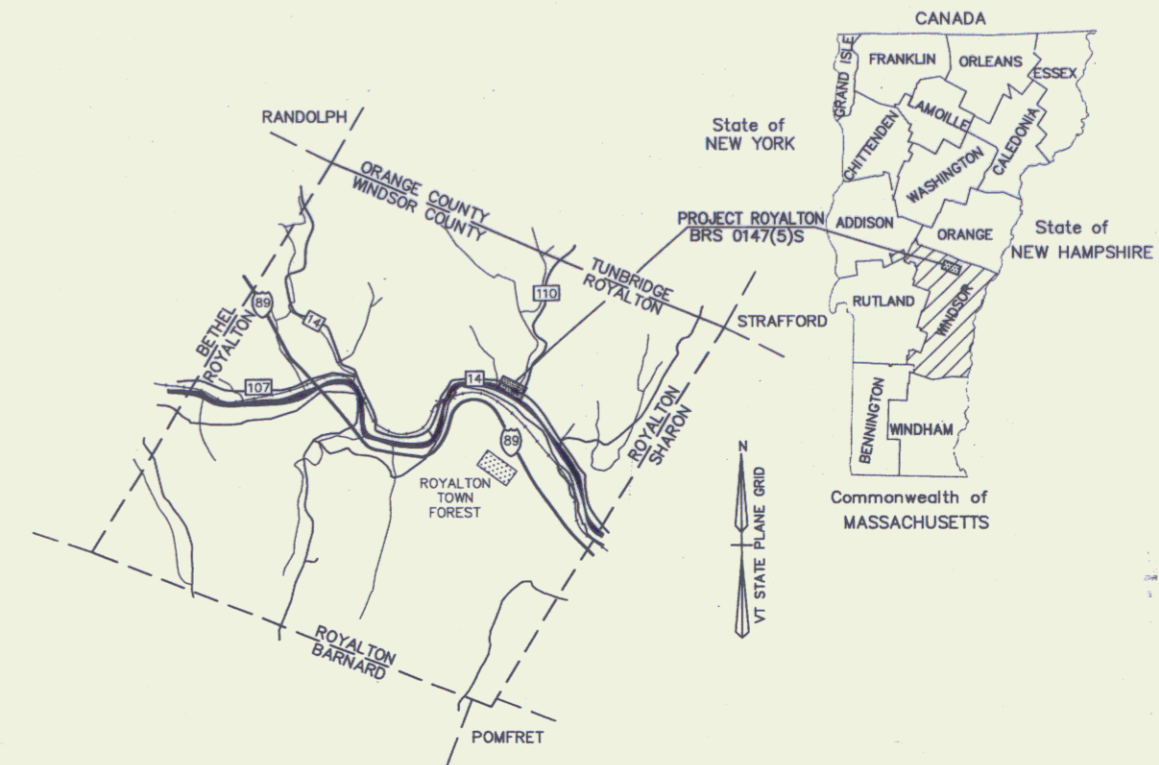


STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
TOWN OF ROYALTON
COUNTY OF WINDSOR
VT ROUTE 14

R.O.W. PLANS



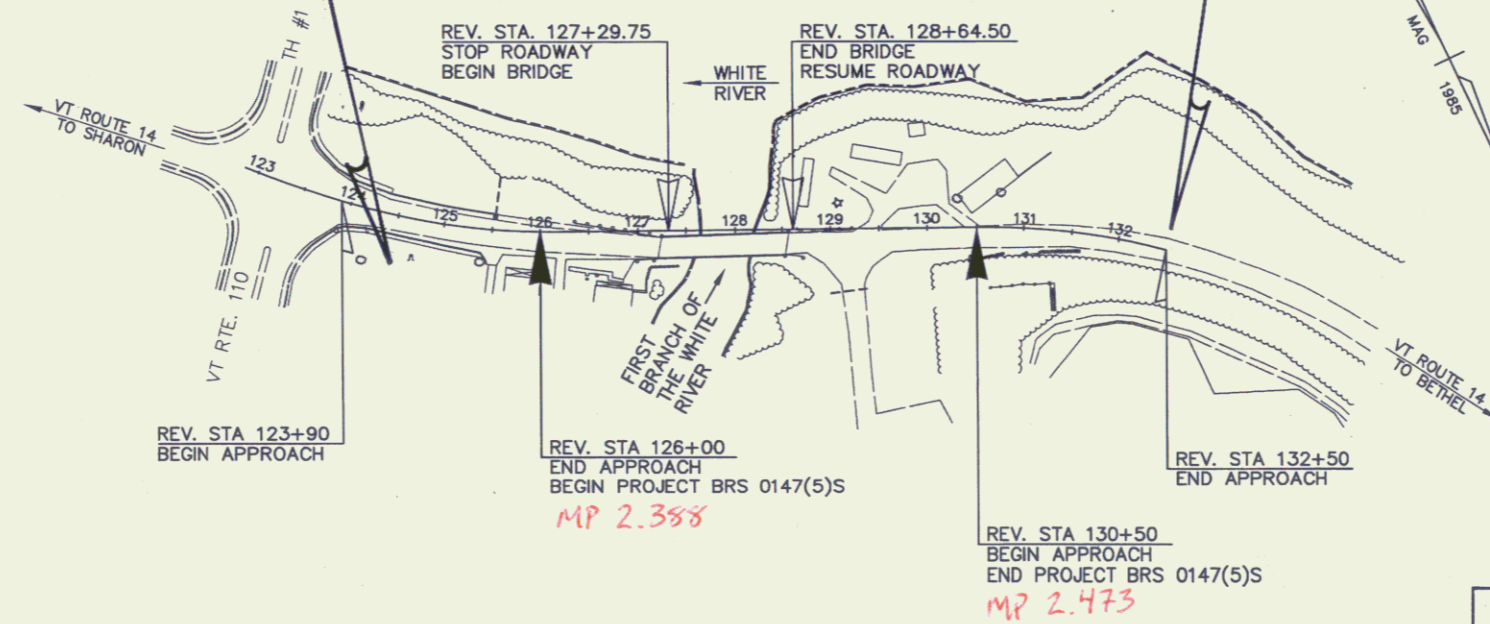
BEGIN R.O.W. PROJECT
BRS 0147(5)S REV. STA. 124+50 25' RT.

BEGINNING AT A POINT IN THE TOWN OF ROYALTON, ON VT ROUTE 14
APPROXIMATELY 200' NORTH OF THE INTERSECTION OF VT ROUTE 110, AND
EXTENDING NORTHWESTERLY ALONG VT ROUTE 14 FOR A DISTANCE OF 0.085 MILES.

LENGTH OF ROADWAY = 315.25 FEET = 0.060 MILES
LENGTH OF BRIDGE = 134.75 FEET = 0.026 MILES
LENGTH OF PROJECT = 450.00 FEET = 0.085 MILES
LENGTH OF R.O.W. PROJECT = 800.00 FEET = 0.151 MILES

WORK TO BE PERFORMED UNDER THIS PROJECT CONSISTS OF THE REPLACEMENT
OF EXISTING BRIDGE #21, ON VT ROUTE 14, INCLUDING ALL NECESSARY ROADWAY
APPROACH WORK.

END R.O.W. PROJECT
BRS 0147(5)S STA. REV. 132+50 25' LT.



THE FOLLOWING RIGHT OF WAY PLAN SHEETS PERTAIN
DIRECTLY TO THE ACQUISITION OF LAND AND RIGHTS
NECESSARY TO CONSTRUCT THIS TRANSPORTATION
PROJECT. SHEETS REGARDING SPECIFIC CONSTRUCTION
DETAILS ARE NOT INCLUDED IN THIS RECORDED SET.

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

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CONVENTIONAL SIGNS	
COUNTY LINE	---
TOWN LINE	- - - -
LIMITS OF ACCESS	○ ○ ○ ○
POINT OF ACCESS	X
FENCE LINE	x x x x
STONE WALL	=====
TRAVELED WAY	=====
GUARDRAIL	=====
RAILROAD	=====
SURVEY LINE	=====
CULVERT	=====
POWER POLE	○
TELEPHONE POLE	◇
TREES	● *
CONTROL OF ACCESS	///
PROPERTY LINE	=====
R.O.W. TAKING LINE	=====
SLOPE RIGHTS	SR
TOP OF CUT	△
TOE OF SLOPE	○

DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A



ALL DRIVES AS INDICATED ON PLANS
ARE SUBJECT TO PERMITS PURSUANT
TO TITLE 19 SECTION IIII, V.S.A.

Pin # 78F232

APPROVED *[Signature]* DATE 6/5/98
Director of Project Development

APPROVED *[Signature]* DATE
Chief, Right of Way

ROYALTON
BRS 0147(5)S
R.O.W. SHEET 1 OF 14 SHEETS

TYPICAL SECTIONS

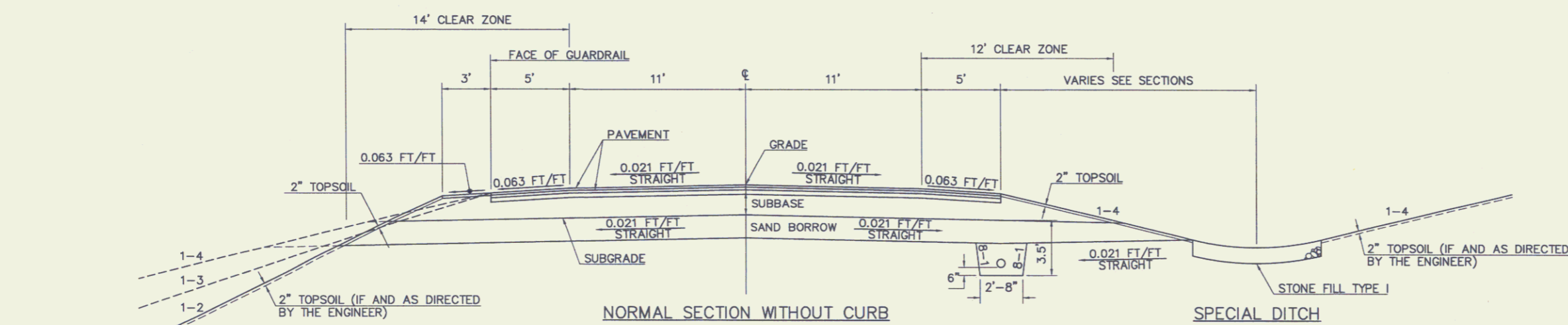
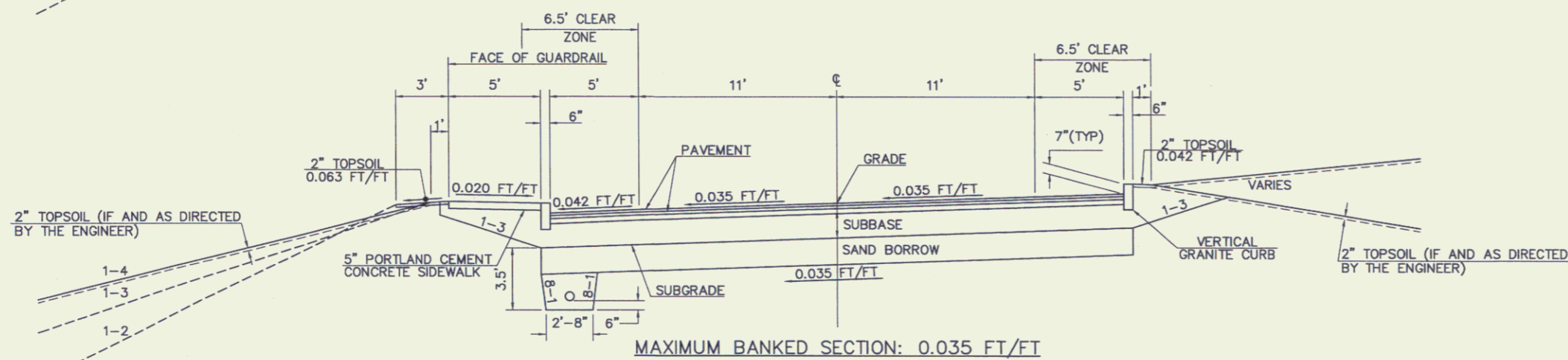
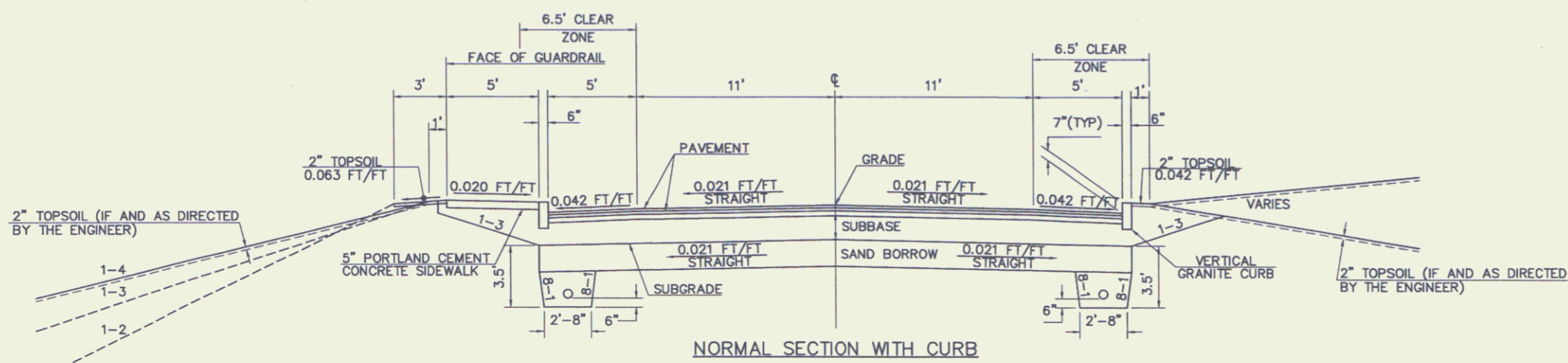
MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH)	±1/4"
SUBBASE	±1/2"
SAND BORROW	±1"

1-1/4" BITUMINOUS CONCRETE PAVEMENT (TYPE III)
 1-3/4" BITUMINOUS CONCRETE PAVEMENT (TYPE II) } PG 58-34
 2-1/2" BITUMINOUS CONCRETE PAVEMENT (TYPE I)
 18" SUBBASE OF CRUSHED GRAVEL (COARSE GRADED)(MODIFIED)
 18" SAND BORROW

SEEDING FORMULA URBAN AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
42.5	34.0	CREeping RED FESCUE	98	85
10.0	8.0	PERENNIAL RYE GRASS	95	90
42.5	34.0	KENTUCKY BLUE GRASS	85	85
5.0	4.0	ANNUAL RYE GRASS	95	85

100.00 80.0
 SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS WEED SEED.
 SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.
 FERTILIZER: FORMULA 10-20-10 TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).
 AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER.
 HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER.
 TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
 MARKER POSTS: TO BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER.
 SLOPE ROUNDING: ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5.
 PAY LIMITS OF SAND BORROW: WHEN USED IN CONJUNCTION WITH UNDERDRAIN - SEE STANDARD SHEET D-2.
 TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED ON ALL EXISTING PAVEMENT SURFACES, ON COLD PLANED SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT THE RATE OF 0.015 GAL/SY OR AS DIRECTED BY THE ENGINEER.
 FOR SLOPES IN SOLID ROCK EXCAVATION AND DRILLING AND BLASTING OF SOLID ROCK SUBGRADE, SEE STANDARD SHEET A-62.

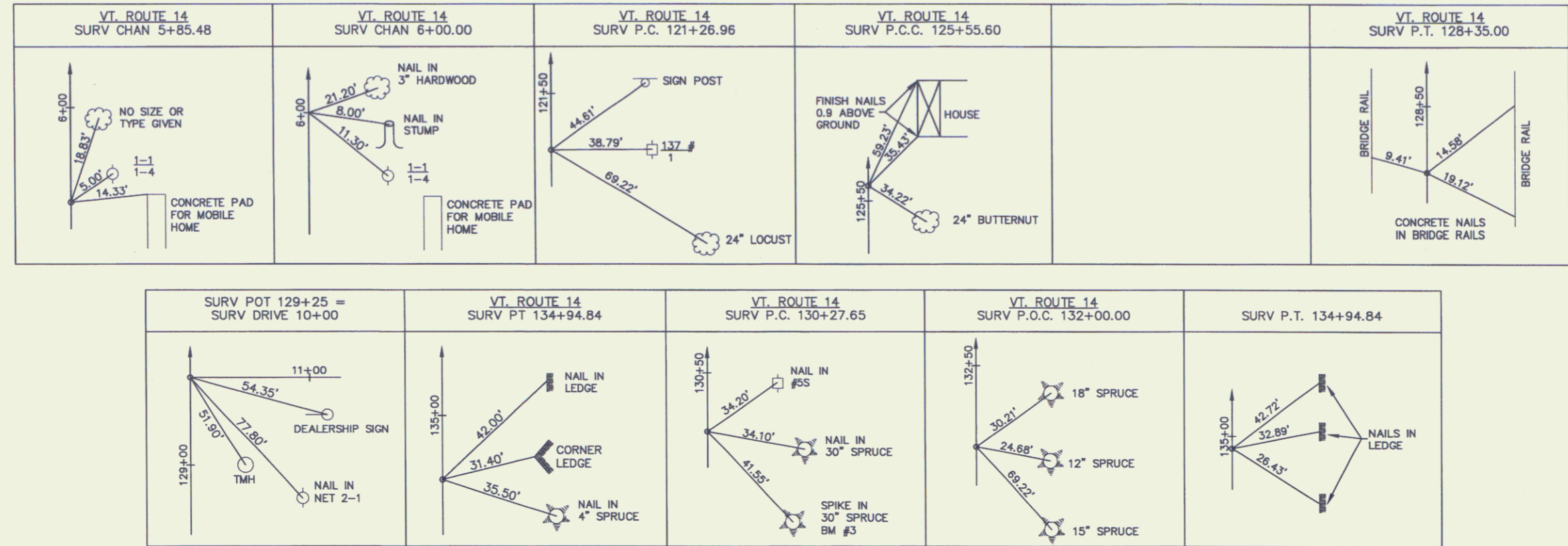


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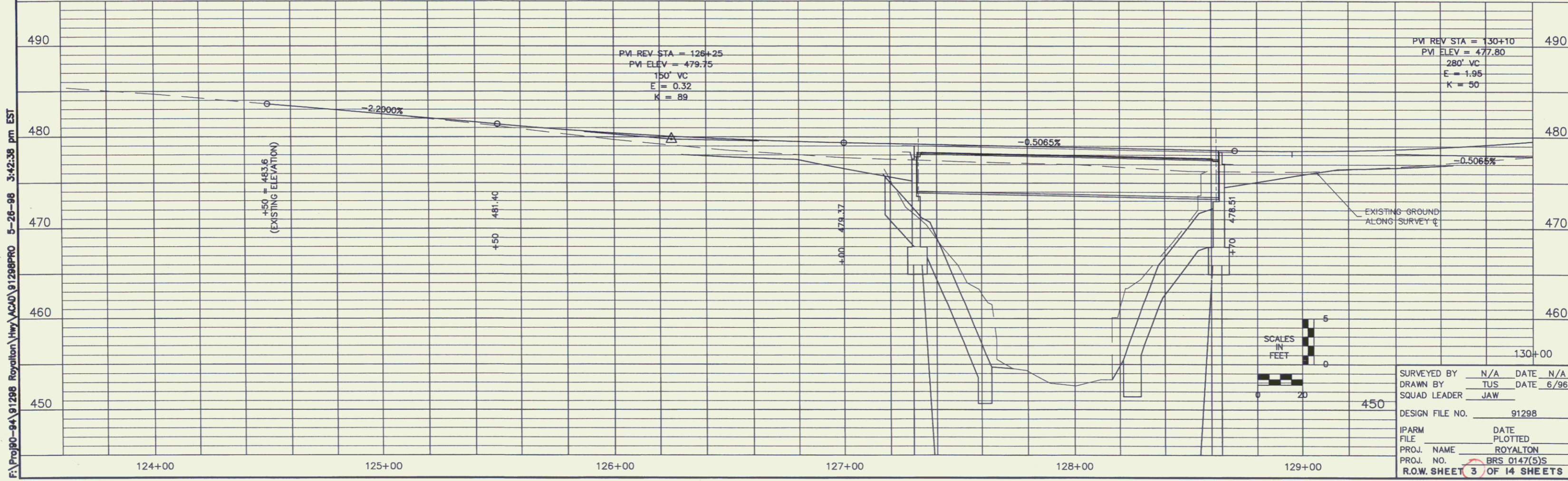
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DRAWN BY	TUS	DATE	12/96
SQUAD LEADER	JAW		
DESIGN FILE NO.	91298		
IPARM	DATE		
FILE	PLOTTED		
PROJ. NAME	ROYALTON		
PROJ. NO.	BRS 0147(S)S		
R.O.W. SHEET 2 OF 14 SHEETS			

PLAN
 SURVEYED
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 NOTE BOOK
 NO. OF MAY CHECKED
 NO.

SURVEY LINE TIES



NOT TO SCALE



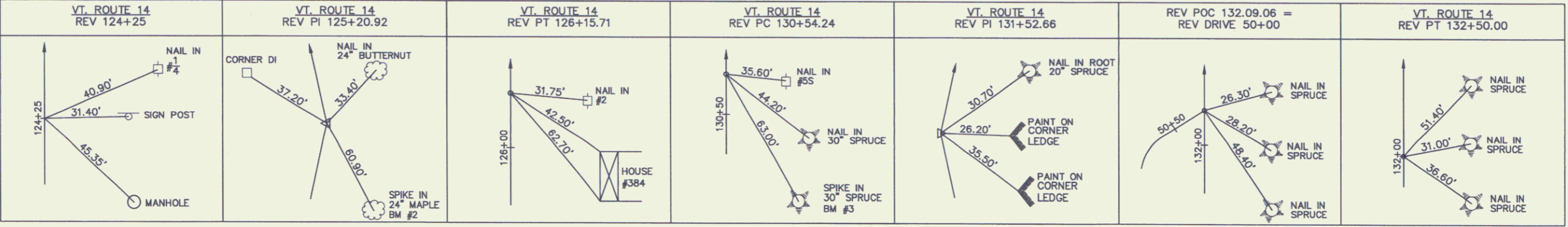
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 PROJ. NO. BRS 0147(5)S
 R.O.W. SHEET 3 OF 14 SHEETS

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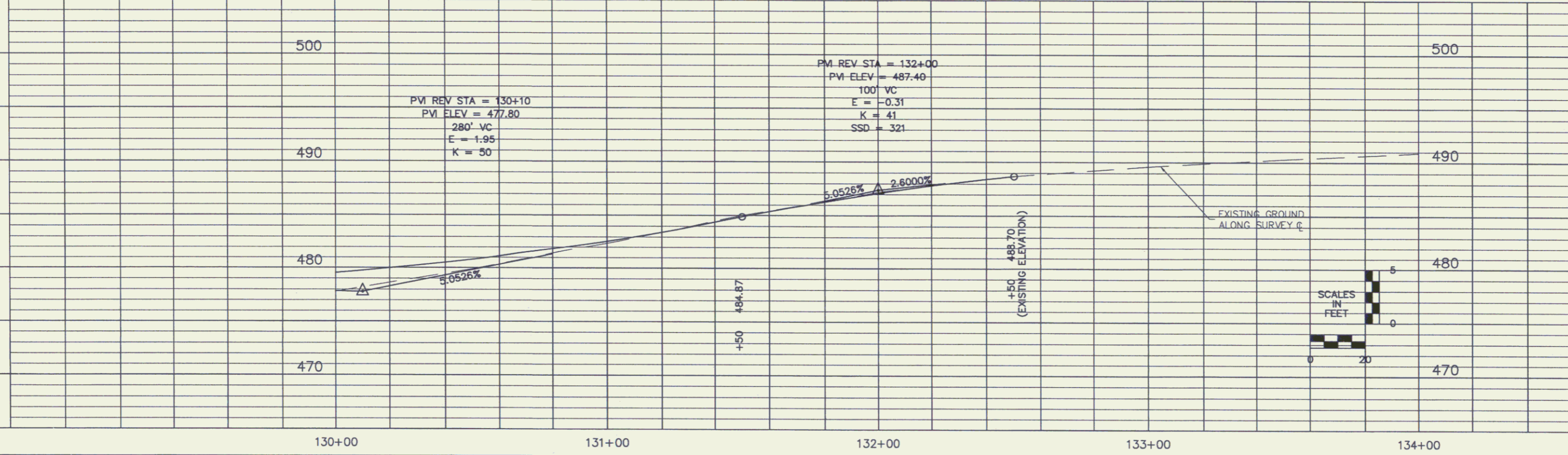
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NOTE BOOK	REVISED	DATE
NO.	ALIGNMENT CHECKED	DATE
	BY (NAME)	DATE
	BY (NAME)	DATE

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CONSTRUCTION LINE TIES



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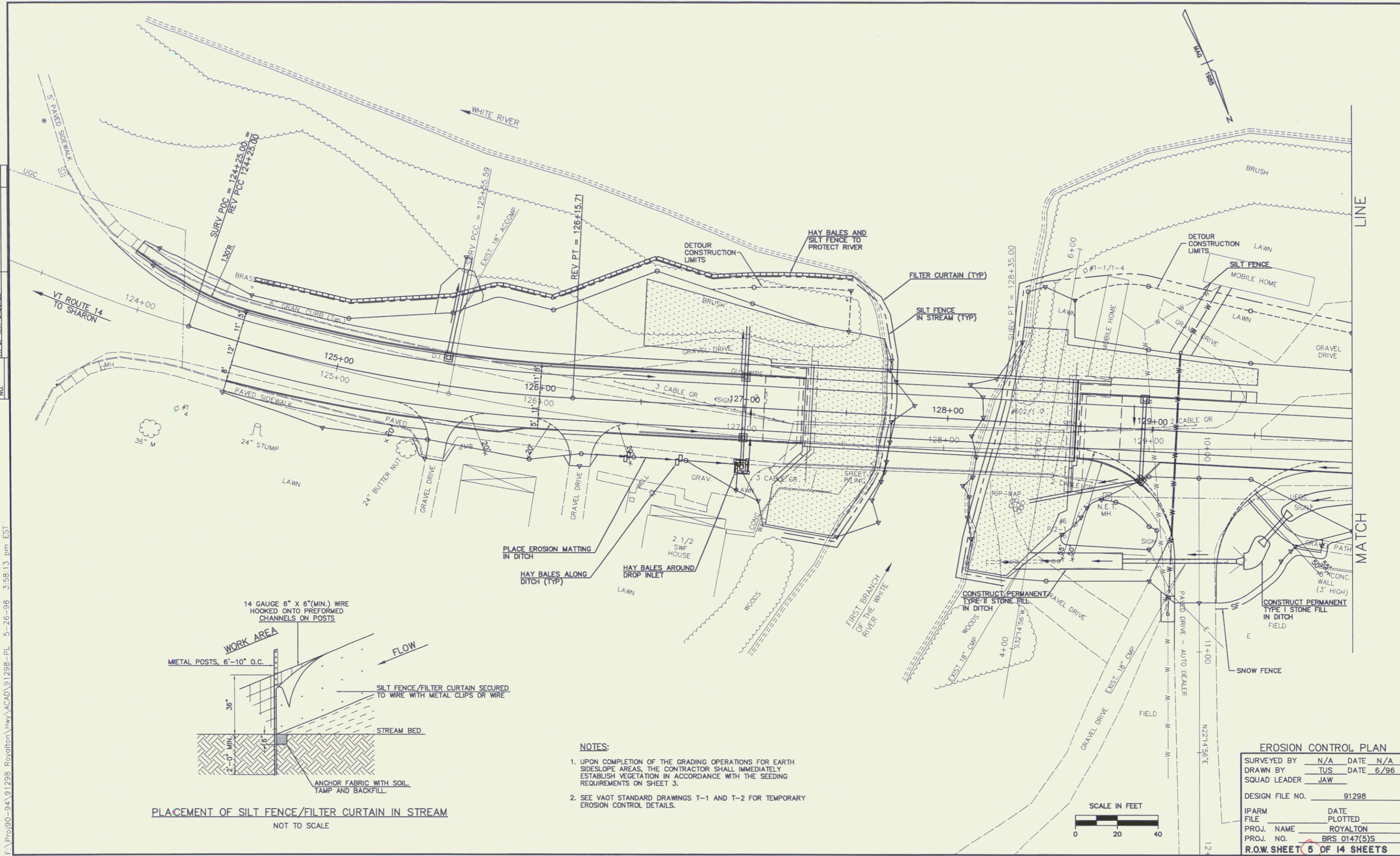


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DRAWN BY	TUS	DATE	6/96
SQUAD LEADER	JAW		
DESIGN FILE NO.	91298		
IPARM	DATE	PLOTTED	
FILE	ROYALTON		
PROJ. NAME	ROYALTON		
PROJ. NO.	BRS 0147(5)S		
R.O.W. SHEET	4	OF 14 SHEETS	

4

DATE	BT
PLAN	REVISED
NO.	NO.
	NOTE BOOK
	FLIGHT CHECKED
	BY
	DATE

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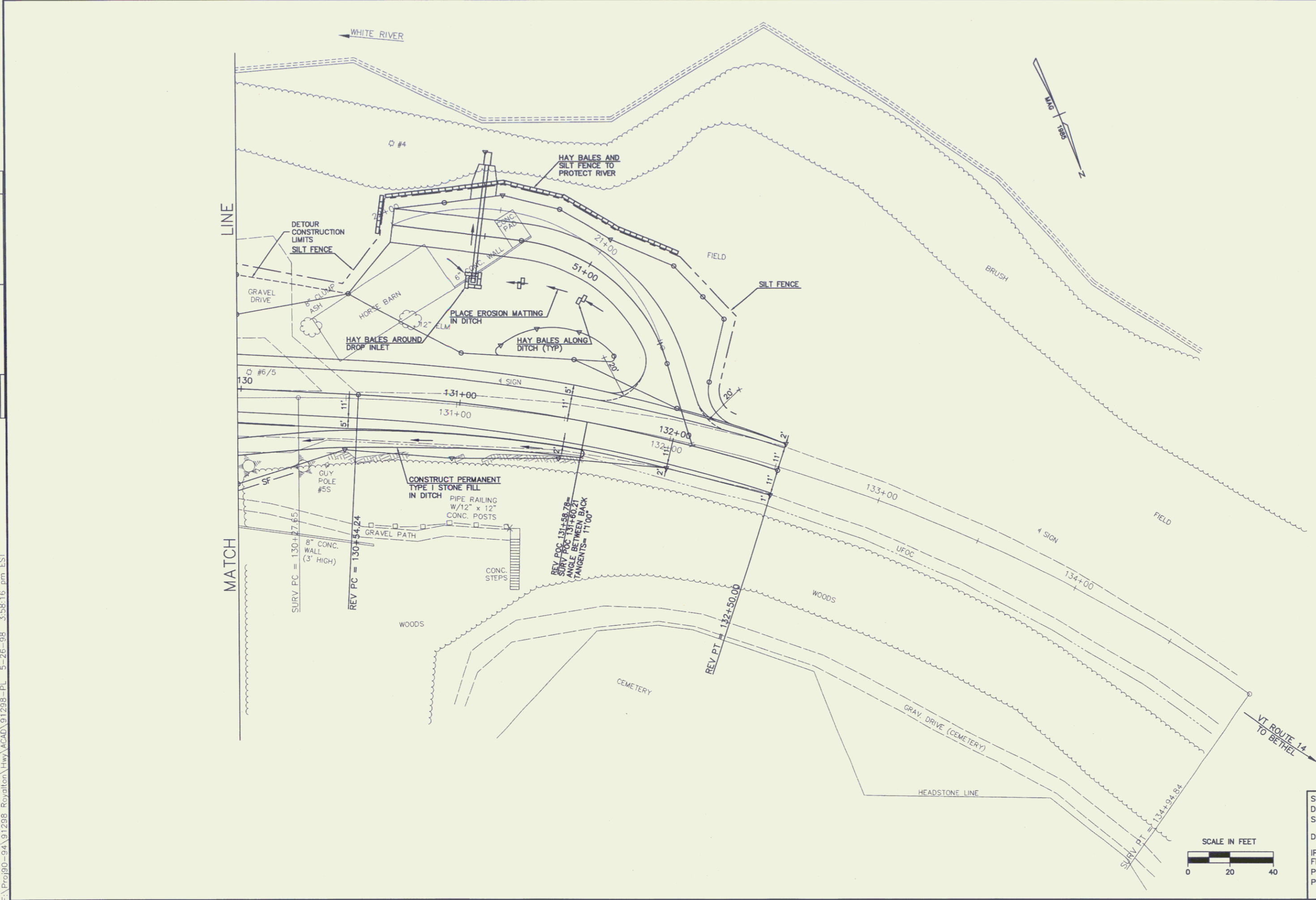


- NOTES:**
- UPON COMPLETION OF THE GRADING OPERATIONS FOR EARTH SIDESLOPE AREAS, THE CONTRACTOR SHALL IMMEDIATELY ESTABLISH VEGETATION IN ACCORDANCE WITH THE SEEDING REQUIREMENTS ON SHEET 3.
 - SEE VAOT STANDARD DRAWINGS T-1 AND T-2 FOR TEMPORARY EROSION CONTROL DETAILS.

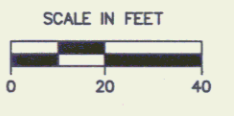
EROSION CONTROL PLAN	
SURVEYED BY	N/A DATE N/A
DRAWN BY	TUS DATE 6/96
SQUAD LEADER	JAW
DESIGN FILE NO.	91298
IPARM	DATE
FILE	PLOTTED
PROJ. NAME	ROYALTON
PROJ. NO.	BRS 0147(5)S
R.O.W. SHEET	5 OF 14 SHEETS

PLAN	SURVEYED	DATE	BY
	NOTED		
	DESIGNED		
	CHECKED		
	PLANNED		
	CONSTRUCTION		
	COMPLETED		
	AS-BUILT		

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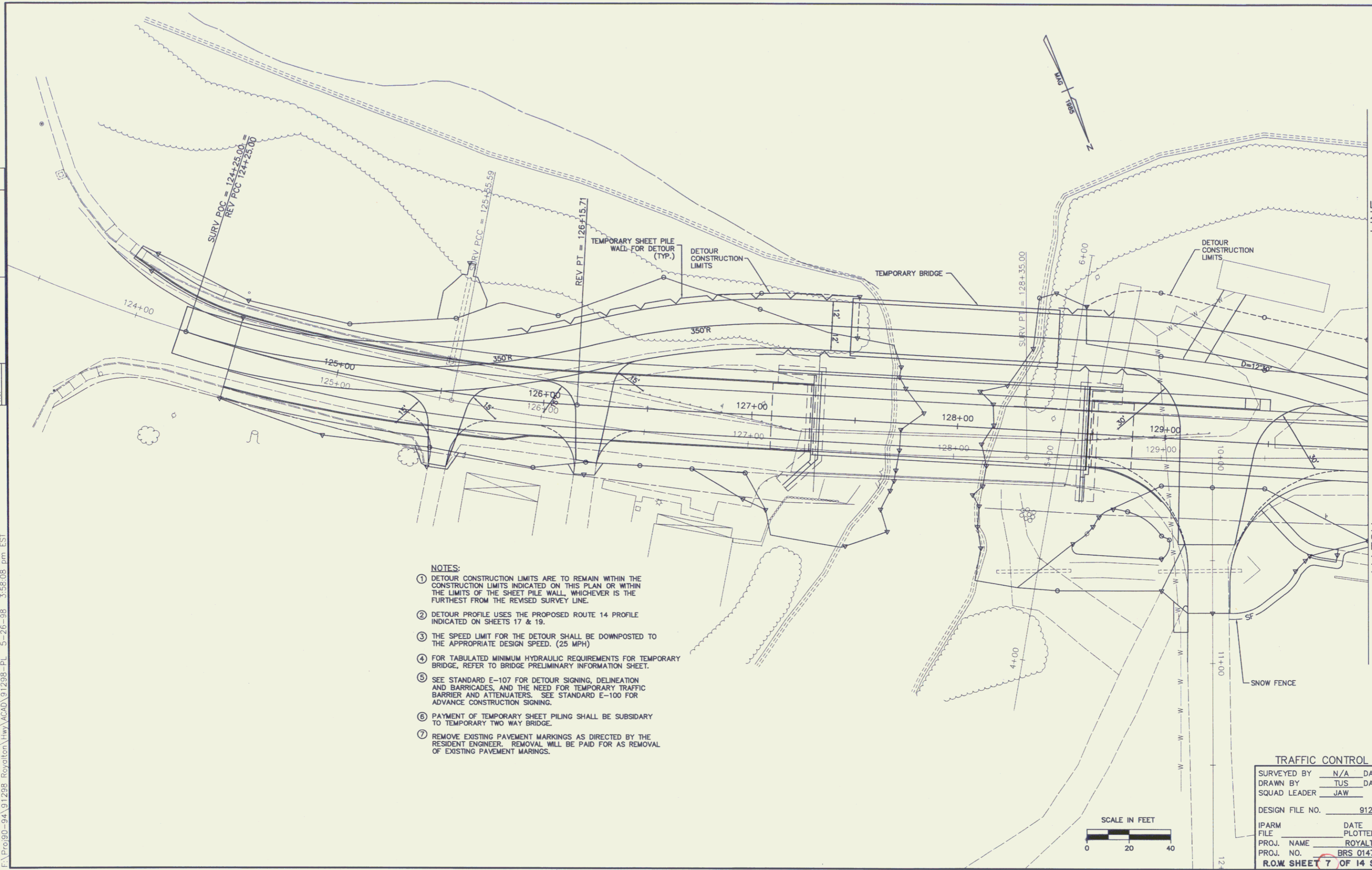
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SURVEYED BY	N/A DATE N/A
DRAWN BY	TUS DATE 6/96
SQUAD LEADER	JAW
DESIGN FILE NO.	91298
IPARM	DATE
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PROJ. NAME	ROYLTON
PROJ. NO.	BRS 0147(5)S
R.O.W. SHEET 6 OF 14 SHEETS	



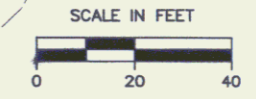
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PLAN	DATE
SUBMITTED	BT
REVISIONS	
NO.	
NOTE BOOK	
PLANNING	
DESIGN	
CONSTRUCTION	
OPERATION	
MAINTENANCE	

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- NOTES:**
- ① DETOUR CONSTRUCTION LIMITS ARE TO REMAIN WITHIN THE CONSTRUCTION LIMITS INDICATED ON THIS PLAN OR WITHIN THE LIMITS OF THE SHEET PILE WALL, WHICHEVER IS THE FURTHEST FROM THE REVISED SURVEY LINE.
 - ② DETOUR PROFILE USES THE PROPOSED ROUTE 14 PROFILE INDICATED ON SHEETS 17 & 19.
 - ③ THE SPEED LIMIT FOR THE DETOUR SHALL BE DOWNPOSTED TO THE APPROPRIATE DESIGN SPEED. (25 MPH)
 - ④ FOR TABULATED MINIMUM HYDRAULIC REQUIREMENTS FOR TEMPORARY BRIDGE, REFER TO BRIDGE PRELIMINARY INFORMATION SHEET.
 - ⑤ SEE STANDARD E-107 FOR DETOUR SIGNING, DELINEATION AND BARRICADES, AND THE NEED FOR TEMPORARY TRAFFIC BARRIER AND ATTENUATORS. SEE STANDARD E-100 FOR ADVANCE CONSTRUCTION SIGNING.
 - ⑥ PAYMENT OF TEMPORARY SHEET PILING SHALL BE SUBSIDIARY TO TEMPORARY TWO WAY BRIDGE.
 - ⑦ REMOVE EXISTING PAVEMENT MARKINGS AS DIRECTED BY THE RESIDENT ENGINEER. REMOVAL WILL BE PAID FOR AS REMOVAL OF EXISTING PAVEMENT MARKINGS.



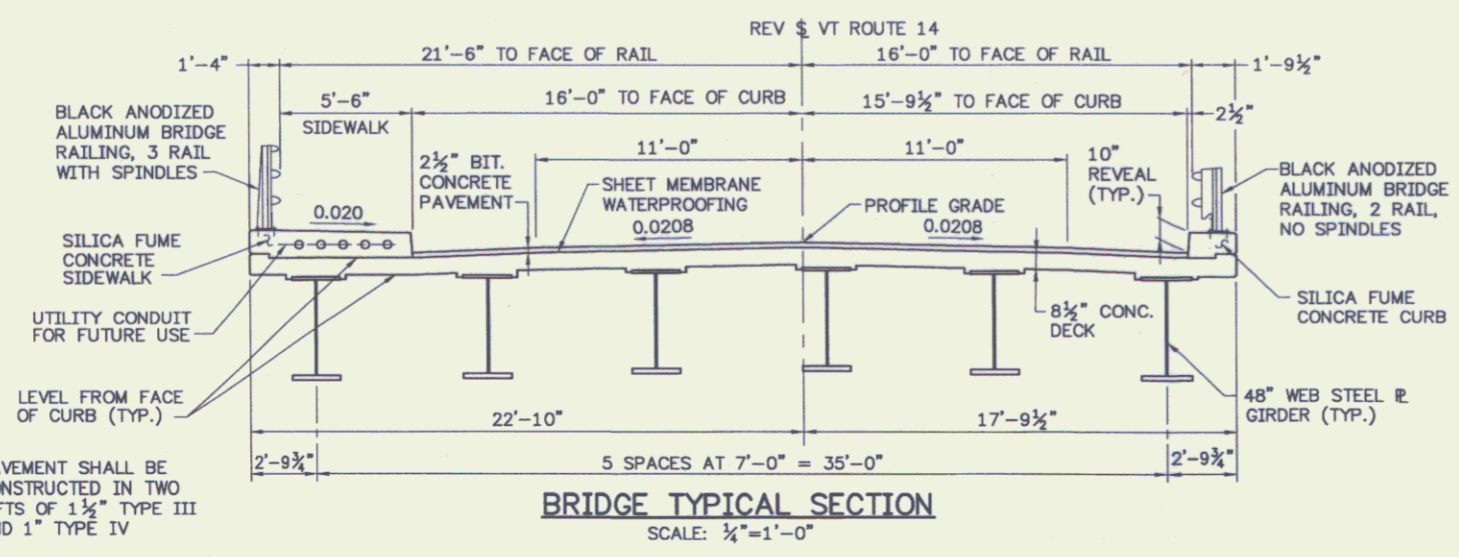
TRAFFIC CONTROL PLAN	
SURVEYED BY	N/A DATE N/A
DRAWN BY	IUS DATE 6/96
SQUAD LEADER	JAW
DESIGN FILE NO.	91298
IPARM	DATE
FILE	PLOTTED
PROJ. NAME	ROYALTON
PROJ. NO.	BRS 0147(5)S
R.O.W SHEET 7 OF 14 SHEETS	

PLAN	SURVEYED	DATE	BY
NOTE BOOK	PLOTTED	DATE	BY
NO.	BY	DATE	BY

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TRAFFIC CONTROL PLAN			
SURVEYED BY	N/A	DATE	N/A
DRAWN BY	TUS	DATE	6/96
SQUAD LEADER	JAW		
DESIGN FILE NO.	91298		
IPARM	DATE		
FILE	PLOTTED		
PROJ. NAME	ROYALTON		
PROJ. NO.	BRS 0147(5)S		
R.O.W. SHEET 8 OF 14 SHEETS			



NOTE: PAVEMENT SHALL BE CONSTRUCTED IN TWO LIFTS OF 1 1/2\"/>

BRIDGE TYPICAL SECTION
SCALE: 1/4\"/>

GENERAL NOTES

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION, 1990 STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, AND ITS LATEST REVISIONS, AND THE 1996 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, AND ITS LATEST REVISIONS.
- DESIGN IS FOR HS25-44 LOADING WITH ALLOWANCE FOR FUTURE PAVING UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
- WHEN NOT DETAILED ON THE PLANS, BEAMS SHALL BE CAMBERED FOR THE DEAD LOAD DEFLECTION PLUS ONE EIGHTH (1/8) INCH FOR EACH TEN FEET OF SPAN, OR FRACTION THEREOF. THE CAMBER SHALL APPROXIMATE A SIMPLE CIRCULAR CURVE FROM SUPPORT TO SUPPORT.
- ALL FIELD CONNECTIONS SHALL BE MADE WITH 7/8\"/>

CONCRETE:		f _c	= 3500 PSI
		f _c	= 1400 PSI
STRUCTURAL STEEL:		M270 - Grade 50	F _a =F _b = 27,000 PSI
			F _v = 17,000 PSI
		M270 - Grade 36	F _a =F _b = 20,000 PSI
			F _v = 12,000 PSI
REINFORCING STEEL:		Grade 60	f _s = 24,000 PSI
			f _s = 20,000 PSI
SOIL: UNIT WEIGHT		= 140 PCF	

- TEN CUBIC YARDS OF STONE FILL TYPE IV HAS BEEN INCLUDED IN THE PROJECT FOR CONSTRUCTION OF A FISH HABITAT BOULDER CLUSTER. THIS CLUSTER SHALL BE LOCATED IN A HIGH VELOCITY PORTION OF THE STREAM A MINIMUM OF 30 FEET DOWNSTREAM OF THE NEW BRIDGE. FINAL LOCATION OF BOULDERS TO BE AS DIRECTED BY THE ENGINEER, BASED ON THE RECOMMENDATIONS OF THE DISTRICT FISHERIES BIOLOGIST AND/OR THE AGENCY OF NATURAL RESOURCES STREAM ALTERATION ENGINEER. CLUSTER SHALL CONSIST OF THREE BOULDERS, EACH 5 FOOT TO 6 FOOT IN DIAMETER, SPACED AT 10 FEET TO 15 FEET AND BURIED 1/3 DIAMETER BELOW STREAMBED.
- ALL NEW PERMANENT FILL SLOPES WITHIN 50 FT OF THE TOP OF BANK OF THE WHITE RIVER SHALL BE REVEGETATED WITH BOTH GRUBBING MATERIAL AND PLANTING OF NATIVE RIPARIAN TREE AND BRUSH SPECIES. A COMPLETE REVEGETATION PLAN AND SCHEDULE SHALL BE DEVELOPED FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

HYDRAULIC DATA

DRAINAGE AREA 103.50 MI.
CHARACTER OF TERRAIN MOUNTAINOUS, MODERATE RELIEF
CHARACTER AND TYPE OF STREAM SMALL PERENNIAL BUT FLASHY
NATURE OF STREAMBED SHALLOW SANDS AND SILTS AND SOME GRAVEL OVER BEDROCK

Q 2.33	3200 CFS	Q 50	11000 CFS
Q 10	6800 CFS	Q 100	15000 CFS
Q 25	8100 CFS	Q 500	14200 CFS

DATE OF FLOOD OF RECORD 1927 WATER SURFACE ELEVATION ESTIMATED DISCHARGE
NATURAL STREAM VELOCITY @ Q 10 = 6.9 fps (approach section) ICE CONDITIONS MODERATE DEBRIS MODERATE
DOES THE STREAM REACH MAX. HIGHWATER ELEVATION RAPIDLY? YES IS ORDINARY RISE RAPID? YES
IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? YES
IF YES, DESCRIBE: CONFLUENCE WITH THE WHITE RIVER APPROXIMATELY 50 FT FROM DOWNSTREAM FACE OF PROPOSED STRUCTURE
WATERSHED STORAGE 28 HEADWATERS X UNIFORM THROUGHOUT WATERSHED IMMEDIATELY ABOVE SITE

EXISTING STRUCTURE

- STRUCTURE TYPE: 3-SPAN REINFORCED CONCRETE T-BEAM YEAR BUILT: 1928
- SPAN NORMAL TO STREAM: 32'-56\"/>

PROPOSED STRUCTURE

STRUCTURE GEOMETRY:

- STRUCTURE TYPE: REINFORCED CONCRETE SLAB OVER STEEL PLATE GIRDER
- CLEAR SPAN LENGTH(S) NORMAL TO STREAM: 128'
- VERTICAL CLEARANCE ABOVE STREAMBED: 18.8'
- ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES? YES, CONDUIT IN SIDEWALK FOR FUTURE USE

HYDRAULIC DATA:

- WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM): 1700 SF
- WATER SURFACE ELEVATION @ Q 2.33 462.5 @APPROACH AREA VELOCITY= 5.6 fps
| Q 10 | 466.5 (466.8) | = 7.8 fps (7.3 fps) |
| Q 25 | 468.4 | = 8.7 fps |
| Q 50 | 469.6 (472.0) | = 9.6 fps (9.3 fps) |
| Q 100 | 470.8 (474.0) | = 10.6 fps (8.9 fps) |

ALLOWABLE STRESSES:

- DESIGN LIVE LOAD AASHTO HS25
- ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL ON LEDGE
- ALLOWABLE LOAD FOR PILING 8000 PSI TYPE HP ESTIMATED LENGTH 21 1/2
- ALLOWABLE STRESS FOR STRUCTURAL STEEL AASHTO M 270 GR50 PAINTED TENSION 27 KSI
- ALLOWABLE STRESS FOR REINFORCING STEEL GRADE 60 TENSION 24000 PSI COMPRESSION 20000 PSI
- ALLOWABLE STRESS FOR CONCRETE CLASS A f_c 4000 PSI f_c 1400 PSI CLASS B f_c 3500 PSI f_c 1400 PSI SILICA FUME f_c 5000 PSI f_c 2000 PSI

TRAFFIC MAINTENANCE:

- IS TRAFFIC TO BE MAINTAINED? YES IF YES, ON EXISTING STRUCTURE OR ON TEMPORARY BRIDGE X
- TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY TWO WAY TRAFFIC CONTROL SIGNALS REQUIRED NO MINIMUM CLEAR SPAN 85' MINIMUM CLEAR HEIGHT 14.000' MINIMUM WATERWAY AREA 1000 SF ARE SIDEWALKS REQUIRED? NO IF SO, ON WHAT SIDE? PERMIT INFORMATION: AVERAGE DAILY FLOW: 212 cfs ORDINARY LOW WATER: 95 cfs DEPTH: 2 ft ORDINARY HIGH WATER: 1373 cfs DEPTH: 6 ft

FOR WATER SURFACE ELEVATION AND VELOCITY DATA, THE FIRST NUMBER SHOWN IS THE LOW FLOW ON THE WHITE RIVER CASE. THE SECOND NUMBER (IN PARENTHESES) IS FOR THE HIGH FLOW ON THE WHITE RIVER CASE.

ADDITIONAL DESIGN CONSIDERATIONS

- WATER SURFACE ELEVATION FOR FLOOD OF RECORD IS UNKNOWN. PLANS FOR EXISTING BRIDGE INDICATE A "HIGH WATER ELEVATION" OF APPROXIMATELY 471, WHICH PROBABLY REPRESENTS THE 1925 FLOOD (LESSER EVENT THAN THE 1927 FLOOD.)
- FOR HIGH FLOW ON THE WHITE RIVER CASE (COINCIDENT FLOODS), OVERTOPPING OCCURS OF THE EXISTING STRUCTURE FOR THE 100 YEAR EVENT. THE WATER SURFACE ELEVATION IS 477.04 WITH 74 SF OF ROADWAY WEIR FLOW AT A MAXIMUM DEPTH OF 10 INCHES.
- CONFLUENCE WITH WHITE RIVER IS IMMEDIATELY DOWNSTREAM OF BRIDGE.

LOAD RATING (TONS) (LOAD FACTOR)

RATING LEVEL	H	HS	352	6	AXLE	3A	STR.	AA	STR.	BA	SEM.
INVENTORY											
POSTED											
OPERATING											

STATE OF VERMONT
AGENCY OF TRANSPORTATION

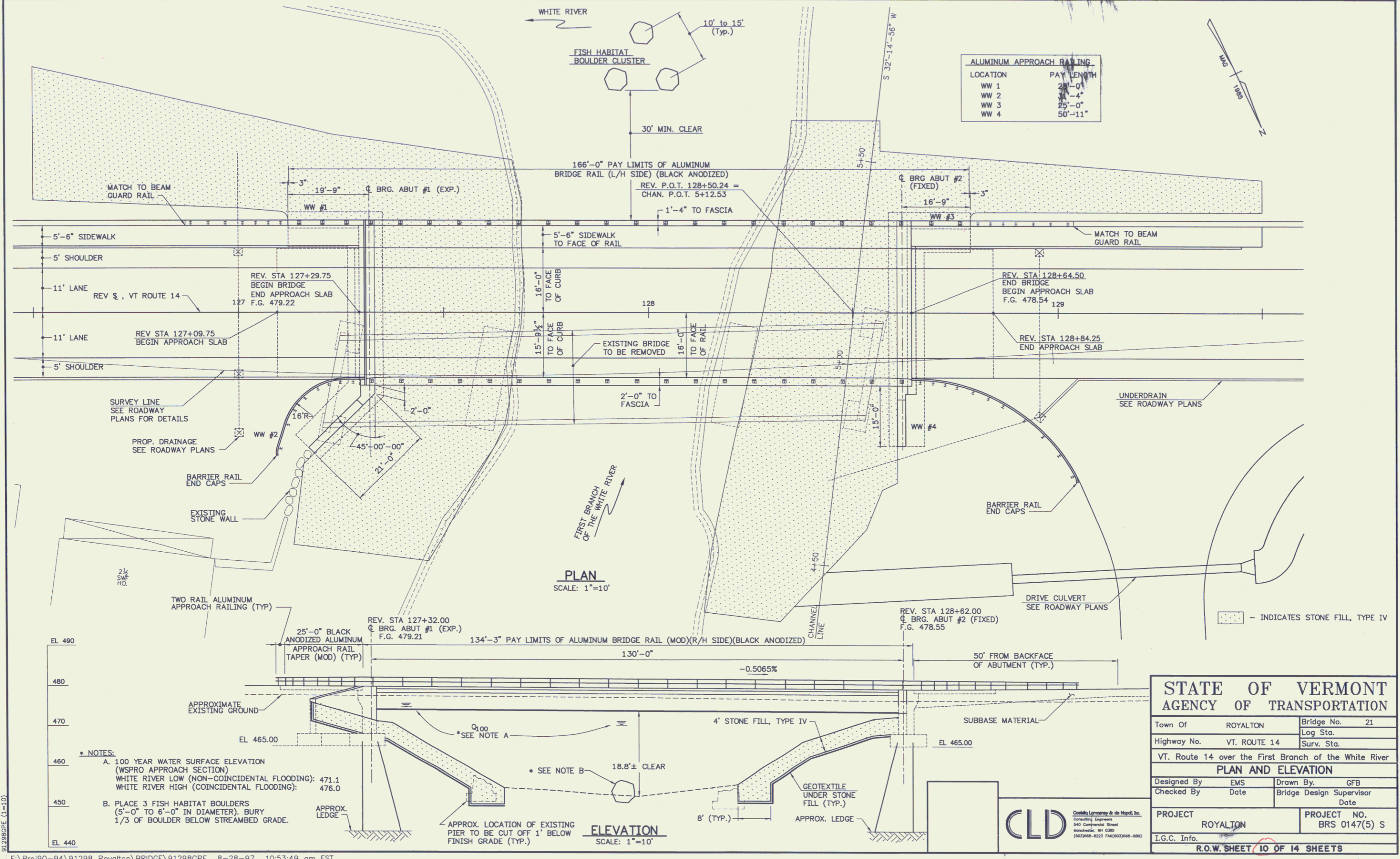
Town Of ROYALTON Bridge No. 21
Highway No. VT. Route 14 Log Sta. Surv. Sta.
VT. Route 14 over the First Branch of the White River

PRELIMINARY INFORMATION
Designed By E. M. STUMPH Drawn By G. F. BONIN
Checked By Date Bridge Design Supervisor Date

PROJECT ROYALTON PROJECT NO. BRS 0147(5) S
I.G.C. Info. R.O.W. SHEET 9 OF 14 SHEETS



91298PI (1-1) 91298



LOCATION	PAY LENGTH
WW 1	28'-0"
WW 2	34'-4"
WW 3	25'-0"
WW 4	50'-11"

- * NOTES:
- A. 100 YEAR WATER SURFACE ELEVATION (NSPRO APPROACH SECTION)
 WHITE RIVER LOW (NON-COINCIDENTAL FLOODING): 471.1
 WHITE RIVER HIGH (COINCIDENTAL FLOODING): 476.0
 - B. PLACE 3 FISH HABITAT BOULDERS (5'-0" TO 6'-0" IN DIAMETER). BURY 1/3 OF BOULDER BELOW STREAMBED GRADE.

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Town Of	ROYALTON	Bridge No.	21
Highway No.	VT. ROUTE 14	Log Sta.	
VT. Route 14 over the First Branch of the White River			
PLAN AND ELEVATION			
Designed By	EMS	Drawn By	GFB
Checked By	Date	Bridge Design Supervisor	Date
PROJECT	ROYALTON	PROJECT NO.	BRS 0147(5) S
I.G.C. Info.			
R.O.W. SHEET 10 OF 14 SHEETS			

10

**STATE OF VERMONT
AGENCY OF TRANSPORTATION
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	REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1A	CRAWFORD, LILLIAN D.	13	REV. 124+50 RT. REV. 125+53 RT.	REV. 125+32 RT.			SLOPE DRIVE (T) 205 SF± (T)	WD	07-11-01	ROYALTON	67	6-8	16' GRAVEL MM 0235	1	12,13	PARCEL NO. 3 CRAWFORD'S AUTOLAND. MOVE TAKE LINE 15' DOWN STA. CHANGE BEGINNING STA. OF CULVERT (P) FROM REV. 129+13 RT. TO REV. 128+99 RT. CHANGE ENDING STA. OF TAKE FROM 129+15 RT. TO 129+00 RT.; 3300 SF± CHANGE PLANS ACCORDINGLY. REMOVE DRIVE (T) AT STA. DRIVE 10+30 RT. PER C.O. 9002.	10-28-98	R. M. W.	L. W. B.
1B		13,14	REV. 128+22 LT. REV. 128+22 LT. REV. 128+94 LT. REV. 128+89 LT. REV. 128+84 LT. REV. 129+50 LT. REV. 128+85 LT. REV. 130+31 LT. REV. 130+63 LT. REV. 131+00 LT. REV. 132+10 LT. REV. 129+00 LT. REV. 129+13 LT.	REV. 132+50 LT. REV. 129+05 LT. REV. 129+30 LT. REV. 132+15 LT. REV. 129+50 LT. REV. 130+93 LT. REV. 130+50 LT. REV. 131+20 LT. REV. 130+68 LT. REV. 130+65 LT.	3480 S.F.±		ALL R. T. & I. ALL R. T. & I. CONST. (T) 2900 SF± SLOPE (P) 845 SF± SLOPE (T) 1675 SF± DETOUR (T) 3375 SF± ALL R. T. & I. (P) INSTALL CULVERT DITCH (T) DRIVE (T) REMOVE & RESET EASE. (T)	WD	07-11-01	RANDOLPH	67	6-8	TRAILER & APPURTENANCES WATERLINE EROSION CONTROL FENCE BARN CONC. WALL & SLAB GUY WIRE 16' PAVED MM 0251 TREE INSTALL WATERLINE	2	11,13	PARCEL NO. 2 CRAWFORD. CHANGE TITLE TO HERBERT C. CRAWFORD. PER C.O. 8999.	10-29-98	R. M. W.	L. W. B.
1C		13,14	REV. 128+16 RT.	REV. 132+50 LT.	0.25 A±		ALL R. T. & I.	WD	07-11-01	RANDOLPH	67	6-8	VT RTE. 14 HWY EASEMENT	4	11	PARCEL NO. 1 CRAWFORD. ADD DRIVE (T) TO DETAIL SHEET FOR BEG. STA. 132+10 LT. PER C.O. 9026.	03-22-99	R. M. W.	L. W. B.
1D		13	REV. 128+38 LT.	REV. 128+98 LT.	3925 S.F.±			WD	07-11-01	RANDOLPH	67	6-8	MITIGATION SITE	5	11	PARCEL NO. 1 CRAWFORD. CHANGE PARCEL 1A STA. REV. 123+53 RT. TO REV. 125+53 RT. PER C.O. 9070.	09-02-99	B. A. H.	R. B. J.
2	CRAWFORD, HERBERT C.	13	REV. 126+94 RT. REV. 127+05 RT. REV. 127+11 RT. REV. 127+11 RT. REV. 126+21 RT.	REV. 127+09 RT. REV. 127+50 RT. REV. 127+16 RT. REV. 127+46 RT.			SLOPE CHANNEL (T) 35 SF± ALL R. T. & I. (P) 545 SF± INSTALL DRIVE (T)	WDOE	07-12-01	ROYALTON	67	1-3	STONEWALL EROSION CONTROL ELEMENTS 16' GRAVEL MM 0240	7	13	PARCEL NO. 1 CRAWFORD. ADD TOP0 FOR A 24' MAPLE WHICH IS ALSO BENCH MARK NO. 2. ADD THE NOTE 'SAVE DO NOT TRIM' TO THIS MAPLE. PER C.O. 9076.	10-11-99	M. J. R.	L. W. B.
														8	1, 11,13	PARCEL NO. 1 CRAWFORD. MOVE BEGINNING R.O.W. PROJECT TO REV. 124+50 25' RT.; CHANGE LENGTH OF PROJECT TO 800.00' (0.151 MILES); CHANGE RUNNING DISTANCE ALONG EXISTING R.O.W. TO 313'. PER C.O. 9107	3-22-00	R. B. K.	R. P. D.

ACCT. MRYan
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DATE PLOTTED 05-SEP-2001
rf232dl1

DR. (P)- DRAINAGE RIGHT
DIT. (P)- DITCHING RIGHT
CH. (P)- CHANNEL RT.
DRIVE (T)- DRIVE RIGHT
CUL. (P)- CULVERT RIGHT
[W]- WATER SOURCES

PRESENT R.O.W.
TAKING WITHOUT ACCESS
TAKING WITHOUT ACCESS ALONG PROPERTY LINE
TAKING WITH ACCESS
PERMANENT EASEMENT
TEMPORARY EASEMENT

LEGEND
CZ (P) CLEAR ZONE
CONST. (T) CONSTRUCTION EASEMENT
SR SLOPE RIGHTS
P PROPERTY LINE
L TOP OF CUT
TOE OF SLOPE

APPROVED: LAMBRE BLISS DATE: 08-16-98
AGENT D, PLANS & TITLES

R. O. W. PLANS
ROYALTON
BRS 0147(5) S
R. O. W. SHEET 10 OF 14 SHEETS
SHEET 10 OF 76

**STATE OF VERMONT
AGENCY OF TRANSPORTATION
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	REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
3A	HERB CRAWFORD'S AUTOLAND, INC.	13	REV. 128+12 RT. REV. 128+10 RT. REV. 128+94 LT. REV. 128+99 RT. REV. 129+00 RT. REV. 129+23 RT. REV. 129+49 RT. REV. 129+54 RT. REV. 129+64 RT. REV. 129+52 RT. REV. 129+13 RT.	REV. 129+00 RT. REV. 129+83 RT. REV. 129+11 RT. REV. 129+49 RT. REV. 129+60 RT. REV. 129+70 RT. REV. 129+75 RT. REV. 129+80 RT.	3300 SF±		CONST. EASE. (T) 1740 SF± ALL R. T. & I. CULVERT (P) REMOVE & RESET (T) DRIVE (T) DIT. & DRAINAGE (P) CULVERT (P) DITCH (P) WALK (T) EASE. (T)	WD	07-11-01	ROYALTON	47	4-5	WATER LINE SIGN 20.5' PAVED MM 0245 INSTALL WATER LINE	9	11,13	PARCEL NO. 2 CRAWFORD. DELETE CLEAR & TRIM (P) FROM PARCEL ON DETAIL & LAYOUT SHEETS; ADD DRIVE (T) TO LAYOUT AND ADJUST DETAIL SHEET TO SHOW DRIVE RT. (T); CHANGE SLOPE (T) STATION FROM 127+01 RT. TO 126+94 RT. (CHANGE AREA TO 35 SF±); CHANGE CHANNEL (P) STATION FROM 127+07 TO 127+05 AND CHANGE AREA TO 545 SF±. PER C. O. 9108	3-22-00	R. B. K.	R. P. D.
3B		13	REV. 128+12 RT.	REV. 129.75 RT.	4000 SF±		ALL R. T. & I.	WD	07-11-01	ROYALTON	47	4-5	VT RTE. 14 HWY EASEMENT	10	11,13	PARCEL NO. 1A CRAWFORD. DELETE CLEAR & TRIM (P); ADD SLOPE (T) TO LAYOUT AND DETAIL SHEET WITH AREA OF 205 SF±. PER C. O. 9109.	3-22-00	R. B. K.	R. P. D.
4	TOWN OF ROYALTON	13,14	REV. 129+75 RT. REV. 129+75 RT. REV. 129+78 RT. REV. 129+82 RT.	REV. 132+50 RT. REV. 130+20 RT. REV. 129+85 RT. REV. 130+35 RT.	0.15 A±		ALL R. T. & I. SLOPE (T) 300 SF± WALK (T) CONST. EASE. (T) 305 SF±	OCD	01-11-00	ROYALTON	62	440	VT RTE. 14 HWY EASEMENT	11	11,13	PARCEL NO. 1 CRAWFORD. ADD PARCEL 1D; REV. 128+38 LT. ~ REV. 128+98 LT.; 3925 S. F. ± MITIGATION SITE. REDUCE AREA IN PARCEL 1B FROM 0.17A± TO 3480 S. F. ±. PER C. O. 9111.	4-04-00	M. J. R.	R. P. D.
5	C. V. P. S. CORP.												UTILITY						
6	BELL ATLANTIC												UTILITY						
7	THE HELICON GROUP, L.P.												UTILITY						
REVISED	10-11-99																		

ACCT. MRYan
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DATE PLOTTED 05-SEP-2001
rf232d2.i

DR. (P)- DRAINAGE RIGHT
DIT. (P)- DITCHING RIGHT
CH. (P)- CHANNEL RT.
DRIVE (T)- DRIVE RIGHT
CUL. (P)- CULVERT RIGHT
[W]- WATER SOURCES

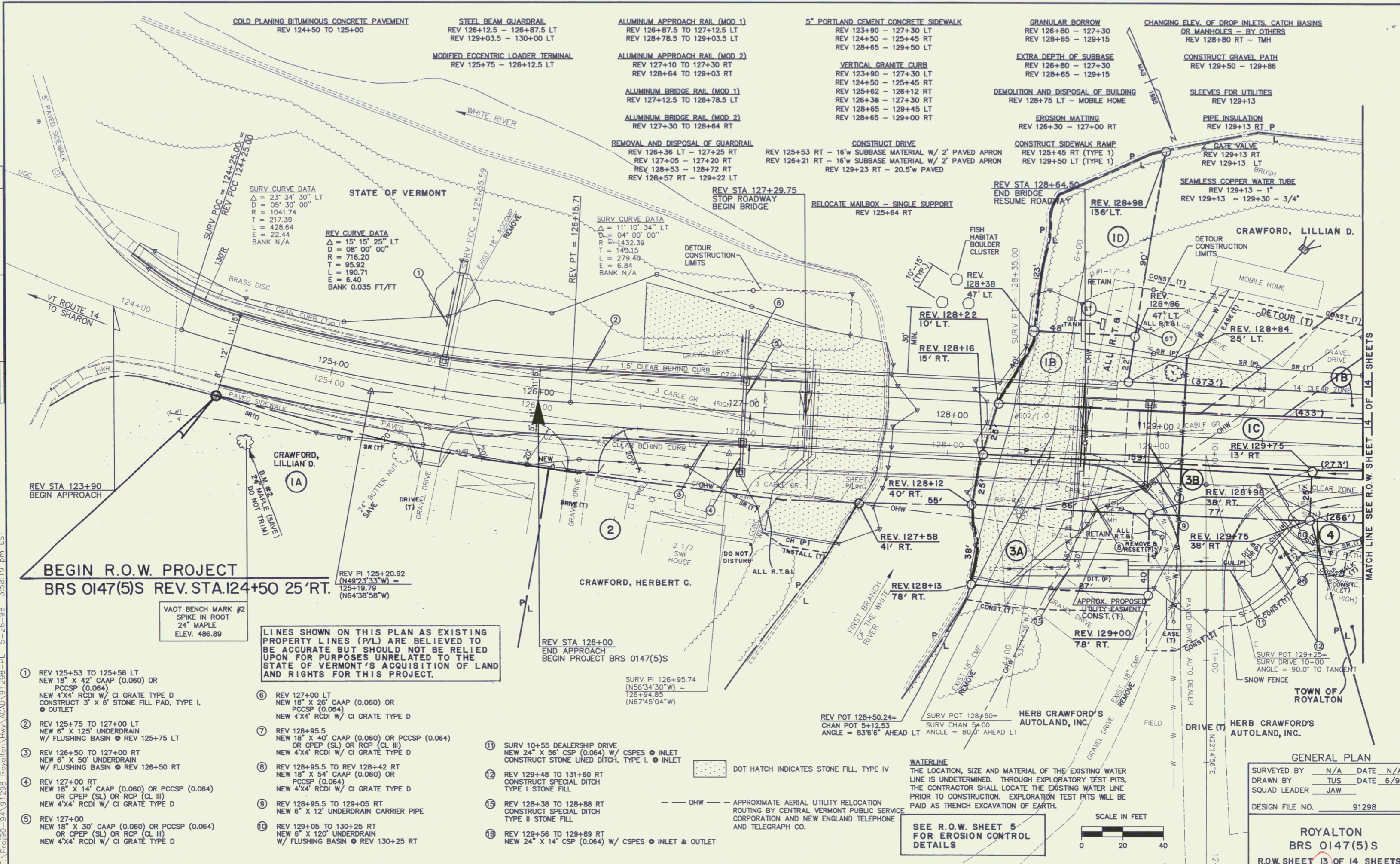
PRESENT R.O.W.
TAKING WITHOUT ACCESS
TAKING WITHOUT ACCESS ALONG PROPERTY LINE
TAKING WITH ACCESS
PERMANENT EASEMENT
TEMPORARY EASEMENT

LEGEND
CLEAR ZONE
CONSTRUCTION EASEMENT
SLOPE RIGHTS
PROPERTY LINE
TOP OF CUT
TOE OF SLOPE

APPROVED: LAWRENCE BLISS DATE: 06-16-98
AGENT D, PLANS & TITLES

R. O. W. PLANS
ROYALTON
BRS 0147(5) S
R. O. W. SHEET 12 OF 14 SHEETS
SHEET 11 OF 76

DATE	
BY	
PLAN	
REVISIONS	
NO.	
DATE	
BY	
DESCRIPTION	
DATE	
BY	
DESCRIPTION	



BEGIN R.O.W. PROJECT
BRS 0147(5)S REV. STA. 124+50 25' RT.

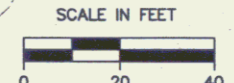
VAOT BENCH MARK #2
 SPIKE IN ROOT
 24" MAPLE
 ELEV. 486.89

LINE SHOWN ON THIS PLAN AS EXISTING
 PROPERTY LINES (P/L) ARE BELIEVED TO
 BE ACCURATE BUT SHOULD NOT BE RELIED
 UPON FOR PURPOSES UNRELATED TO THE
 STATE OF VERMONT'S ACQUISITION OF LAND
 AND RIGHTS FOR THIS PROJECT.

- 1 REV 125+53 TO 125+56 LT
 NEW 18" X 42" CAAP (0.060) OR
 PCCSP (0.064)
 NEW 4'X4' RCDI W/ CI GRATE TYPE D
 CONSTRUCT 3' X 6' STONE FILL PAD, TYPE I,
 O OUTLET
- 2 REV 125+75 TO 127+00 LT
 NEW 6" X 12" UNDERDRAIN
 W/ FLUSHING BASIN @ REV 125+75 LT
- 3 REV 126+50 TO 127+00 RT
 NEW 6" X 50' UNDERDRAIN
 W/ FLUSHING BASIN @ REV 126+50 RT
- 4 REV 127+00 RT
 NEW 18" X 14" CAAP (0.060) OR PCCSP (0.064)
 OR CPEP (SL) OR RCP (CL III)
 NEW 4'X4' RCDI W/ CI GRATE TYPE D
- 5 REV 127+00
 NEW 18" X 30" CAAP (0.060) OR PCCSP (0.064)
 OR CPEP (SL) OR RCP (CL III)
 NEW 4'X4' RCDI W/ CI GRATE TYPE D
- 6 REV 127+00 LT
 NEW 18" X 26" CAAP (0.060) OR
 PCCSP (0.064)
 NEW 4'X4' RCDI W/ CI GRATE TYPE D
- 7 REV 128+95.5
 NEW 18" X 40" CAAP (0.060) OR PCCSP (0.064)
 OR CPEP (SL) OR RCP (CL III)
 NEW 4'X4' RCDI W/ CI GRATE TYPE D
- 8 REV 128+95.5 TO 128+42 RT
 NEW 18" X 54" CAAP (0.060) OR
 PCCSP (0.064)
 NEW 4'X4' RCDI W/ CI GRATE TYPE D
- 9 REV 128+95.5 TO 129+05 RT
 NEW 6" X 12" UNDERDRAIN CARRIER PIPE
- 10 REV 129+05 TO 130+25 RT
 NEW 6" X 120' UNDERDRAIN
 W/ FLUSHING BASIN @ REV 130+25 RT
- 11 SURV 10+55 DEALERSHIP DRIVE
 NEW 24" X 56" CSP (0.064) W/ CSPES @ INLET
 CONSTRUCT STONE LINED DITCH, TYPE I, @ INLET
- 12 REV 128+48 TO 131+80 RT
 CONSTRUCT SPECIAL DITCH
 TYPE I STONE FILL
- 13 REV 128+38 TO 128+88 RT
 CONSTRUCT SPECIAL DITCH
 TYPE II STONE FILL
- 14 REV 129+56 TO 129+89 RT
 NEW 24" X 14" CSP (0.064) W/ CSPES @ INLET & OUTLET

WATERLINE
 THE LOCATION, SIZE AND MATERIAL OF THE EXISTING WATER
 LINE IS UNDETERMINED. THROUGH EXPLORATORY TEST PITS,
 THE CONTRACTOR SHALL LOCATE THE EXISTING WATER LINE
 PRIOR TO CONSTRUCTION. EXPLORATION TEST PITS WILL BE
 PAID AS TRENCH EXCAVATION OF EARTH.

**SEE R.O.W. SHEET 5
 FOR EROSION CONTROL
 DETAILS**



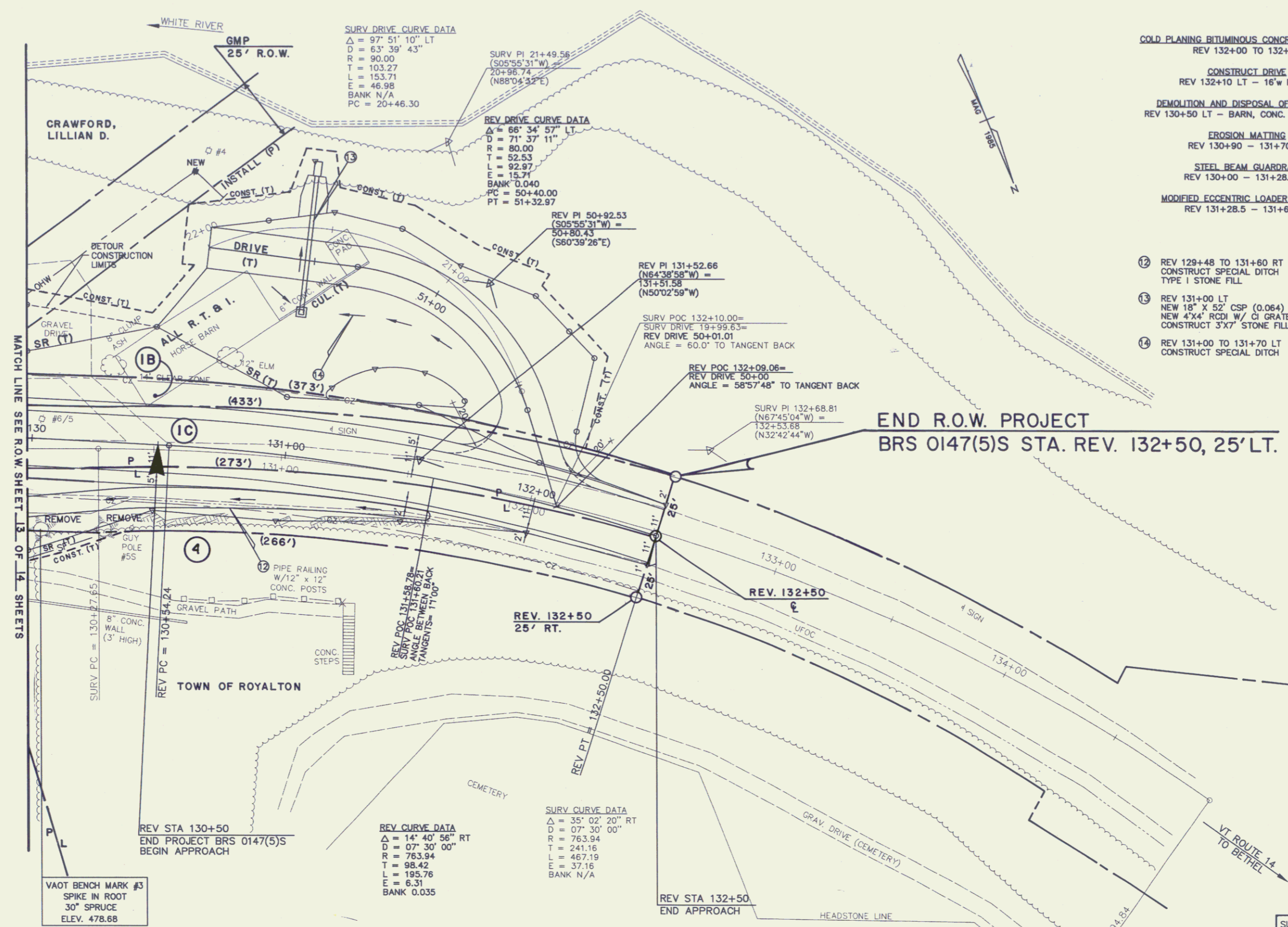
GENERAL PLAN

SURVEYED BY	N/A	DATE	N/A
DRAWN BY	IUS	DATE	6/96
SQUAD LEADER	JAW		
DESIGN FILE NO.	91298		

ROYALTON
BRS 0147(5)S
R.O.W. SHEET 13 OF 14 SHEETS

PLAN	REVISED
NOTE BOOK	PLACEMENT CHECKED
NO.	BY WAY CHECKED

F:\Proj\90-94\91298-Royalton\Hwy\ACAD\91298-PL 5-26-98 3:58:22 pm EST



SURV DRIVE CURVE DATA
 $\Delta = 97^\circ 51' 10''$ LT
 $D = 63' 39' 43''$
 $R = 90.00$
 $T = 103.27$
 $L = 153.71$
 $E = 46.98$
 $BANK N/A$
 $PC = 20+46.30$

REV DRIVE CURVE DATA
 $\Delta = 66^\circ 34' 57''$ LT
 $D = 71' 37' 11''$
 $R = 80.00$
 $T = 52.53$
 $L = 92.97$
 $E = 15.71$
 $BANK 0.040$
 $PC = 50+40.00$
 $PT = 51+32.97$

REV PI 50+92.53
 $(S05^\circ 55' 31'' W) =$
 $50+80.43$
 $(S60^\circ 39' 26'' E)$

REV PI 131+52.66
 $(N64^\circ 38' 58'' W) =$
 $131+51.58$
 $(N50^\circ 02' 59'' W)$

SURV POC 132+10.00
SURV DRIVE 19+99.63
REV DRIVE 50+01.01
ANGLE = 60.0° TO TANGENT BACK

REV POC 132+09.06
REV DRIVE 50+00
ANGLE = 58° 57' 48" TO TANGENT BACK

SURV PI 132+68.81
 $(N67^\circ 45' 04'' W) =$
 $132+53.88$
 $(N32^\circ 42' 44'' W)$

REV CURVE DATA
 $\Delta = 14^\circ 40' 56''$ RT
 $D = 07' 30' 00''$
 $R = 763.94$
 $T = 98.42$
 $L = 195.76$
 $E = 6.31$
 $BANK 0.035$

SURV CURVE DATA
 $\Delta = 35^\circ 02' 20''$ RT
 $D = 07' 30' 00''$
 $R = 763.94$
 $T = 241.16$
 $L = 467.19$
 $E = 37.16$
 $BANK N/A$

VAOT BENCH MARK #3
SPIKE IN ROOT
30" SPRUCE
ELEV. 478.68

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

SEE R.O.W. SHEET 6 FOR EROSION CONTROL DETAILS

- COLD PLANING BITUMINOUS CONCRETE PAVEMENT
REV 132+00 TO 132+50
- CONSTRUCT DRIVE
REV 132+10 LT - 16'w PAVED
- DEMOLITION AND DISPOSAL OF BUILDING
REV 130+50 LT - BARN, CONC. WALL & SLAB
- EROSION MATTING
REV 130+90 - 131+70 LT
- STEEL BEAM GUARDRAIL
REV 130+00 - 131+28.5 LT
- MODIFIED ECCENTRIC LOADER TERMINAL
REV 131+28.5 - 131+66 LT

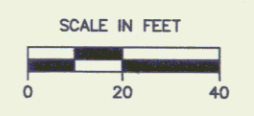
- ⑫ REV 129+48 TO 131+60 RT
CONSTRUCT SPECIAL DITCH
TYPE I STONE FILL
- ⑬ REV 131+00 LT
NEW 18" X 52" CSP (0.064)
NEW 4'X4' RCBI W/ CI GRATE TYPE D
CONSTRUCT 3'X7' STONE FILL PAD, TYPE I, ● OUTLET
- ⑭ REV 131+00 TO 131+70 LT
CONSTRUCT SPECIAL DITCH

END R.O.W. PROJECT
BRS 0147(5)S STA. REV. 132+50, 25' LT.

GENERAL PLAN

SURVEYED BY	N/A	DATE	N/A
DRAWN BY	TUS	DATE	6/96
SQUAD LEADER	JAW		
DESIGN FILE NO.	91298		

ROYALTON
BRS 0147(5)S
R.O.W. SHEET 14 OF 14 SHEETS



14