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STATE OF VERMONT
AGENCY OF TRANSPORTATION

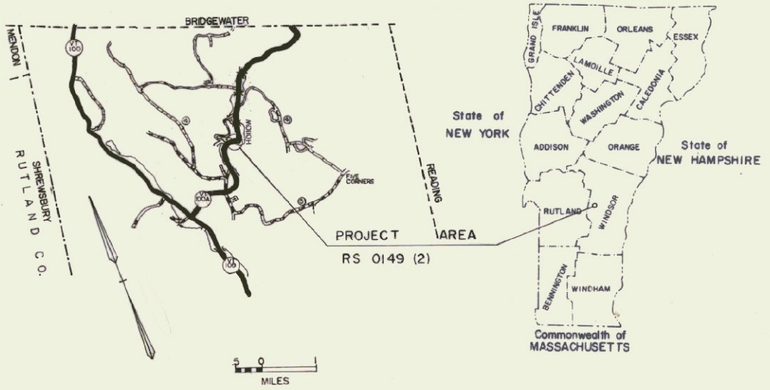
PROPOSED IMPROVEMENT
TOWN OF PLYMOUTH
COUNTY OF WINDSOR

VT. ROUTE 100 A (FAS)

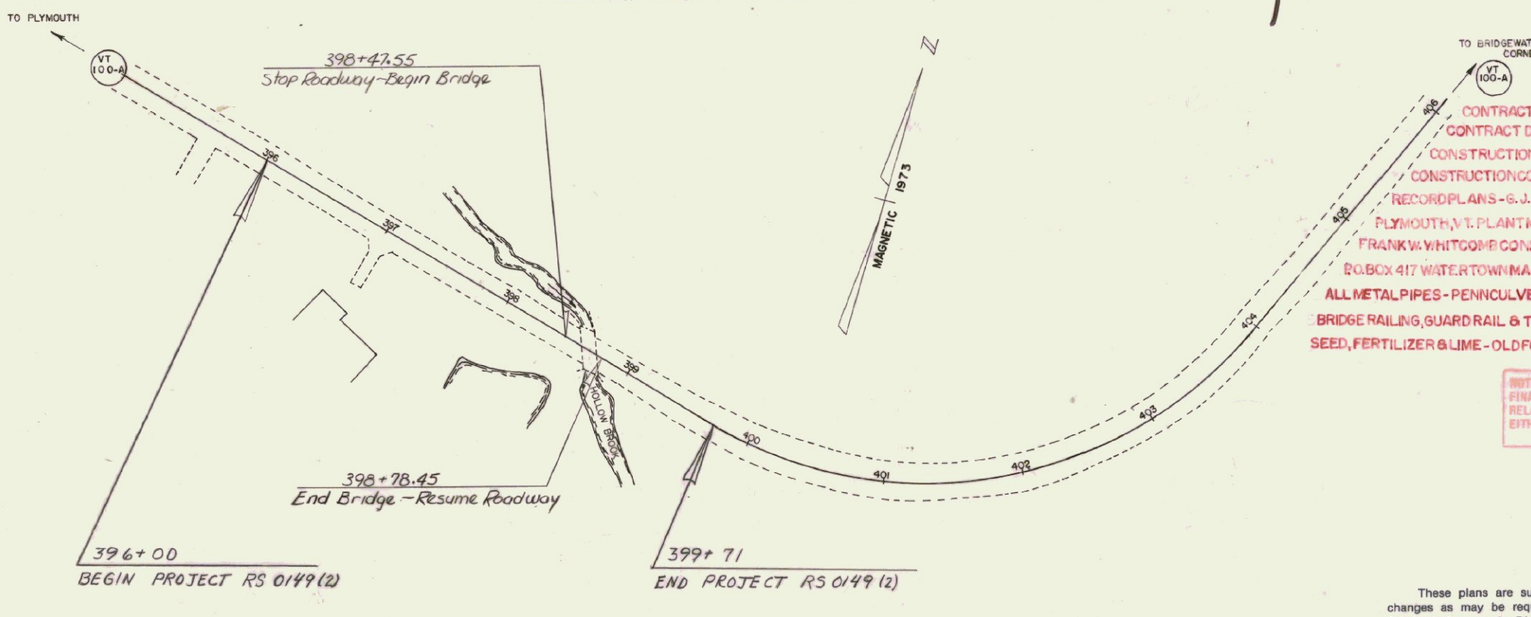
BEGINNING AT A POINT ON VT. RTE. 100A APPROXIMATELY 2.001 MI. EASTERLY OF THE INTERSECTION OF VT. RTE. 100 AND VT. RTE. 100A, AND PROCEEDING EASTERLY FOR 0.070 MILES.

LENGTH OF ROADWAY	340.10 FEET	0.064 MILES
LENGTH OF BRIDGE	30.90 FEET	0.006 MILES
LENGTH OF PROJECT	371 FEET	0.070 MILES

Work to be performed consists of replacing the existing Hollow Brook Concrete box structure and widening the roadway to provide two 11' wide travel lanes with 6' shoulders.



TRAFFIC DATA		
EST. 1982	ADT	620
EST. 2002	ADT	870
EST 1982	DHV	115
EST 2002	DHV	150
	D	61%
	T	6%
	V	40 MPH



RECORD PLANS & MATERIAL SUPPLIERS

CONTRACTOR-NEIL H. DANIEL INC. P.O.BOX 248 ASCUTNEY, VT.
CONTRACT DATED-3-28-83 CONSTRUCTION BEGAN-6-1-83
CONSTRUCTION SUSPENDED-12-16-83 CONSTRUCTION RESUMED-5-18-84
CONSTRUCTION COMPLETED-5-21-84 ACCEPTED-5-31-84 RESIDENT ENGR. W. M. HEDGES
RECORD PLANS-G. J. ABAIR GRANULAR BORROW & SUBBASE OF GRAVEL SAILER BROS. PIT PLYMOUTH, VT. PLANT MIX BASE COURSE, BITMINOUS CONCRETE PAVEMENT & CONCRETE CLASS "B"-FRANK W. WHITCOMB CONST. CORP. WALLINGFORD, VT. REINF. STEEL-PIONEER VALLEY STEEL CO., INC. P.O.BOX 417 WATERTOWN MA. WATER REPELLENT- SONNEBORN BUILDING PRODUCTS MASPETH, NY
ALL METAL PIPES-PENNCULVERT CO. IRONMORSE PARK NORTH BILLERICA, MA. BOUNDARY MARKERS, BRIDGE RAILING, GUARD RAIL & TRAFFIC SIGNS-LAFAYETE & SHELDON INC. KELLOGG RD. ESSEX JCT., VT.
SEED, FERTILIZER & LIME-OLD FOX CHEMICAL INC. EAST ST. LYNDONVILLE, VT

NOTE: ANY FURTHER INFORMATION CONCERNING FINAL QUANTITIES, AMOUNTS OR OTHER DETAILS RELATIVE TO THIS PROJECT MAY BE FOUND IN EITHER THE FIELD BOOKS OR THE ESTIMATE FILE.

CONVENTIONAL SIGNS

COUNTY LINE
TOWN LINE
LIMITS OF ACCESS
POINT OF ACCESS
FENCE LINE
STONE WALL
TRAVELED WAY
GUARD RAIL
RAILROAD
SURVEY LINE
CULVERT
POWER POLE
TELEPHONE POLE
TREES
CONTROL OF ACCESS
PROPERTY LINE
R.O.W. TAKING LINE
SLOPE RIGHTS
TOP OF CUT
TOE OF SLOPE

DATUM
VERTICAL Assumed
HORIZONTAL N/A

0 50 100
FEET

These plans are subject to such engineering changes as may be required by the Federal Highway Administration or the Director of Engineering and Construction.

Construction is to be carried on in accordance with these plans and the Standard Specifications for Highway and Bridge Construction dated March, 1976, as approved by the Federal Highway Administration on October 27, 1976 for use on this project, including all subsequent revisions and such revised specifications and special provisions as are incorporated in these plans.

PROJECT PROCESSED UNDER SECONDARY ROAD PLAN

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED S. J. Gage P.E. DATE 12-27-82
DIRECTOR OF ENGINEERING AND CONSTRUCTION

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

PROJECT PLYMOUTH
Nº RS 0149 (2)

SHEET 1 OF 49 SHEETS

D-10

S.R.S. 12/17/70

BRUNING 44.131 40592-1

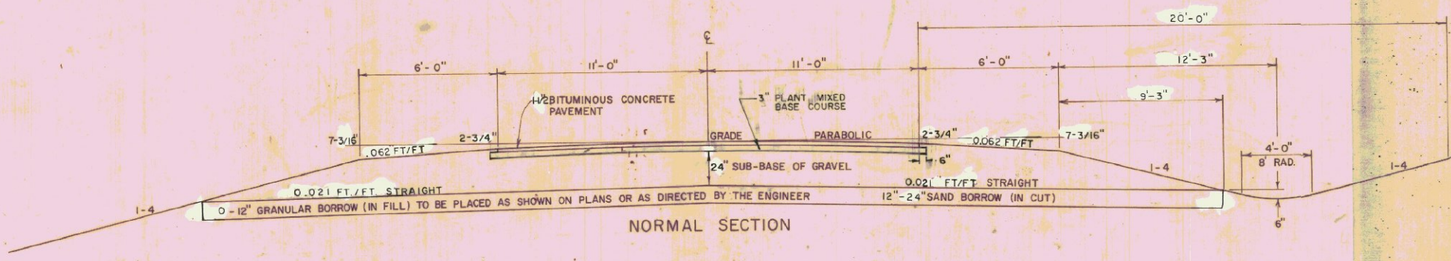
TYPICAL SECTIONS

PARABOLIC DETAILS

1 1/2" BITUMINOUS CONCRETE PAVEMENT, ITEM 406.25 TYPE II (SINGLE LIFT)
3" PLANT MIXED BASE COURSE, ITEM 303.25 SINGLE LIFT
24" SUB-BASE OF GRAVEL, ITEM 301.15

0-12" GRANULAR BORROW (IN FILLS)
0-24" SAND BORROW (IN CUTS)

AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.



NORMAL SECTION

GENERAL NOTES

SEED, ITEM 651.10
TO BE APPLIED AS DIRECTED BY THE ENGINEER

% WT	LBS/A	NAME	PUR %	GERM %
3.33	2	CROWN VETCH	97	75
50.00	30	CREEPING RED FESCUE	98	85
8.33	5	TIMOTHY	99	85
16.67	10	PERENNIAL RYE GRASS (VAR. PENNFINE)	95	85
8.34	5	ALFALFA (VAR. SARANAC)	99	85
8.33	5	BIRDSFOOT TREFOIL (VAR. EMPIRE)	98	85
5.00	3	HIGHLAND BENT GRASS	92	85
100.00	60 LBS/ACRE			

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

MARKER POSTS, (WOOD OR STEEL AS SPECIFIED)
TO BE PLACED AS DIRECTED BY THE ENGINEER

FERTILIZER, ITEM 651.15
FORMULA 10-20-10 TO BE USED WITH SEED, ITEM 651.10 APPLIED AT THE RATE OF 500 LBS/ACRE

AGRICULTURAL LIMESTONE, ITEM 651.20
TO BE APPLIED AT RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER

HAY MULCH, ITEM 651.25
TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER.

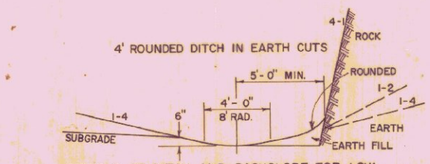
TOPSOIL, ITEM 653.10
TO BE USED WITH SEED, ITEM 651.10 IN RESIDENTIAL AREAS, AS DIRECTED BY THE ENGINEER

SEE STANDARD SHEET B-5 FOR TYPICAL SLOPE ROUNDING

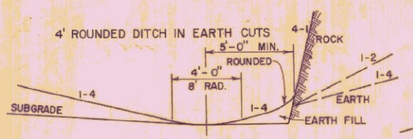
SEE STANDARD SHEET D-2 FOR PAY LIMITS OF SAND BORROW WHEN USED IN CONJUNCTION WITH UNDERDRAIN

ALLOWABLE THICKNESS TOLERANCES

SUB-BASE	± 1"
CONTROLLED MATERIAL	± 1"
PAVEMENT	± 1/4"
BASE COURSE	± 1/2"

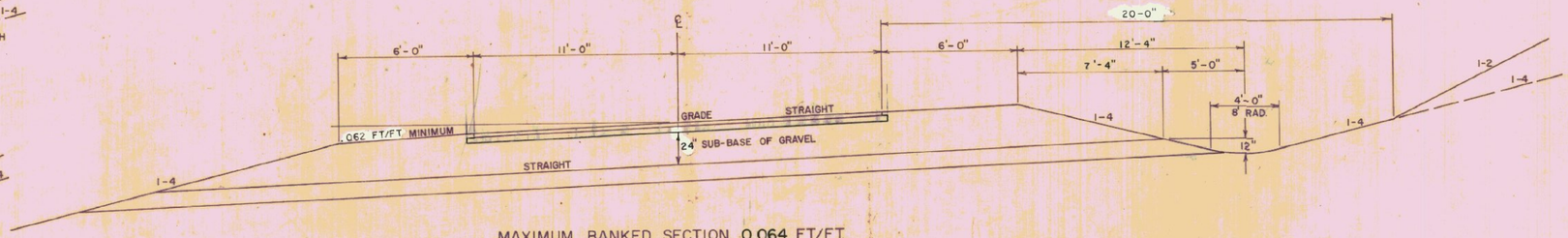


DETAILS OF DITCH AND BACKSLOPE FOR LOW SIDE OF BANK LESS THAN 1/2"

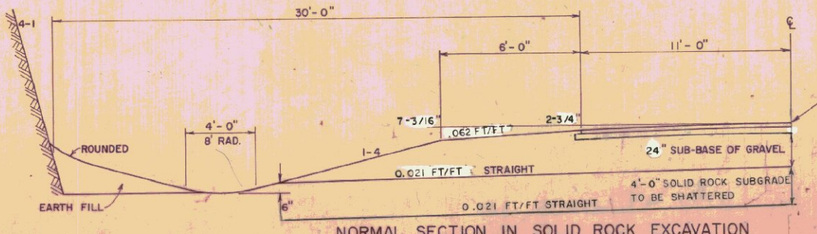


DETAILS OF DITCH AND BACKSLOPE FOR LOW SIDE OF 1/2" BANK OR MORE

BUILT AS DESIGNED

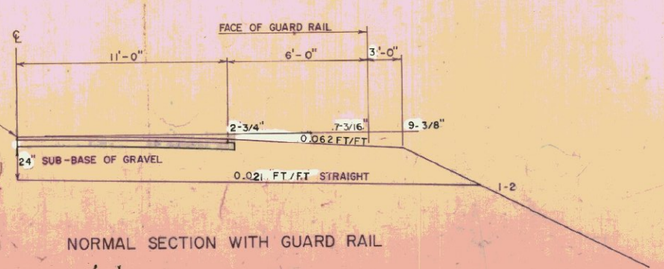


MAXIMUM BANKED SECTION 0.064 FT/FT



NORMAL SECTION IN SOLID ROCK EXCAVATION

(SEE STANDARD SHEET A-60 FOR ADDITIONAL DETAILS)



NORMAL SECTION WITH GUARD RAIL

TOWN OF PLYMOUTH

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROJ. RS NO.0149(2) | SHEET 2 OF 49

TYPE JD
corrected
22 dec, 82

DRAINAGE AND ITEM QUANTITY SHEET

STATE OF VERMONT DEPARTMENT OF HIGHWAYS

PROJECT PLYMOUTH NO. RS 0149(2)

APPROXIMATE SUMMARY OF QUANTITIES

EROSION CONTROL	BRIDGE	ROADWAY	GRAND TOTAL	UNIT	ITEM	RNDG.	ITEM NO.
		1	1	LS	CLEARING AND GURBBING		201.10
	1		1	LS	PARTIAL REMOVAL OF STRUCTURE		202.30
		120	120	LF	REMOVAL AND DISPOSAL OF EXT. GUARDRAIL	1	202.40
		2170	2170	CY	UNCLASSIFIED EXCAVATION	37	203.17
	320		320	CY	UNCLASSIFIED CHANNEL EXCAVATION		203.27
		100	100	CY	EARTH BORROW (EST)		203.30
		1020	1020	CY	SAND BORROW (EST)		203.31
		100	100	CY	GRANULAR BORROW EST		203.32
		3150	3150	SY	FINE GRADING - SUBGRADE		203.40
7		178	185	CY	TRENCH EXCAVATION OF EARTH		204.20
		170	170	CY	TRENCH EXCAVATION OF ROCK		204.21
	570		570	CY	STRUCTURE EXCAVATION		204.25
	210		210	CY	GRANULAR BACKFILL FOR STRUCTURES		204.30
		3050	3050	SY	DRILLING AND BLASTING OF SOLID ROCK SUBGRADE		206.10
35	70	2415	2520	CY	SUBBASE OF GRAVEL		301.15
		300	300	TON	PLANT MIXED BASE COURSE		303.25
7		483	490	CY	STRIPPING OF PITS		307.10
		150	150	TON	BITUMINOUS CONCRETE	5	406.25
	275	3	278	CY	CONCRETE, CLASS B	9	501.25
	46,310	290	46,600	LB	REINFORCING STEEL	97	507.15
	10		10	GAL	WATER REPELLENT		514.10
		88	88	LF	18" A.C.C.G.M.P. .064		601.1552
		1	1	EA	CAST IRON GRATE W/FRAME TYPE B		604.46
		500	500	LF	6" UNDERDRAIN (EST)		605.101
		50	50	LF	6" UNDERDRAIN CARRIER PIPE (EST)		605.151
		2	2	EA	UNDERDRAIN FLUSHING BASINS (EST)		605.95
		10	10	HR	ROADWAY PATROL MAINTENANCE		607.10
1		4	5	HR	BULLDOZER RENTAL TYPE I		608.10
1		4	5	HR	ALL PURPOSE EXC. RENTAL, TYPE I		608.25
		4	4	HR	TRUCK RENTAL		608.37
		20	20	M/GAL	DUST CONTROL W/WATER		609.10
		0.5	0.5	TON	DUST AND ICE CONTROL W/CALCIUM CHLORIDE		609.15
4			4	CY	STONE FILL TYPE I		613.10
	225		225	CY	STONE FILL TYPE II		613.11
	75		75	LF	BRIDGE RAILING HEAVY DUTY STEEL BEAM		617.35
		7	7	EA	BOUNDARY MARKERS (EST.)		619.10
		3	3	EA	WOOD MARKER POSTS		619.15
		1	1	EA	REMOVING AND RESETTING PROPERTY MARKERS		619.20
		283	283	LF	GUARD RAIL, STD ST BEAM W/ WOOD POSTS TYPE II		621.28
		130	130	LF	GUARDRAIL HVY. ST. BEAM W/WOOD POSTS TYPE II		621.38
		4	4	EA	ANCHOR FOR ST. BEAM G.R. W/ST OR WOOD POSTS AT OPENING		621.70
		100	100	HR	UNIFORMED TRAFFIC OFFICERS		630.10
		200	200	HR	FLAG PERSONS		630.15
		1	1	LS	MOBILIZATION		635.10
	1		1	LS	MAINTENANCE OF TRAFFIC FOR BRIDGE PROJECTS		637.10
40			40	LB	SEED		651.10
10			10	LB	SEED-WINTER RYE		651.12
315			315	LB	FERTILIZER		651.15
1.5			1.5	TON	AGRICULTURAL LIME STONE		651.20
2			2	TON	HAY MULCH		651.25
10			10	CY	TOPSOIL		653.10
20			20	SY	EROSION MATTING		654.20
		11	11	SF	TRAFFIC SIGNS, TYPE A		675.20
		110	110	LB	TRAFFIC SIGN POSTS, TYPE A		675.35

DETAILED SUMMARY OF QUANTITIES

QUANTITY	UNIT	ITEM
		UNCLASSIFIED EXCAVATION
499	CY	ROADWAY
239	CY	BEGIN APPROACH
381	CY	END APPROACH
14	CY	DRIVE
1020	CY	EXC FOR SAND BORROW
17	CY	RND
2170	CY	TOTAL
		TRENCH EXCAVATION OF EARTH
29	CY	DRAINAGE
117	CY	UNDERDRAIN (EST)
11	CY	UNDERDRAIN CARRIER PIPE (EST)
16	CY	TEST TRENCHES
5	CY	ROUND
178	CY	TOTAL
		TRENCH EXCAVATION OF ROCK
19	CY	DRAINAGE
134	CY	UNDERDRAIN (EST)
11	CY	UNDERDRAIN CARRIER PIPE (EST)
6	CY	ROUND
170	CY	TOTAL
		SUBBASE OF GRAVEL
2381	CY	ROADWAY
21	CY	DRIVES
13	CY	ROUND
2415	CY	TOTAL
		BITUMINOUS CONCRETE PAVEMENT
21	TON	BEGIN APPROACH
76	TON	ROADWAY
40	TON	END APPROACH
8	TON	DRIVES
5	TON	ROUNDING
150	TON	TOTAL
		TEMPORARY EROSION CONTROL
7	CY	TRENCH EXCAVATION OF EARTH
35	CY	SUBBASE OF GRAVEL
7	CY	STRIPPING OF PITS
1	HR	BULL DOZER RENTAL
1	HR	ALL PURPOSE EXC. RENTAL TYPE I
4	CY	STONE FILL TYPE I
10	LB	SEED, WINTER RYE
0.5	TON	HAY MULCH
20	SY	EROSION MATTING

DRAINAGE STRUCTURES

STA.	POS.	OLD CULVERT	TYPE IN.	TYPE OUT.	A.C.C.G.M.P. D	A.C.C.G.M.P. L	A.C.C.G.M.P. TH	C.G.M.P. D	C.G.M.P. L	C.G.M.P. TH	C.A.A.C.P. D	C.A.A.C.P. L	C.A.A.C.P. TH	R.C.P. D	R.C.P. L	R.C.P. CL	TRENCH EXCAV. EARTH	TRENCH EXCAV. ROCK	MARKER POSTS LT.	MARKER POSTS RT.	ASKEW LT.	ASKEW RT.	CONC. CL. B	REINF STEEL	DI GRATE TYPE	DEPTH DI	DITCHES IN	DITCHES OUT	REMARKS
396+48.5	CL																12	2											18" CMP REMOVE
396+77 – 397+50	RT LT		RCDI		18	88	.064										17	17	1				2.1	193	B	4.0			
TOTAL					18	88	.064										29	19	1				2.1	193	B				

GUARD RAIL, STANDARD STEEL BEAM WITH WOOD POST TYPE II ITEM 621.28

STATIONS	LENGTHS	G-ID END TREATMENT
397+08LT – 397+94.5 LT	87.5	NOTE: EACH 1
397+20RT – 398+44 RT	125.0	G-ID WILL 1
398+82LT – 399+06 LT	25.0	EMPLOY AN 1
399+31.5RT – 399+68 RT	37.5	ANCHOR – 1
SUB TOTALS	275.0	ITEM 621.70 4
NOTE: FOR EACH G-ID ALLOW ADDITIONAL 2' OF ITEM 621.28 4 X 2 =	8	
TOTAL LENGTH	275.0	
		621.70
TOTAL PAY LENGTH	283.0'	4

REMOVAL AND DISPOSAL OF EXISTING GUARDRAIL

STATION	LENGTH
398+00LT – 398+71LT	71
398+66RT – 399+14RT	48
TOTAL	119

GUARD RAIL, HEAVY STEEL BEAM WITH WOOD POSTS TYPE II, ITEM 621.38

STATIONS	LENGTH	FACTOR	PAY LENGTH
397+94.5LT – 398+07 LT	12.5	1.2	15.0
398+07 LT – 398+19.5 LT	12.5	1.4	17.5
398+57 LT – 398+69.5 LT	12.5	1.4	17.5
398+69.5 LT – 398+82 LT	12.5	1.2	15.0
398+44 RT – 398+56.5 RT	12.5	1.2	15.0
398+56.5 RT – 398+69 RT	12.5	1.4	17.5
399+06.5 RT – 399+19 RT	12.5	1.4	17.5
399+19 RT – 399+31.5 RT	12.5	1.2	15.0
TOTAL LENGTH 100.0'			
TOTAL PAY LENGTH			130.0'

(PER STANDARD SB-R6-82, SCHEDULE I)

TYPE OF CONSTRUCTION:

STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS	EQUATIONS +	EQUATIONS –	REMARKS

LENGTH OF PROJECT

STA.	STA.	FEET	MILES	REMARKS
396+00	398+17.55	217.55	.047	ROADWAY
398+17.55	398+78.45	30.90	.006	BRIDGE
398+78.45	399+71	92.55	.017	ROADWAY
		371.00	0.070	

PROJECT RS NO. 0149(2)

SHEET 3 OF 19

TYPE CHECKED 17 DEC Grau

EARTHWORK

V.C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON V. CURVES	CORR. V.C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.		EMBANKMENT AREA	EMBANKMENT CU. YDS.	BASE AREA	BASE CU. YDS.
	-3.200 %						BUTT						
		395+	1295.80	1295.80	0		62					C	239
												F	0
						50		120				FFAC	1.15
		+50	1294.20	1294.42	+.22		68					EXC	239
									396+00				
								119	CONSTRUCT SATISFACTORY				
		396+	1293.46	1293.46	0		60		APPROACH	0			
									BEGIN PROJECT				
								113	RS 0149(2)		5		
		+50	1292.73				62			5			
								107			9		
		397+	1291.99				54			5			
												C	427
												F	85
		+12.3	1291.81									FFAC	1.15
												EXC	329
		+48.6	1291.27										
								93			11		
		+50	1291.25				46			7			
						50		72			7		
		398+	1290.51				32			1			
						47.55		42	398+47.55 STOP ROAD WAY		53		
		+47.55	1289.81				15			59			
									BEGIN BRIDGE				
		+50	1289.78										
									398+78.45				
		+78.45	1289.36				15		END BRIDGE	59			
									RESUME				
									ROADWAY				
		+85	1289.26	1289.26	0							C	72
												F	103
						21.55		12			46	FFAC	1.15
		399+	1289.04	1289.02	-0.02		15			57		EXF	46
						50		39			53		
		+50	1288.30	1287.97	-0.33		27			0			
									399+71				
						21		21	END PROJECT		4		
		+71	1287.56	1287.41	-0.15		28		RS 0149(2)	9			
									CONSTRUCT SATISFACTORY				
						29		31	APPROACH		22		
		400+	1286.53	1286.51	-0.02		30			32			
												C	381
		+15	1286.00	1286.00	0							F	86
												FFAC	1.15
		+20	1285.83	1285.83	0							EXC	202
						50		92			41		
		+50	1284.77	1284.84	+.07		69			12			
								137			17		
		401+	1283.00	1283.51	+0.51		79			6			
						50		121			6		
		+50	1282.50	1282.57	+0.07		52			0			
							BUTT						
		+80	1282.20	1282.20	0								
		402+	1282.00										
							CARRIED FORWARD						
							COLUMN FOOTINGS	1149			307		

L=100 K=57

K=63 L=130

K=63 L=160

-1.4750 %

-3.5333 %

-1.0000 %

EARTHWORK

V.C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON V. CURVES	CORR. V.C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.		EMBANKMENT AREA	EMBANKMENT CU. YDS.	BASE AREA	BASE CU. YDS.

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
1A	TAYLOR, GARDNER & DORA	4	394+63 LT. 396+65 LT. 397+42 LT.	398+50 LT. 397+53 LT. 397+85 LT.	0.08 A±		CONST. EASE. (T) (375 S.F.±) CHANNEL (P) (175 S.F.±)	W.D.	10-5-82	PLYMOUTH	43	7	(3830 S.F.±)
1B			394+63 ℄	398+50 ℄ TOTAL	0.26 A± 0.34 A±		ALL R T & I.						VT. RTE. 100 A HWY. EASE.
2A	OLSON, ROBERT G. & MILDRED A.	4	396+41 RT.	398+69 RT.			CONST. EASE. (T) (0.04 A±)	AGREE.		PLYMOUTH			(1750 S.F.±)
			395+60 RT.										DRIVE 14' PAVED 01.99 DRIVE PERMIT DATE·
			397+00 RT.				DRIVE (T)						14' PAVED M.P. 02.02 DRIVE PERMIT DATE·
			397+75 RT.	398+69 RT.			SLOPE (T) (0.02 A±)						(955 S.F.±)
2B													DELETED
3	STATE OF VERMONT AGENCY OF ENVIRONMENTAL CONSERVATION FOREST, PARKS AND RECREATION DEPT.	4	397+28 LT. 397+53 LT. 398+40 LT.	399+80 LT. 398+40 LT. 399+60 LT.			CONST. EASE. (T) (0.05 A±) CHANNEL (T) (0.02 A±) SLOPE (T) (0.01 A±)	LETTER OF AUTH.					(2350 S.F.±) (1040 S.F.±) (650 S.F.±)
4A	COOLIDGE, JOHN	4	398+69 RT. 398+69 RT.	401+00 RT. 400+10 RT.	0.24 A±		CONST. EASE. (T) (0.03 A±)	W.D.	9-13-82	PLYMOUTH	42	485-6	(1100 S.F.±)
4B			398+69 ℄	401+00 ℄ TOTAL	0.20 A± 0.44 A±		ALL R. T. & I.						VT. RTE. 100 A HWY. EASE.
5	CONTINENTAL TELEPHONE OF VERMONT												UTILITY
6	CENTRAL VERMONT PUBLIC SERVICE CORP.												UTILITY

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	4	Parcel 2. C.O.# 5361 Deleted Ditch & Drainage Rt(P) STA 396+00Rt ~ 396+85 Rt. Added SAVE to plans for Maple Trees at 396+60Rt & 396+80 Rt.	5-17-82	R.L.S.	T.P.M.
2	3,4	Parcel#2 OLSON, Deleted Parcel # 2B, Deleted Take Parcel # 2A. Revised Const. Case(T), & Culvert Angle, Added Slope Rt. (T) Per Revised Design & C.O.# 5632	11-4-82	B.A.M.	EKF

MADE BY: B.A.M. DATE 3/10/82

CHECKED BY: J.D.P. DATE 3/10/82

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 DATE 3-19-82
CHIEF OF PLANS & TITLES

PROJECT PLYMOUTH
NO. RS 0149 (2)
SHEET 3/5 OF 4/49

ROW

BEGIN R.O.W. PROJECT
RS 0149 (2) STA. 394+63 ℄

POT 394+50.0 TAYLOR, GARDNER & DORA

394+63 40' LT.

Vt. Rte 100-A 35% To Plymouth

396+48 5 18" CMP Remove

396+77 Rt — 397+50 Lt New 18"x 88' ACCMP at 4

STATE OF VERMONT
AGENCY OF ENVIRONMENTAL CONSERVATION
FOREST, PARKS AND RECREATION DEPT.

1A 398+78.45 END BRIDGE RESUME ROADWAY

IA IB 1B 2A 3 4A 4B

29.45' 10"yB 3Stp 2"yB 3Stp 45.93' 12M Stp

S 75° 30' E

396+93 24' LT.

M POT 396+35.00 = ℄ POT 10+00.00 Δ = 23° Rt

CONST. EASE (T) CONST. EASE (LT) CONST. EASE (T)

395+20 56' RT.

397+85 40' LT.

398+50 25' LT.

398+50 ℄ 398+69 ℄ 399+00 25' RT.

CURVE N°1
Δ = 81°00' Lt
D = 19°
R = 302.9'
T = 257.6'
L = 420.3'
E = 93.0'
Bank .073

PC 399+71.1

PT 403+97.4

18" RCP @ 6.8% 11' RT

402+05

POC 402+50

401+00 ℄

OLSON, ROBERT G. & MILDRED A.

1.25 WF Ho

398+69 24' RT.

398+69 50' RT. 7.55

STA 398+94.55 STOP ROADWAY — BEGIN BRIDGE

399+00 33' RT.

399+50 110' RT. Hollow Brook

COOLIDGE, JOHN

401+00 50' RT.

BM #45 28' Lt Sta 398+94 S.I.R. 12" Spruce Elev 1287.55

BM #46 76' Rt Sta 398+68 Chiseled on old wing Elev 1286.95

BM #46-A. 28' Lt Sta 408+48 S.I.R. 15" Maple Elev 1278.34

PI 406+50.0 406+33.5 W35°E

38.21' 18.00'

406+48 18" CMP

PT 407+63.2

CURVE N° 2
Δ = 11° 45' Rt
D = 8°
R = 716.20'
T = 73.7'
L = 146.9'
E = 3'

N 22°00' E 406

403 N 22°00' E

406+31 16" CMP

Guardrail Standard Steel Beam With Wood Posts Type II

Lt 397+07 — 397+07

Rt 397+13 — 397+74

Removal and Disposal of Existing Guardrail

Lt 398+00 — 398+71

Rt 397+45 — 397+19

Rt 395+60 (Removed) 397+00

Present Bridge Data
RCB 4'h x 6'w' Mono. floor
Total length along skew angle 32.0' 24.0'
Roadway width
Box in poor condition

GENERAL NOTE:
Drives are to be constructed with a minimum width of 14' and a flair radius of at least 20 feet unless other wise noted, or as directed by the Engineer.

END R.O.W. PROJECT
RS 0149 (2) STA. 401+50 ℄

PT 402+28.70 = 401+39.80

396+00 Construct Satisfactory Approach Begin Project RS 0149(2)

End Project RS 0149(2) 399+71 Construct Satisfactory Approach

1300 1290 1280 1270

3.2000%

-1.4250%

395+50 1294.20 L=100' K=57

-3.5333%

399+50 1288.30 L=130 K=63 SSD=388

-1.0000%

401+00 1283.00 L=160 K=63

394 395 396 397 398 399 400 401 402 403 404 405 406 407 408

PLYMOUTH
VT. 100-A Br. #3
RS 0149 (2)

K-E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.

SHEET 4 OF 4

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, R/W OF WAY CHECKED, NOTE BOOK, NO. — BY Allen Hopkins — DATE 11/72

101-E — SURVEYED, PLOTTED, CROSS SECTIONS CHECKED, BL. M'S NOTED, STRUCTURE NOTATIONS CH'KED — BY Goodie Hopkins — DATE 11/72

P.O.T. 394+30.0
V.T. Rte 100-A 394
To Plymouth

394+48.5 15" CMP Remove

398+77 Rt - 397+50 Lt
New 18"x68" Accompcd4

POT 398+69.0 =
CHAN 5+00.0

TOPSOIL
Rt
396+41 ~ 398+69 (See ROW Special Agreements)

BM #A6-A.
28' Lt Sta 408+48
S.I.P. 15" Maple
Elev. 1278.34

PT 406+90.0
406+89.5

Mount on 18'-3" Flanged Channel post at 409+50± Lt

N

Magnetic 1973

STA 398+78.45
END BRIDGE RESUME ROADWAY

PT 403+97.4

PC 399+71.1

NI POT 398+35.00 =
℄ POT 10+00.00
Δ = 23° Rt

CURVE N°1
Δ = 81°00' Lt
D = 19°
R = 301.6
T = 257.6
L = 426.3
E = 95.0
Bank .064

CURVE N° 2
Δ = 11°45' Rt
D = 8°
R = 716.20'
T = 73.7'
L = 146.9'
E = 5'

PT 407+63.2

PT 406+16.3

18" R.C.P. @ 68.11' Rt Betwn

Flood Bound

N 23° 30' E 406

402+05

406+31 18" C.M.P.

408+48 18" C.M.P.

Existing location

New location

Relocate existing sign at 393+00± Rt on 18'-3" Flanged channel post. Add advisory speed sign. See sheet 8 of 49 for sign details.

123 WFHo. UNDERGROUND T.V. CABLE

6" UNDERDRAIN SLEEVE

4" PVC WATER PIPE

Pond

Woods

Ledge

End Ledge

STA 398+47.55
STOP ROADWAY ~ BEGIN BRIDGE

POC 402+50.0

GRAVEL DRIVE

Hollow Brook

BM # 45
65' Lt Sta 398+94
S.I.P. 12" Spruce
Elev 1287.55

BM # 46
16' Rt Sta 396+68
Chiseled on old Wing
Elev 1286.95

PI. 402+28.70 =
401+39.80

401+50
End Approach

396+00
End Approach. Begin Project RS 0149(2)

399+71
End Project RS 0149(2) Begin Approach

395+00
Begin Approach

Guard Rail, Heavy Duty Steel Beam With Wood Posts, Type II

Lt	Rt
397+94.5 ~ 398+19.5	398+44 ~ 398+69
398+57 ~ 398+82	399+06.5 ~ 399+31.5

Construct Drive

Rt
395+60 (Paved)
397+00 (Paved)

Guardrail, Standard Steel Beam With Wood Posts Type II

Lt	Rt
397+08 ~ 397+94.5	397+20 ~ 398+44
398+82 ~ 399+06	399+31.5 ~ 399+68

Removal and Disposal of Existing Guardrail

Lt	Rt
~~398+00~~ 397+71	398+71

Rt
398+66 ~ 399+~~17~~

Present Bridge Data
RCB 4'h x 8'w Wood floor
Total Length along skew angle 32.0'
Roadway width ~~24.0'~~
~~Box in poor condition~~

GENERAL NOTE:
Drives are to be constructed with a minimum width of 14' and a flair radius, of at least 20 feet unless other wise noted, or as directed by the Engineer.

Scale (Feet)
0 50 100

Scales in Feet
0 5 10 15 20

395+50
1294.20
L=100'
K=5.8

399+50
1288.30
L=130
K=63
SSD=388

401+00
1283.00
L=160
K=63

-3.2000%
-1.4750%
-3.5333%
-1.0000%

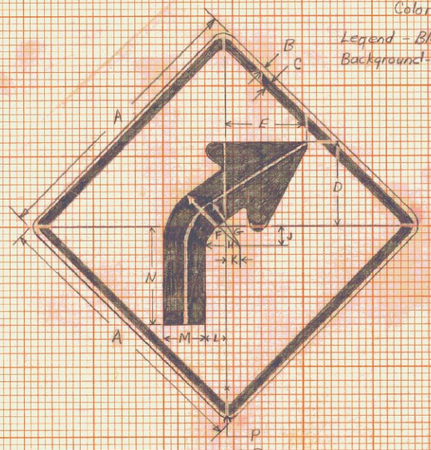
1300 1290 1280 1270

394 +50 395 +50 396 +50 397 +50 398 +50 399 +50 400 +50 401 +50 402 +50 403 +50 404 +50 405 +50 406 +50 407 +50 408 +50

1295.6 1295.8 1294.2 1293.9 1292.0 1291.1 1290.1 1289.0 1288.0 1287.1 1286.9 1285.0 1284.1 1283.4 1282.6 1281.9 1281.5 1281.0 1280.3 1280.1 1279.5 1279.1 1278.6 1278.3 1277.5 1276.9 1276.0 1276.5 1278.1

PLYMOUTH
VT. 100-A Br. #3
RS 0149 (2)

PLATE 1. PLAN-PROFILE
REEVES & EDDY CO.



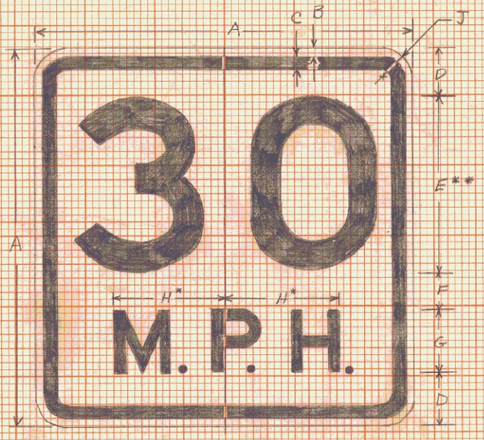
W1-2R

SIGN	DIMENSIONS (INCHES)														
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	
STD	30	1/2	3/4	18	7/8	9	1/16	10	7 1/2	5	2 1/2	1 5/16	2 3/8	3 7/16	4 3/8	10	5 3/4	1 1/8

Colors

Legend - Black (Non-Refl)

Background - Yellow (Refl)



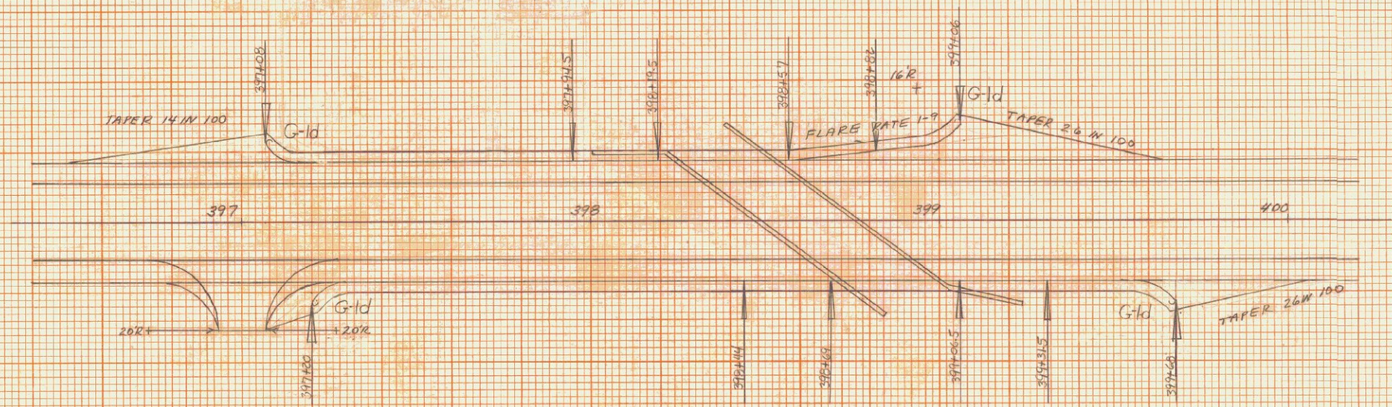
W13-1

SIGN	DIMENSIONS (INCHES)								
	A	B	C	D	E	F	G	H	J
STD	18	3/8	5/8	2-1/2	8 5	2	3 E	5-3/16	1-1/2

See Standard E-19 for material specifications

* Increase spacing 100%

** Optically space numerals about vertical center line



GUARD RAIL DETAIL

Scale 1"=20'

Guard Rail, Heavy Steel Beam With Wood Posts, Type II : Item 621.30
(Note: See Standard SB-R6-82, Schedule 1)

397+94.5 Lt ~ 398+19.5 Lt — 25'
398+57 Lt ~ 398+82 Lt — 25'
398+44 Rt ~ 398+69 Rt — 25'
399+06.5 Rt ~ 399+31.5 Rt. — 25'

Guard Rail, Standard Steel Beam with Wood Posts, Type II Item 621.28

397+08 Lt ~ 397+94.5 Lt — 87.5'
398+82 Lt ~ 399+06 Lt — 25'
399+20 Rt ~ 398+44 Rt — 125'
399+31.5 Rt ~ 399+68 Rt — 37.5'

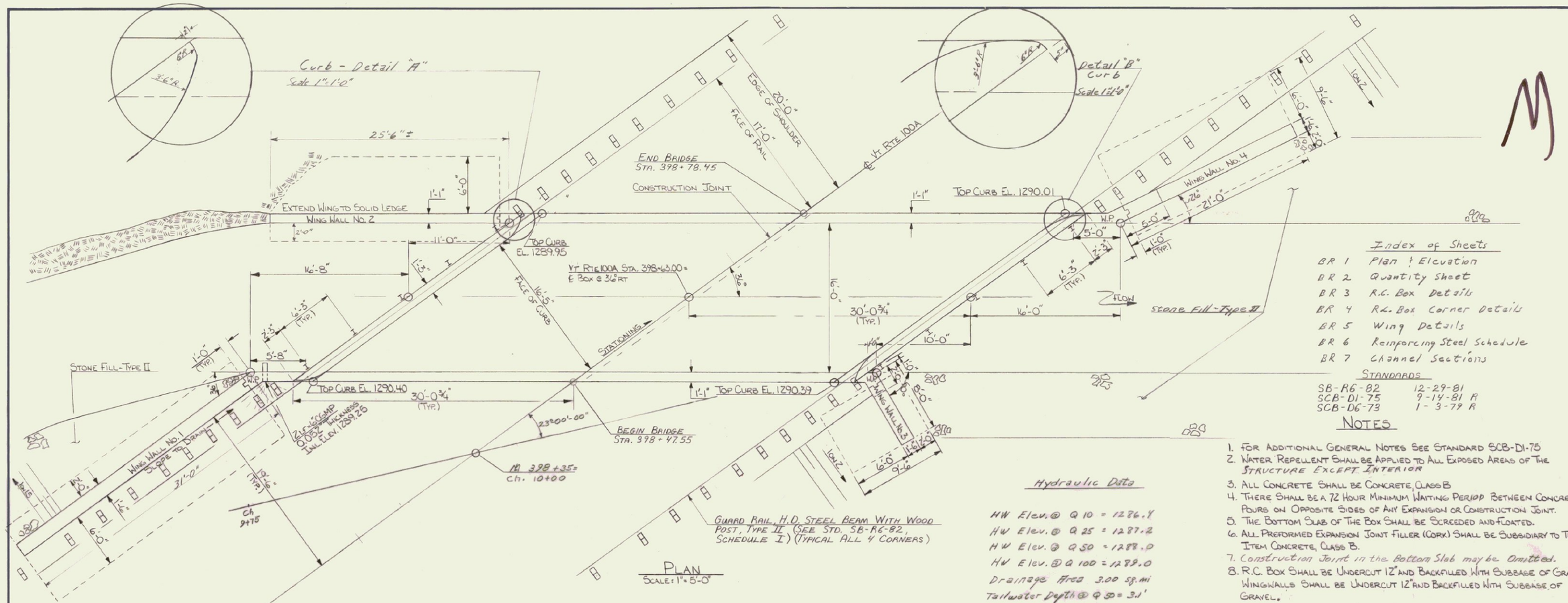
Bridge Railing, Heavy Duty Steel Beam Item 617.35

398+19.5 Lt ~ 398+57 Lt — 37.5'
398+69 Rt ~ 399+06.5 Rt — 37.5'

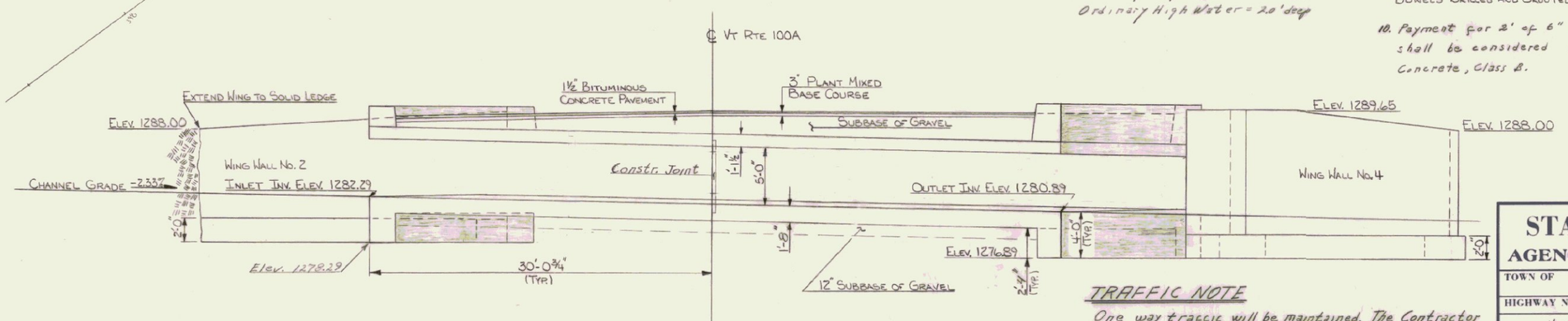
PLYMOUTH
RS 0149 (2)

Sheet 8 of 49

FINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
NOTE BOOK
NO.
BY
DATE



PLAN
SCALE: 1"=5'-0"



ELEVATION
SCALE: 1"=5'-0"

Hydraulic Data

HW Elev. @ Q 10 = 1286.4
HW Elev. @ Q 25 = 1287.2
HW Elev. @ Q 50 = 1288.0
HW Elev. @ Q 100 = 1288.0
Drainage Area 3.00 sq. mi
Tailwater Depth @ Q 50 = 3.1'
Outflow Velocity @ Q 50 = 12.0 f.p.s.
Ordinary High Flow = 10.0 c.f.s.
Ordinary High Water = 2.0' deep

Index of Sheets

BR 1	Plan & Elevation
BR 2	Quantity Sheet
BR 3	R.C. Box Details
BR 4	R.C. Box Corner Details
BR 5	Wing Details
BR 6	Reinforcing Steel Schedule
BR 7	Channel Sections

Standards

SB-R6-82	12-29-81
SCB-D1-75	9-14-81 R
SCB-D6-73	1-3-79 R

Notes

1. For additional General Notes see Standard SCB-D1-75
2. Water Repellent Shall be Applied to All Exposed Areas of the Structure Except Interior
3. All Concrete Shall be Concrete, Class B
4. There Shall be a 72 Hour Minimum Waiting Period Between Concrete Pours on Opposite Sides of Any Expansion or Construction Joint.
5. The Bottom Slab of the Box Shall be Screeded and Floated.
6. All Preformed Expansion Joint Filler (Cork) Shall be Subsidiary to the Item Concrete, Class B.
7. Construction Joint in the Bottom Slab may be Omitted.
8. R.C. Box Shall be Undercut 12" and Backfilled with Subbase of Gravel. Wingwalls Shall be Undercut 12" and Backfilled with Subbase of Gravel.
9. Wing Wall No. 2 to be Extended to Solid Ledge and Connected with Dowels Drilled and Grouted into Ledge.
10. Payment for 2' of 6" CGMP used in Wing #1 shall be considered subsidiary to Item 50425 Concrete, Class B.

Traffic Note

One way traffic will be maintained. The Contractor shall have the option of either constructing the box one-half at a time & maintaining traffic in the existing roadway right-of-way or obtaining right of way and constructing an approved detour outside of the work area. For either option payment will be made under Item 637.10 - Maintenance of Traffic for Bridge Projects, 1 Lump Sum.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF PLYMOUTH	Bridge No. 3
HIGHWAY NO. VT. RTE. 100A	Log Sta.
	Surv. Sta. 398+63.00
VT. RTE. 100A OVER HOLLOW BROOK	
PLAN AND ELEVATION	
Designed by R. ALDRICH	Drawn by W. FLANDERS
Checked by Dave Willey date 6-28-82	Bridge Design Supervisor R.L. Oatley date 7-82
PROJECT PLYMOUTH	PROJECT NO. RS 0149 (2)
Bridge Sheet No. BR 1	Sheet 9 of 44

EARTHWORK

V.C.	% GRD	STATION	ELEVATION ON TAN.	ELEVATION ON V.C.	CORR. V.C.	DIST.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
GRADES														

BRIDGE QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION
STRUCTURES DIVISION

NO.	ITEM	UNIT	QUANTITY BREAKDOWN												TOTAL	FINAL
				R.C. Box	Wing Wall #1	Wing Wall #2	Wing Wall #3	Wing Wall #4								
202.30	Partial Removal of Structure	L.S.													1	1
203.27	Unclassified Channel Excavation	C.Y.													320	394
204.25	Structure Excavation	C.Y.													570	558
204.30	Granular Backfill for Structures	C.Y.													210	186
301.15	Subbase of Gravel	C.Y.													70	88
406.25	Bituminous Concrete Pavement	ton		ROADWAY QUANTITY											6	
501.25	Concrete Class B	C.Y.		178	38	25	9	25							275	275
507.15	Reinforcing Steel	lb.		38164	2945	2396	792	2013							46310	51844
514.10	Water Repellent	Gal.		4	2	2	1	1							10	10
613.11	Stone Fill - Type II	C.Y.													225	269.1
617.35	Bridge Railing-Heavy Duty Steel Beam	L.F.													75	75
637.10	Maintenance of Traffic for Bridge Projects	L.S.													1	1

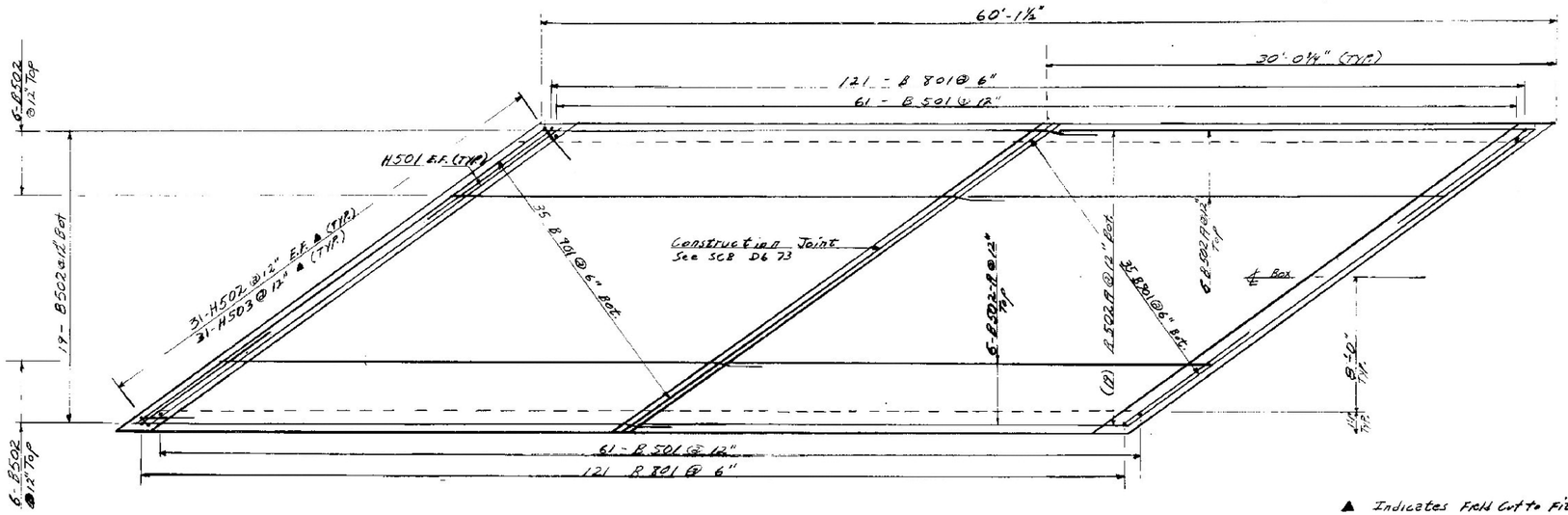
BRIDGE (S) AT STATION (S) 398+63 Vt. Rte. 100A
LOCATION (S)

Prepared by: W. Jervis
Checked by: G. SCHELLEY
SUPERVISOR: R. L. Oatley 7-82

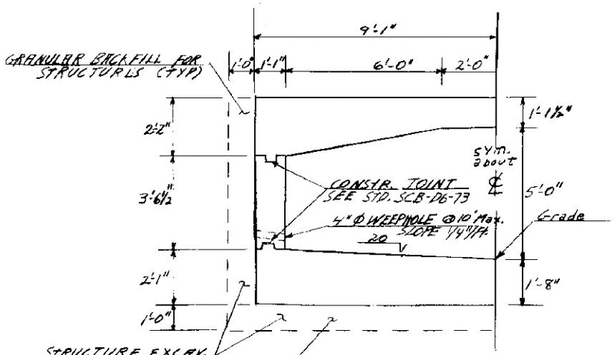
PROJECT NO. Plymouth RS0149(2)
BR 2 OF 7
SHEET NO. 10 OF 49

BRUNING 44-131-40151

BR-1

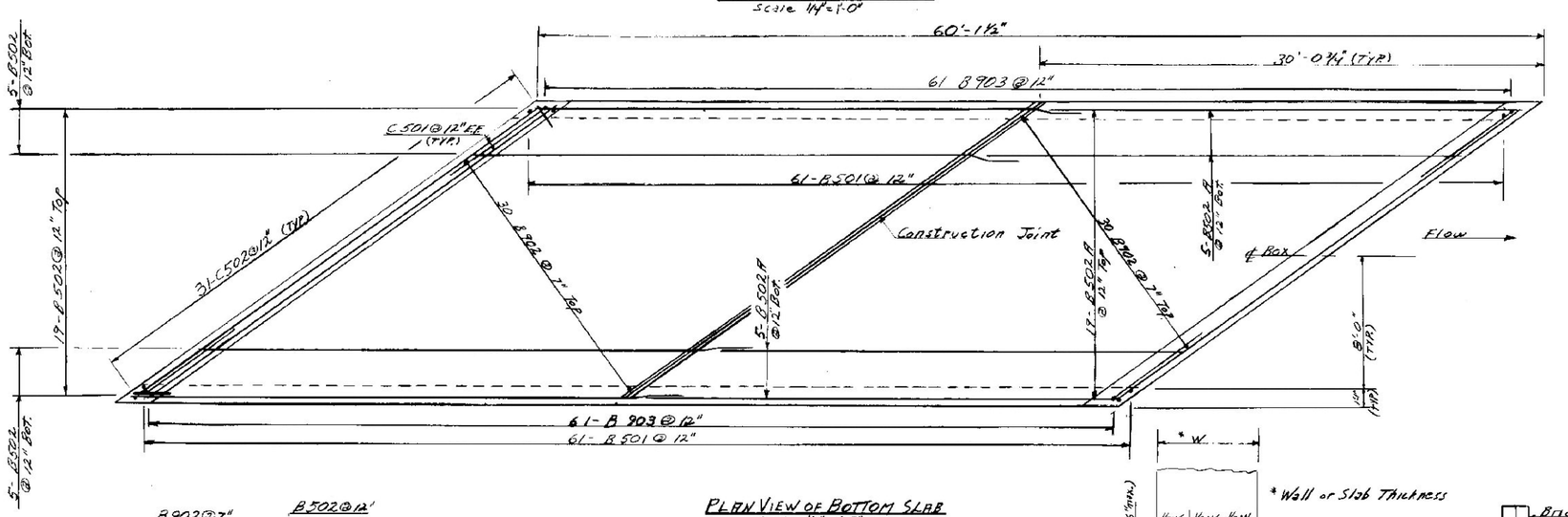


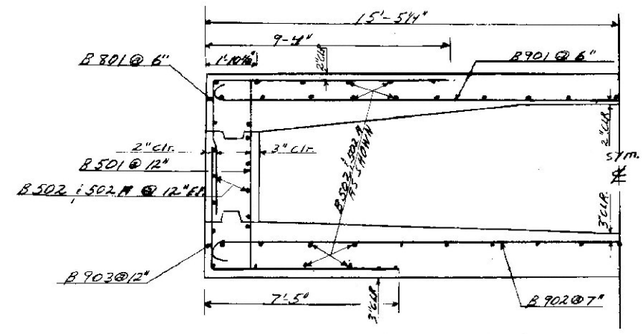
▲ Indicates Field Cut to Fit



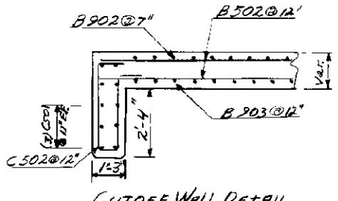
TYPICAL BOX ½ SECTION NORMAL TO BOX ℄
Scale 3/8"=1'-0"

PLAN VIEW OF TOP SLAB
Scale 1/4"=1'-0"



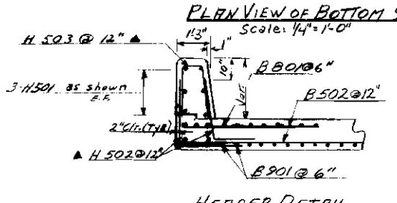


TYPICAL BOX ½ SECTION SKEWED TO BOX ℄
Scale 3/8"=1'-0"

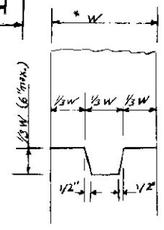


CUTOFF WALL DETAIL
Scale 3/8"=1'-0"

PLAN VIEW OF BOTTOM SLAB
Scale: 1/4"=1'-0"

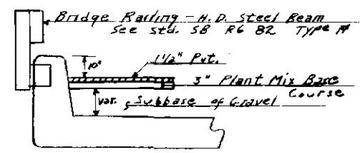


HEADER DETAIL
Scale 3/8"=1'-0"



* Wall or Slab Thickness

CONSTRUCTION JOINT DETAIL
N.T.S.



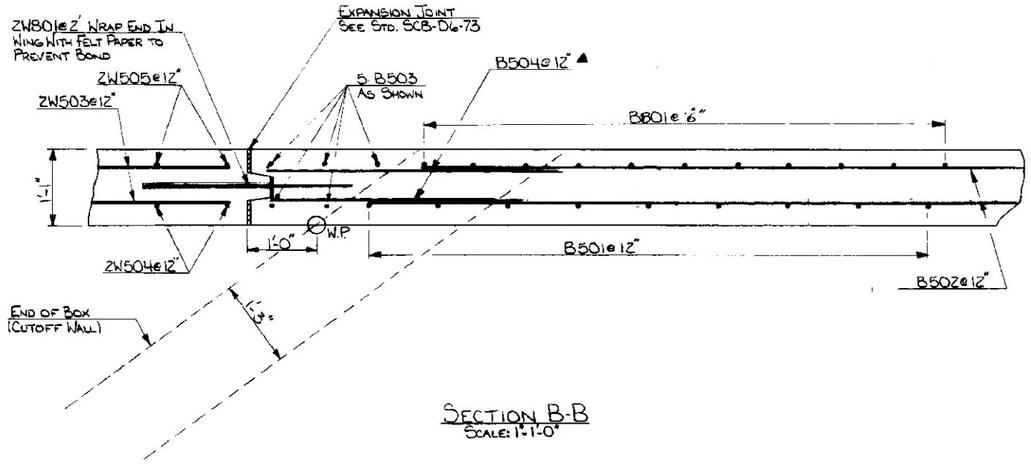
RAILING DETAIL
Scale 3/8"=1'-0"

STATE OF VERMONT
AGENCY OF TRANSPORTATION

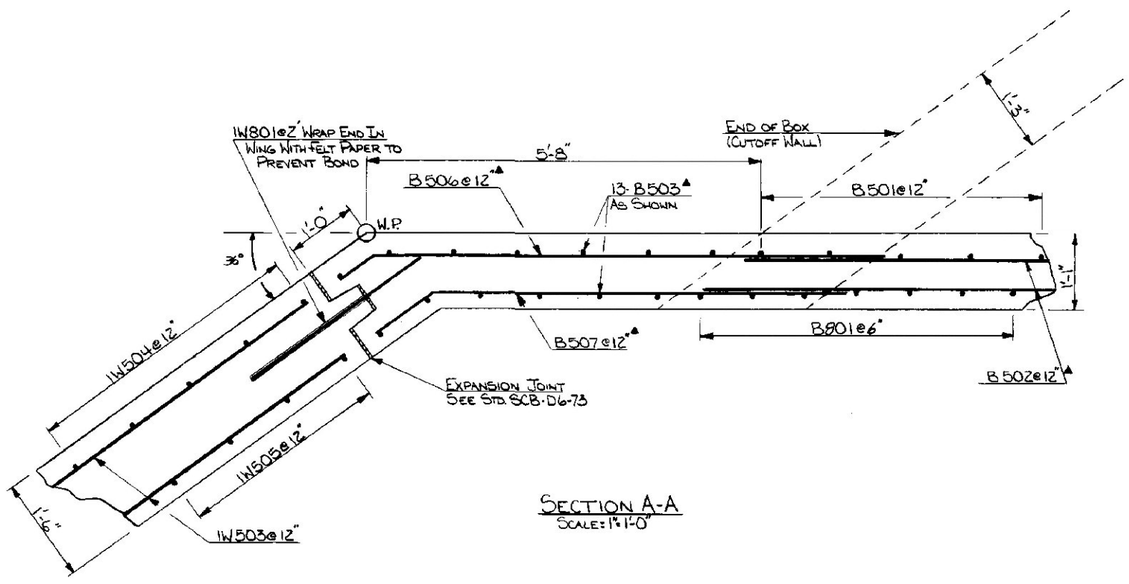
TOWN OF PLYMOUTH	Bridge No. 3
HIGHWAY NO. VT. RTE. 100A	Log Sta. Surv. Sta. 398+63.00
VT. RTE. 100A OVER HOLLOW BROOK	
R.C. BOX REINFORCING DETAILS	
Designed by W. JARVIS	Drawn by W. JARVIS
Checked by DAVE WILLEY date 6-28-82	Bridge Design Supervisor P.L. Ooflay date 7-82
PROJECT PLYMOUTH	PROJECT NO. RS 0149(2)
Bridge Sheet No. BR 3	Sheet 11 of 49

BRUNING 44-137 40151

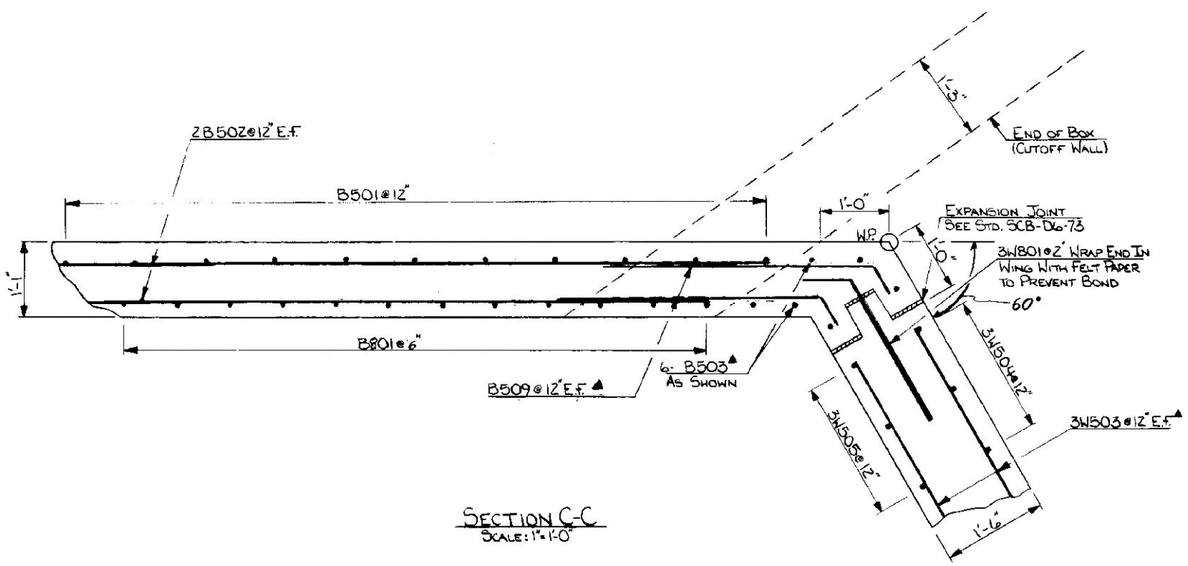
BR-6



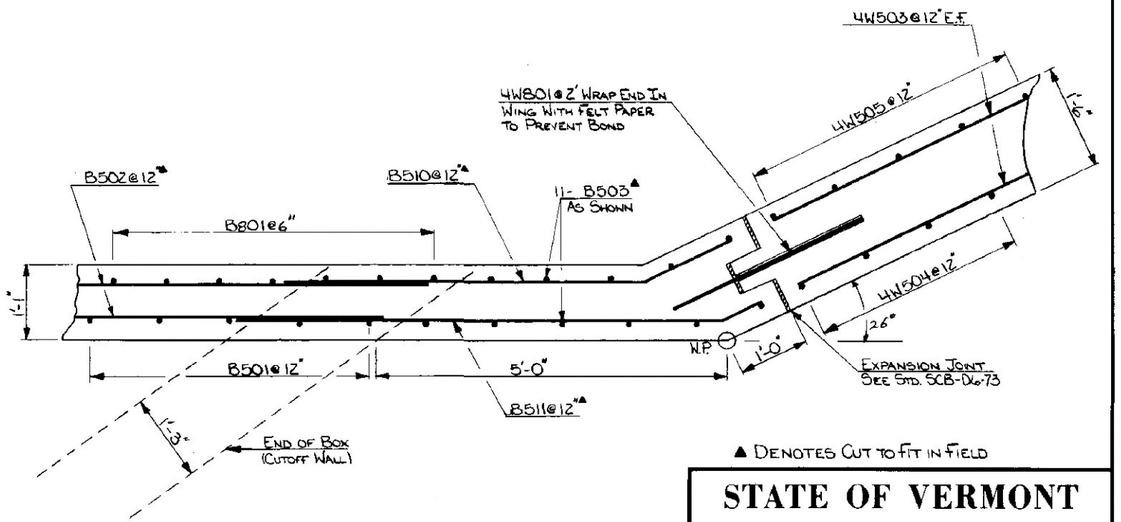
SECTION B-B
SCALE: 1"=1'-0"



SECTION A-A
SCALE: 1"=1'-0"



SECTION C-C
SCALE: 1"=1'-0"



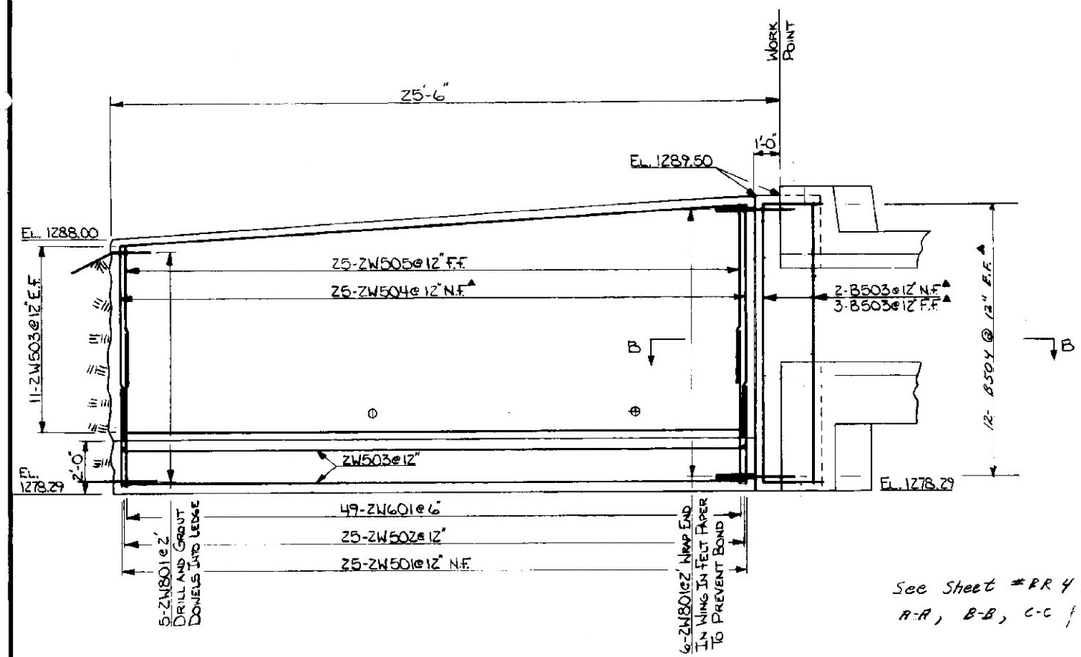
SECTION D-D
SCALE: 1"=1'-0"

▲ DENOTES CUT TO FIT IN FIELD

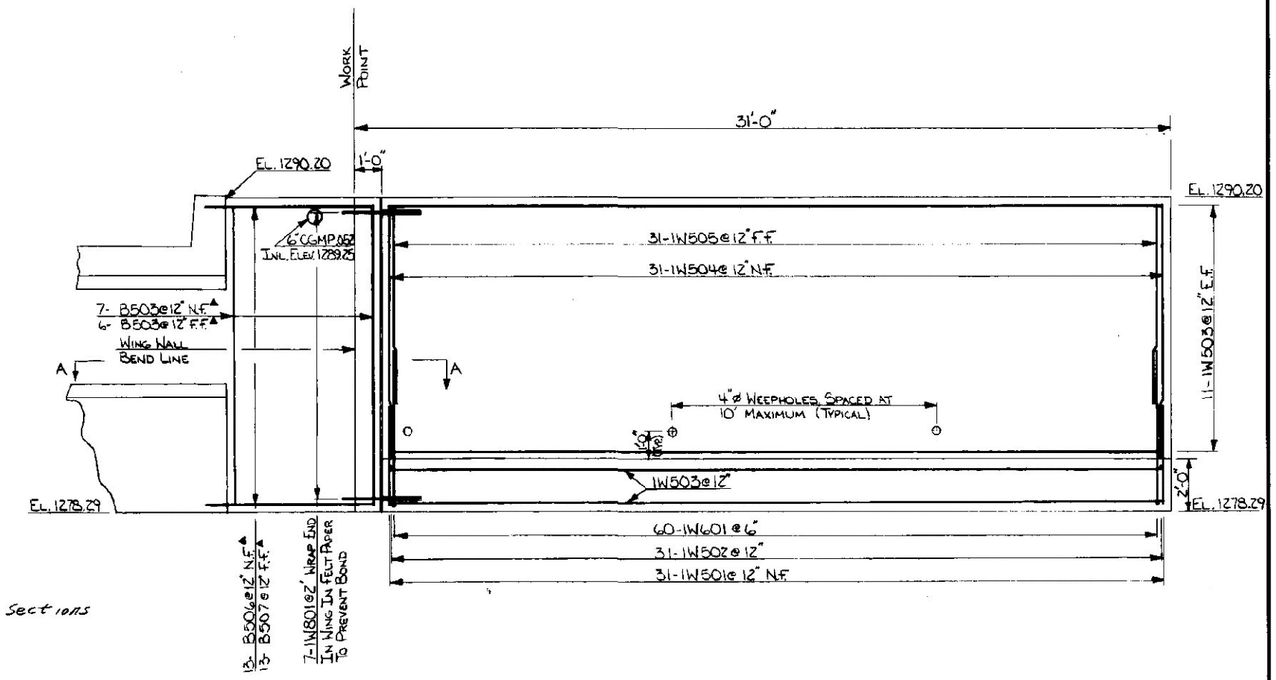
See Sheet # BR5 for Location of Sections A-A, B-B, C-C & D-D

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF PLYMOUTH	Bridge No. 3
	Log Sta.
HIGHWAY NO. VT. RTE. 100A	Surv. Sta. 398+63.00
VT RTE. 100A OVER HOLLOW BROOK	
CORNER REINFORCING DETAILS	
Designed by R. ALDRICH	Drawn by W. FLANDERS
Checked by G. SCHELLEY date 6-82	Bridge Design Supervisor R.L. Oakley date 7-82
PROJECT PLYMOUTH	PROJECT NO. RS 0149 (2)
Bridge Sheet No. BR 4	Sheet 12 of 45

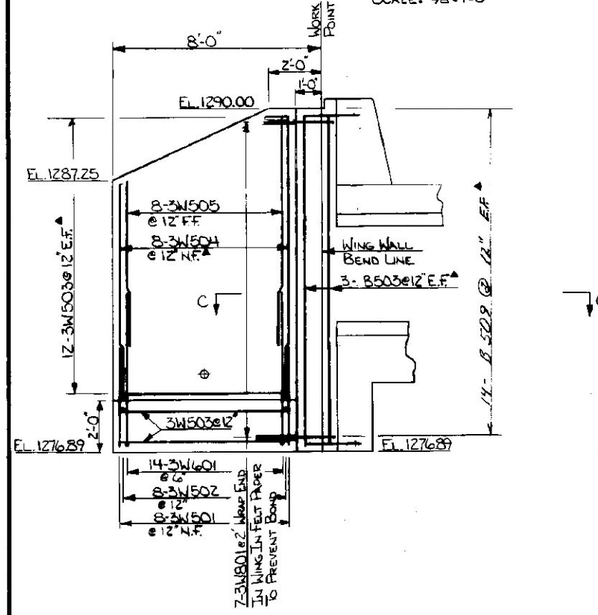


See Sheet #RR 4 For Sections A-A, B-B, C-C & D-D



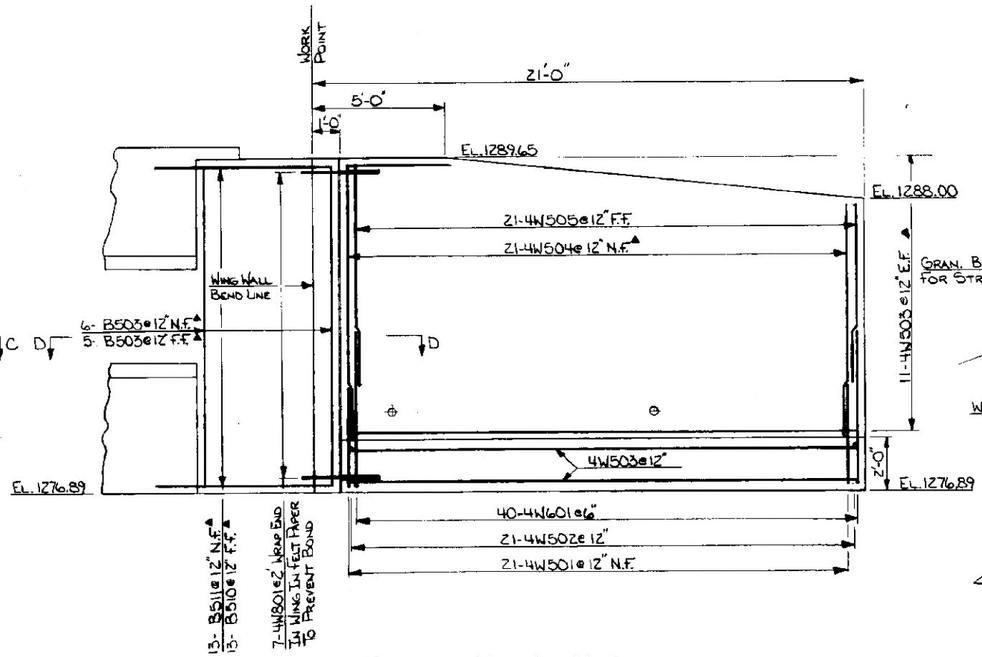
Elevation Wing Wall No. 2

Scale: 3/8" = 1'-0"



Elevation Wing Wall No. 3

Scale: 3/8" = 1'-0"



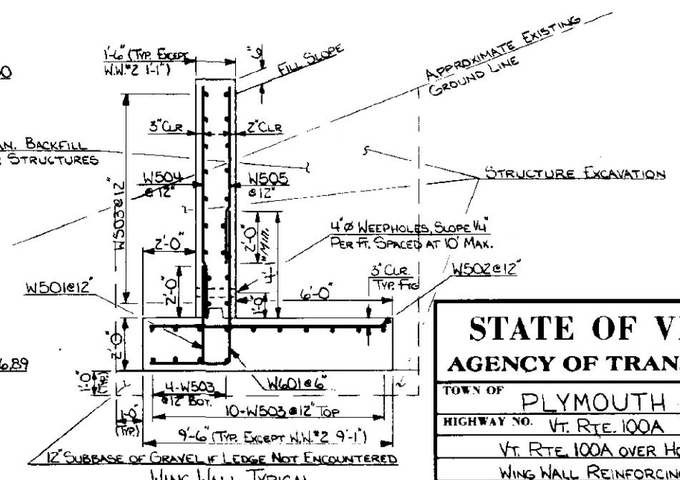
Elevation Wing Wall No. 4

Scale: 3/8" = 1'-0"

Elevation Wing Wall No. 1

Scale: 3/8" = 1'-0"

▲ Denotes Cut to Fit in Field



Wing Wall Typical

Scale: 3/8" = 1'-0"

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF PLYMOUTH	Bridge No. 3
	Log Sta.
HIGHWAY NO. VT. RTE. 100A	Surv. Sta. 398-63.00
VT. RTE. 100A OVER HOLLOW BROOK	
WING WALL REINFORCING DETAILS	
Designed by R. ALDRICH	Drawn by W. FLANDERS
Checked by G. SCHELLEY date 6-82	Bridge Design Supervisor R.L. Oatley date 7-82
PROJECT PLYMOUTH	PROJECT NO. RS 0149 (2)
Bridge Sheet No. BR 5	Sheet 13 of 49

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
1																	
2																	
3				*Cut off Walls*													
4																	
5	12	5	30-4	C 501	Str.												
6	62	5	8-11	C 502	S5	1-0	3-6	0-9	2-8			1-0					
7																	
8																	
9				*Headers*													
10																	
11	12	5	30-4	H 501	Str.												
12	▲ 124	5	4-6	H 502	S10		3-6	1-0									
13	▲ 62	5	3-9	H 503	S10		1-6	0-9	1-6								
14																	
15																	
16				*R.C. Box*													
17																	
18	* 123	5	7-4	B 501	Str.												
19	74	5	32-0	B 502	Str.												
20	74	5	29-8	B 502A	Str.												
21	▲ 35	5	12-8	B 503	Str.												
22	▲ 13	5	7-11	B 506	19		0-7	7-4					0-4⅜		0-5⅜		
23	▲ 13	5	7-0	B 507	19		1-0	6-0					0-7		0-9¾		
24																	
25	20	5	4-0	B 509	19		0-6	3-6					0-5¾		0-3		
26	▲ 13	5	6-6	B 510	19		1-4	5-2					0-7		1-2¾		
27	▲ 13	5	7-7	B 511	19		0-7	7-0					0-3		0-6¾		
28	▲ 24	5	4-3	B 504	Str.												
29																	
30																	
31	242	8	14-8	B 801	17		9-2	5-4									
32	70	9	32-10	B 901	1	1'-3	30-4					1-3					
33	* 61	9	32-10	B 902	1	1'-3	30-4					1-3					
34	* 122	9	12-5	B 903	17		7-3	5-2									
35																	
36																	
37																	
38																	
39																	
40				*Wing Wall #1*													
41																	
42	* 31	5	3-9	1W501	Str.												
43	31	5	9-0	1W502	Str.												
44	36	5	29-6	1W503	Str.												
45	31	5	9-7	1W504	Str.												
46	31	5	7-6	1W505	Str.												
47																	
48	* 61	6	8-11	1W601	17		5-10	3-1									
49																	
50	7	8	3-0	1W801	Str.												
51																	
52																	
53																	
54																	
55				*Wing Wall #2*													
56																	
57	25	5	3-9	2W501	Str.												
58	25	5	8-7	2W502	Str.												
59	36	5	24-0	2W503	Str.												
60	▲ 25	5	8-11	2W504	Str.												
61	25	5	6-10	2W505	Str.												
62																	
63	42	6	8-6	2W601	17		5-10	2-8									
64																	
65	12	8	3-0	2W801	Str.												
66																	
67																	
68																	
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77																	
78																	
79																	
80																	

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
81																	
82																	
83				*Wing Wall #3*													
84																	
85	8	5	3-9	3W501	Str.												
86	8	5	9-0	3W502	Str.												
87	▲ 38	5	6-6	3W503	Str.												
88	▲ 8	5	10-10	3W504	Str.												
89	8	5	8-9	3W505	Str.												
90																	
91	* 15	6	8-11	3W601	17		5-10	3-1									
92																	
93	* 8	8	3-0	3W801	Str.												
94																	
95																	
96																	
97																	
98				*Wing Wall #4*													
99																	
100	21	5	3-9	4W501	Str.												
101	21	5	9-0	4W502	Str.												
102	36	5	12-6	4W503	Str.												
103	▲ 21	5	10-5	4W504	Str.												
104	21	5	8-4	4W505	Str.												
105																	
106	40	6	8-11	4W601	17		5-10	3-1									
107																	
108	7	8	3-0	4W801	Str.												
109																	
110																	
111																	
112																	
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158																	
159																	
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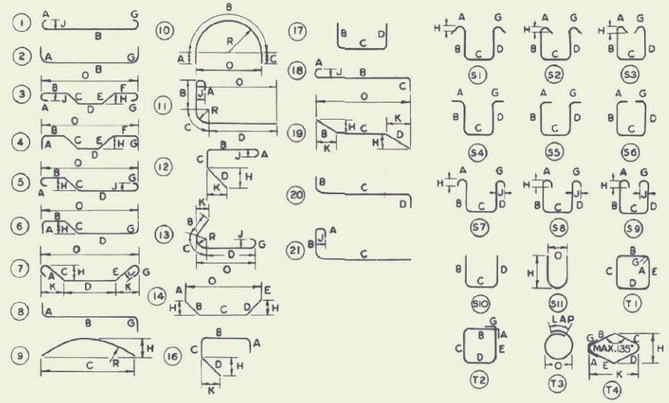
ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
161																	
162																	
163																	
164																	
165																	
166																	
167																	
168																	
169																	
170																	
171																	
172																	
173																	
174																	
175																	
176																	
177																	
178																	
179																	
180																	

ASTM STANDARD REINFORCING BARS

BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	CROSS SECTIONAL AREA SQ. INCHES	PERIMETER INCHES
#3	.376	.375	.11	1.178
#4	.668	.500	.20	1.571
#5	1.043	.625	.31	1.963
#6	1.502	.750	.44	2.356
#7	2.044	.875	.60	2.749
#8	2.670	1.000	.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.990
#11	5.313	1.410	1.56	4.430
#14	7.65	1.693	2.25	5.32
#18	13.60	2.257	4.00	7.09

TYPICAL BAR BENDS



NOTES

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT," AASHTO M 31 (ASTM A615 S1), GRADE 60.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS AND OTHER STANDARD PRACTICE SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE."
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180° AND 135° HOOKS.
5. "J" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45° DIMENSIONS "H" AND "K" MUST BE SHOWN.

▲ Indicates Cut to Fit in Field

* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.

REV. NO.	MADE BY	DATE	DESCRIPTION

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF PLYMOUTH	BRIDGE NO.
HIGHWAY NO. Vt. Rt. 100A	LOG STA.
Vt. Rt. 100 A Over Hollow Brook	SURV. STA.
REINFORCING STEEL SCHEDULE	
DESIGNED BY W. Jarvi	DRAWN BY W. Jarvis
CHECKED BY G. SCHELLEY DATE 6-82	BRIDGE DESIGN SUPERVISOR R.L. Oatley DATE 7-82
PROJECT PLYMOUTH	PROJECT NO. RS 0149 (2)
BRIDGE SHEET NO. BR 6	SHEET 14 OF 49

BRUNING 44-131 40-51

BR-5

FINAL SURVEY — SURVEYED / PLOTTED / NOTE BOOK / TEMPLATE / AREAS / AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — SURVEYED: JMA HEDGES 4-83 / PLOTTED: LPZ THEA 5-83 / LATE BOOK / TEMPLATE / AREAS / AREAS CHECKED — BY — DATE — NO.

STRUCTURE EXCAVATION ITEM NO 204.25

MAIN LINE STA

STA	DIST	W.W.#1 AREA	W.W.#1 VOL	W.W.#2 AREA	W.W.#2 VOL	W.W.#3 AREA	W.W.#3 VOL	W.W.#4 AREA	W.W.#4 VOL	BOX AREA	BOX VOL
397+88.48	11.52	115	1290.24	Butt							
398+0	9.99	109	2058.99								
398+19.99		97		Butt							
		3349.21 Ft³		Total							
9+65	8.0									0	Zero Section
9+65	4.0									23	
9+69	4.0									23	
9+73	0.5			0	Zero Section					23	
9+73.5	1.0			13	3.125					46	
9+74.5	3.5			47	30.0					249.75	
9+78	8.0				51.75					65	
Behind 9+86				42						680	
Ahead 9+86	5.5			44						105	
9+91.5	8.5			Butt 86	204.75					109	
10+0	24.0			Total	745.75					632.50	
10+24	3.5					0	Zero Section			121	
Behind 10+27.5						70	122.5			1096.25	
Ahead 10+27.5	0.5					80	43.75			136	
10+28	5.5					95	481.25			3540	
Behind 10+33.5						57				159	
Ahead 10+33.5	4.5					55	123.75			3747.75	
10+38	14.5					0	Zero Section			104	
10+52.5	1.0					Total Ft³	647.25			1216	
10+53.5	3.0					Zero Sect	0			24	
10+56.5	2.5					283.25	24			24	
10+59	14.5					Ft³	11,524.5			72	Butt
10+73.5	5.0					103	1566.0				
10+78.5						113	282.5				
						Zero Sect	0				

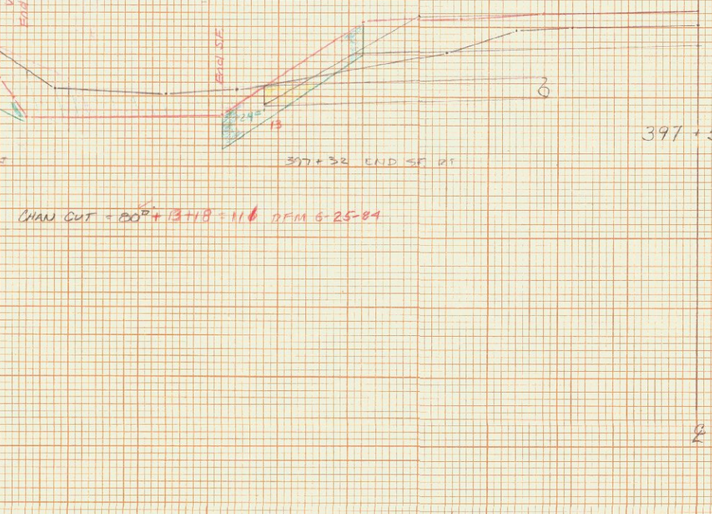
Totals: W.W.#1 3349.21 Ft³ · W.W.#2 745.75 · W.W.#3 647.25 · W.W.#4 2131.75 · Box 11,524.50 · Total 18490.46 (18490 ÷ 27 = 684.8 CY)

Vol of Hole = 4 × 8 × 32.0 ÷ 27 CY/Ft³ = 949.7 CY

Total For Structure = ~~17540~~ 18490 = 684.8 CY

Structure Exc. = 694 CY

Book 1A p. 26 SEP 1-10-84



12/20/83 C.S. Add.

PLYMOUTH
RS 0149(2)
CHAN & STRUCTURE
X SECTIONS
STA 397+87.99 TO 398+19.99

46

SCALE: 1" = 5'

K+E PLATE 3. CROSS SECTION
KEUFFEL & ESSER CO

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
NOTE BOOK		
AREAS CHECKED		
NO.		

UNCLASSIFIED CHANNEL EXC

STA	DIST	AREA FT²	VOL FT³	STA	AREA FT² A	B	C	D	E
397+32		0	770	398+19	3	12	16	4	3
397+50	18.0	110	780						
397+88	38.0	80	2384	9+65	3	24	9	5	4
398+00	12.0	66	2285	AVG					
398+20	20.0	40	792	DIST	15'	12'	8.5'	5.5	2.5	TOTAL
		66	546	FT³					
		51	1140	VOL	45'	24.0'	106.25	27.75	8.75	400.75
		19	390						
		38							
		64							
9+65		45	2108						
	8.5		2295						
9+73.5		9							
	13.5		60.75						
9+87		0							
	SUB TOTAL		5127						
10+08		0							
	5.5		19.25						
10+33.5		7							
	4.5		45.0						
10+38		13							
	15.5		534.75						
10+53.5		56							
	6.5		338.75						
10+59		65							
	17.5		1022.85						
10+76.5		76							
	5.0		400.0						
10+78.5		84							
	21.5		1343.75						
11+0		41							
	25.0		687.5						
11+25		17							
	7.0		98.0						
11+32		14							
	SUB-TOTAL		4485.75						
			10,699.3						

UNCL. CHAN. EXCAVATION ITEM No. 203.27

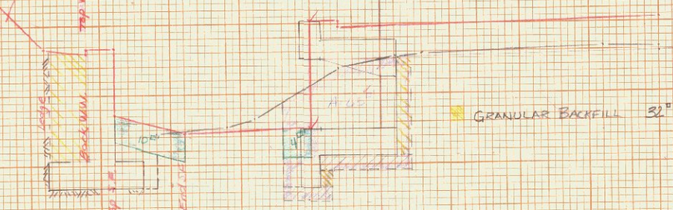
TOTAL FOR VOB 10,699 397.7

5127+4485.25 = 9612.75 FT³/27 = 355.9 CY

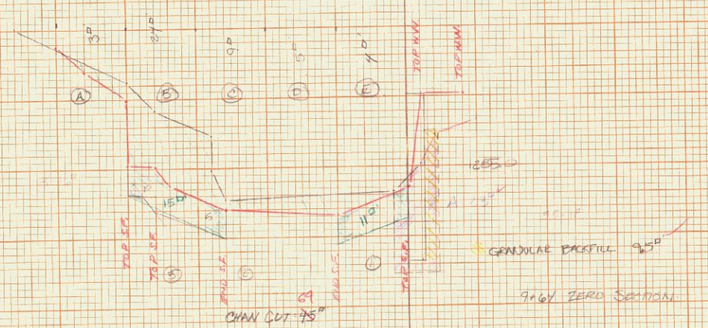
TOTAL = 356 CY. VOL OF EXCAVATION FOR STONE FILL UPSTREAM YET TO BE ADDED IN 397+32 – 398+87 MIDDLE LT

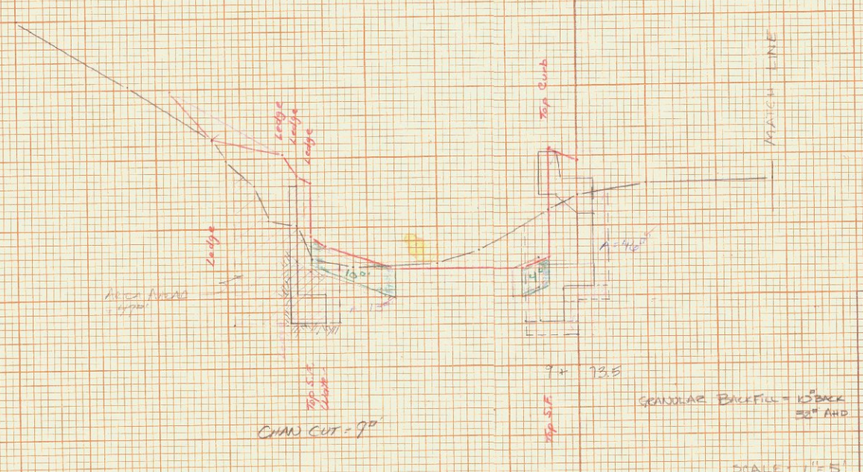
MFM 6-26-84

9+71.5 RT SIDE, INTERPOLATED AS TO STONE FILL. MFM 1-5-84



SURVEYED	BY	DATE
PLOTTED	W.P. Hessert	7/85
TEMPLATE	J.E. Porter	8/85
AREAS		
NOTE BOOK		
AREAS CHECKED		
NO.		





PLYMOUTH
R5049(12)
CHANNEL STRUCTURE
X SECTIONS
9+65 TO 9+78

47

K&E PLATE 3, CROSS SECTION
KEUFFEL & ESSER CO

FINAL SURVEY	BY	DATE
SURVEYED	[illegible]	12/22
PLOTTED	[illegible]	12/22
NOTE BOOK	[illegible]	12/22
AREAS CHECKED	[illegible]	12/22
NO		

ITEM No. 204.30

GRANULAR BACKFILL FOR STRUCTURES

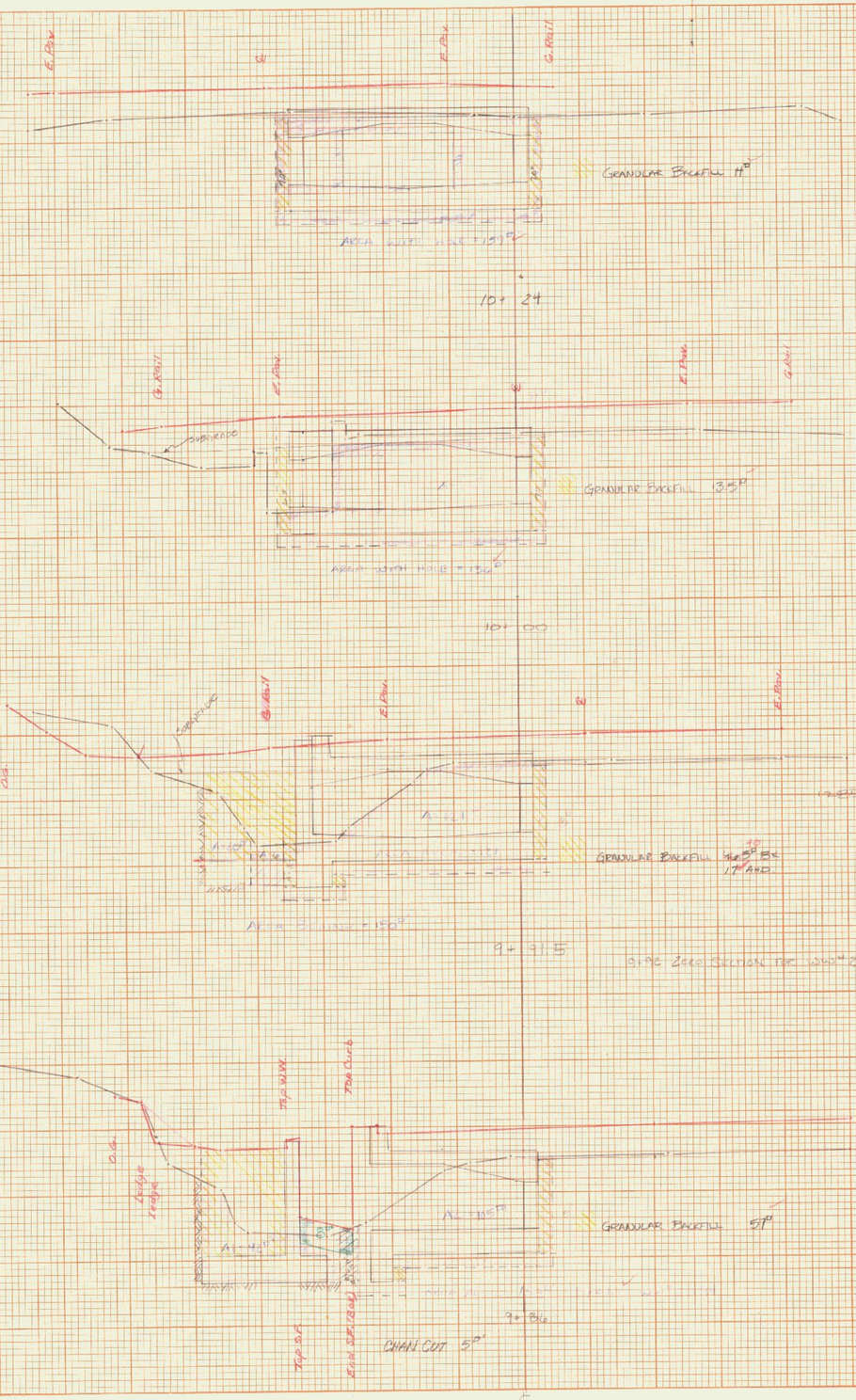
REMARKS	STA	FT DIST	FT² AREA	FT³ VOL
BUTT WALL	397+88		53	
		12		624
	398+00		51	
		20'		1020
BUTT WALL	398+20		51	
	9+65		10 AND	
		8.5		85
'O' WALL #2	9+73.5		10 BACK 35 AHD	
		4.5		144
	9+78		32	
		8		256
	9+86		57	
		5.5		286
'O' WALL #2	9+91.5		47 BACK 17 AHD	
		8.5		131.75
	10+00		14	
		24		336
'O' WALL #3	10+24		14	
		4		218
	10+28		95	
		5.5		385.5
	10+33.5		27	
		4.5		55.25
'O' WALL #3	10+38		10	
		15.5		155.0
'O' WALL #4	10+53.5		10	
		5.5		148
	10+59		62	
		14.5		891.75
	10+73.5		61	
		5.0		152.5
'O' WALL #4	10+78.5		0	
		TOTAL		5016.75

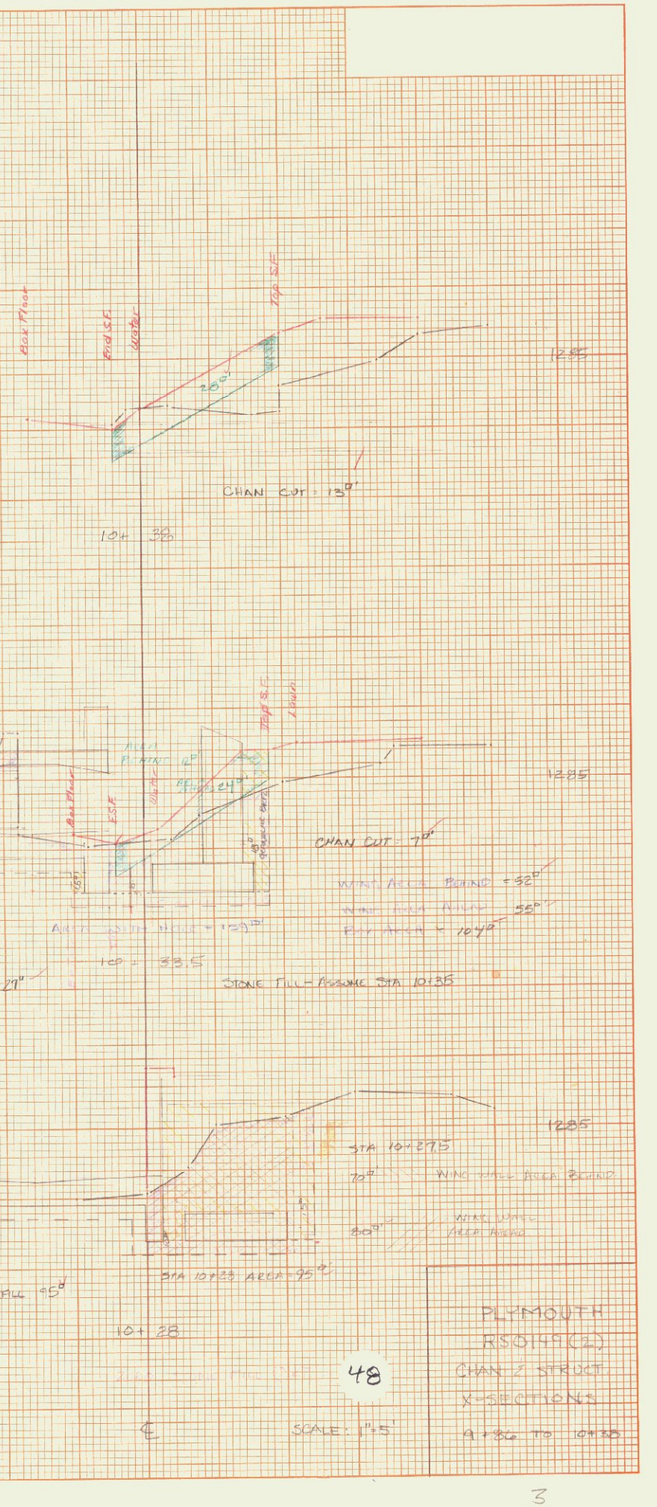
GRANULAR BACKFILL FOR STRUCTURES

TOTAL = 5016.75/27 = 185.8 CY

TOTAL = 7080 CY

ENLARGEMENT OF EXCAVATION = 26.3 %





JOB	BY	DATE
SURVEYED	[illegible]	12/22
PLOTTED	[illegible]	12/22
NOTE BOOK	[illegible]	12/22
AREAS CHECKED	[illegible]	12/22
NO		

PLYMOUTH
RSGHS(E2)
CHAN & STRUCT
X-SECTIONS
9+80 TO 10+35

SCALE: 1"=5'

48

3

K&E PLATE 3, CROSS SECTION
KEUFFEL & ESSER CO

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		

STONE FILL UPSTREAM FROM BOX

STA	DIST	AREA	VOL
397+32			
+50	18		
397+68	38		
	12		
398+0			
398+20	20		
9+65			
+73.5	8.5		
+78	4.5		
+86	8		
+91.5	5.5		

BEHIND AHEAD

STONE FILL DOWNSTREAM FROM BOX

	STA	DIST	LT AREA	LT VOL	RT AREA	RT VOL
ZERO SECTION RT	10+28				0	
		7				84.0
	+35				24	
		3				78.0
	+38				28	
		15.5				486.0
ZERO SECTION LT	+53.5		0		36	
		5.5		19.25		198.0
	+59		7		36	
		14.5		271.5		500.25
	+73.5		31		35	
		5.0		162.5		160.0
	+78.5		34		31	
		21.5		660.5		622.5
	11+0		28		27	
		25		700.0		462.5
	+25		28		10	
		7		196.0		70
BUTT RT	+32		28		10	
BUTT LT	+33	1	28	28.0	TOTAL RT	2672.25 FT³

TOTAL LT 1047.75 FT³

TOTAL 4720.0 FT³

TOTAL FOR JOB
UPSTREAM
DOWNSTREAM 4720.0 FT³

GRANULAR BACKFILL 61°

CHAN CUT = 87°

10+ 78.5 ZERO STRUCTURE EXC WIDTH

CHAN CUT = 76°

10+ 73.5

GRANULAR BACKFILL = 62°

CHAN CUT = 65°

10+ 58

CARRY AHEAD to STA 10+56.5 FOR BOX AREA = 24°

GRANULAR BACKFILL 9.5°

CHAN CUT = 56°

ZERO ST. LEFT 10+ 53.5 STA 10+52.5 BOX AREA = 24°

11+ 50

CHAN CUT = 14°

CHAN CUT AHEAD = 14°

11+ 25

11+ 00 CHAN CUT = 41°

PLYMOUTH
RS 5149 a(2)
CHAN & STRUCTURE
X SECTIONS
STA 10+53.5 TO 11+50

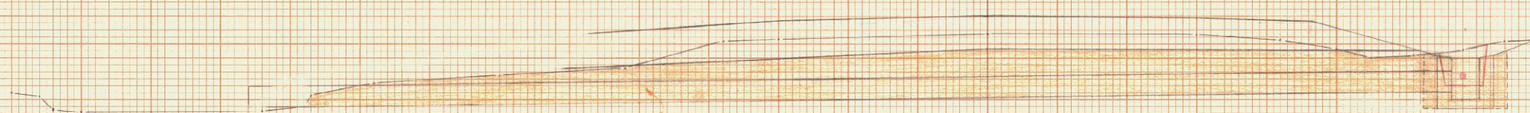
SCALE: 1" = 5'

49

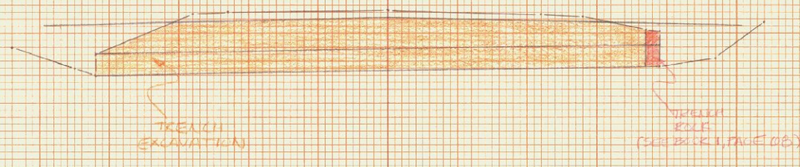
K&E PLATE 3, CROSS SECTION
KEUFFEL & ESSER CO

FINAL SURVEY
NOTE BOOK NO.
SURVEYED BY
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY
NOTE BOOK NO.
SURVEYED BY CPA, WILLIAMS, & PARKER
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
DATE 4-22, 6-23



397+03
49° LT ASKEW
NEW 18'X36' ACCOMP (0.064")



397+48
REMOVE PIPE

TRENCH EXCAVATION OF EARTH
PIPE 42"ø x 30'/27 ft³/cy = 29.9 cy
D.I 22" x 60'/27 = 4.9 cy
34.8 cy

F.S 1.30 = 45

1285

TRENCH EXCAVATION OF EARTH
130' X 3.6 = 468 ft³/27 ft³/cy = 17.34 cy
= 18.4 cy

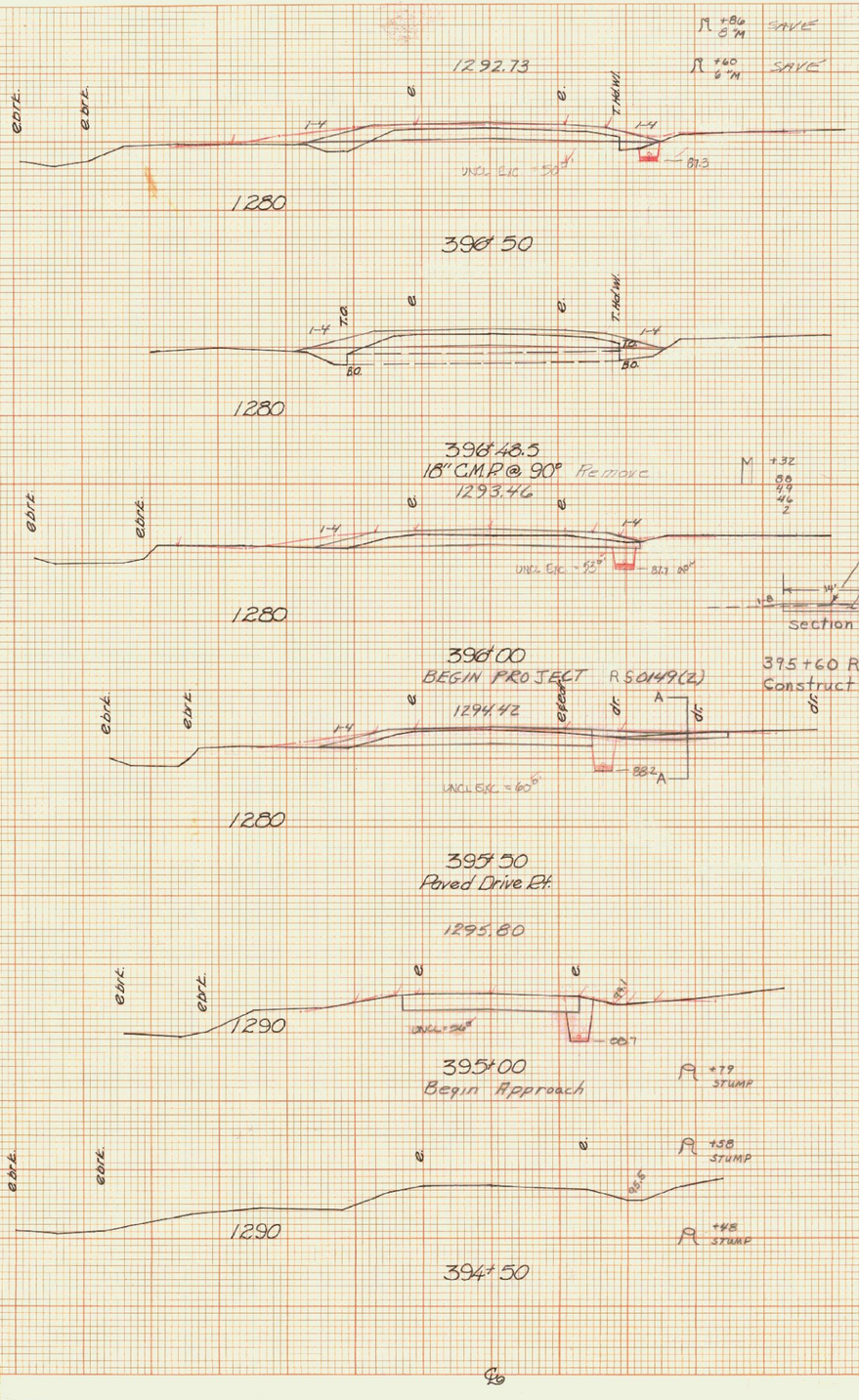
PLYMOUTH
RS0199(2)
PIPE X-SECTIONS
396+48 TO 397+00

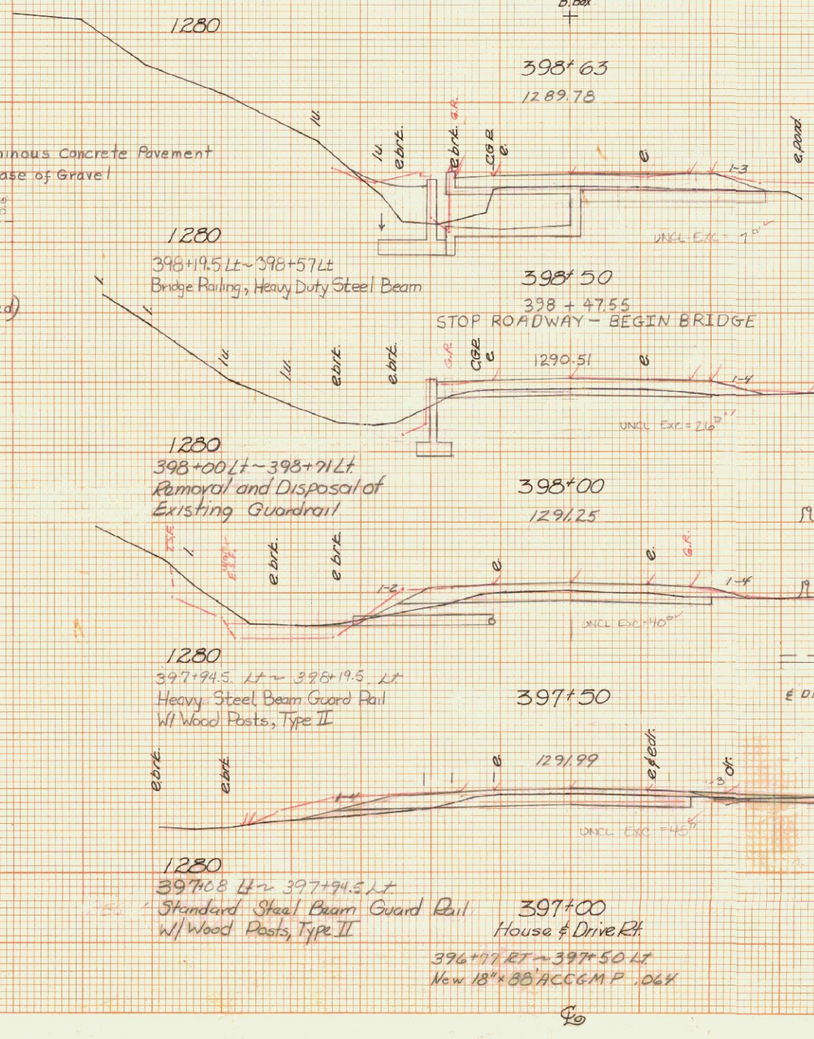
SCALE: 1"=5'

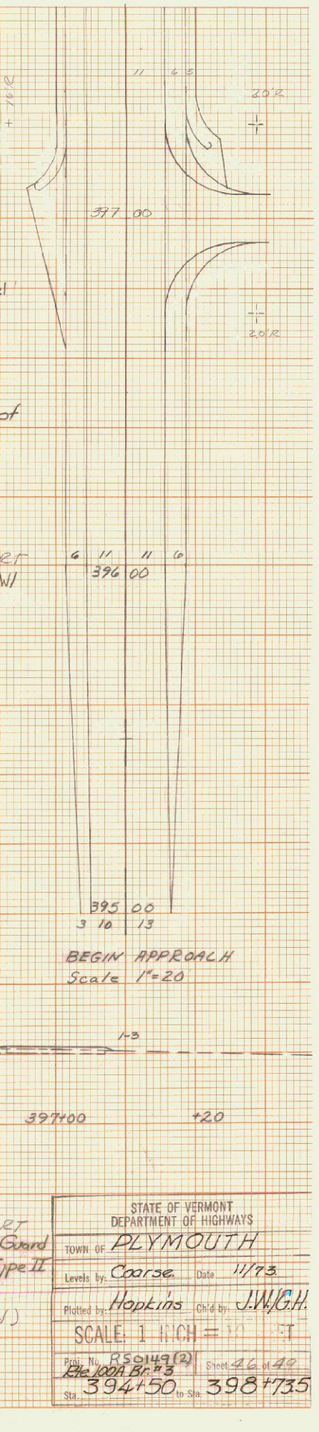
50

PAGE

K·E PLATE 3, CROSS SECTION
KRUPPI & ESSER CO



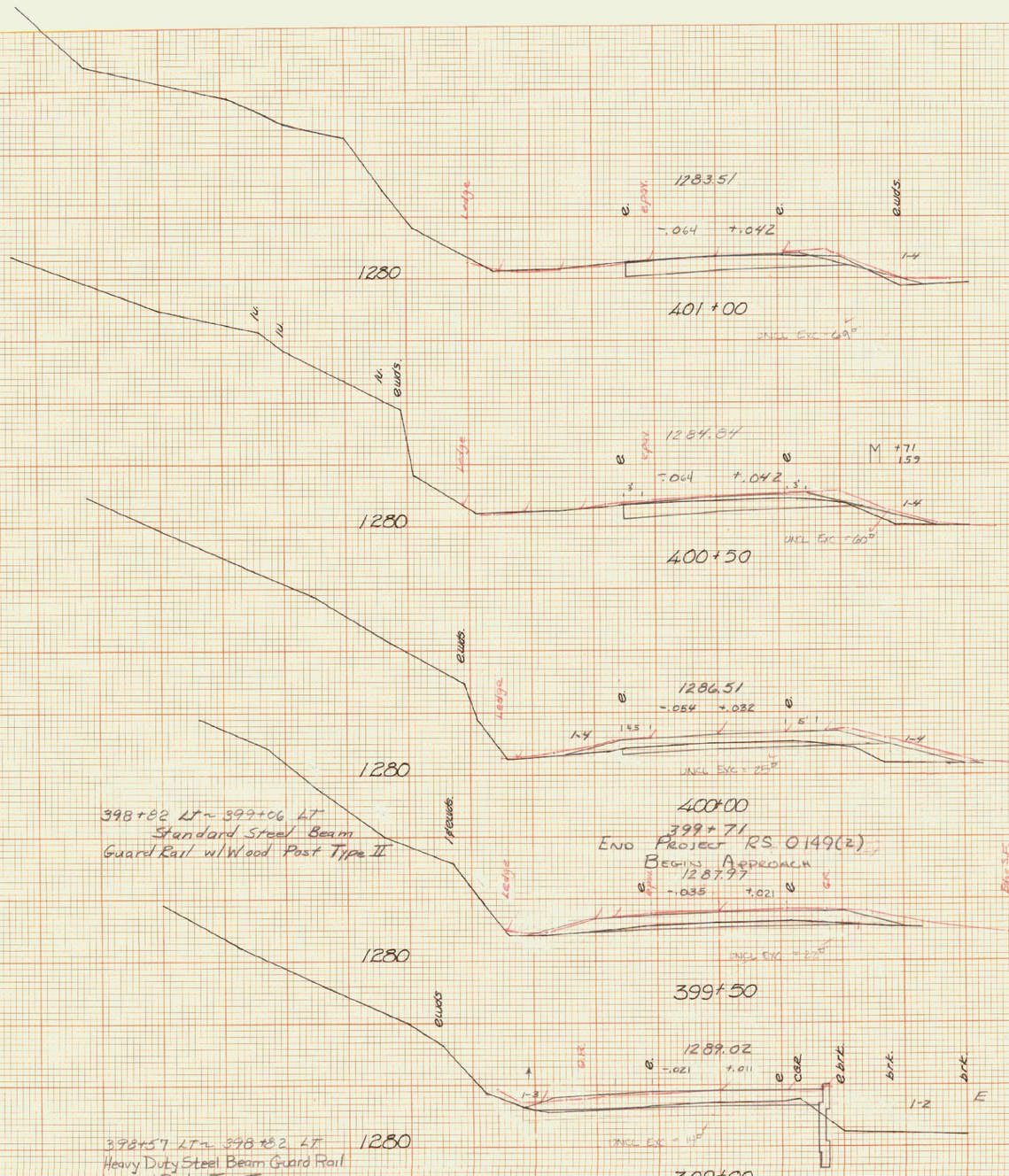




STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
TOWN OF PLYMOUTH
Levels by: Coarse Date: 11/73
Plotted by: Hopkins Chkd by: J.W.G.H.
SCALE: 1 INCH = 10 FT
Proj. No. R S0149(2)
Fed. No. 1009 Br. #3
Sta. 394+50 to Sta. 398+735
Sheet 46 of 49

51

Plotted 12-23-83 C.S Lohr
Plan Used to 1-24-84



STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
TOWN OF PLYMOUTH
Levels by: Coarse Date: 11/73
Plotted by: Hopkins Ck'd by: JW/GH
SCALE: 1 INCH = 10 FEET
Proj. No. RS0149(2) Sheet 47 of 49
Rte 100A Br #3
Sta 399+00 to Sta 401+00

Plotted 12-23-83 C.S. Fike
Profiles FS 1-29-84

Unclassified Excavation

395+00	56	Butt	107
+50	60		105
396+00	53		92
+50	50		80
397+00	45		79
+50	40		61
398+00	26		31
+50	7		1.9
399+00	14		33
+50	22		94
400+00	26		79
+50	60		173
401+00	69		107
+50	47	Butt	
Total			967

212 cy Approach

305 End Approach

41° Butt

Plotted 12-22-82 C.E. Fisher

53

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
TOWN OF PLYMOUTH
Levels by: Coarse Date 11/73
Plotted by: Hopkins Chk'd by: J.W./G.H.
SCALE: 1 INCH = 10 FEET
Proj. No. RS 0149(2) Sheet 10 of 47
Rte 100A B-13
Sta 401+50 to Sta 402+50

7

INDEX OF SHEETS

Title
Typical
Quantity, Earthwork, & Drainage
Layout
Main Line Cross Sections
Channel Cross Sections
Banking Diagram

STATE OF VERMONT
AGENCY OF TRANSPORTATION

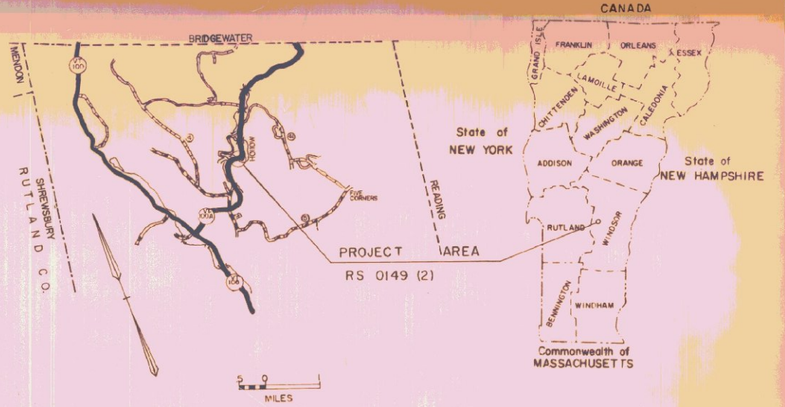
R.O.W. PLANS

PROPOSED IMPROVEMENT
TOWN OF PLYMOUTH
COUNTY OF WINDSOR
VT. ROUTE 100 A (FAS)

BEGINNING AT A POINT ON VT. RTE. 100A APPROXIMATELY 2.001 MI. EASTERLY OF THE INTERSECTION OF VT. RTE. 100 AND VT. RTE. 100A, AND PROCEEDING EASTERLY FOR 0.070 MILES.

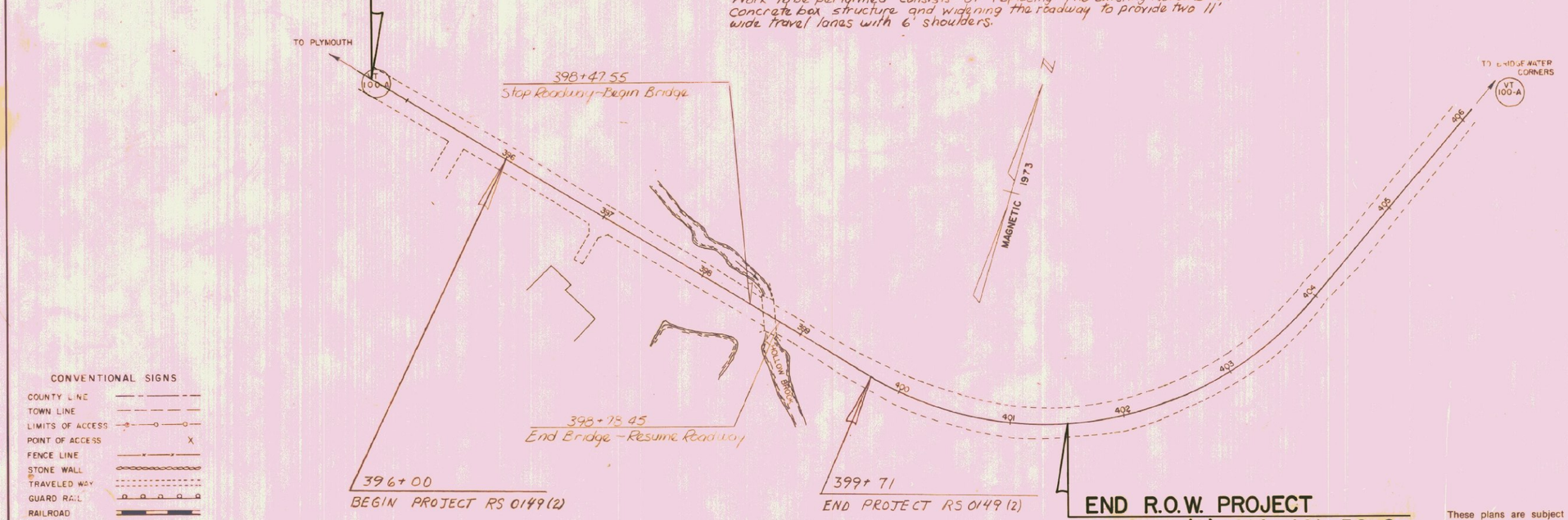
LENGTH OF ROADWAY	340.10 FEET	0.064 MILES
LENGTH OF BRIDGE	30.90 FEET	0.006 MILES
LENGTH OF PROJECT	371 FEET	0.070 MILES
LENGTH OF R.O.W. PROJECT:	687 FEET	0.130 MILES

Work to be performed consists of replacing the existing Hollow Brook Concrete box structure and widening the roadway to provide two 11' wide travel lanes with 6' shoulders.



TRAFFIC DATA		
EST. 1982	ADT	620
EST. 2002	ADT	870
EST. 1982	DHV	115
EST 2002	DHV	150
	D	61%
	T	6%
	V	40 MPH

BEGIN R.O.W. PROJECT
RS 0149 (2) STA. 394+63 ℄



CONVENTIONAL SIGNS

- COUNTY LINE
- TOWN LINE
- LIMITS OF ACCESS
- POINT OF ACCESS
- FENCE LINE
- STONE WALL
- TRAVELED WAY
- GUARD RAIL
- RAILROAD
- SURVEY LINE
- CULVERT
- POWER POLE
- TELEPHONE POLE
- TREES
- CONTROL OF ACCESS
- PROPERTY LINE
- ROW TAKING LINE
- SLOPE RIGHTS SR
- TOP OF CUT
- TOE OF SLOPE

DATUM
VERTICAL Assumed
HORIZONTAL N/A

These plans are subject to such engineering changes as may be required by the Federal Highway Administration or the Director of Engineering and Construction.

Construction is to be carried on in accordance with these plans and the Standard Specifications for Highway and Bridge Construction dated March, 1976, as approved by the Federal Highway Administration on October 27, 1976 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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APPROVED W. R. Lawrence DATE 3-19-82
CHIEF, PROPERTY ADMINISTRATION

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD
APPROVED S. J. Page P.E. DATE 3-22-82
DIRECTOR OF ENGINEERING AND CONSTRUCTION

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

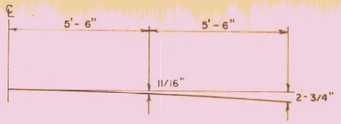
PROJECT PLYMOUTH
NO. RS 0149 (2)
SHEET 1 OF 4

BRUNING 44-1351 60592-1

D-10

S.R.S. 12/17/70

TYPICAL SECTIONS



PARABOLIC DETAILS

1 1/2" BITUMINOUS CONCRETE PAVEMENT, ITEM 406.25 TYPE II (SINGLE LIFT)
3" PLANT MIXED BASE COURSE, ITEM 303.25 SINGLE LIFT
24" SUB-BASE OF GRAVEL, ITEM 301.15

0-12" GRANULAR BORROW (IN FILLS)
0-24" SAND BORROW (IN CUTS)
AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

GENERAL NOTES

SEED, ITEM 651.10
TO BE APPLIED AS DIRECTED BY THE ENGINEER

% WT	LBS/A	NAME	PUR %	GERM %
3.33	2	CROWN VETCH	97	75
50.00	30	CREEPING RED FESCUE	98	85
8.33	5	TIMOTHY	99	85
16.67	10	PERENNIAL RYE GRASS (VAR. PENNFINE)	95	85
8.34	5	ALFALFA (VAR. SARANAC)	99	85
8.33	5	BIRDSFOOT TREFOIL (VAR. EMPIRE)	98	85
5.00	3	HIGHLAND BENT GRASS	92	85
100.00	60 LBS/ACRE			

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

MARKER POSTS, (WOOD OR STEEL AS SPECIFIED)
TO BE PLACED AS DIRECTED BY THE ENGINEER

FERTILIZER, ITEM 651.15
FORMULA 10-20-10 TO BE USED WITH SEED, ITEM 651.10 APPLIED AT THE RATE OF 500 LBS/ACRE

AGRICULTURAL LIMESTONE, ITEM 651.20
TO BE APPLIED AT RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER

HAY MULCH, ITEM 651.25
TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER.

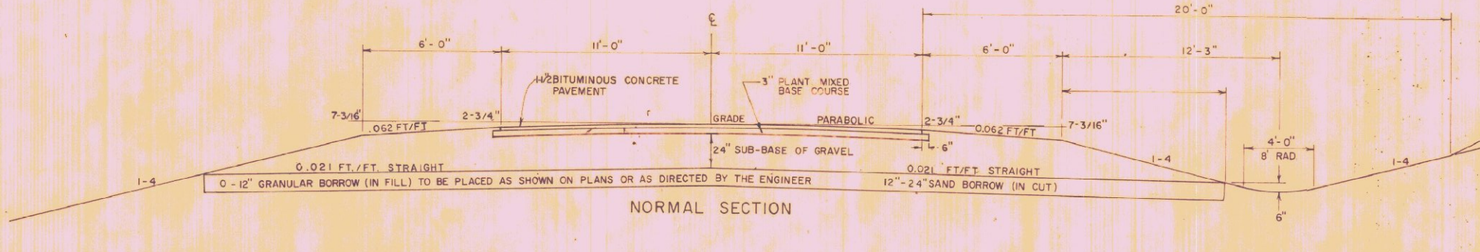
TOPSOIL, ITEM 653.10
TO BE USED WITH SEED, ITEM 651.10 IN RESIDENTIAL AREAS, AS DIRECTED BY THE ENGINEER

SEE STANDARD SHEET B-5 FOR TYPICAL SLOPE ROUNDING

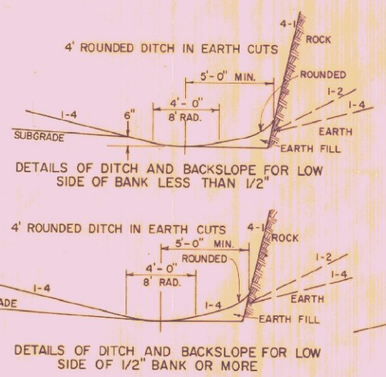
SEE STANDARD SHEET D-2 FOR PAY LIMITS OF SAND BORROW WHEN USED IN CONJUNCTION WITH UNDERDRAIN

ALLOWABLE THICKNESS TOLERANCES

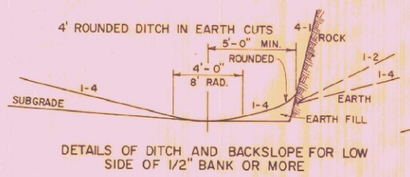
SUB-BASE	± 1"
CONTROLLED MATERIAL	± 1"
PAVEMENT	± 1/4"
BASE COURSE	± 1/2"



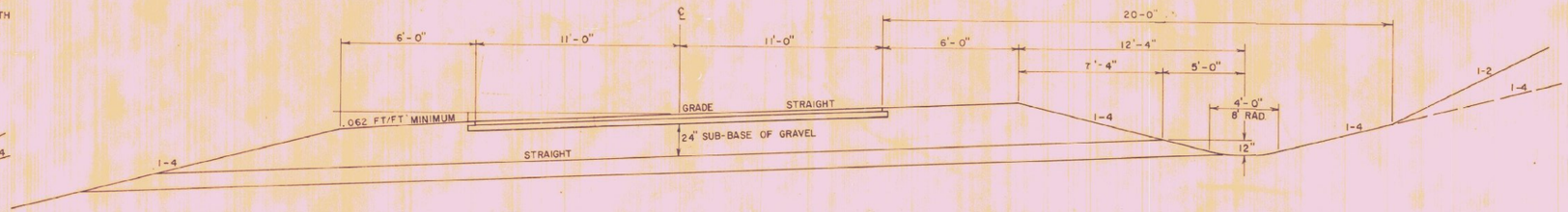
NORMAL SECTION



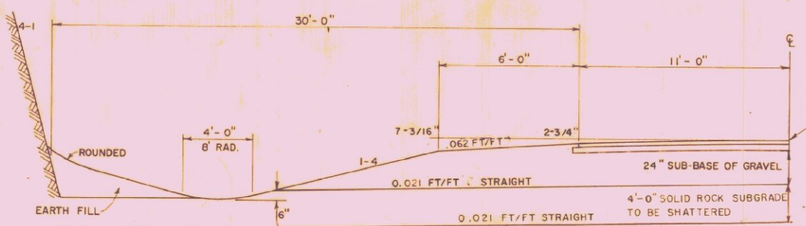
DETAILS OF DITCH AND BACKSLOPE FOR LOW SIDE OF BANK LESS THAN 1/2"



DETAILS OF DITCH AND BACKSLOPE FOR LOW SIDE OF 1/2" BANK OR MORE

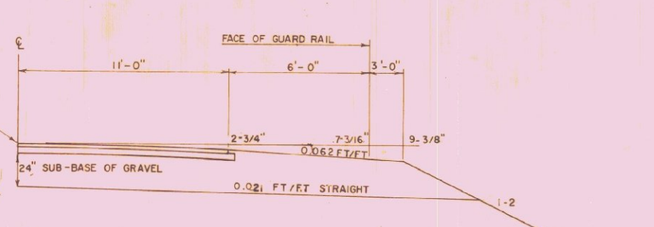


MAXIMUM BANKED SECTION 0.064 FT/FT.



NORMAL SECTION IN SOLID ROCK EXCAVATION

(SEE STANDARD SHEET A-60 FOR ADDITIONAL DETAILS)



NORMAL SECTION WITH GUARD RAIL

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TOWN OF PLYMOUTH

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROJ. RS NO.0149(2) | SHEET 2 OF 49

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
1A	TAYLOR, GARDNER & DORA	4	394 + 63 LT. 396 + 65 LT. 397 + 42 LT.	398 + 50 LT. 397 + 53 LT. 397 + 85 LT.	0.08 A±		CONST. EASE. (T) (375 S.F.±) CHANNEL (P) (175 S.F.±)	W.D.	10-5-82	PLYMOUTH	43	7	(3830 S.F.±)
1B			394 + 63 ℄	398 + 50 ℄ TOTAL	0.26 A± 0.34 A±		ALL R. T. & I.						VT. RTE. 100 A HWY. EASE.
2A	OLSON, ROBERT G. & MILDRED A.	4	396 + 41 RT. 395 + 60 RT. 397 + 00 RT. 397 + 75 RT.	398 + 69 RT. 398 + 69 RT.			CONST. EASE. (T) (0.04 A±) DRIVE (T) SLOPE (T) (0.02 A±)	AGREE.		PLYMOUTH			(1750 S.F.±) DRIVE 14' PAVED 01.99 DRIVE PERMIT DATE· 14' PAVED M.P. 02.02 DRIVE PERMIT DATE· (955 S.F.±)
2B													DELETED
3	STATE OF VERMONT AGENCY OF ENVIRONMENTAL CONSERVATION FOREST, PARKS AND RECREATION DEPT.	4	397 + 28 LT. 397 + 53 LT. 398 + 40 LT.	399 + 80 LT. 398 + 40 LT. 399 + 60 LT.			CONST. EASE. (T) (0.05 A±) CHANNEL (T) (0.02 A±) SLOPE (T) (0.01 A±)	LETTER OF AUTH.					(2350 S.F.±) (1040 S.F.±) (650 S.F.±)
4A	COOLIDGE, JOHN	4	398 + 69 RT. 398 + 69 RT.	401 + 00 RT. 400 + 10 RT.	0.24 A±		CONST. EASE. (T) (0.03 A±)	W.D.	9-13-82	PLYMOUTH	42	485-6	(1100 S.F.±)
4B			398 + 69 ℄	401 + 00 ℄ TOTAL	0.20 A± 0.44 A±		ALL R. T. & I.						VT. RTE. 100 A HWY. EASE.
5	CONTINENTAL TELEPHONE OF VERMONT												UTILITY
6	CENTRAL VERMONT PUBLIC SERVICE CORP.												UTILITY

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	4	Parcel 2. C.O.# 5361 Deleted Ditch & Drainage Rt(A) STA 396+00Rt ~ 396+85 RT Added SAVE to plans for Maple Trees at 396+60Rt & 396 + 80 Rt.	5-17-82	R.L.S.	T.P.M.
2	3,4	Parcel#2 OLSON, Deleted Parcel # 2B, Deleted Take Parcel # 2A. Revised Const. Ease(T), & Culvert Angle, Added Slope Rt (T) Per Revised Design & C.O.# 5632	11-4-82	B.A.M.	EKF

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

MADE BY: B.A.M. DATE 3/10/82
CHECKED BY: J.D.P. DATE 3/10/82

APPROVED Thomas P. Mayo DATE 3-19-82
CHIEF OF PLANS & TITLES

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PROJECT PLYMOUTH
NO. RS 0149 (2)
SHEET 3 OF 4

ROW

BEGIN R.O.W. PROJECT
RS 0149 (2) STA. 394+63 ℄

POT 394+50.0

394+63
40' LT.

TAYLOR, GARDNER & DORA

Vt. Rte 100-A 394
To Plymouth

396+48.5 S 16° W
Remove
396+17 Rt - 327.55 Lt
New 18" RCCMP. ok'd

STATE OF VERMONT
AGENCY OF ENVIRONMENTAL CONSERVATION
FOREST, PARKS AND RECREATION DEPT.

STA 398+78.45
END BRIDGE RESUME ROADWAY

BM #46-A.
28' Lt Sta 408+48
S.I.P. 15" Maple
Elev. 1278.34

PT 406+50.0
406+38.3

15"M

38.21'
18.00'

PT 407+032

408+48 18" C.M.P

Magnetic 1973

IB
IA
2A
3
4A
4B

395+20
56' RT.

396+93
24' LT.

397+85
40' LT.

398+50
25' LT.

398+50 ℄ 398+69

399+00
25' RT.

398+69
24' RT.

398+69
50' RT.

399+00
33' RT.

399+50
110' RT.

401+00 ℄
401+00
50' RT.

CONST. EASE (T)
CHRTR (T)
CONST. EASE (T)
SAVE - DRIVE - RT (T)
CONST. EASE (T) (SAVE)
CSE (L)
SR (L)
CONST. EASE (T)

OLSON, ROBERT G.
& MILDRED A.

1 & 3 WF Ho.

COOLIDGE, JOHN

Hollow Brook

STA 398+77.55
STOP ROADWAY - BEGIN BRIDGE

BM # 45
6' Lt Sta 398+94
SIP 12" SPRUCE
Elev 1287.55

BM # 46
No Rt Sta 398+68
Cha on old wing
Elev 1286.95

CURVE N°1
Δ = 81°00' Lt
D = 19°
R = 302.9'
T = 257.6'
L = 426.3'
E = 95.0'
Bank .073

PC 399+71.1

PT 403+97.4

PC 402+50.0

402+05

406+31

405 N 22°00' E 406

CURVE N° 2
Δ = 11° 45' Rt
D = 8°
R = 716.20'
T = 73.7'
L = 146.9'
E = 3'

PT 406+16.2

Construct Drive
Rt
395+60 (Paved)
397+00

Guardrail, Standard Steel Beam
With Wood Posts Type II
Lt 397+07 ~ 399+07
Rt 397+13 ~ 399+74

Removal and Disposal of
Existing Guardrail
Lt 398+00 ~ 398+71
Rt 398+66 ~ 399+14

PT 402+28.70 =
401+89.30

END R.O.W. PROJECT
RS 0149 (2) STA. 401+50 ℄

Present Bridge Data
RCB 4'-1" x 8'-1" Wound Floor
Total Length along skew angle 32.0'
Roadway width 24.0'
Box in poor condition

GENERAL NOTE:
Drives are to be constructed with a minimum width of 14' and a flair radius, of at least 20 feet unless other wise noted, or as directed by the Engineer.

PLAN — SURVEYED, PLOTTED, CONTOURS CHECKED, B.M.'s NOTED, STRUCTURE NOTATIONS CHKD, ALIGNMENT CHECKED, RT. OF WAY CHECKED, NOTE BOOK, NO. — BY Alden Hopkins

PROFILE — SURVEYED, PLOTTED, CONTOURS CHECKED, B.M.'s NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO. — BY Gaston Hopkins

396+00
Construct Satisfactory Approach, Begin Project RS 0149(2)

End Project RS 0149(2) 399+71 Construct Satisfactory Approach

-2.2000%
+1.4750%
-3.5333%
-1.0000%

395+50
1294.20
L = 100
K = 57

399+50
1288.30
L = 130
K = 63
SSD = 388

401+00
1283.00
L = 160
K = 63

1300
1290
1280
1270

394 395 396 397 398 399 400 401 402 403 404 405 406 407 408

PLYMOUTH
VT. 100 A Bx. #3
RS 0149 (2)

57

K&E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.

SHEET 4 OF 4