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161.	SCB-D99-67-Details of WF Beam Bridges	1/24/68
162.	SCB-D100-67-Details of WF Beam Bridges	1/24/68

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
PROJECT NAME & NUMBER TYPE PAVT. AREA
ROYALTON-TUNBRIDGE S0169(I) BIT. CONC. 33,259 S.Y.
RECORD PLANS
MATERIALS

SUBBASE OF GRAVEL—EATON PIT—ROYALTON, VT.
CRUSHED GRAVEL OR CRUSHED STONE PLANT MIXED BASE
COURSE—BIT. CON. PLANT—BERLIN, VT.
CONCRETE CLASS AA & B—MILLER READY MIX CONC.—W. LEBANON, N.H.
REINFORCING STEEL—BANCROFT & MARTIN, INC.—SO. PORTLAND, ME.
STRUCTURAL STEEL & HAND RAILING—VERMONT STRUCTURAL STEEL
CORP.—BURLINGTON, VT.
SHEAR CONNECTORS—NELSON STUD WELDING—LORRAIN, O.
ANTI-SPALLING COMP. & EPOXY COATING COMP.—KIBBY
EQUIPMENT CO.—WHITE RIVER JUNCTION, VT.
BRIDGE PAINT—C.E. BRADLEY LABS, INC.—BRATTLEBORO, VT.
JOINT SEALER—HOT POURED—A.H. HARRIS & SONS, INC.—NEW BRITAIN, CT.
JOINT SEALER PREFORMED—THE JOHNSON RUBBER CO.—MIDDLEFIELD, OHIO.
BRIDGE RAILING—WARD WELLS CO., INC.—NATICK, MA.
TAR EMULSION—TRI STATE SEAL COATING—ASHLAND, N.H.
BITUMINOUS CONCRETE—BIT CON PLANT—BERLIN, VT. &
L.M. PIKE PLANT 804—W. LEBANON, N.H.
CUTBACK ASPHALT—MOBIL OIL CO.—ALBANY, N.Y.
INSULATION BOARD—DOW CHEMICAL CO.—CHESTNUT HILL, MA.
METAL CULVERTS—NORTHEASTERN CULV. CORP.—WESTMINSTER, VT.
ALUMINUM CULVERT—KAISER ALUMINUM & CHEMICAL SALES, INC.—
SCHENECTADY, N.Y.
REINFC. CONC. PIPE, FENCE, GUARD RAIL & EROSION CONTROL ITEMS—
S.T. GRISWOLD & CO., INC.—WILLISTON, VT.
R.C. CATCH BASIN OR M. HOLE—CALCO, INC.—WATERFORD, VT.
CAST IRON GRATES—E.L. LEBANON FOUNDRY CO.—BROCKTON, MA.
ASBESTOS-CEMENT LINED PIPE—JOHN MANVILLE SALES CORP.—BOSTON, MA.
COPPER WATER TUBE—NEW HAMPSHIRE SUPPLY CO.—MANCHESTER, N.H.
INTERVALVE & VALVE BOX MECHANICAL JOINT—JOHNSON ASBESTOS CORR—
W. SPRINGFIELD, MA.

PROPOSED IMPROVEMENT
TOWNS OF ROYALTON - TUNBRIDGE
COUNTIES OF ORANGE - WINDSOR
VERMONT ROUTE 110

BEGINNING AT THE JUNCTION OF VT. RTES. 14 AND 110, 2.32 MILES
SOUTH OF THE ROYALTON-TUNBRIDGE TOWN LINE, AND EXTENDING
NORTH 2.577 MILES

LENGTH OF ROADWAY 13,457.9' = 2.549 MI.
LENGTH OF BRIDGE 148 FT. = 0.028 MI.
LENGTH OF PROJECT 13,605.9' = 2.577 MI.

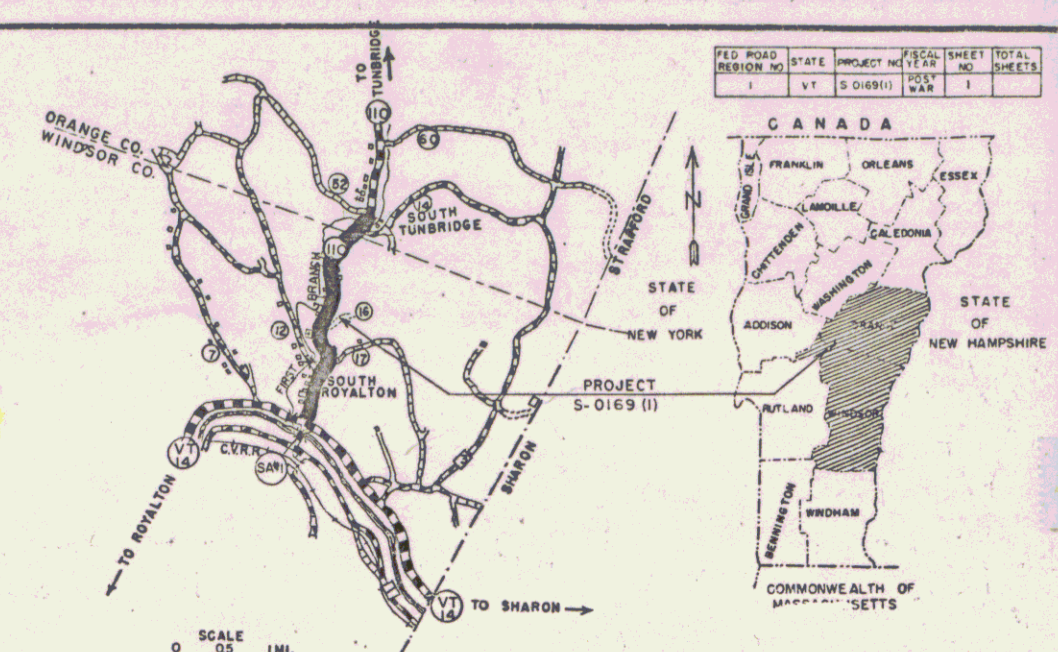
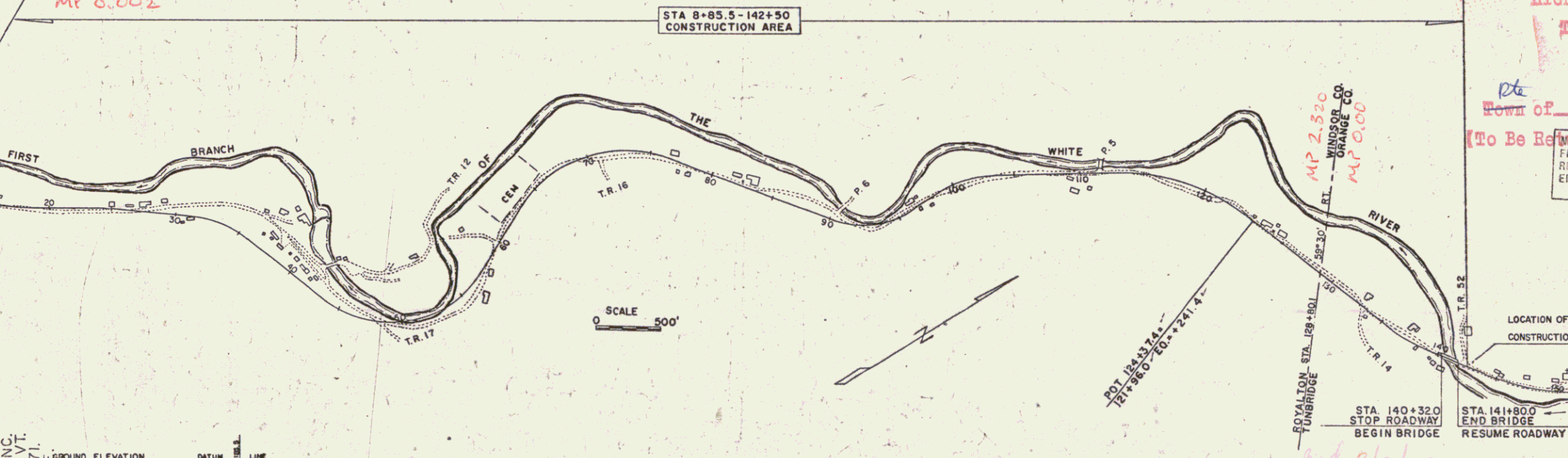
1965 ADT 820
1985 ADT 1130
1985 DHV 180
D=64%
T=6%
V=50 MPH

BENCH MARKS BASED
ON U.S.G.S. ELEVATION

LOCATION OF FEDERAL
AID CONSTRUCTION
IDENTIFICATION SIGNS

CONVENTIONAL SIGNS

RIGHT-OF-WAY	
SLOPE RIGHTS	
COUNTY LINE	
TOWN LINE	
FENCE LINE	
STONE WALL	
UNFENCED PROPERTY	
GUARD RAIL	
TRAVELED WAY	
RAILROAD	
PFTAINING WALL	
CENTER LINE	
SURVEY LINE	
CULVERT	
DROP INLET	
TROLLEY POLE	
POWER POLE	
TELEPHONE POLE	
TREES	
MEDE	



CONTRACTOR
CALEDONIA, INC.
ST. JOHNSBURY, VT.
RESIDENT ENGINEER—THOMAS K. PIERCE
ASSIST. RES. ENG.—RODERICK J. MACLAY
INSPECTORS—W.R. STODDARD, D.W. NEWTON, F.
J. HALL, JR. & R.C. LANCE
RECORD PLANS—A.G. SPIDLE

CONTRACT—DATED—FEBRUARY 11, 1970.
STARTED—FEBRUARY 16, 1970.
COMPLETED—JULY 30, 1971.
ACCEPTED—JULY 30, 1971.

RIGHT-OF-WAY DIVISION
TOWN FILE
PERPETUAL
Town of UT 110
(To Be Reverted to the State of Vermont)
NOTICE: ANY OTHER INFORMATION CONCERNING
FINAL QUANTITIES, AMOUNTS OR OTHER DETAILS
RELATIVE TO THIS PROJECT MAY BE FOUND IN
EITHER THE FIELD BOOKS OR THE ESTIMATE
FILE.

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 <i>[Signature]</i> DIRECTOR R.O.W. DATE 7/3/69	APPROVED <i>[Signature]</i> ASSIST. CHIEF ENGINEER DATE 7/3/69	APPROVED <i>[Signature]</i> BRIDGE ENGINEER DATE 12/20/65	APPROVED <i>[Signature]</i> DISTRICT ENGINEER DATE 12/20/65	APPROVED <i>[Signature]</i> HIGHWAY ENGINEER DATE 12/20/65	APPROVED <i>[Signature]</i> CHIEF ENGINEER DATE 1/28/66
APPROVED <i>[Signature]</i> CONSTRUCTION ENGINEER DATE 1/28/66	APPROVED <i>[Signature]</i> ASSIST. CHIEF ENGINEER DATE 7/3/69	APPROVED <i>[Signature]</i> BRIDGE ENGINEER DATE 12/20/65	APPROVED <i>[Signature]</i> DISTRICT ENGINEER DATE 12/20/65	APPROVED <i>[Signature]</i> HIGHWAY ENGINEER DATE 12/20/65	APPROVED <i>[Signature]</i> CHIEF ENGINEER DATE 1/28/66

DEPARTMENT OF TRANSPORTATION
BUREAU OF PUBLIC ROADS

APPROVED _____
DIVISION ENGINEER DATE _____

PROJECT S NO. 0169(I)
SHEET 1 OF 164 SHEETS

PROPOSED IMPROVEMENT

BEGINNING AT A POINT 2.34 MILES SOUTHWESTERLY OF THE
ROYALTON-TUNBRIDGE TOWN LINE AND EXTENDING NORTH-
EASTERLY 2.977 MILES

ROW PLANS

LENGTH OF PROJECT 1,714' = 0.32 MI.



APPROVED H. P. Radigan
ROW DIRECTOR
DATE 9/30/66

POOR ORIGINAL COPY

BEGIN ROW PLANS SEC. II	
50169(1)	STA. 128+49 LT.

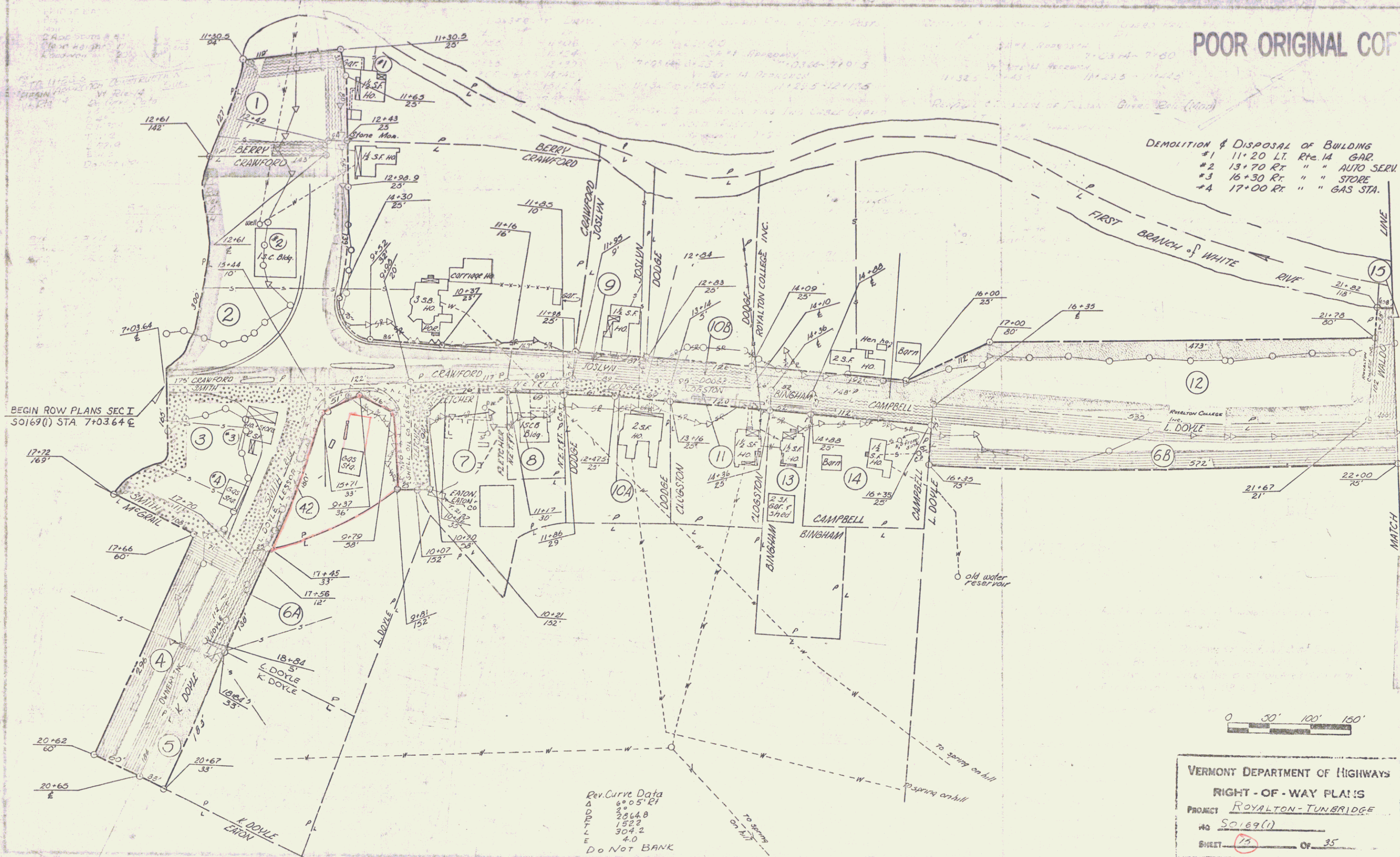
END ROW PLANS SEC. II
SO169(1) / STA. 145+63 @

LOCATION OF THE TAIL AND
CONSTRUCTION IDENTIFICATION SING

18

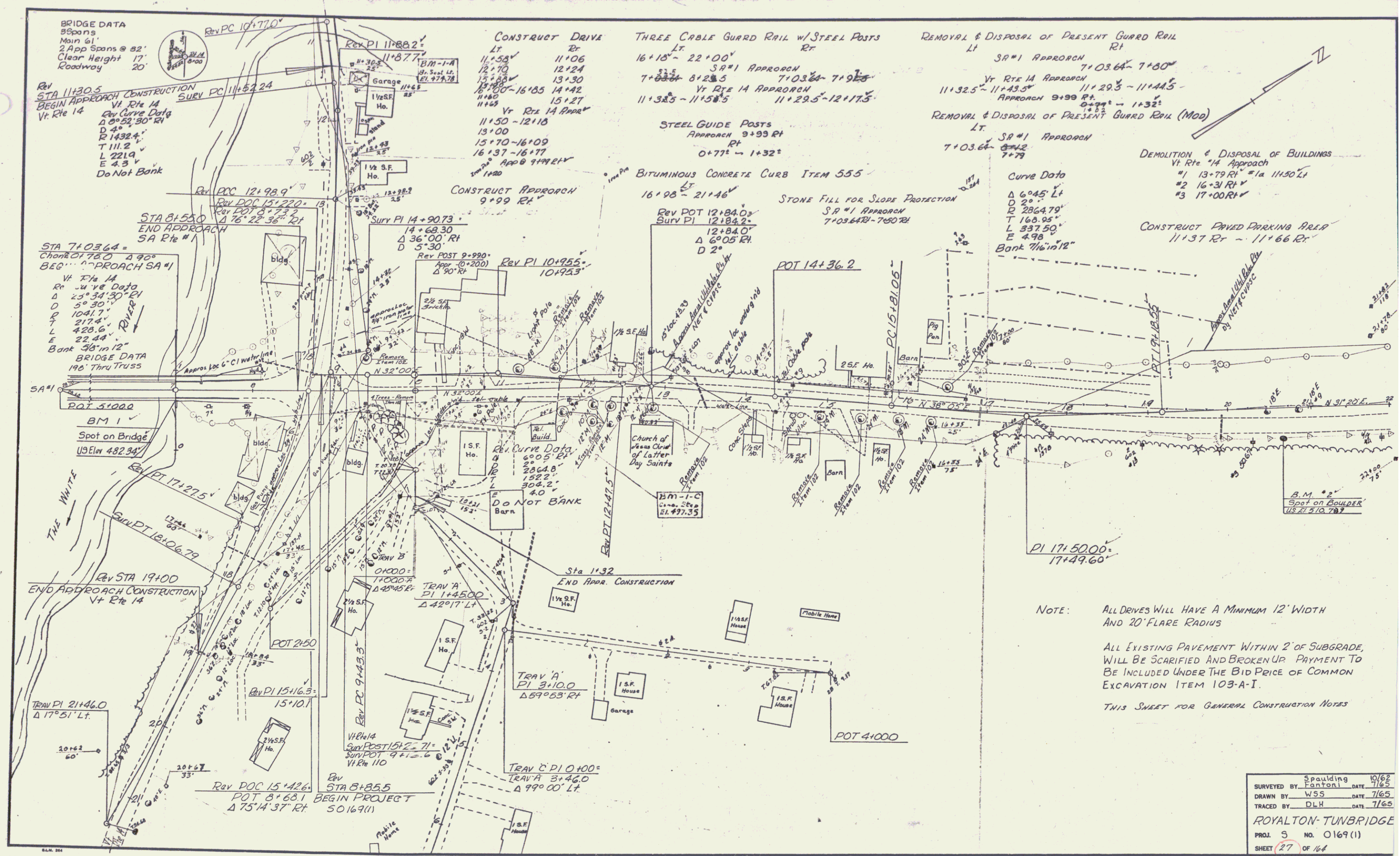
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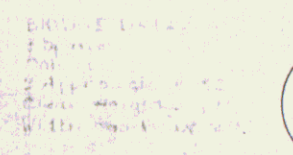
DEMOLITION & DISPOSAL OF BUILDING
#1 11+20 LT. Rte. 14 GAR.
#2 13+70 RT. " " AUTO SERV.
#3 16+30 RT. " " STORE
#4 17+00 RT. " " GAS STA.



Rev. Curve Data
60.05' R
2864.8
1522
304.2
4.0
DO NOT BANK

VERMONT DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS
PROJECT ROYALTON-TUNBRIDGE
NO. 50189(1)
SHEET 15 OF 35





VI Rte 14
Rev Curve Data

VI Rte 14
Rev Curve Data

POT 5100.0

THE WHITE
RIVER

Rev POC 15+42.6
POT 8+68.1
Δ 75°14'37" Rt

CONSTRUCT REINFORCED CONCRETE
RETAINING WALL

Lt Rt
9174 - 11+41
12+27 - 12+57
INSTALL ON TOP OF RETAINING WALLS
4 GALV CHAIN LINK FENCE, ITEM 581-1A
Lt Rt
9174 - 11+41
METAL HAND RAILING, ITEM 563
Lt & Rt of Steps
12+28 - 12+56

CONSTRUCT CURB

Lt Rt
9109 - 11+30 8+335 - 9+189
11+66 - 12+08 10+91 - 11+00
12+19 - 12+68 11+31 - 12+15
12+79 - 13+08 12+31 - 13+23
13+21 - 15+79 13+39 - 14+33
14+49 - 15+88 15+39 - 16+00
SR #1 APPROACH 4A 715242
7+03.6 - 8+72 7+03.6 - 8+72
VT Rte 14 APPROACH 5A 710111
13+08 - 14+35 13+00 - 14+35
16+39 - 16+39 16+42 - 17+50
16+78 - 17+50
APPROACH @ 9+99 Rt
0+43 - 0+75 0+43 - 0+75
1+12
Rev POT 12+84.0
Surv PT 12+84.2
Δ 6°05' Rt
D 2°

2" BITUMINOUS CONCRETE SIDEWALK (Mod)

Lt Rt
13+12 - 9+09 - 11+45 13+12 - 9+09 - 11+45
15+335 - 9+189 15+335 - 9+189
10+11 - 11+00 10+11 - 11+00
11+37 - 12+15 11+37 - 12+15
12+31 - 13+23 12+31 - 13+23
13+39 - 14+33 13+39 - 14+33
14+49 - 15+88 14+49 - 15+88
15+39 - 16+00 15+39 - 16+00
SR #1 APPROACH 4A 715242
7+03.6 - 8+72 7+03.6 - 8+72
VT Rte 14 APPROACH 5A 710111
13+08 - 14+35 13+00 - 14+35
16+39 - 16+39 16+42 - 17+50
16+78 - 17+50
APPROACH @ 9+99 Rt
0+43 - 0+75 0+43 - 0+75
1+12

SLOPE EDGING

9108 - 9+79
SR #1 APPROACH
7+91 - 8+37

BITUMINOUS CONCRETE SURFACE
FOR GUTTERS & TRAFFIC ISLANDS

9101 - 9+79
SR #1 APPROACH
7+91 - 8+37

PI 17+50.00
17+49.60

19+92.10 8+1 ACC MP (1/2 3/4)
85+17 Rt

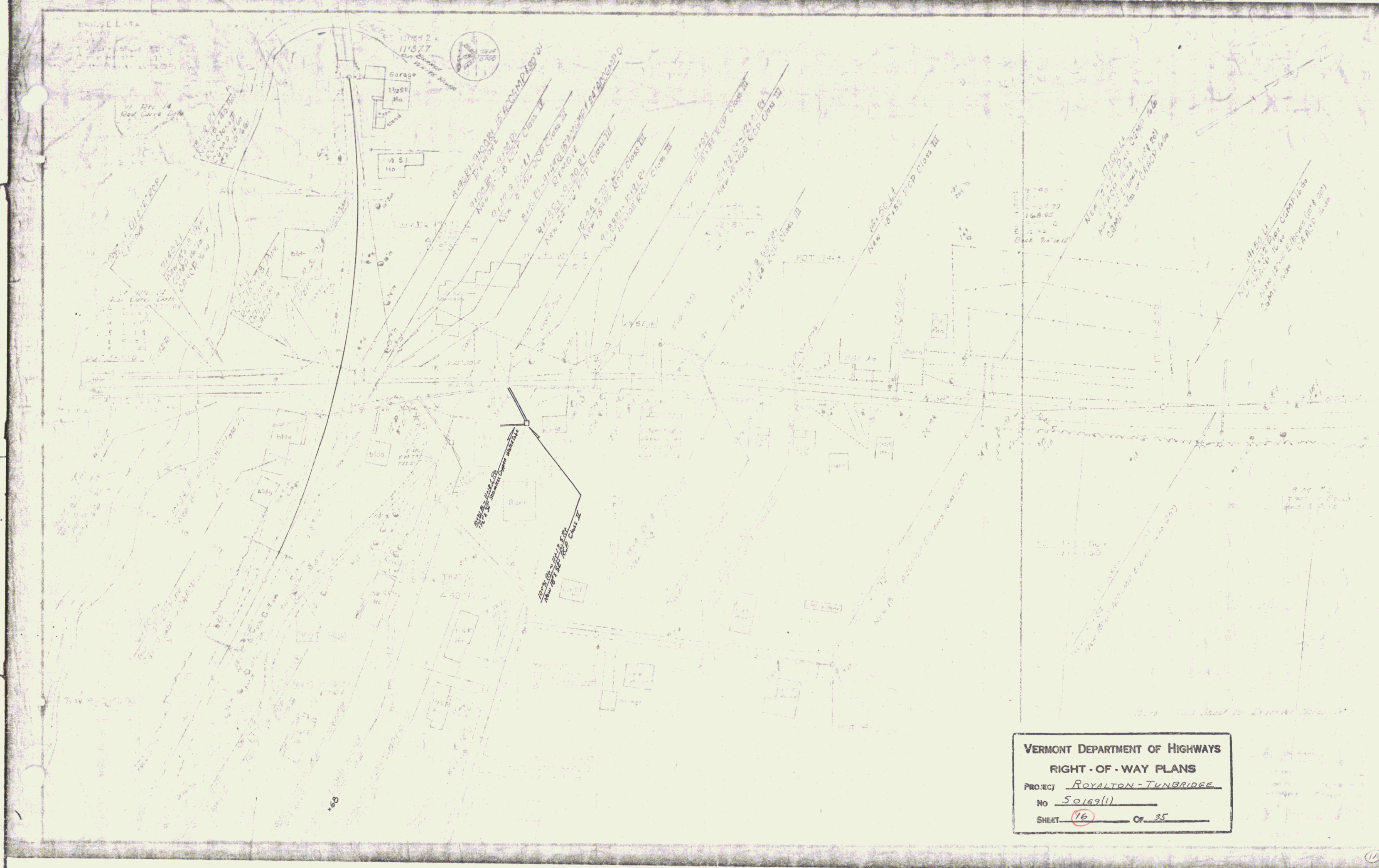
NOTE: THIS SHEET FOR CURB & SIDEWALK NOTES
SEE SHEETS 3, 4, 30, OF 164 FOR DETAILS
31, 4, 86

ROYALTON - TUNBRIDGE

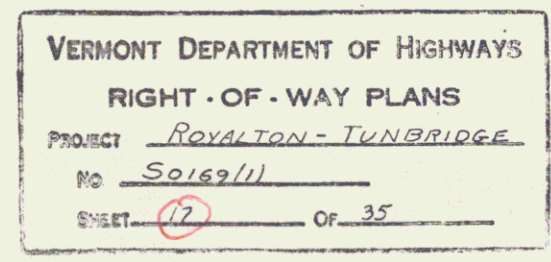
28 164

6

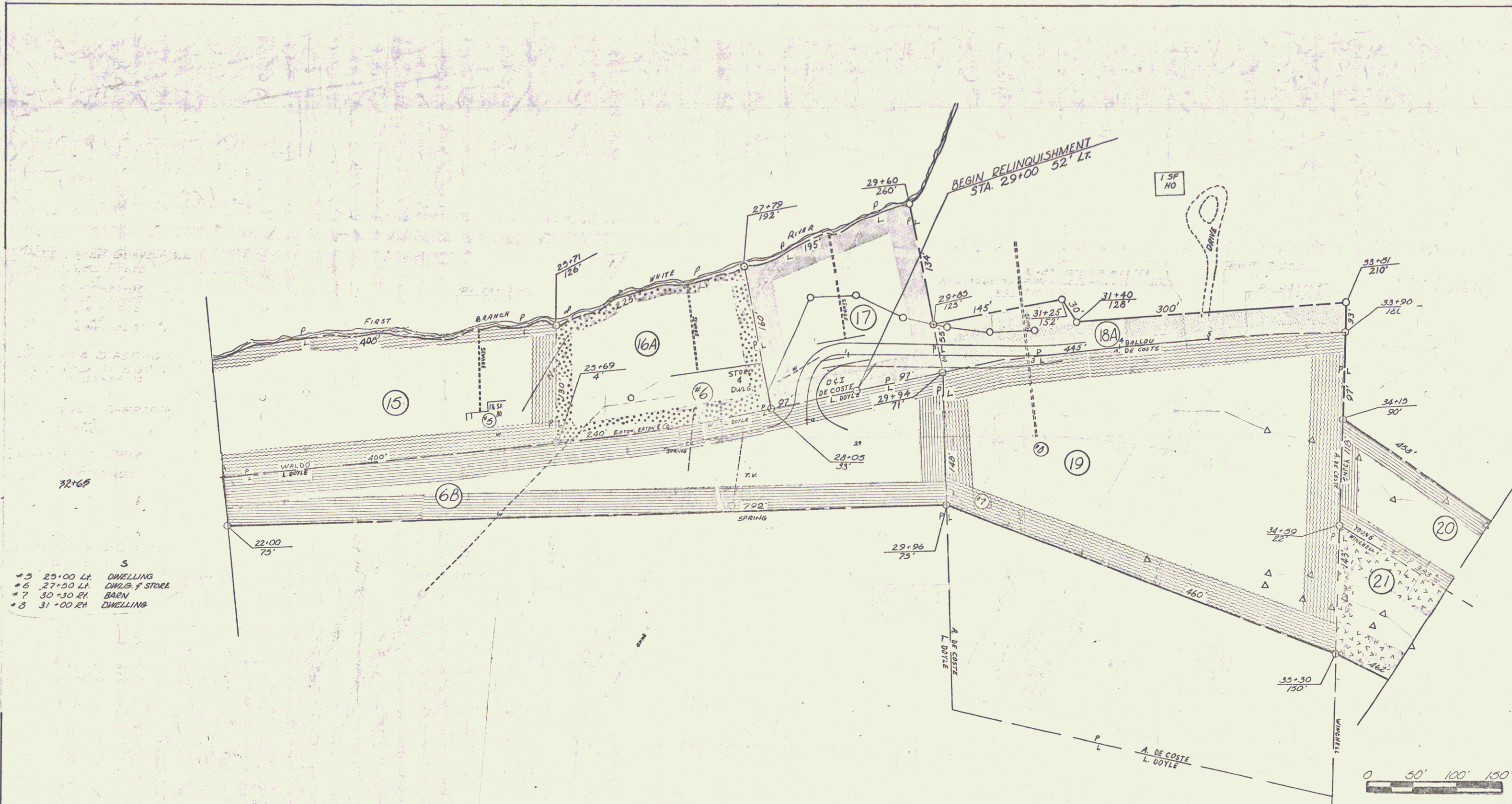
POOR ORIGINAL COPY



VERMONT DEPARTMENT OF HIGHWAYS
RIGHT - OF - WAY PLANS
PROJECT ROYALTON - TUNBRIDGE
No 50169(1)
SHEET 16 OF 35



POOR ORIGINAL COPY



- *5 23+00 L.R. DWELLING
 *6 27+50 L.R. DWELL. & STORE
 *7 30+30 R.H. BARN
 *8 31+00 R.H. DWELLING

VERMONT DEPARTMENT OF HIGHWAYS
 RIGHT-OF-WAY PLANS
 PROJECT ROYALTON-TUNBRIDGE
 NO. 50,169(1)
 SHEET 18 OF 35

PLAN
 DRAWN BY
 CHECKED BY
 DATE
 PROJECT NO.
 SHEET NO.

PROFILE
 DRAWN BY
 CHECKED BY
 DATE
 PROJECT NO.
 SHEET NO.

THREE CABLE GUARD RAIL
 W/ STEEL POSTS

Lt. 22+00~32+00
 34+10~32+00
 App 0 31+00 Lt
 Lt. 29+02~32+50
 28+06~30+00

DRILLING & BLASTING OF
 SOLID ROCK SUBGRADE
 37+25~36+00

CONSTRUCT APPROACH

Lt. 34+00
 28+50

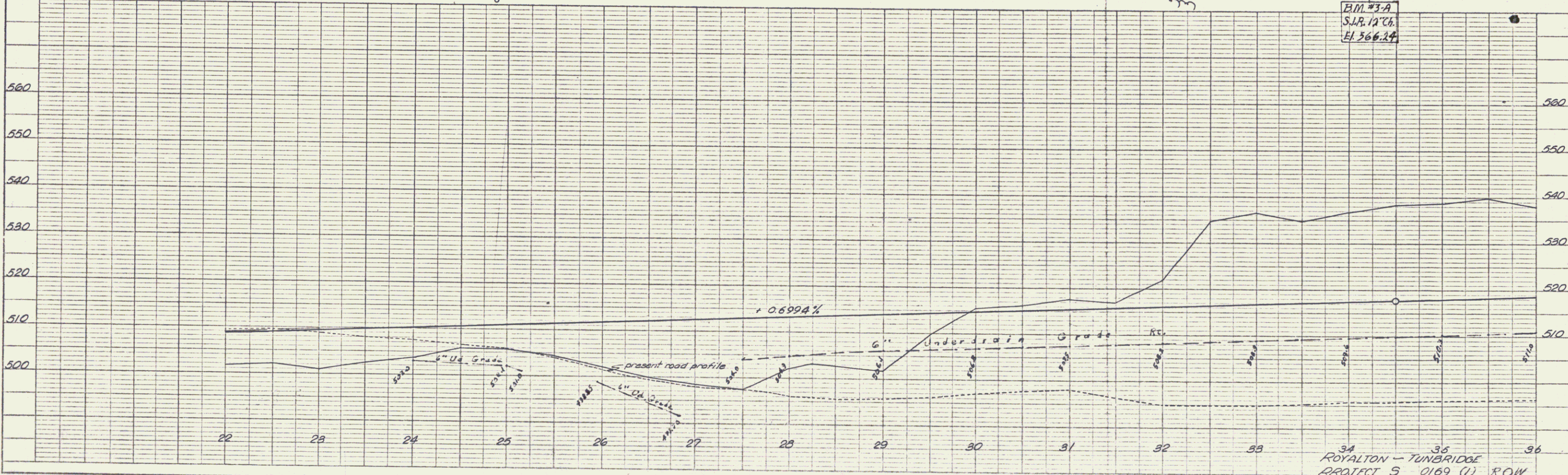
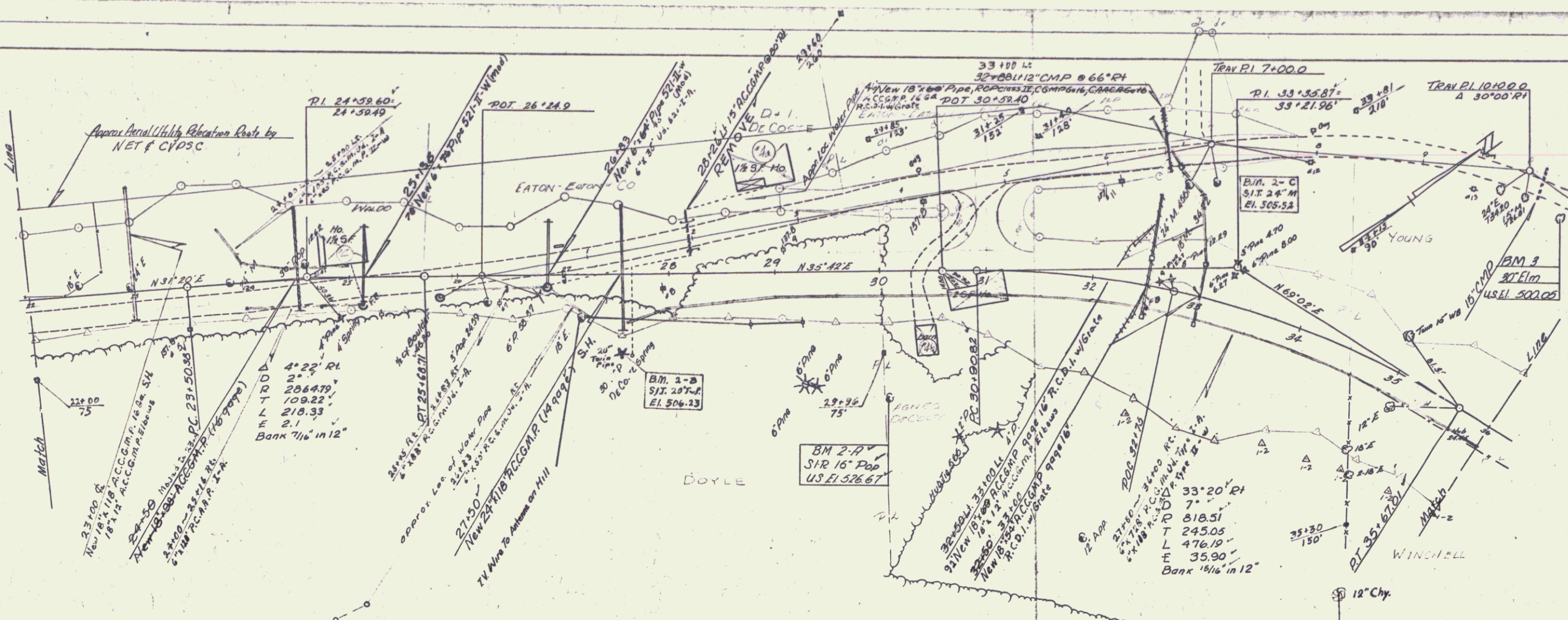
CONSTRUCT DRIVE

Lt. 29+00~30+90
 32+680

DEMOLITION AND DISPOSAL

OF BUILDING

#4 25+00 Lt #4a 2400 Lt
 #6 31+12 E #6b 30490 Lt



ROYALTON - TUNBRIDGE
 PROJECT S 0169 (1) ROW
 Sheet 34 of 164

PLATE 1 - PLAN PROFILE & P&T ENDS

DEMOLITION AND DISPOSAL

OF BUILDINGS

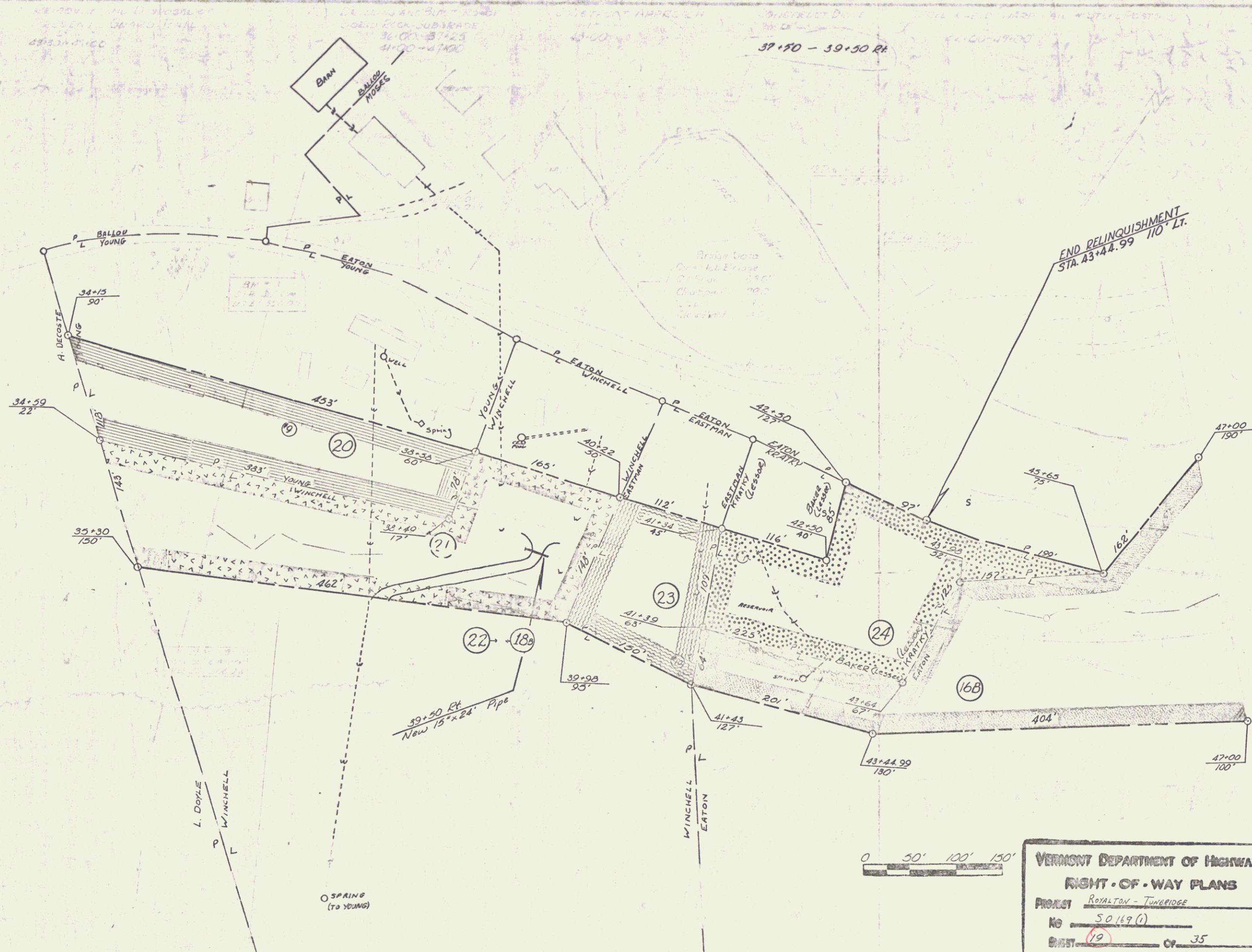
#7 36x72 LI. SHED

#8 41x30 LI. SHED

EXCAVATION AND REMOVAL OF ROAD

AND BRIDGE PAVEMENT - 1100' 119'

4100-4500



VERMONT DEPARTMENT OF HIGHWAYS
 RIGHT-OF-WAY PLANS
 PROJECT ROYALTON - TUNBIDGE
 No 50169 (1)
 SHEET 19 OF 35

DEMOLITION & DISPOSAL OF BUILDINGS
 #7 36+72 Lt #76 41+30 Rt
 #8 41+30 Lt
 #9a 42+20 Rt
 #9b 42+180 Rt
 EXCAVATION AND REMOVAL OF ROAD
 SURFACES AND/OR PAVEMENTS- ITEM 119
 Lt
 43+10 ~ 47+00

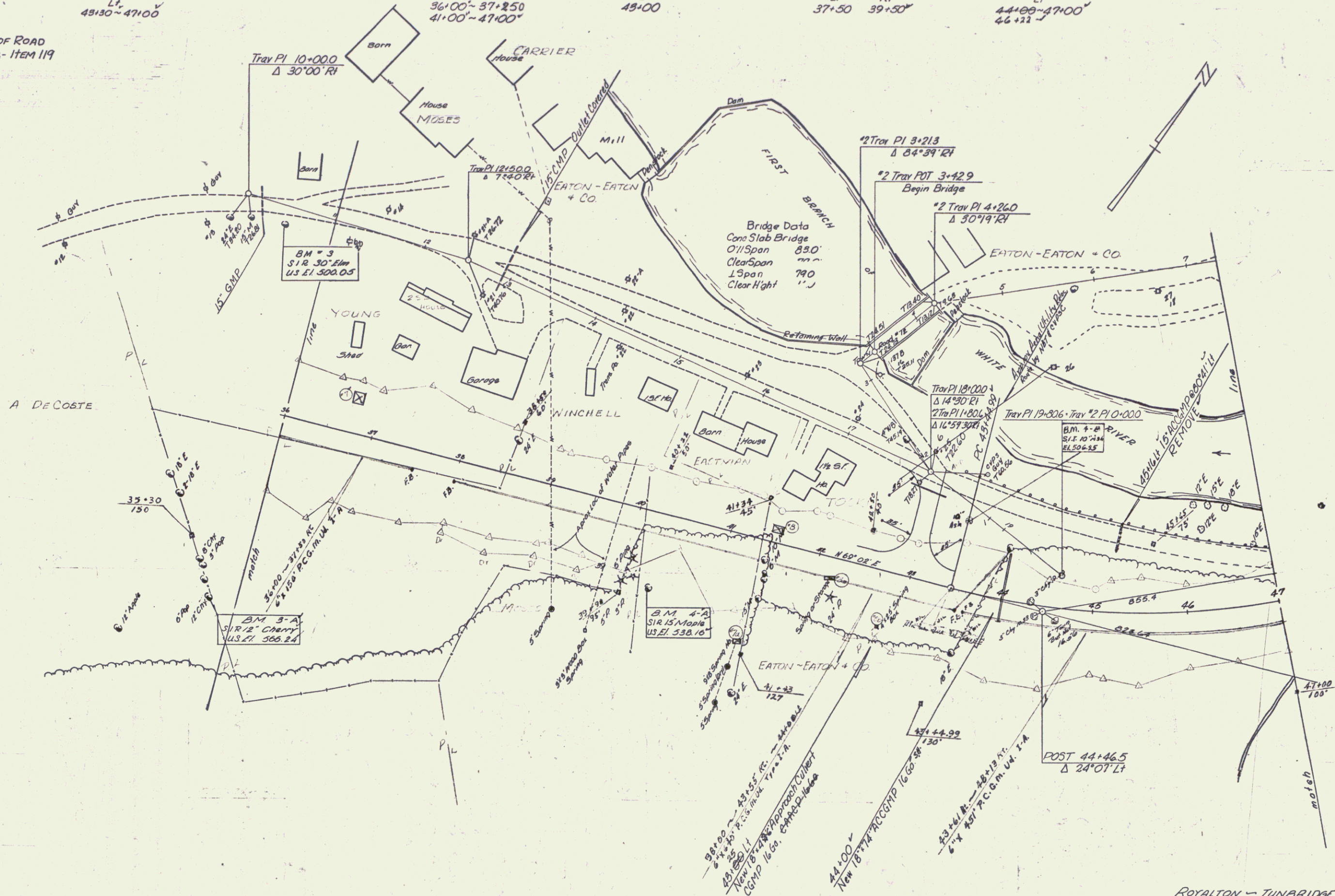
REMOVAL AND DISPOSAL OF
 PRESENT GUARD RAIL
 Lt
 43+30 ~ 47+00

DRILLING AND BLASTING OF
 SOLID ROCK SUBGRADE
 36+00 ~ 37+250
 41+00 ~ 47+00

CONSTRUCT APPROACH
 Lt
 43+00

CONSTRUCT DRIVE
 Lt Rt
 37+50 39+50

THREE CABLE GUARD RAIL W/STEEL POSTS
 Lt
 44+00 ~ 47+00
 46+22



ROYALTON - TUNBRIDGE
 PROJECT S 0169 (1)
 Sheet 95 of 164



Vt. Route #110

VERMONT DEPARTMENT OF HIGHWAYS

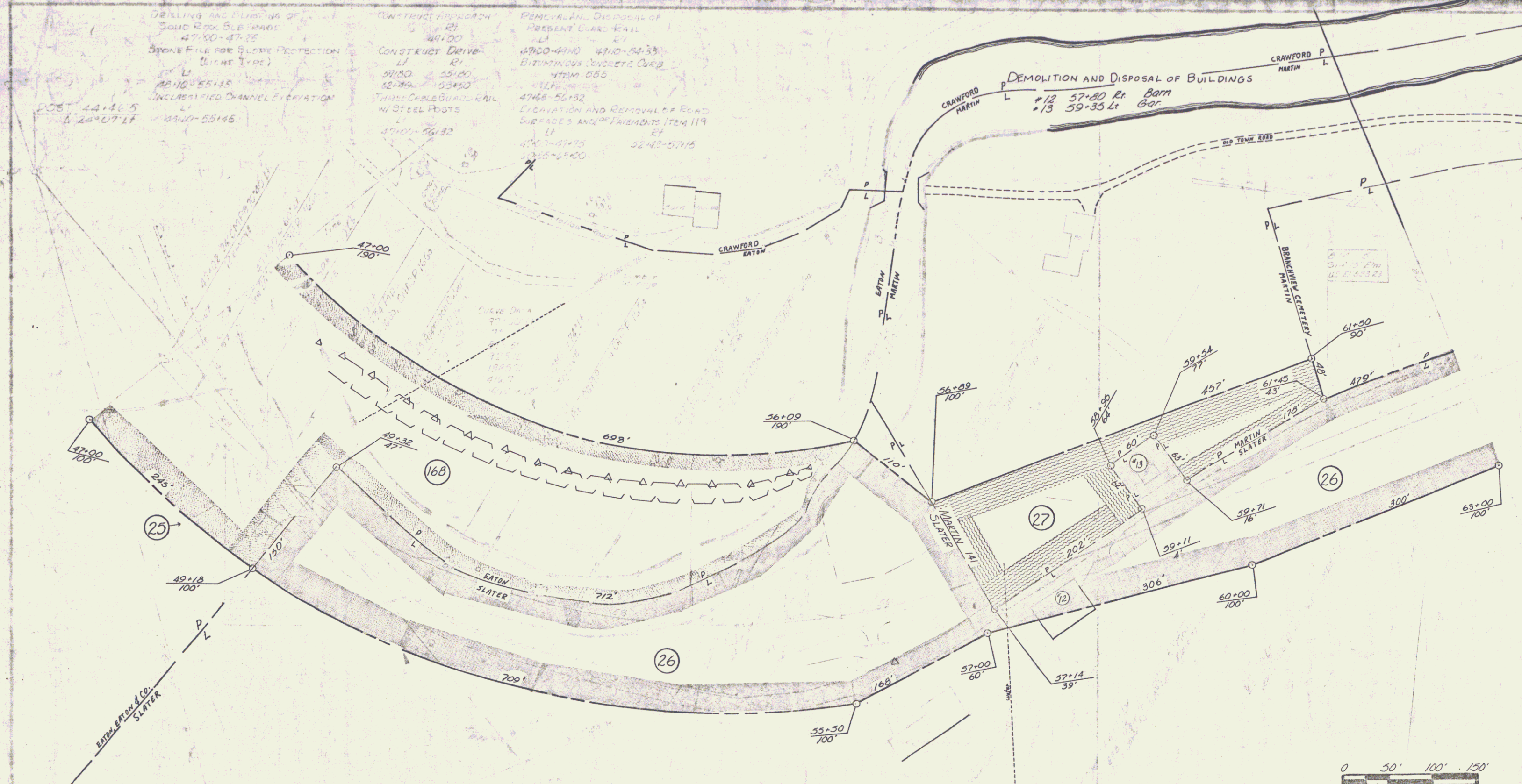
RIGHT-OF-WAY PLANS

PROJECT ROYALTON-TUNBRIDGE

NO 50169(1)

SHEET 20 OF 35

POOR ORIGINAL COPY

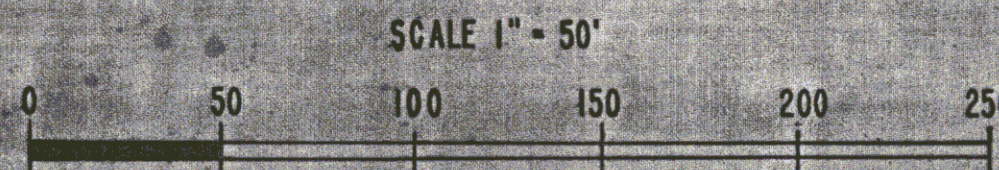
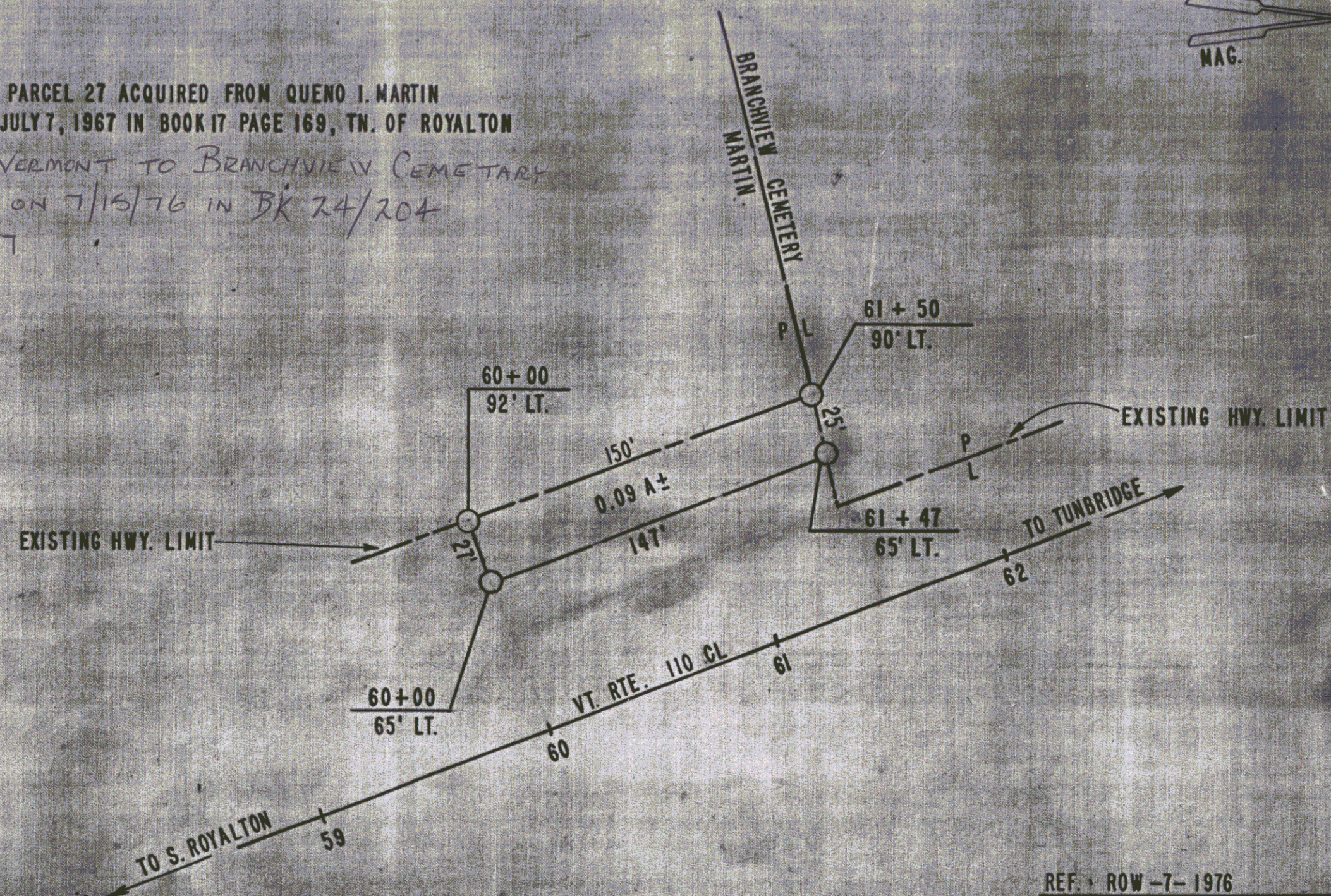
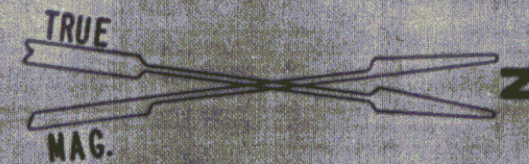


VERMONT DEPARTMENT OF HIGHWAYS
RIGHT - OF - WAY PLANS
PROJECT ROYALTON - TUNBRIDGE
No 50169(1)
SHEET 20A Of 35

POOR ORIGINAL COPY

FORMERLY PART OF PARCEL 27 ACQUIRED FROM QUENO I. MARTIN
BY W.D. RECORDED JULY 7, 1967 IN BOOK 17 PAGE 169, TN. OF ROYALTON

STATE OF VERMONT TO BRANCHVIEW CEMETARY
BY QCD ON 7/15/76 IN BK 24/204
MP 0097

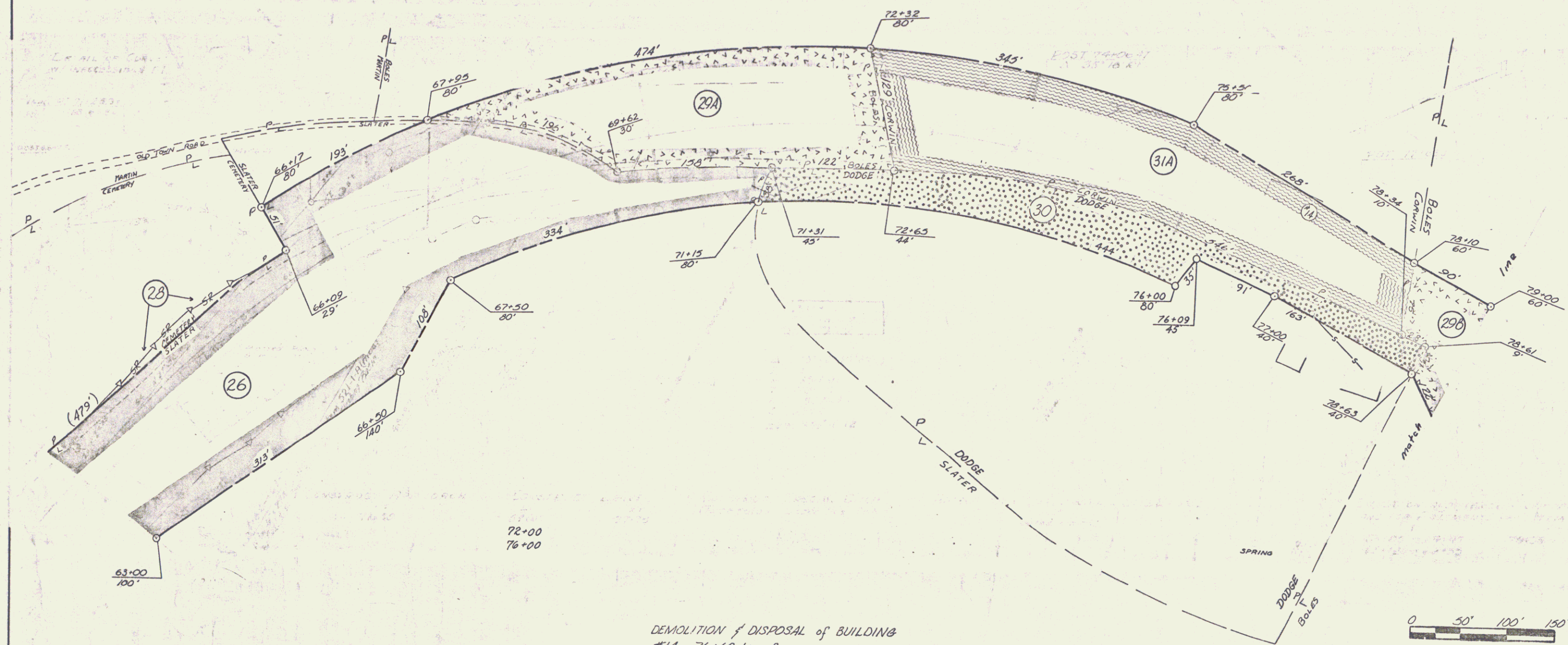


REF. ROW - 7-1976

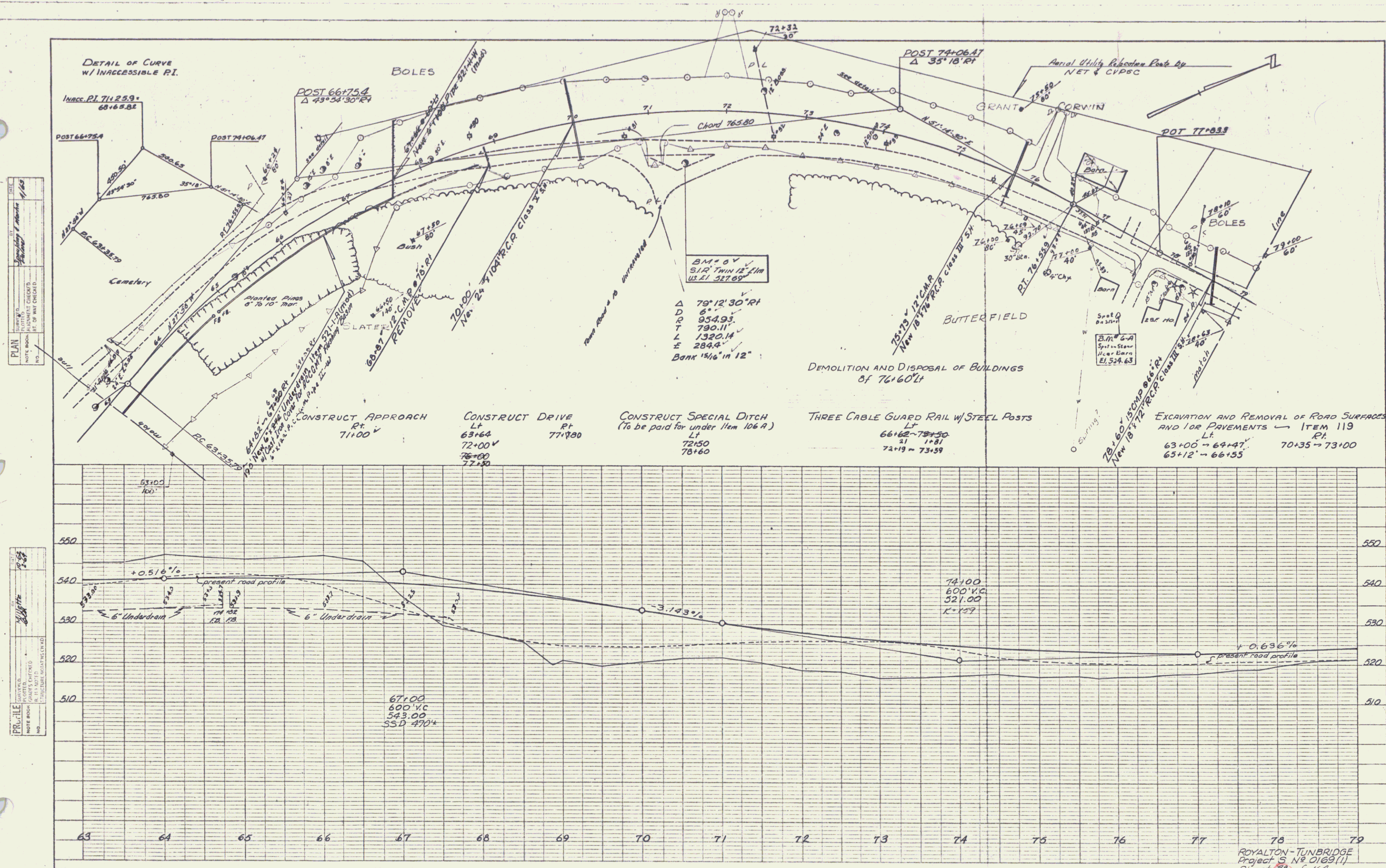
STATE OF VERMONT
DEPT. OF HIGHWAYS

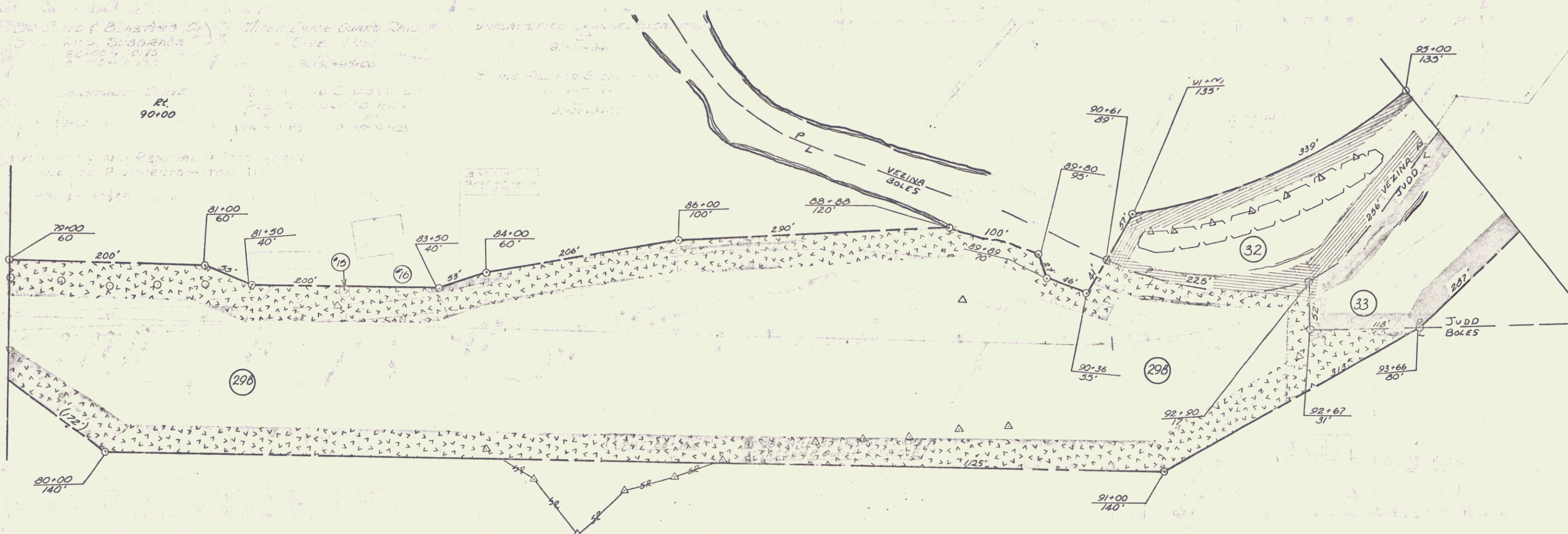
TOWN OF ROYALTON

PROJECT ROYALTON - TUNBRIDGE S0169 (1) 17
APPROX. SCALE 1" = 50' DATE 5-18-76 DRAWN BY KDP

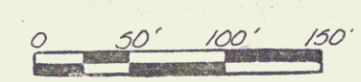


VERMONT DEPARTMENT OF HIGHWAYS
 RIGHT-OF-WAY PLANS
 PROJECT ROYALTON-TUNBRIDGE
 No 50169(1)
 SHEET 21 OF 35

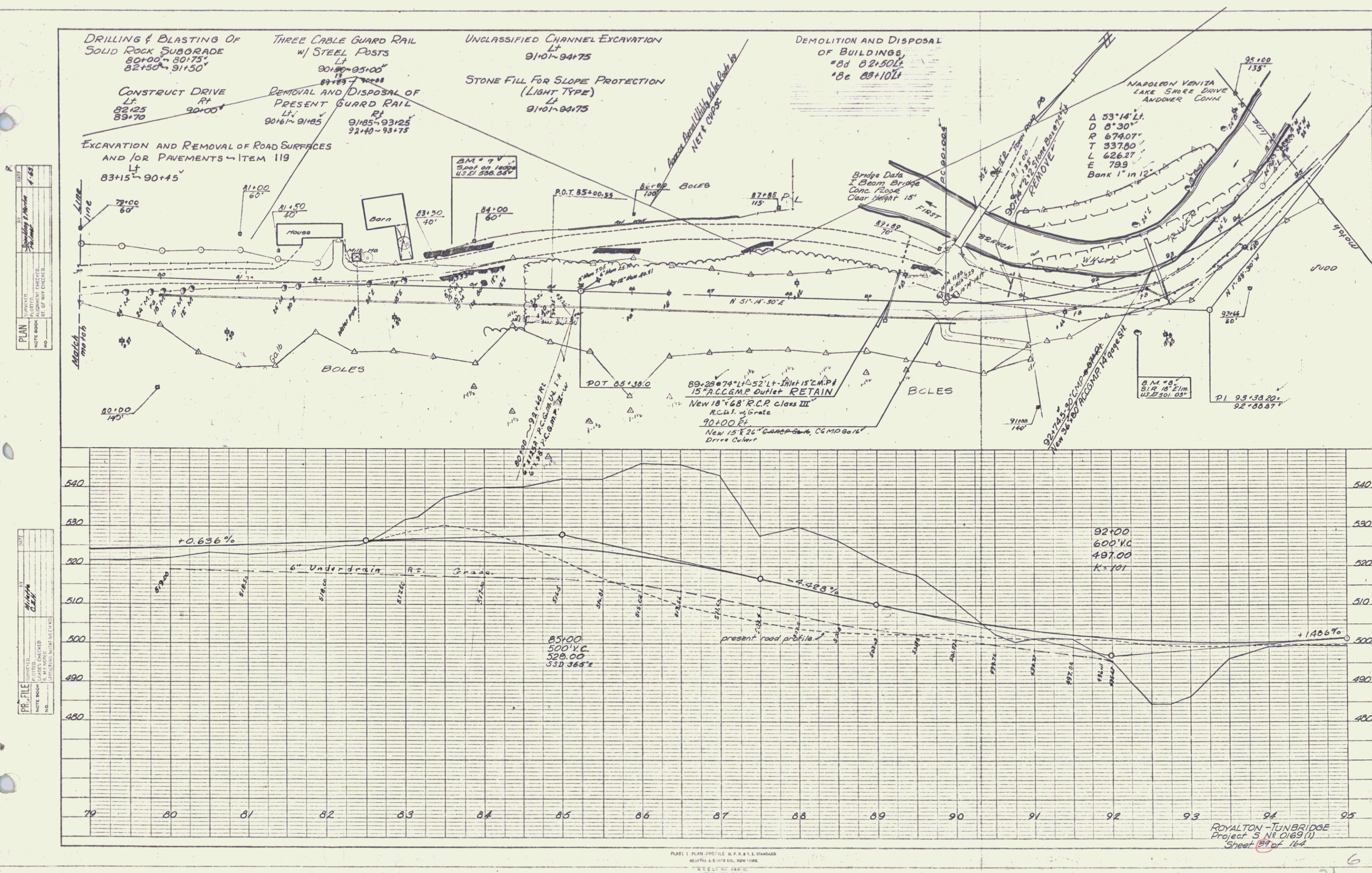


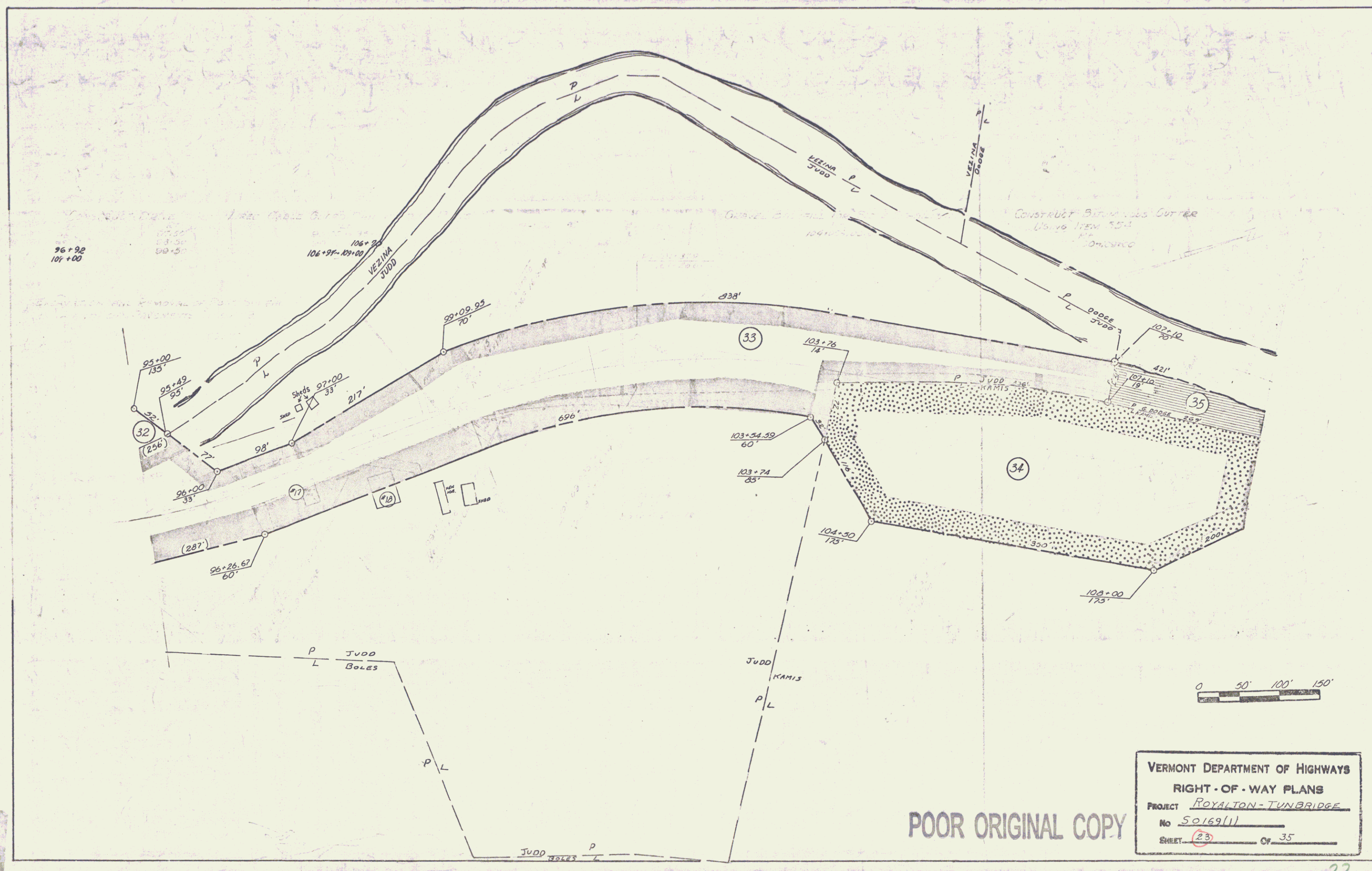


DEMOLITION & DISPOSAL OF BUILDINGS
 #15 82+50 Lr. Milk Ho.
 #16 83+10 Lr. Portion of Barn



VERMONT DEPARTMENT OF HIGHWAYS
 RIGHT-OF-WAY PLANS
 PROJECT ROYALTON-TUNBRIDGE
 NO 50169(1)
 SHEET 22 OF 35

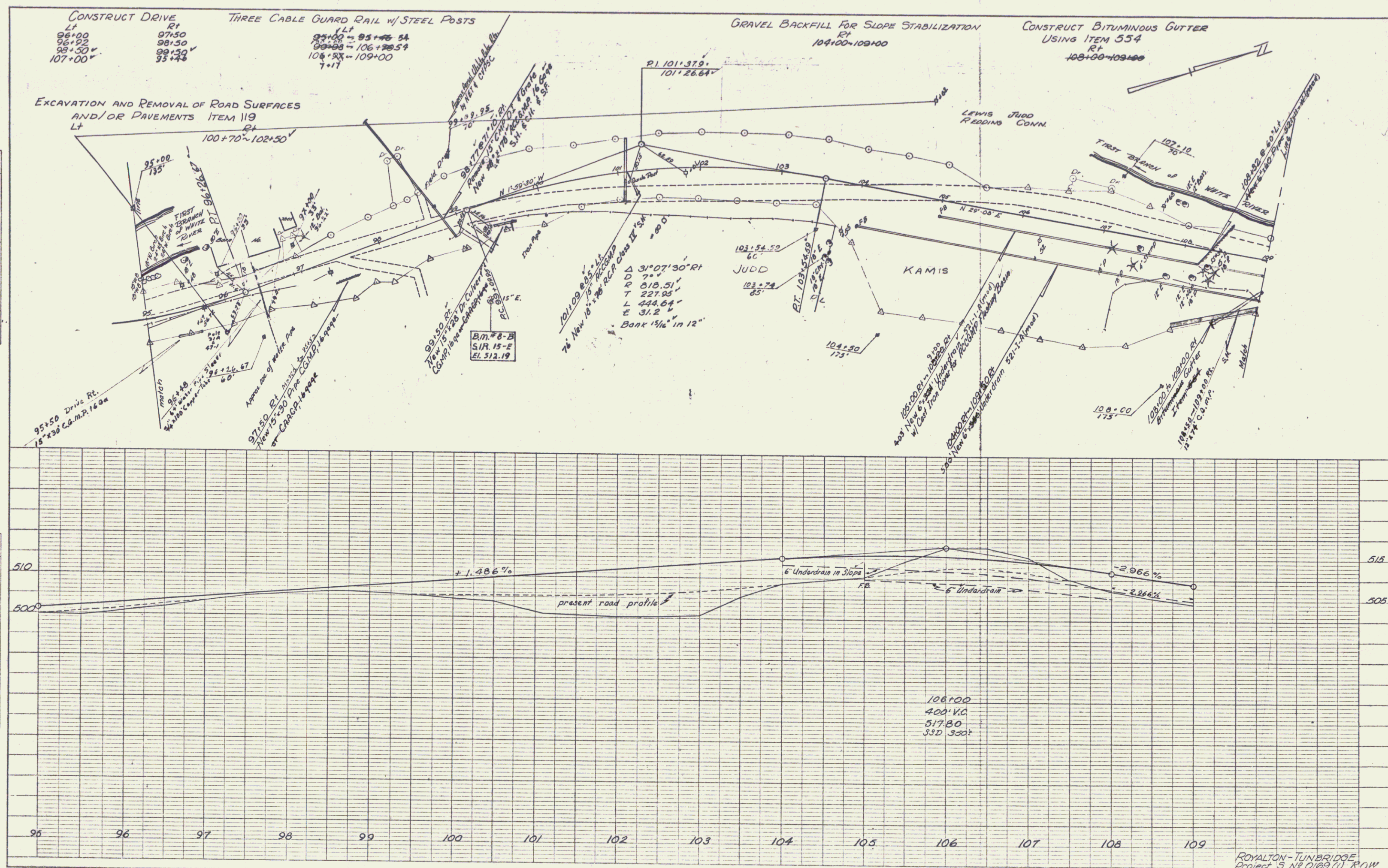




POOR ORIGINAL COPY

DATE	1/28
BY	James J. Mulla
PROJECT	ROYALTON-TUNBRIDGE
NO.	237

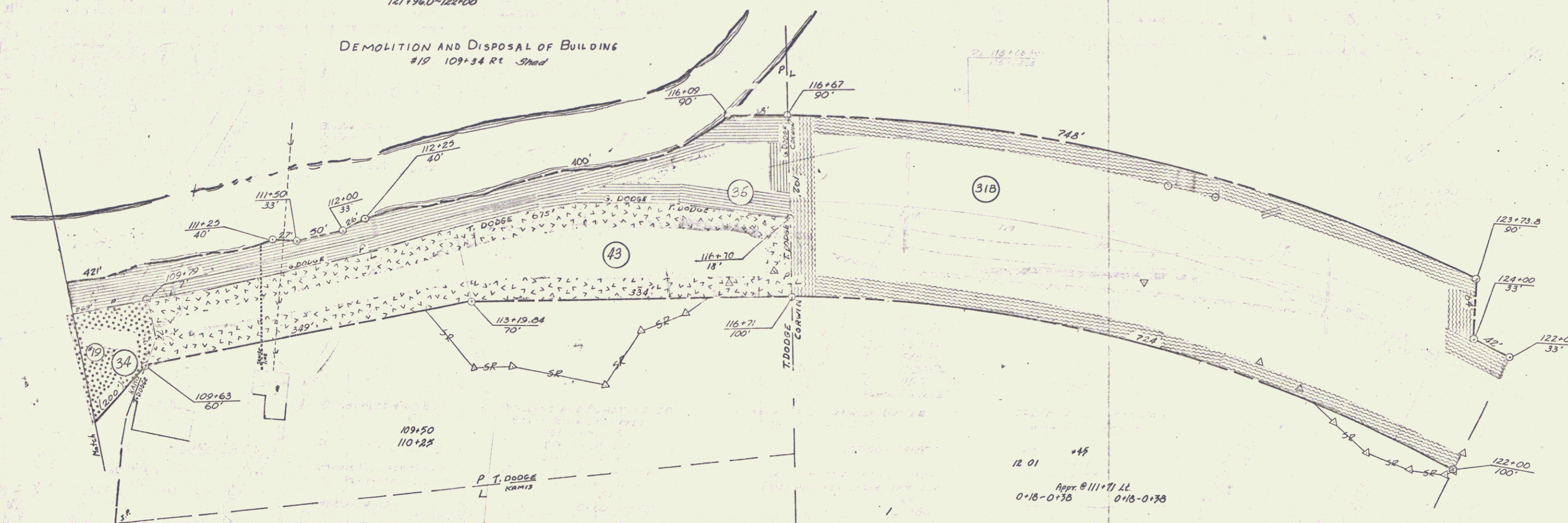
FILE	1/28
BY	James J. Mulla
PROJECT	ROYALTON-TUNBRIDGE
NO.	237



ROYALTON-TUNBRIDGE
 Project 5, No. 0169(1) ROW
 Sheet 20 of 164

$123+50 \sim 124+39.4$
 $121+96.0 \sim 122+00$

DEMOLITION AND DISPOSAL OF BUILDING
#19 109+34 Rt Shed

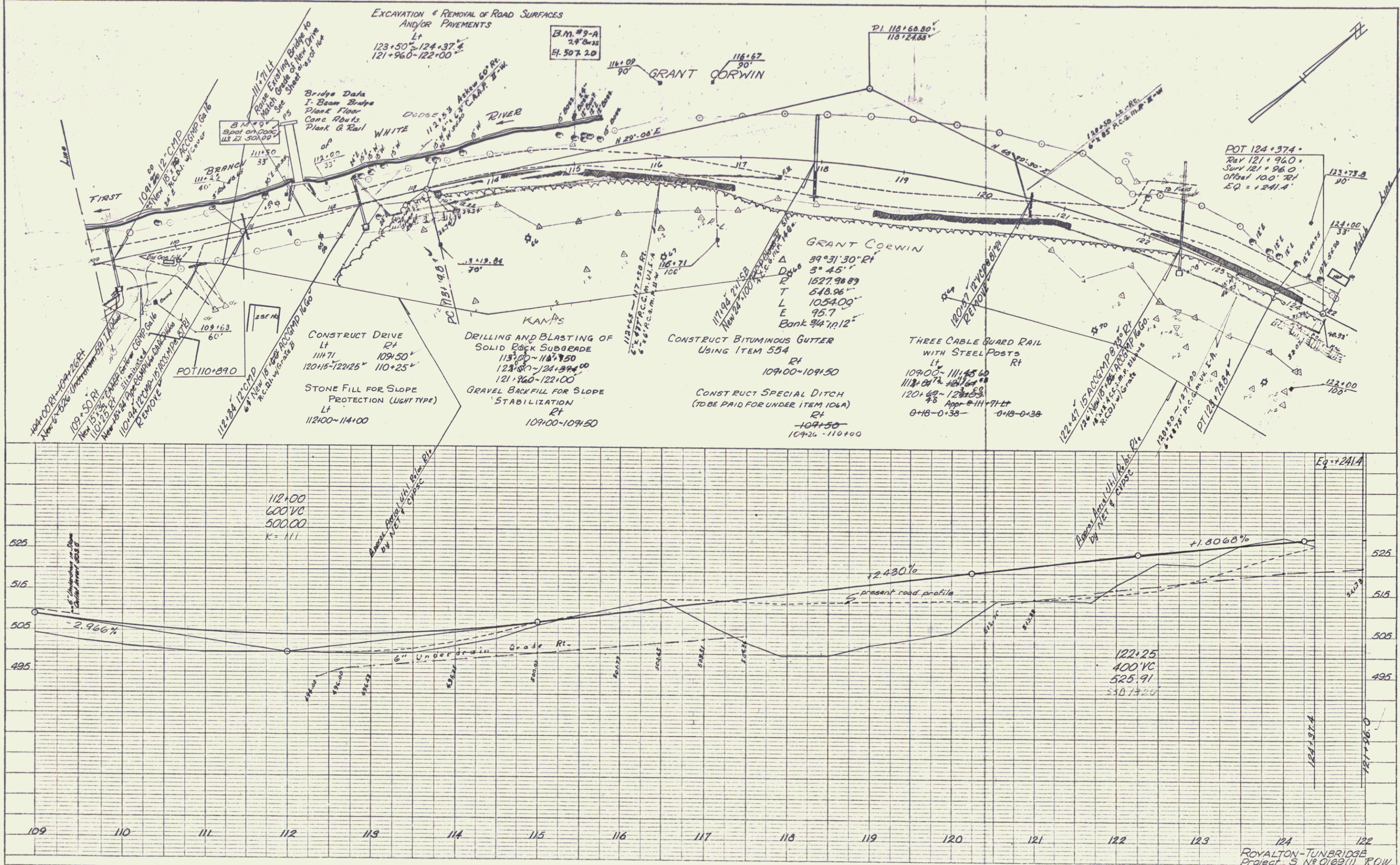


POOR ORIGINAL COPY

VERMONT DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS
PROJECT ROYALTON - TUNBRIDGE
NO 50169/11
SHEET (24) OF 35

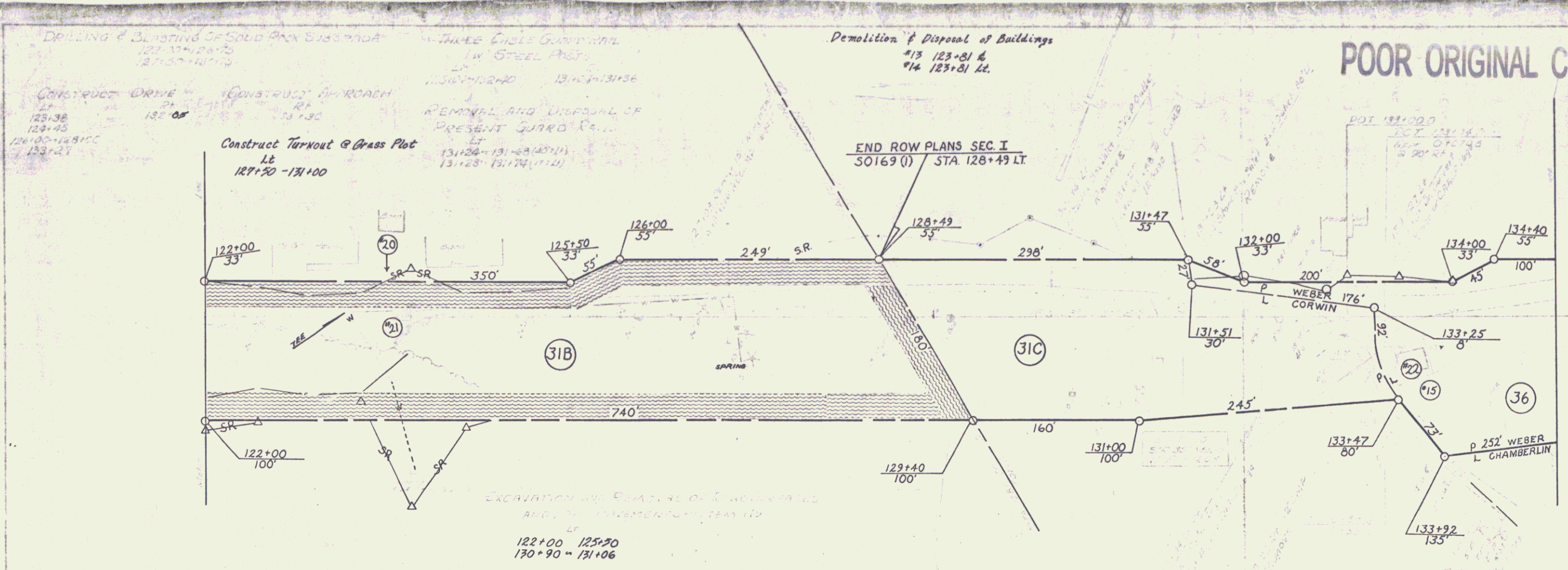
PLAN	DATE	BY
NOTES		
1. All work to be done in accordance with the plans and specifications.		
2. All work to be done in accordance with the plans and specifications.		
3. All work to be done in accordance with the plans and specifications.		

PROFILE	DATE	BY
NOTES		
1. All work to be done in accordance with the plans and specifications.		
2. All work to be done in accordance with the plans and specifications.		
3. All work to be done in accordance with the plans and specifications.		

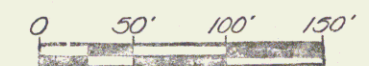
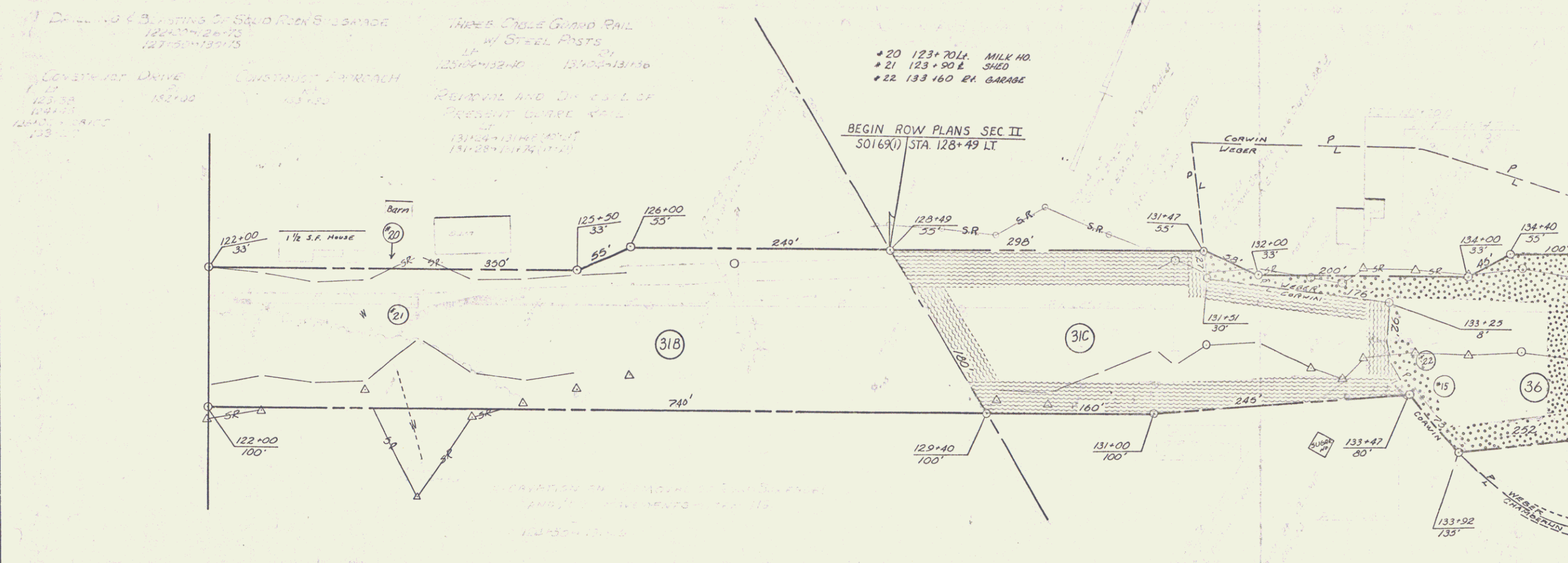


STATE 1-PLAN, PROFILE & P.A.E. STANDARD
 10/1/10 & 1/1/11
 10/1/10 & 1/1/11

ROYALTON-TUNBRIDGE
 Project 5 NE 012311 ROW
 Sheet 21 of 101



POOR ORIGINAL COPY



VERMONT DEPARTMENT OF HIGHWAYS

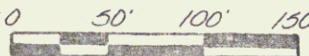
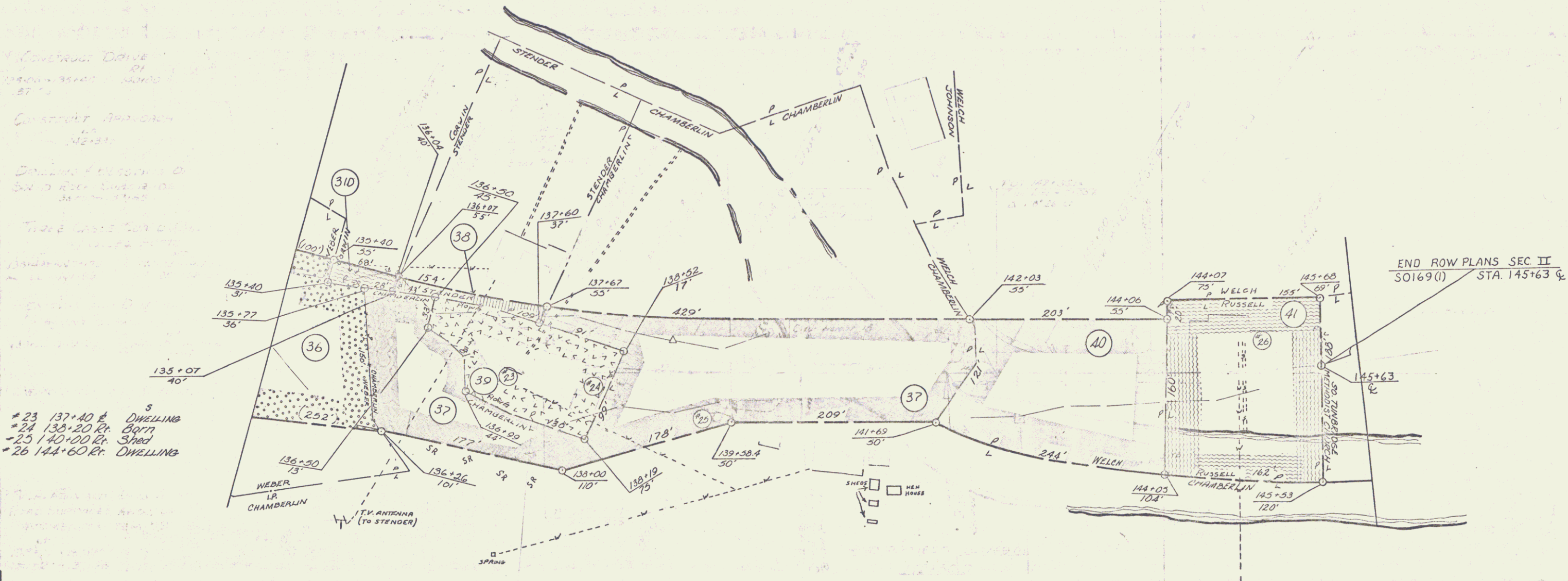
RIGHT - OF - WAY PLANS

PROJECT ROYALTON - TUNBRIDGE

No 50169(1)

SHEET 4 Of 8

POOR ORIGINAL COPY



VERMONT DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS
PROJECT ROYALTON - TUNBRIDGE
NO 50159(1)
SHEET 5 OF 8

CONSTRUCT DRIVE
Lt 135+06-135+40 Rt 140+00
137+50

UNCLASSIFIED CHANNEL EXCAVATION
Rt 142+15-142+90

CONSTRUCT APPROACH
Lt 142+33.1

DRILLING & BLASTING OF
SOLID ROCK SUBGRADE
136+50-138+65
8+00

THREE CABLE GUARD RAIL
w/ STEEL POSTS
Lt 142+00-144+50

REMOVAL AND DISPOSAL OF
PRESENT GUARD RAIL
Lt 139+72-140+22 Rt 140+30-140+42
141+87-143+31

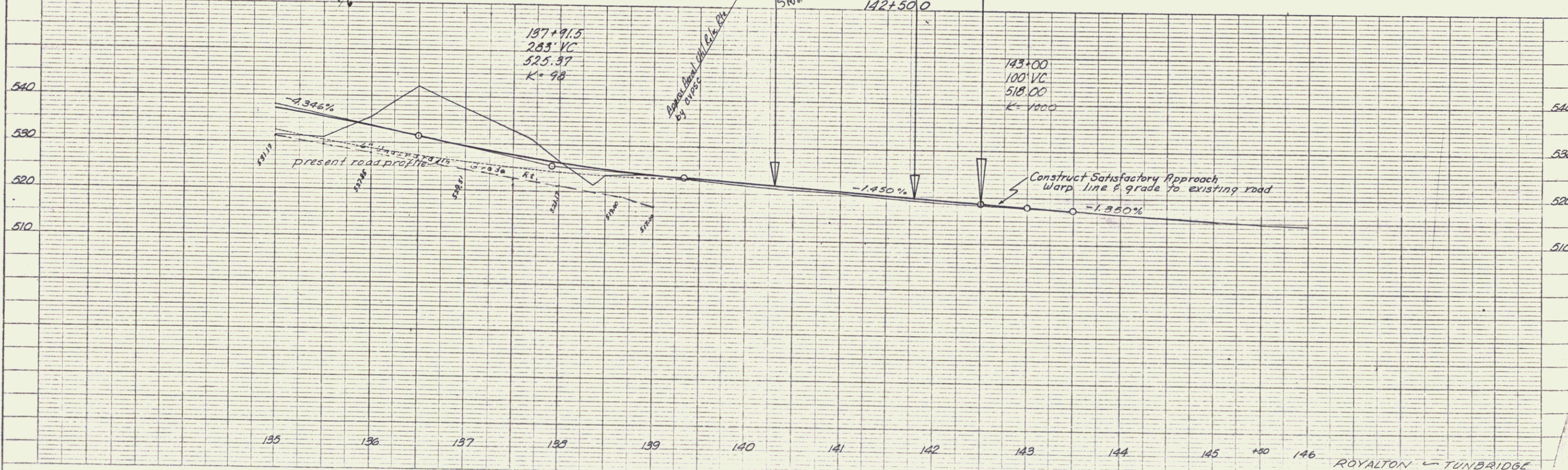
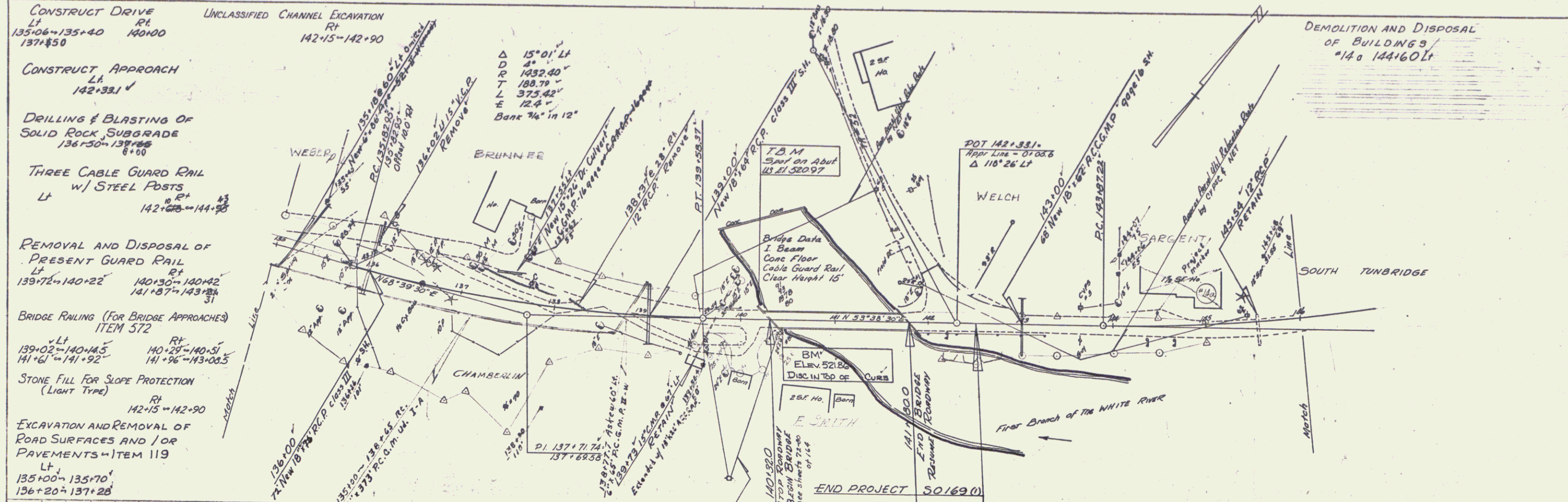
BRIDGE RAILING (FOR BRIDGE APPROACHES)
ITEM 572

STONE FILL FOR SLOPE PROTECTION
(LIGHT TYPE)
Rt 142+15-142+90

EXCAVATION AND REMOVAL OF
ROAD SURFACES AND / OR
PAVEMENTS - ITEM 119
Lt 135+00-135+70
136+20-137+28

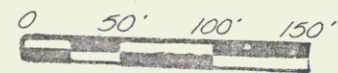
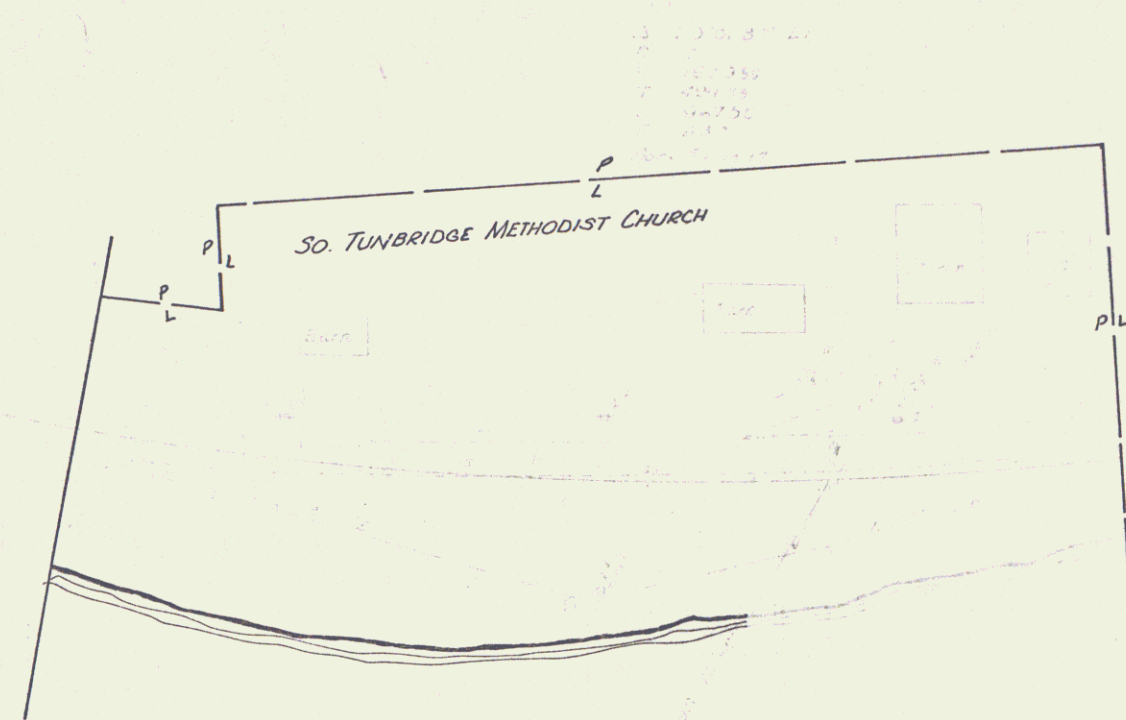
Δ 15° 01' Lt
D 4°
R 1432.40
T 188.79
L 375.42
E 12.4
Bank 1/4" in 12"

DEMOLITION AND DISPOSAL
OF BUILDINGS
140 144+60 Lt



ROYALTON - TUNBRIDGE
PROJECT 3 0189 (1) ROW
Sheet 43 of 164

POOR ORIGINAL COPY



VERMONT DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS
PROJECT ROYALTON-TUNBRIDGE
NO 50169(1)
SHEET 6 OF 8