSTRUCTION

BROOKFIELD-WILLIAMSTOWN
BERLIN
RELOCATED SA-1 & SA-5
PROJECT 189-1(11)
CONTRACT No. 3
SHEET 63 OF 403

WEBSTER-MARTIN 7-66-67
W.R. FLETCHER 3-20-67
H.E. REYNOLDS 3-20-67
12

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