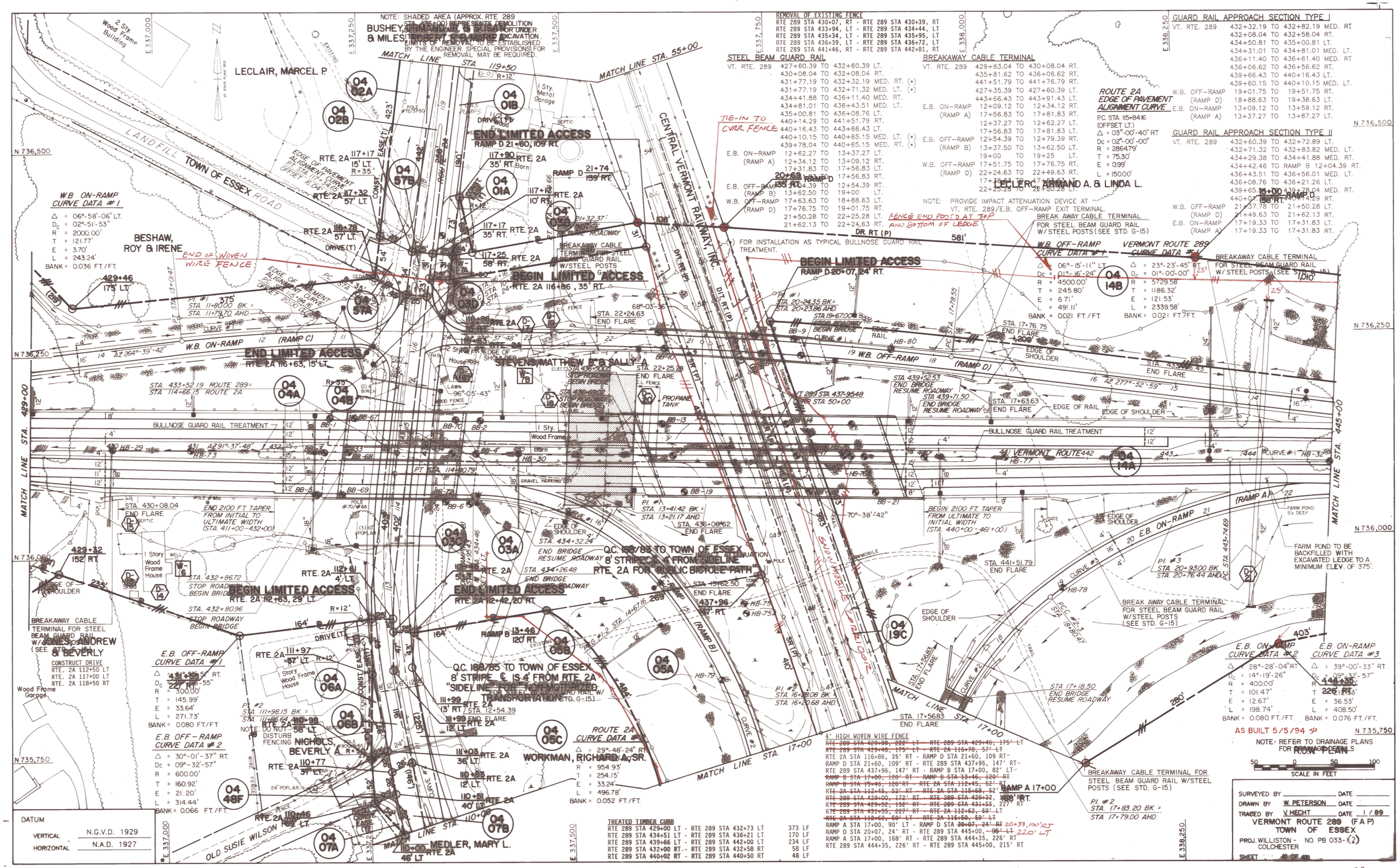

REMOVAL OF EXISTING FENCE

RTE 289 STA 430+07, RT - RTE 289 STA 430+39, RT
RTE 289 STA 433+94, LT - RTE 289 STA 434+44, LT
RTE 289 STA 435+34, LT - RTE 289 STA 435+95, LT
RTE 289 STA 436+39, LT - RTE 289 STA 436+72, LT
RTE 289 STA 441+46, RT - RTE 289 STA 442+81, RT

STEEL BEAM GUARD RAIL

VT. RTE. 289	427+60.39	TO	432+60.39 LT.
	430+08.04	TO	432+08.04 RT.
	431+77.19	TO	432+32.19 MED. RT. (*)
	431+77.19	TO	432+71.32 MED. LT. (*)
	434+41.88	TO	436+11.40 MED. RT.
	434+81.01	TO	436+43.51 MED. LT.
	435+00.81	TO	436+08.76 LT.
	440+14.29	TO	441+51.79 RT.
	440+16.43	TO	443+66.43 LT.
	440+10.15	TO	440+65.15 MED. LT. (*)
	439+78.04	TO	440+65.15 MED. RT. (*)
E.B. ON-RAMP (RAMP A)	12+62.27	TO	13+37.27 LT.
	12+34.12	TO	13+09.12 RT.
	17+31.83	TO	17+56.83 LT.
	17+56.83	TO	17+81.83 RT.
E.B. OFF-RAMP (RAMP B)	13+62.50	TO	12+54.39 RT.
	13+62.50	TO	19+00 LT.
W.B. OFF-RAMP (RAMP D)	17+63.63	TO	18+88.63 LT.
	17+76.75	TO	19+01.75 RT.
	21+50.28	TO	22+25.28 LT.
	21+62.13	TO	22+24.63 RT.

(*) FOR INSTALLATION AS TYPICAL BULLNOSE GUARD RAIL TREATMENT.

BREAKAWAY CABLE TERMINAL

VT. RTE. 289	429+83.04	TO	430+08.04 RT.
	435+81.62	TO	436+06.62 RT.
	441+51.79	TO	441+76.79 RT.
	427+35.39	TO	427+60.39 LT.
	443+66.43	TO	443+91.43 LT.
E.B. ON-RAMP (RAMP A)	12+09.12	TO	12+34.12 RT.
	17+56.83	TO	17+81.83 RT.
	12+37.27	TO	12+62.27 LT.
	17+56.83	TO	17+81.83 LT.
E.B. OFF-RAMP (RAMP B)	12+54.39	TO	12+79.39 RT.
	13+37.50	TO	13+62.50 LT.
	19+00	TO	19+25 LT.
W.B. OFF-RAMP (RAMP D)	17+51.75	TO	17+76.75 RT.
	22+24.63	TO	22+49.63 RT.
	17+33.63	TO	17+58.63 LT.
	22+25.28	TO	22+50.28 LT.

NOTE: PROVIDE IMPACT ATTENUATION DEVICE AT VT. RTE. 289/E.B. OFF-RAMP EXIT TERMINAL.

BREAK AWAY CABLE TERMINAL FOR STEEL BEAM GUARD RAIL W/STEEL POSTS (SEE STD. G-15)

GUARD RAIL APPROACH SECTION TYPE I

VT. RTE. 289	432+32.19	TO	432+82.19 MED. RT
	432+08.04	TO	432+58.04 RT.
	434+50.81	TO	435+00.81 LT.
	434+31.01	TO	434+81.01 MED. LT.
	436+11.40	TO	436+61.40 MED. RT
	436+06.62	TO	436+56.62 RT.
	439+66.43	TO	440+16.43 LT.
	439+60.15	TO	440+10.15 MED. LT.
W.B. OFF-RAMP (RAMP D)	19+01.75	TO	19+51.75 RT.
	18+88.63	TO	19+38.63 LT.
E.B. ON-RAMP (RAMP A)	13+09.12	TO	13+59.12 RT.
	13+37.27	TO	13+87.27 LT.

GUARD RAIL APPROACH SECTION TYPE II

VT. RTE. 289	432+60.39	TO	432+72.89 LT.
	432+71.32	TO	432+83.82 MED. LT.
	434+29.38	TO	434+41.88 MED. RT.
	434+42.46	TO	RAMP B 12+04.39 RT.
	436+43.51	TO	436+56.01 MED. LT.
	436+08.76	TO	436+21.26 LT.
	439+65.15	TO	439+78.04 MED. RT.
	440+07.29	TO	440+14.29 RT.
W.B. OFF-RAMP (RAMP D)	21+37.78	TO	21+50.28 LT.
	21+49.63	TO	21+62.13 RT.
E.B. ON-RAMP (RAMP A)	17+19.33	TO	17+31.83 LT.
	17+19.33	TO	17+31.83 RT.

ROUTE 2A EDGE OF PAVEMENT ALIGNMENT CURVE

P.C. STA. 115+84.16 (OFFSET LT.)
Δ = 03°-00'-40" RT
Dc = 02°-00'-00"
R = 286479'
T = 75.30'
E = 0.99'
L = 150.00'

W.B. ON-RAMP CURVE DATA #1

Δ = 06°-58'-06" LT.
Dc = 02°-51'-53"
R = 2000.00'
T = 121.77'
E = 3.70'
L = 243.24'
BANK = 0.036 FT./FT.

W.B. OFF-RAMP CURVE DATA #1

Δ = 06°-15'-11" LT.
Dc = 01°-16'-24"
R = 4500.00'
T = 245.80'
E = 6.71'
L = 491.11'
BANK = 0.021 FT./FT.

VERMONT ROUTE 289 CURVE DATA #1

Δ = 23°-23'-45" RT
Dc = 01°-00'-00"
R = 5729.58
T = 1186.32'
E = 121.53'
L = 2339.58'
BANK = 0.021 FT./FT.

E.B. OFF-RAMP CURVE DATA #1

Δ = 43°-39'-55" RT.
Dc = 22°-19'-55"
R = 300.00'
T = 145.99'
E = 33.64'
L = 271.73'
BANK = 0.080 FT/FT

E.B. OFF-RAMP CURVE DATA #2

Δ = 30°-01'-37" RT.
Dc = 09°-32'-57"
R = 600.00'
T = 160.92'
E = 21.20'
L = 314.44'
BANK = 0.066 FT./FT.

ROUTE 2A CURVE DATA #2

Δ = 29°-48'-24" RT
R = 954.93'
T = 254.15'
E = 33.24'
L = 496.78'
BANK = 0.052 FT./FT.

E.B. ON-RAMP CURVE DATA #2

Δ = 28°-28'-04" RT
Dc = 14°-19'-26"
R = 400.00'
T = 101.47'
E = 12.67'
L = 198.74'
BANK = 0.080 FT./FT.

E.B. ON-RAMP CURVE DATA #3

Δ = 39°-00'-33" RT
Dc = 09°-32'-57"
R = 600.00'
T = 226.78'
E = 36.53'
L = 408.50'
BANK = 0.076 FT./FT.

TREATED TIMBER CURB

RTE 289 STA 429+00 LT - RTE 289 STA 432+73 LT	373 LF
RTE 289 STA 434+51 LT - RTE 289 STA 436+21 LT	170 LF
RTE 289 STA 439+66 LT - RTE 289 STA 442+00 LT	234 LF
RTE 289 STA 432+00 RT - RTE 289 STA 432+58 RT	58 LF
RTE 289 STA 440+02 RT - RTE 289 STA 440+50 RT	48 LF

4' HIGH WOVEN WIRE FENCE

~~RTE 289 STA 429+00, 222' LT - RTE 289 STA 429+46, 175' LT~~
~~RTE 289 STA 429+46, 175' LT - RTE 2A 116+78, 57' LT~~
RTE 2A STA 116+86, 35' RT - RAMP D STA 21+60, 109 RT
RAMP D STA 21+60, 109' RT - RTE 289 STA 437+96, 147' RT
RTE 289 STA 437+96, 147' RT - RAMP B STA 17+00, 82' LT
~~RAMP B STA 17+00, 120' RT - RAMP B STA 13+46, 120' RT~~
~~RAMP B STA 13+46, 120' RT - RTE 2A STA 112+45, 52' RT~~
~~RTE 2A STA 112+45, 52' RT - RTE 2A STA 115+68, 52' RT~~
~~RTE 289 STA 429+00, 172' RT - RTE 289 STA 429+32, 158' RT~~
RTE 289 STA 429+32, 158' RT - RTE 289 STA 431+55, 227' RT
~~RTE 289 STA 431+55, 227' RT - RTE 2A 112+62, 59' LT~~
~~RTE 2A STA 112+62, 59' LT - RTE 2A 115+50, 59' LT~~
RAMP A STA 17+00, 90' LT - RAMP D STA ~~20+07, 24' RT~~ 20+33, 100' RT
RAMP D STA 20+07, 24' RT - RTE 289 STA 445+00, ~~96' LT~~ 22.0' LT
RAMP A STA 17+00, 168' RT - RTE 289 STA 444+35, 226' RT
RTE 289 STA 444+35, 226' RT - RTE 289 STA 445+00, 215' RT

BREAKAWAY CABLE TERMINAL FOR STEEL BEAM GUARD RAIL W/STEEL POSTS (SEE STD. G-15)

P.I. #2
STA. 17+83.20 BK. =
STA. 17+79.00 AHD.

DATUM

VERTICAL	N.G.V.D. 1929
HORIZONTAL	N.A.D. 1927

SCALE IN FEET

SURVEYED BY _____ DATE _____
DRAWN BY W. PETERSON DATE _____
TRACED BY V. HECHT DATE 1/89

VERMONT ROUTE 289 (F.A.P.)
TOWN OF ESSEX
PROJ. WILLISTON - COLCHESTER NO. PB 033-(2)
SHEET 40 OF 40

P-3