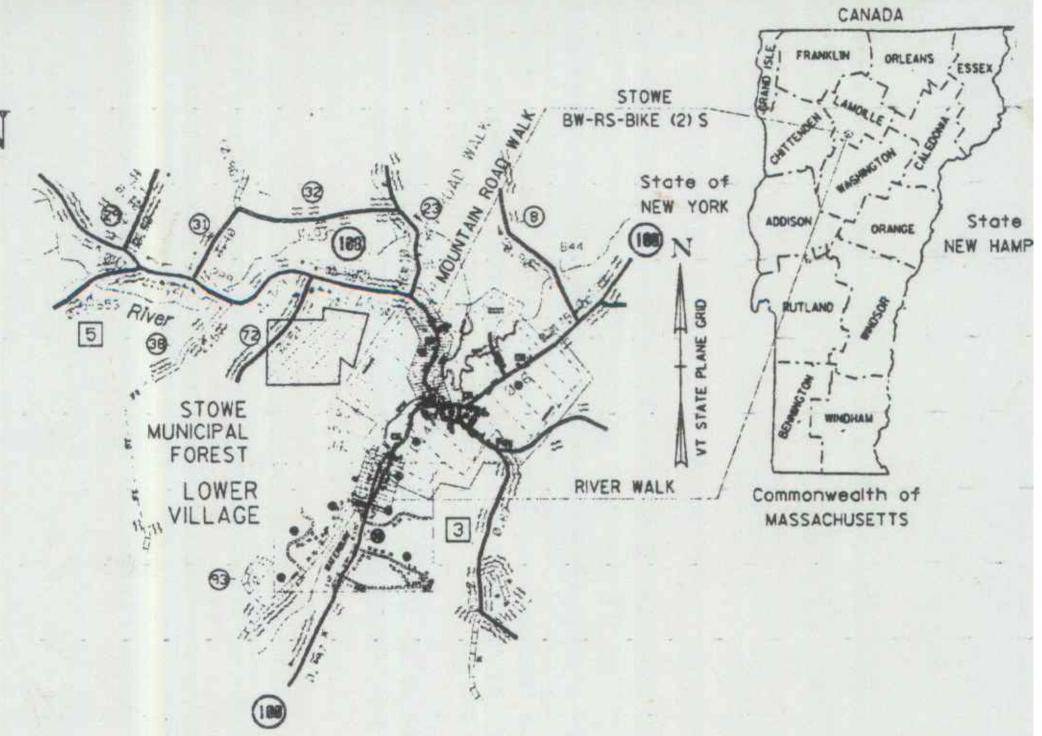
INDEX OF SHEETS

STANDARDS

B-5	SLOPE GRADING, EMBANKMENTS, MUCK	12-06-71
C-1	CURBS, BITUMINOUS CONCRETE SIDEWALKS	10-25-85R
C-3	SIDEWALK RAMPS	08-18-89R
D-8	REINFORCED CONCRETE DROP INLET W/GRATE, BOTTOM SECTION	12-06-71
D-9	REINFORCED CONCRETE DROP INLET TOP W/VERTICAL CURB	12-06-71
D-15	C I GRATE, TYPE E	10-30-85R
E-100	CONSTRUCTION APPROACH SIGNS	05-26-[illegible]R
E-101	CONSTRUCTION SIGN DETAILS	10-30-87
E-102	CONSTRUCTION SIGN DETAILS	01-23-89R
E-106	TRAFFIC CONTROL, MISCELLANEOUS DETAILS	01-23-89R
E-107	DELINEATION BARRICADES AND DETOURS FOR CONSTRUCTION AREAS	04-29-88R
E-107A	BREAKAWAY BARRICADE DETAILS	09-10-87
E-11D	MAJOR MAINTENANCE LANE CLOSURE	03-01-88R
E-121	STANDARD SIGN PLACEMENT · CONVENTIONAL RAMP	01-23-89
E-160	FLANGED CHANNEL	03-01-88R
F-2	CHAIN LINK FENCE (TYPE I)	02-01-79R
F-3	CHAIN LINK FENCE (TYPE III)	02-01-79R
F-4	CHAIN LINK FENCE (TYPE IV)	03-19-79R
G-1	STEEL BEAM GUARD RAIL	10-31-85R
G-1D	STEEL BEAM GUARD RAIL (40 MPH & LESS)	10-31-85R
G-4	MARKERS -GUIDE POSTS	10-31-85R
G-14	BREAKAWAY CABLE TERMINAL W/WOOD POSTS	11-01-88R
T-1	TEMPORARY EROSION CONTROL	12-07-76R
T-2	TEMPORARY EROSION CONTROL	07-05-72

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROPOSED IMPROVEMENT
TOWN OF STOWE
COUNTY OF LAMOILLE



THIS PROJECT SHALL INCLUDE TWO SECTIONS:
STOWE RIVER WALK-(SECTION ONE)- BEGINNING AT A POINT WHICH IS APPROXIMATELY 40' ± WESTERLY OF THE CENTERLINE OF VT. ROUTE 100, AND 65' ± NORTHERLY OF THE STOWE VILLAGE/STOWE TOWN LINE. THE PROJECT CONTINUES SOUTHERLY FOR 1141' (0.216 MI), GENERALLY PARALLELING VT. 100, AND TERMINATES AT ITS INTERSECTION WITH TH#5 IN THE TOWN OF STOWE. THIS WILL BE A DUAL USAGE BIKE/PEDESTRIAN FACILITY.

STOWE MOUNTAIN ROAD WALK-(SECTION TWO)-BEGINNING AT A POINT WHICH IS APPROXIMATELY 0.080 MILE NORTHERLY OF THE VT. ROUTE 108 - VT. ROUTE 100 INTERSECTION IN THE VILLAGE OF STOWE. THE PROJECT CONTINUES NORTHEASTERLY AND CONTIGUOUS WITH THE EASTERLY EDGE OF VT. ROUTE 108 FOR A DISTANCE OF 2400' ± (0.455 MI) THIS FACILITY WILL BE FOR PEDESTRIAN USAGE.

Note:
These plans are not to be removed from P&T without telling M[illegible] or Larry.
Larry

PROJECT AREA MAPS FOR SECTIONS ONE AND TWO ARE SHOWN ON THEIR INDIVIDUAL TITLE SHEETS

65' northerly of
Approximately M.P. 2.76 to M.P. 2.97

Vt. Rte 100

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

TOWN: STOWE
ROUTE: VT100
DATE: 06/30/1992
PROJECT: STP BW RS BIKE (2) S
PIN: 91R208

AUG 9 1994

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.

STOWTIT

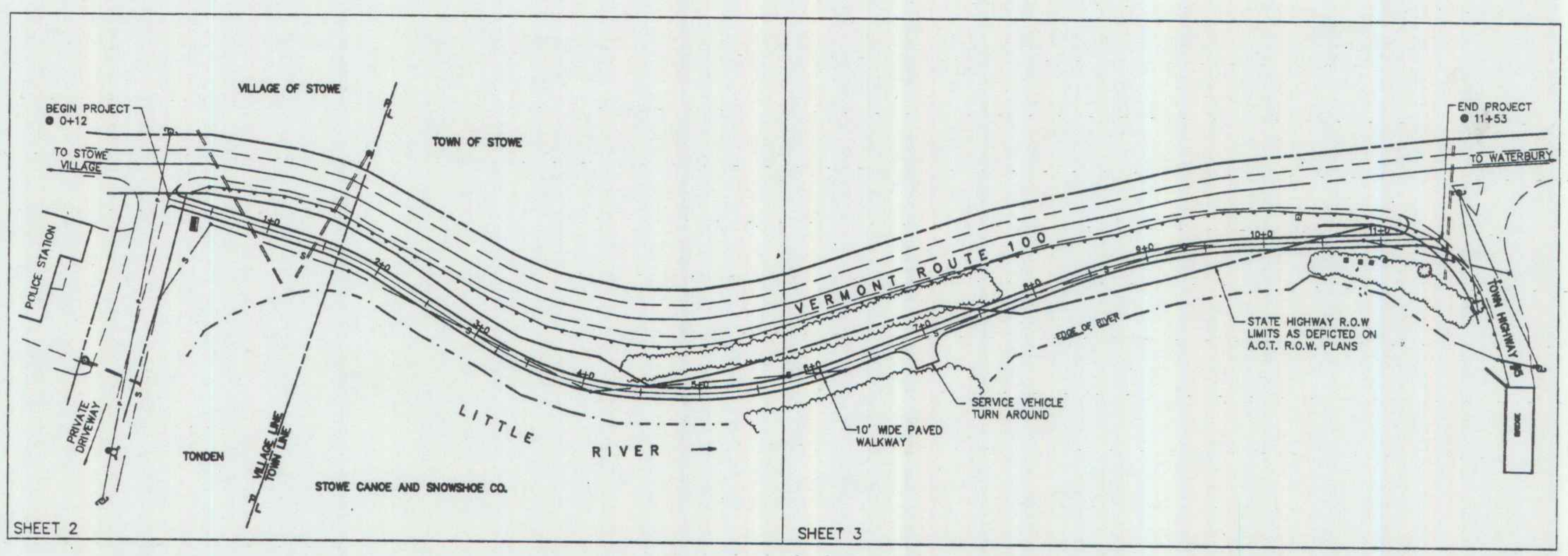
SUBMITTED BY ORDER OF THE STATE TRANSPORTA[illegible]
APPROVED [illegible] DATE
DIRECTOR OF ENGINEERING
DEPARTMENT OF TRANSPORTATI[illegible]
FEDERAL HIGHWAY ADMINISTRATI[illegible]
APPROVED ______ DATE
DIVISION ADMINISTRATOR
PROJECT STOWE BW-RS BIKE (2) S JUN
SHEET 1 OF 38 SHEE[illegible]

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	NGVD 1929
HORIZONTAL	N/A

1

TOWN OF STOWE
RIVER WALK



SITE PLAN

GRAPHIC SCALE

(IN FEET)

INDEX OF SHEETS

BIKE PATH DESIGN SPEED = 20 MPH

APPLICABLE A.O.T. STANDARDS

B- 5	SLOPE GRADING, EMBANKMENTS, MUCK
D-15	PRECAST REINFORCED CONCRETE CATCH BASIN WITH C.I. GRATE
E-100	CONSTRUCTION APPROACH SIGNS
E-101	CONSTRUCTION SIGN DETAILS
E-102	CONSTRUCTION SIGN DETAILS
E-106	TRAFFIC CONTROL MISCELLANEOUS DETAILS
E-107	DELINEATION BARRICADES AND DETOURS FOR CONSTRUCTION AREAS
E-107A	BREAKAWAY BARRICADE DETAILS
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE
E-160	FLANGED CHANNEL STEEL SIGN POST
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD
F2	CHAIN LINK FENCE, TYPE I
G1d	GUARD RAIL, HEAVY DUTY STEEL BEAM WITH WOOD POSTS, TYPE II
G4	GUIDE POSTS
G14	BREAKAWAY CABLE TERMINAL WITH WOOD POSTS
T-1	TEMPORARY EROSION CONTROL DETAILS

PROJECT SCOPE:

THIS PROJECT INVOLVES THE CONSTRUCTION OF A 1141 FEET BITUMINOUS CONCRETE SURFACE BICYCLE PATH AND PEDESTRIAN WALKWAY ALONG THE WEST SIDE OF VERMONT ROUTE 100 IMMEDIATELY SOUTH OF THE VILLAGE OF STOWE. A GRAVEL SUBBASE WILL BE PLACED AND THE PATH WILL BE FENCED TO PROTECT BIKERS FROM THE LITTLE RIVER. THE PROJECT WILL CONNECT TOWN HIGHWAY #5 RIVER ROAD WITH A PRIVATE ROADWAY NEAR THE STOWE POLICE STATION.

AUG 9 1994

JUN 30 1992

BW-RS-BIKE (2S)

STATE OF VERMONT CHARLES J. GRENIER NO. 2242 PROFESSIONAL ENGINEER

Charles J. Grenier

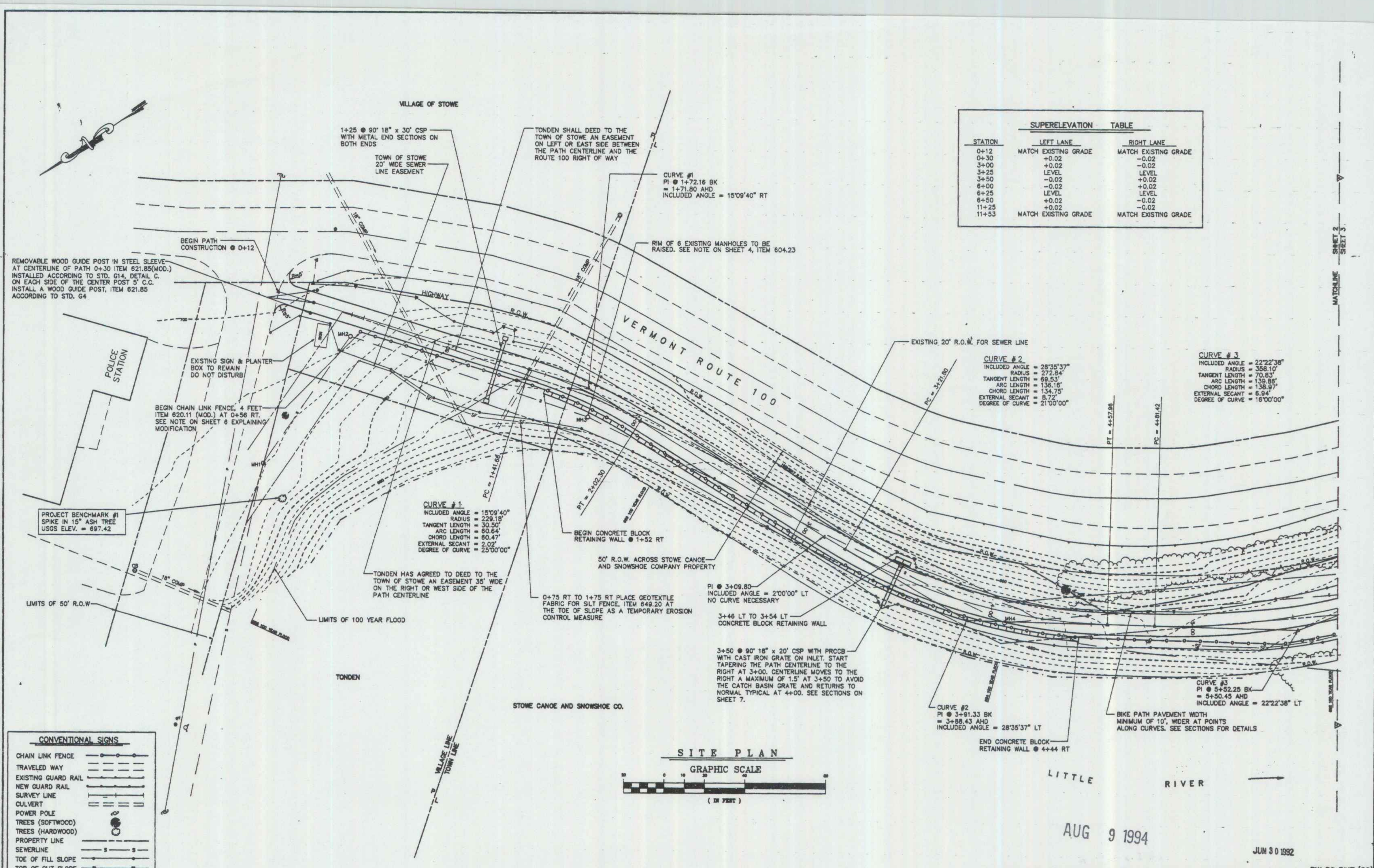
TOWN OF STOWE - RIVER WALK
"TITLE SHEET"

CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

DATE = 9-11-91
DRN BY = T.J.M.
SCALE = 1"=60'
SHT 2 OF 32

REVISED 10-25-9

2



SUPERELEVATION TABLE

STATION	LEFT LANE	RIGHT LANE
0+12	MATCH EXISTING GRADE	MATCH EXISTING GRADE
0+30	+0.02	-0.02
3+00	+0.02	-0.02
3+25	LEVEL	LEVEL
3+50	-0.02	+0.02
6+00	-0.02	+0.02
6+25	LEVEL	LEVEL
6+50	+0.02	-0.02
11+25	+0.02	-0.02
11+53	MATCH EXISTING GRADE	MATCH EXISTING GRADE

AUG 9 1994

JUN 30 1992

BW-RS-BIKE (2S)

5-8-92 - REVISED STOWE CANOE R.O.W.

STATE OF VERMONT CHARLES J. GRENIER NO. 3242 REGISTERED PROFESSIONAL ENGINEER

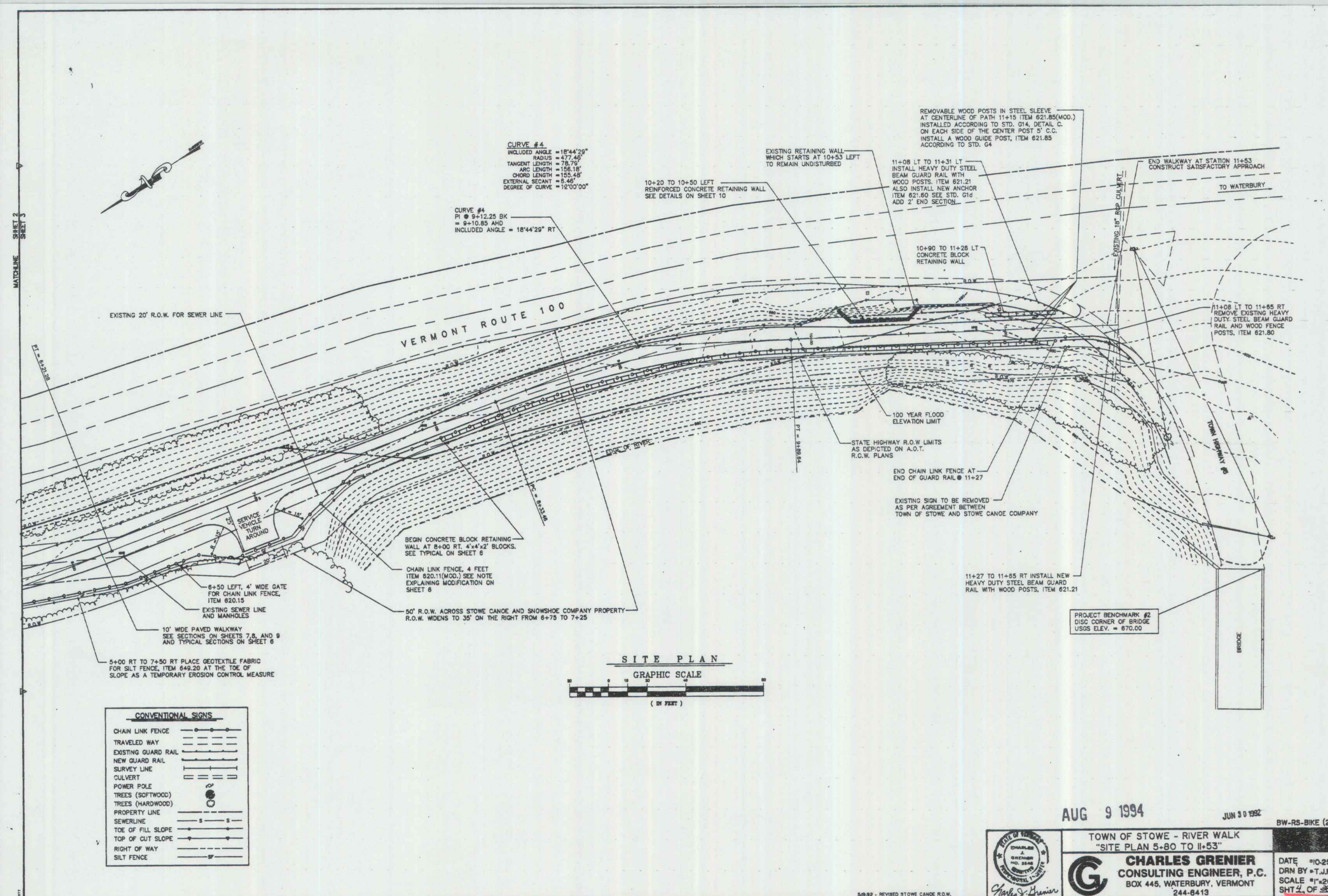
Charles J. Grenier

TOWN OF STOWE - RIVER WALK
"SITE PLAN 0+00 TO 5+80"

CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

DATE = 10-25-91
DRN BY = T.J.M.
SCALE = 1" = 20'
SHT 3 OF 38

3



AUG 9 1994

JUN 30 1992

BW-RS-BIKE (2S)

STATE OF VERMONT · CHARLES J. GRENIER · NO. 3846 · PROFESSIONAL ENGINEER

Charles J. Grenier

TOWN OF STOWE - RIVER WALK
"SITE PLAN 5+80 TO 11+53"

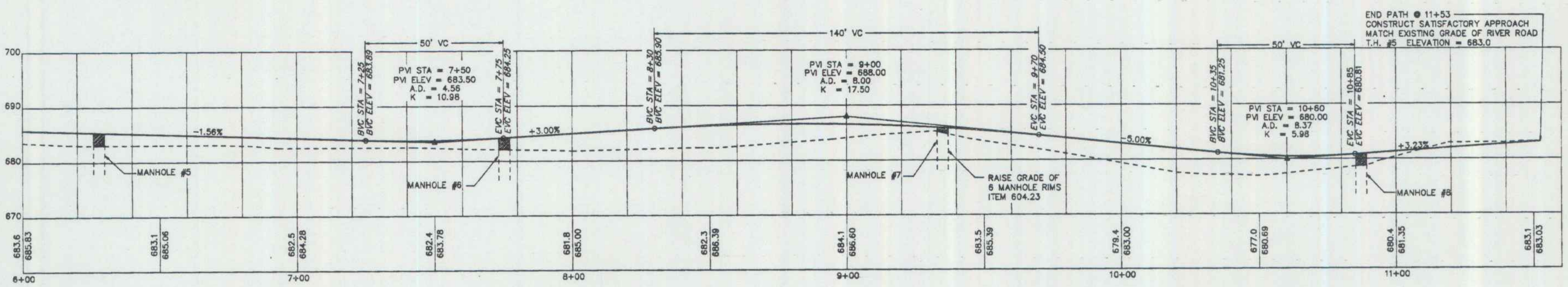
[redacted]

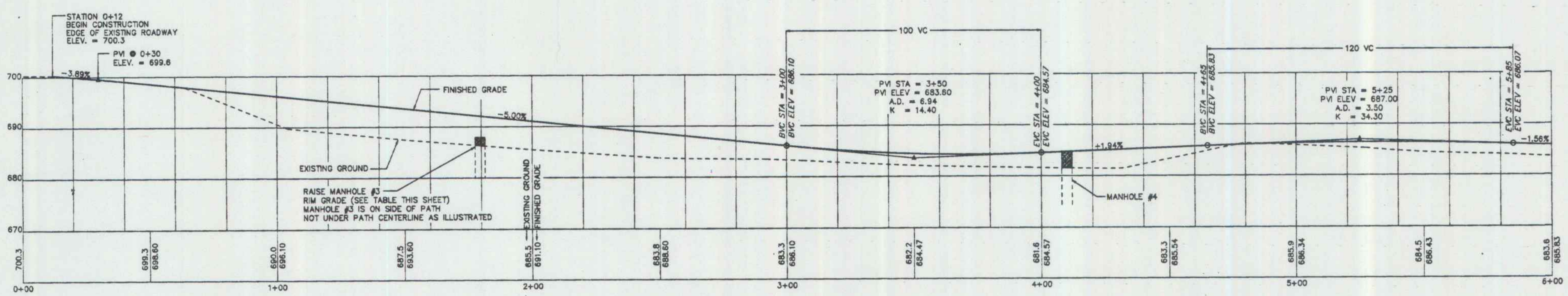
CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

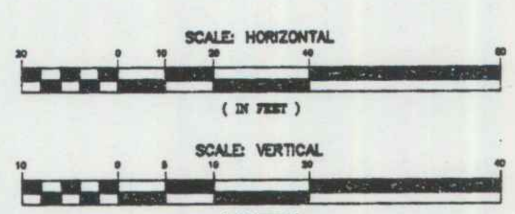
DATE 10-25-91
DRN BY T.J.M.
SCALE 1"=20'
SHT 4 OF 38

4

ITEM 604.23 CHANGING ELEVATION OF SEWER MANHOLE				
MANHOLE NUMBER	STATION	EXISTING RIM GRADE	NEW RIM GRADE	DIFFERENCE IN ELEVATION
3	1+78	685.20	687.5	+2.20'
4	4+08	681.13	684.80	+3.67'
5	6+26	682.87	685.33	+2.46'
6	7+93	681.98	684.80	+2.82'
7	9+33	685.65	686.00	+0.35'
8	10+85	678.50	680.80	+2.30'







AUG 9 1994

JUN 30 1992

BW-RS-BIKE (2S)

TOWN OF STOWE - RIVER WALK
"CENTERLINE PROFILES"

[redacted]

STATE OF VERMONT CHARLES J. GRENIER NO. 3848 REGISTERED PROFESSIONAL ENGINEER

Charles J. Grenier

CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

DATE = 9-11-91
DRN BY = T.J.M.
SCALE = 1"=20'
SHT 5 OF 38

REVISED 10-25-91

5

QUANTITY, EARTHWORKS, DRAINAGE AND ITEM DETAIL SHEET

APPROXIMATE SUMMARY OF QUANTITIES

EROSION CONTROL	BRIDGE	ROADWAY	GRAND TOTAL	UNIT	PAY ITEM	PAY ITEM NUMBER	RNDG.
			210	CY	COMMON EXCAVATION	203.15	14
			1350	CY	GRANULAR BORROW	203.32	15
			20	CY	TRENCH EXCAVATION OF EARTH	204.20	2
			75	CY	STRUCTURE EXCAVATION	204.25	7
			100	CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	1
			540	CY	SUBBASE OF CRUSHED GRAVEL (COARSE GRADED)	301.25	14
			170	TON	BITUMINOUS CONCRETE PAVEMENT	406.25	10
			48	CY	CONCRETE, CLASS B	501.25	1.5
			5600	LB	REINFORCING STEEL	507.15	42
			115	LF	DRILLING AND GROUTING DOWELS	507.16	—
			2	GAL.	WATER REPELLENT	514.10	—
			0.65	MFBM	NON-STRUCT. LUMBER-TREATED	522.36	
			48	LF	18" CSP .064	601.0015	—
			2	EACH	18" CSPES .064	601.6015	
			240	CY	* DRY RUBBLE MASONRY (MOD.)	602.20	
			6	EACH	CHANGING ELEVATION OF MANHOLE	604.23	—
			1	EACH	CAST IRON GRATE WITH FRAME, TYPE D	604.51	
			5	HOUR	ALL PURPOSE EXCAVATOR, TYPE I	608.25	
			5	HOUR	TRUCK RENTAL	608.37	
			220	CY	STONE FILL, TYPE I	613.10	20
			1100	LF	** CHAIN LINK FENCE, 4 FEET (MOD.)	620.11	21
			6	EACH	BRACING ASSY. FOR CHAIN LINK FN. (4 FEET)	620.20	21
			4	LF	GATE FOR CHAIN LINK FENCE, 4 FEET	620.15	—
			75	LF	STEEL BEAM GUARD RAIL	621.20	—
			1	EACH	ANCHOR FOR STEEL BEAM GUARD RAIL	621.60	—
			70	LF	REMOVAL AND DISPOSAL OF GUARD RAIL	621.80	—
			4	EACH	GUIDE POSTS	621.85	—
			2	EACH	GUIDE POSTS (MODIFIED)	621.85	—
			40	HOUR	UNIFORMED TRAFFIC OFFICERS	630.10	—
			40	HOUR	FLAGGERS	630.15	—
			0.50	LS	TESTING EQUIPMENT - CONCRETE	631.16	
			0.50	LS	TESTING EQUIPMENT - BITUMINOUS	631.17	
			0.65	LS	MOBILIZATION	635.10	-
			500	SY	GEOTEXTILE FOR ROADBED SUBGRADE SEPARATOR	649.11	30
			130	SY	GEOTEXTILE FOR SILT FENCE	649.51	14
			20	LB	SEED	651.15	—
			125	LB	FERTILIZER	651.18	—
BASED ON 0.25 AC OF DISTURBED AREA			0.5	TON	AGRICULTURAL LIMESTONE	651.20	—
			0.5	TON	HAY MULCH	651.25	—
			80	CY	TOPSOIL	651.35	11
			55	SF	TRAFFIC SIGNS (TYPE A)	675.20	4.8
			600	LB	FLANGED CHANNEL SIGN POSTS	675.30	15

DETAILED SUMMARY OF QUANTITIES

QUANTITY	UNIT	PAY ITEM
		* SEE NOTES ON SHEET 6
		** ESTIMATED 467 FEET OF FENCE WORK IN GROUND WITH 612 FEET DRILLED INTO CONCRETE BLOCK RETAINING WALLS. SEE NOTE EXPLAINING MODIFICATION ON SHEET 6

GRADES AND EARTHWORK

V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON V. CURVE	V.C. CORR.	DIST. (FT)	TOTAL EXCAV. EARTH & ROCK AREA (SF)	TOTAL EXCAV. EARTH & ROCK VOL. (CY)	ROCK EXCAVATION AREA (SF)	ROCK EXCAVATION VOL. (CY)	EMBANKMENT AREA (SF)	EMBANKMENT VOL. (CY)
COLUMN TOTALS												

EARTHWORK SUMMARY

EARTH AND ROCK EXCAVATION	0 CY.
SOLID ROCK EXCAVATION	0 CY.
EARTH EXCAVATION	191 CY.
PLANIMETERED FILL	1161 CY.
LESS FACTORED SOLID ROCK	0 CY.
LESS DISPLACEMENT OF LARGE STRUCTURES	0 CY.
NET PLANIMETERED FILL	1161 CY.
FACTOR (0.15 x NET PLANIMETERED FILL)	174 CY.
PLANIMETERED FILL INCLUDING FACTOR	1335 CY.
MATERIALS AVAILABLE FOR FILLS:	
EARTH EXCAVATION	191 CY.
CHANNEL EXCAVATION (%x CY)	0 CY.
UNDERDRAIN EXCAVATION (%x CY)	0 CY.
STRUCTURE EXCAVATION (%x CY)	68 CY.
TOTAL MATERIAL AVAILABLE FOR FILLS	259 CY.
TOTAL FILL	1335 CY.
TOTAL MATERIAL FOR FILLS	259 CY.
BORROW REQUIRED *	1076 CY.
EXCESS EXCAVATION	CY.
LESS FACTORED DEDUCTIBLE GRANULAR BORROW	CY.
NET EARTH BORROW	CY.
NET EXCESS EXCAVATION	CY.

* USE GRANULAR BORROW FOR FILLS

UNDERDRAIN AND CARRIER PIPE

STATION TO STATION	TYPE	P U S	P O S	D (IN)	L (FT)	TRENCH EXC. EARTH (CY)	TRENCH EXC. ROCK (CY)	GRAN. BKF (CY)	F B (EA)	MKR. POSTS (EA)
COLUMN TOTALS										

GUARD RAIL, THREE CABLE W/LT.___ POSTS

STATION TO STATION	P O S	MEASURED LENGTH (FT & IN)	POST SPACING (FT & IN)	FACTOR	PAY LENGTH (LF)	ANCHORS 621.66 (EA)	ANCHORS 621.67 (EA)
COLUMN TOTALS							

GUARD RAIL, BOX BEAM W/ST. POSTS

STATION TO STATION	P O S	POST SPACING (FT & IN)	PAY LENGTH (LF)	REMARKS
COLUMN TOTALS				

DRAINAGE STRUCTURES

STATION	POS	ASKEW	TYPE IN/OUT	DITCH IN	DITCH OUT	RCP D(IN)	RCP L(FT)	RCP CL	CSP D(IN)	CSP L(FT)	CSP TH(IN)	OPTION PIPES D (IN.)	OPTION PIPES L (FT.)	OPTION PIPES RCP CL	OPTION PIPES CGMP TH.	OPTION PIPES CAAOP TH.		RCDI Depth	MES. (EA)	PRCCB DEPTH (FT.)	CONC. CL. B (CY)	REINF STEEL (LB.)	CB GRATE TYPE	CRM (CY)	TRENCH EXC EARTH (CY)	TRENCH EXC ROCK (CY.)	ST FILL TYPE_ (CY.)	GRAN. BKF STRUCT	MKR POST LT	MKR POST RT	REMARKS
1+25	℄	90°	MES/MES						18	28	.064								2						0	0		0			NO EXCAVATION REQUIRED IN FILL
3+50	℄	90°	RCDI/						18	20	.064							3.0			3.0	173	D		18			12			REMOVING RIPRAP IN TRENCH EXCV'N.
COLUMN TOTALS										48									2		3.0	173	D		18			12			

GUARD RAIL, HEAVY DUTY STEEL BEAM WITH WOOD POSTS, TYPE II

STATION	TO STATION	POS.	MEASURED LENGTH (FT. & IN.)	POST SPACING (FT. & IN.)	FACTOR	PAY LENGTH (L.F.)	ANCHORS 621.60 (EA)	ANCHORS 621.__ (EA)	REMARKS
11+08	11+31	LT.	25	6'-3"	1.0	27	1		FIELD CHECK LOCATION PRIOR TO CONSTRUCTION
11+27	11+65	RT.	45	6'-3"	1.0	45			FIELD CHECK LOCATION PRIOR TO CONSTRUCTION
11+08 LT.	11+65 RT.	—	70	6'-3"					REMOVE THIS 70'± SECTION OF GUARD RAIL
COLUMN TOTALS						72	1		

TYPE OF CONSTRUCTION:

STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS			EQUATIONS +	EQUATIONS −	REMARKS

AUG 9 1994

REVISED 10-25-91
REVISED 9-11-91

PROJECT BW-RS-BIKE (2S)

STATE OF VERMONT
CHARLES J. GRENIER
NO. 2342
PROFESSIONAL ENGINEER

Charles J. Grenier

TOWN OF STOWE-RIVER WALK
"QUANTITY SHEET"

CHARLES GRENIER
CONSULTING ENGINEER
BOX 445, WATERBURY, VERMONT
244-6413

DATE = 8-23-91
DRN BY = N.A.
SCALE = N.A.
SHT 6 OF 38

JUN 30 1992

6

EARTHWORK SUMMARY

STATION	FINISHED GRADE	DISTANCE	COMMOM EXCAVATION AREA	COMMOM EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME	SUBBASE OF CRUSHED GRAVEL AREA	SUBBASE OF CRUSHED GRAVEL VOLUME	STONE FILL TYPE I AREA	STONE FILL TYPE I VOLUME
BOX CUT										
0+12	700.3		30		0		25		0	
		38		50		0		27		0
0+50	698.6		41		0		14		0	
		25		26		14		13		0
0+75	697.35		15		30		14		0	
		25		7		83		13		0
1+00	696.1		0		150		14		0	
		25		5		139		13	BUTT	13
1+25	694.85		10		150		13		29	
		25		5		125		12		24
1+50	693.6		0		120		13		23	
		25		0		72		11		26
1+75	692.35		0		35		11		33	
		25		0		35		11		26
2+00	691.1		0		40		12		24	
		50		0		71		21		24
2+50	688.6		0		37		11		2	
		50		0		52		19		5
3+00	686.1		0		19		10		3	
		50		3		31		19		3
3+50	684.5		3		14		10		0	
		50		3		29		18		2
4+00	684.6		0		17		9		2	
		50		0		24		16		11
4+50	685.5		0		9		8		10	
		50		7		8		19		9
5+00	686.3		8		0		12		0	
		50		7		21		23		0
5+50	686.4		0		23		13		0	
		50		0		53		24		0
6+00	685.8		0		34		13		0	
		50		0		53		24		0
6+50	685.1		0		23		13		0	
		50		0		68		40		0
7+00	684.3		0		50		30		0	
		50		0		52		38		0
7+50	683.5		0		6		11		0	
		50		0		26		20		5
8+00	685.0		0		22		11		5	
		50		0		39		19		17
8+50	686.4		0		20		9		13	
		50		0		31		17		13
9+00	686.6		0		14		9		1	
		33		9		9		11		1
9+33	685.96		15		0		9		0	
		17		7		3		6		0
9+50	685.4		7		8		9		0	
		50		6		39		19		4
10+00	683.0		0		34		11		4	
		27		0		34		11		8
10+27	681.6		0		34		11		12	
		23		0		25		9		9
10+50	680.7		0		25		11		8	
		40		0		22		17		6
10+90	681.0		BACK 0 AHEAD 27		5		12		0	
		10		10		2		4		0
11+00	681.4		27		5		12		0	
		25		32		2		11		2
11+25	682.1		43		0		12		4	
		5		8		0		2		1
11+30			BACK 43 AHEAD 7		0		12		4	
		20		5		0		8		3
11+50	683.0		7		0		9		5	
		3		1		0		1		1
11+53	683.0		0		0		0		0	
PROJECT TOTALS				191 CY		1162 CY		516 CY		213 CY

NOTE:
CHARLES GRENIER, CONSULTING ENGINEER, P.C. WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT ARISE FROM THE FAILURE OF THE CONTRACTOR TO FOLLOW THE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THAT THE PLANS CONVEY.

LANDSCAPING SPECIFICATIONS
SEEDING FORMULA, ITEM 651.15

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	30	CREEPING RED FESCUE	98	85
31.25	25	KENTUCKY BLUE GRASS	85	75
31.25	25	PERENNIAL RYE GRASS	95	90
100.00	80			

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

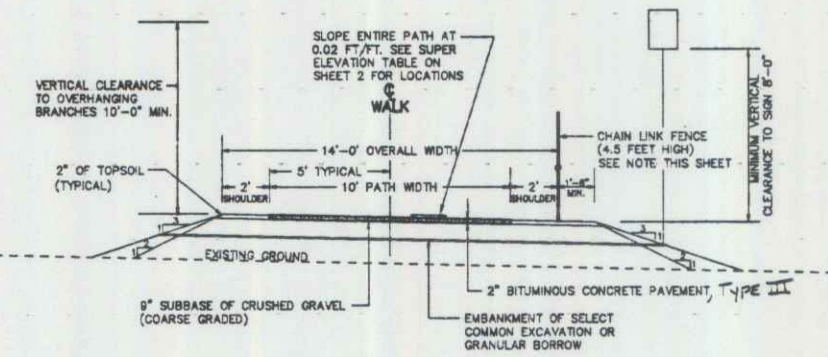
SEED – TO BE APPLIED PER SEEDING FORMULAS DIRECTED BY THE ENGINEER.

FERTILIZER – FORMULA 10–20–10 TO BE USED WITH SEED, APPLIED AT A RATE OF 500 LBS./ACRE.

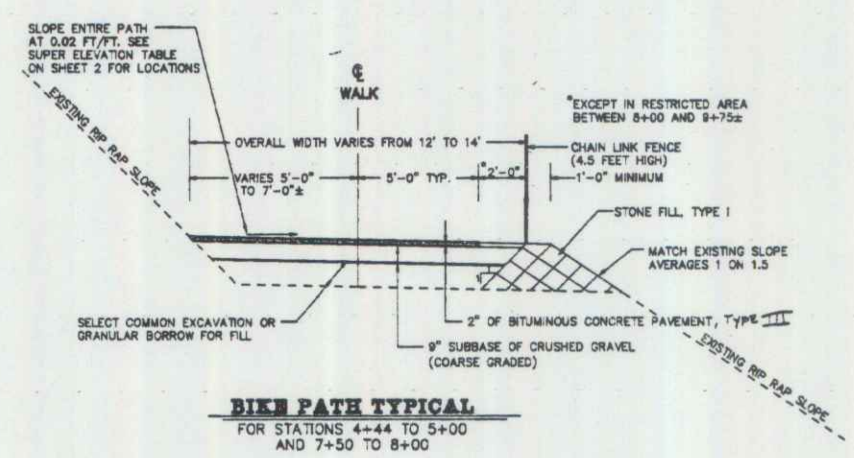
AGRICULTURAL LIMESTONE – TO BE APPLIED AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER.

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

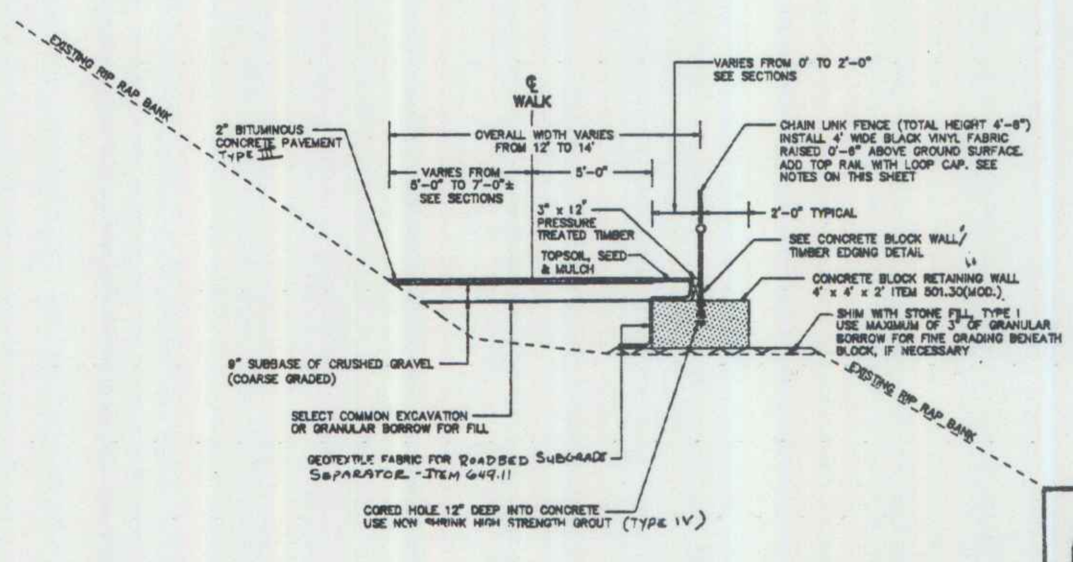
SLOPE ROUNDING – ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B–5.



BIKE PATH TYPICAL
FOR STATION 0+00 TO 1+52± AND 5+00± TO 7+50±



BIKE PATH TYPICAL
FOR STATIONS 4+44 TO 5+00 AND 7+50 TO 8+00



BIKE PATH TYPICAL
FOR SECTIONS 1+52 TO 4+44 AND 8+00 TO 11+20

1. BECAUSE OF THE SHORTAGE OF AVAILABLE TOPSOIL, THE COMMOM EXCAVATION WHICH INCLUDES THE TOPSOIL SHALL BE USED IN THE EMBANKMENT AREAS. NEW TOPSOIL SHALL BE TRUCKED ONTO THE SITE FOR USE ON THE FINISHED SLOPE WITH PAYMENT UNDER ITEM 651.35.

2. THE COST OF TRAFFIC CONTROL IS SUBSIDIARY TO OTHER PAY ITEMS. SEE STANDARDS E100, E101, E102, E106, E107, E107A, AND E110 FOR DETAILS.

3. THE BITUMINOUS CONCRETE PAVEMENT FOR THE PATH SHALL BE PLACED IN ONE 2" THICK LIFT.

4. ITEM 501.30 CONCRETE, CLASS C SHALL BE MODIFIED AS FOLLOWS:
THE CONCRETE BLOCK RETAINING WALLS SHALL BE CONSTRUCTED WITH LARGE CONCRETE BLOCKS WITH DIMENSIONS OF 4' x 4' x 2', OR 2' x 2' x 4'. A 1" DIMENSION TOLERANCE IS ALLOWED. THESE BLOCKS ARE TO BE CONSTRUCTED OF WASTE CONCRETE FROM AREA SUPPLIERS. THE BLOCKS SHALL BE PLACED WITH THE SMOOTHEST FACE OUTWARD. EACH BLOCK SHALL HAVE LIFTING HOOKS WHICH SHALL BE REMOVED AFTER THE BLOCKS ARE IN PLACE. NO REINFORCING STEEL IS NECESSARY. ALL COSTS ASSOCIATED WITH SUPPLYING, DELIVERING, AND PLACING THE BLOCKS AT THE LOCATION AND GRADE SHOWN ON THE PLANS IS INCLUDED IN THE PER CUBIC YARD COST FOR THIS ITEM. THE EXCAVATION NECESSARY TO SET THE BLOCK WALL SHALL BE INCLUDED IN THE COST OF COMMON EXCAVATION. THE COST OF BACKFILLING AGAINST THE BACK OR BASE OF THE WALLS HAS BEEN INCLUDED IN THE COST OF SUBBASE OF CRUSHED GRAVEL, OR STONE FILL, TYPE I.

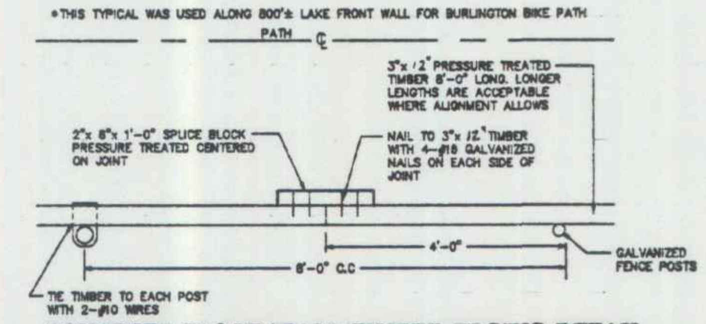
ESTIMATED QUANTITY:

1+52 TO 4+44 RIGHT (TOP ROW)	292' x 4' x 2' ÷ 27 =	86.5 CY
1+58 TO 2+82 RIGHT (BOTTOM ROW)	124' x 4' x 2' ÷ 27 =	36.7 CY
3+46 TO 3+54 LEFT	8' x 4' x 2' ÷ 27 =	2.4 CY
3+46 TO 3+54 LEFT	8' x 2' x 2' ÷ 27 =	1.2 CY
8+00 TO 11+20 RIGHT	320' x 4' x 2' ÷ 27 =	94.8 CY
10+90 TO 11+26 LEFT (14 BLOCKS)	14 x 2' x 2' x 4' ÷ 27 =	8.3 CY
	TOTAL =	229.9 CY

ITEM 620.11 CHAIN LINKED FENCE, 4 FEET SHALL BE MODIFIED AS FOLLOWS.

STANDARD F2 SHALL BE FOLLOWED EXCEPT THAT THE POST SPACING SHALL BE 8'–0" CENTER TO CENTER THROUGHOUT THE PROJECT AS OPPOSED TO THE NORMAL SPACING OF 10'–0". THE FENCING MATERIAL SHALL BE BLACK VINYL COATED FABRIC. THE CHAIN LINK FABRIC SHALL MEET THE REQUIREMENTS OF 727.02. IN ADDITION, A 1–5/8" DIAMETER GALVANIZED TOP RAIL SHALL BE INSTALLED THROUGH A LOOP CAP ON TOP OF EACH POST. FROM STATION 1+52 TO 4+44 AND 8+00 TO 11+20 THE FENCING WILL BE INSTALLED BY DRILLING INTO THE CONCRETE BLOCK RETAINING WALL. THE BLOCKS ARE 4' IN LENGTH AND THE POSTS WILL BE 8' ON CENTER. THE POSTS SHALL BE DRILLED IN THE GEOMETRIC CENTER OF EACH OF THE 4' BLOCKS AND SHALL BE VERTICAL. A 2–1/4" MINIMUM DIAMETER HOLE SHALL BE DRILLED INTO EACH CONCRETE BLOCK TO A DEPTH OF 12". THE POST SHALL BE SET INTO THE HOLE AND PACKED WITH A NON SHRINK HIGH STRENGTH GROUT SUCH AS MASTERFLOW 713 (MASTER BUILDERS) OR EQUIVALENT. THE HEIGHT OF THE TOP BAR OF THE FENCE SHALL BE 4'–6" ABOVE THE GROUND SURFACE. A 4' WIDE SHEET OF WIRE FABRIC SHALL BE USED WITH A 6" SPACE AT THE BOTTOM ABOVE THE GROUND SURFACE. ALL COSTS ASSOCIATED WITH SUPPLYING AND INSTALLING THE 3" x 8" PRESSURE TREATED PLANK BETWEEN THE POSTS ON THE CONCRETE BLOCK RETAINING WALLS SHALL BE INCLUDED IN THE COST OF THIS ITEM. SEE DETAIL THIS SHEET. IT HAS BEEN ESTIMATED THAT THERE IS 612 FEET OF FENCING TO BE INSTALLED INTO THE CONCRETE BLOCK WALL AND 467 FEET INTO NORMAL GROUND AND/OR THE EXISTING RIP RAP. THE CONTRACTOR SHALL ALLOW FOR THE DIFFERENCE IN WORK DURING BIDDING.

*THIS TYPICAL WAS USED ALONG 800'± LAKE FRONT WALL FOR BURLINGTON BIKE PATH



•CONCRETE BLOCK WALL/TIMBER EDGING DETAIL
NTS

AUG 9 1994

JUN 30 1992

STATE OF VERMONT · CHARLES J. GRENIER NO. 3242 · REGISTERED PROFESSIONAL ENGINEER

Charles J. Grenier

TOWN OF STOWE - RIVER WALK
EARTHWORK & TYPICAL SECTIONS

CHARLES GRENIER
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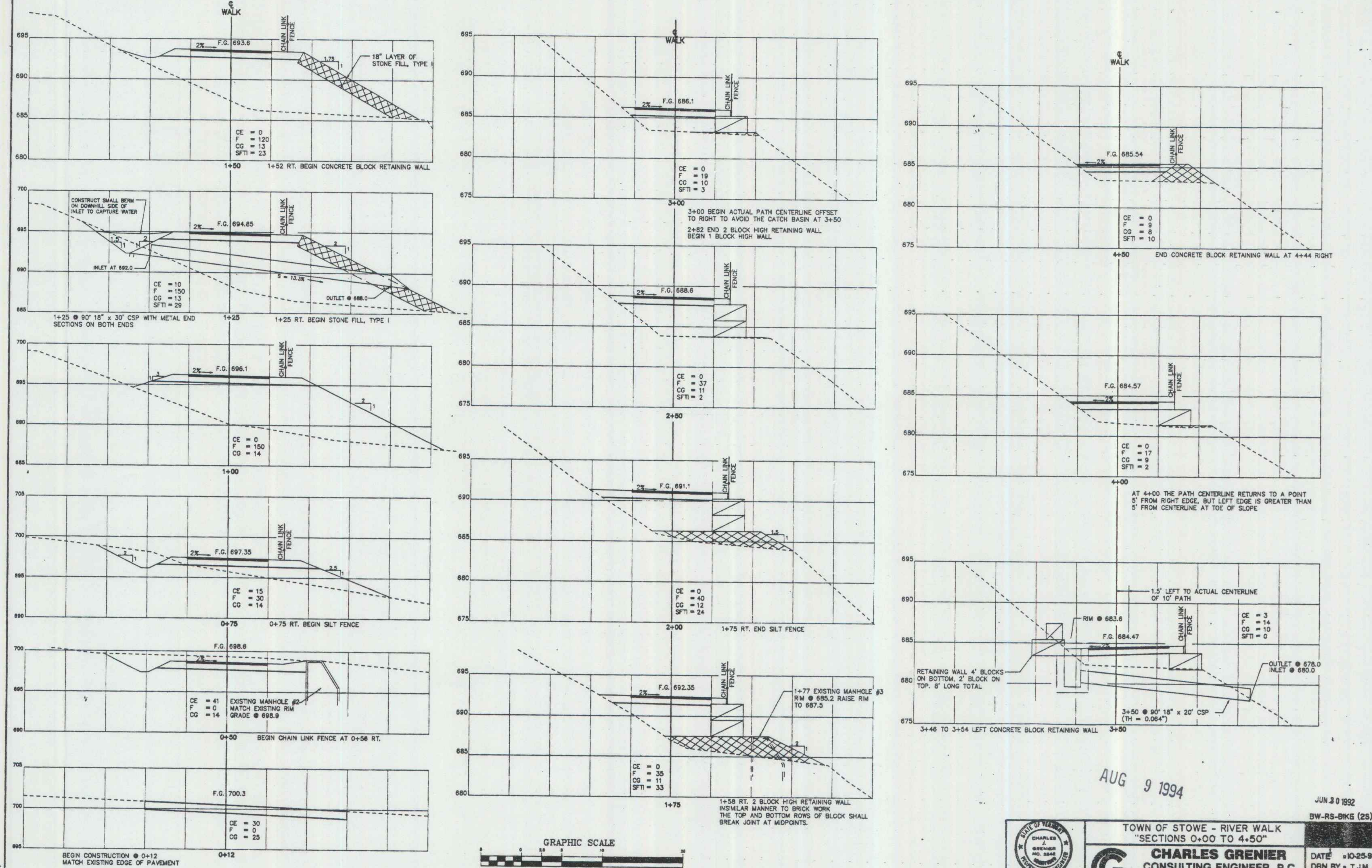
244-6413

DATE = 10-25-91
DRN BY = T.J.M.
SCALE = A/N
SHT 7 OF 38



AUG 9 1994

JUN 30 1992

BW-RS-BIKS (2S)

TOWN OF STOWE - RIVER WALK
"SECTIONS 0+00 TO 4+50"

STATE OF VERMONT
CHARLES J. GRENIER
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DATE = 10-25-91
DRN BY = T.J.M.
SCALE = 1"=5'
SHT 2 OF 38

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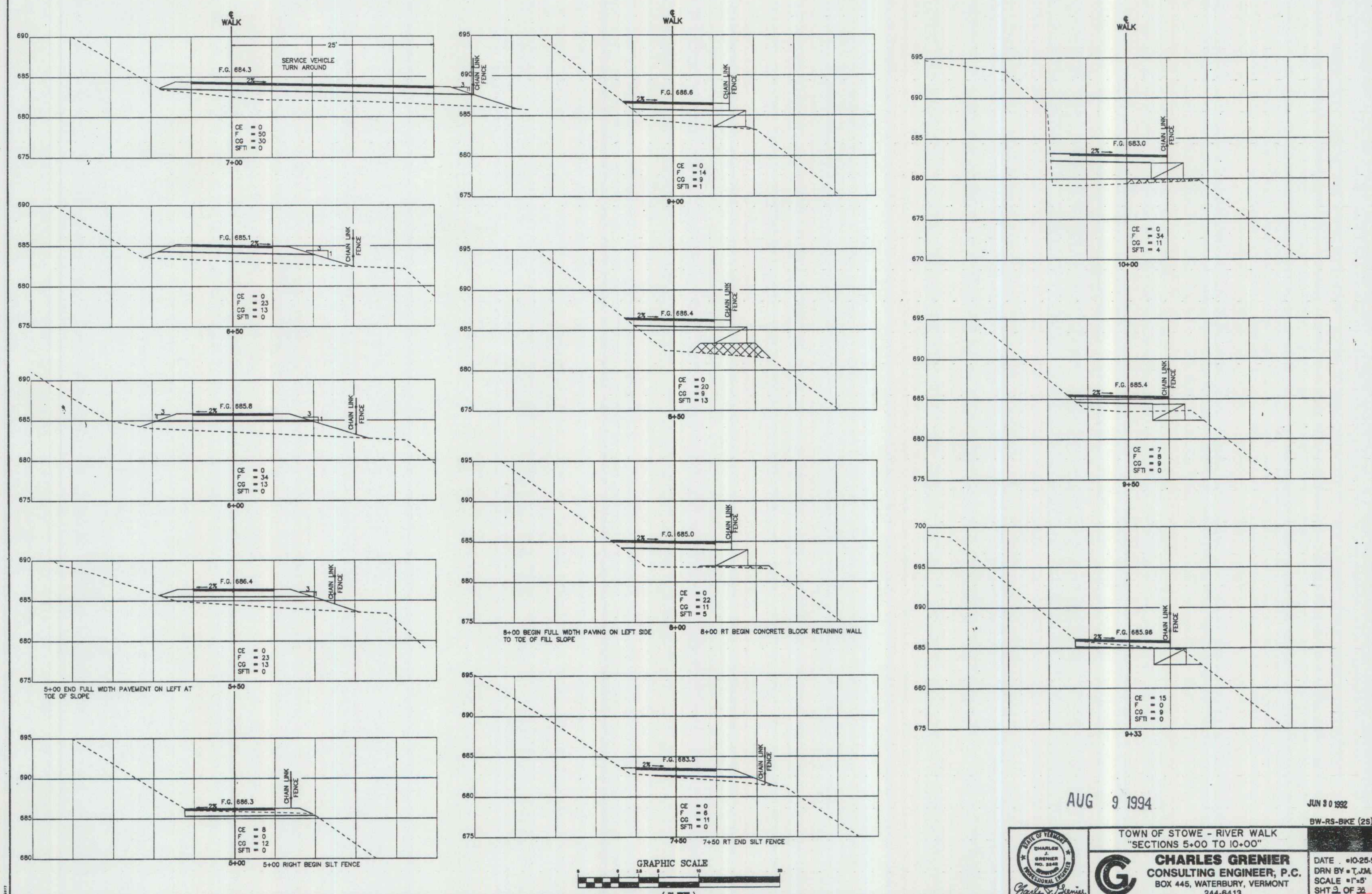

AUG 9 1994

JUN 30 1992

BW-RS-BIKE (2S)

TOWN OF STOWE - RIVER WALK
"SECTIONS 5+00 TO 10+00"

[redacted]

STATE OF VERMONT
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Charles J. Grenier

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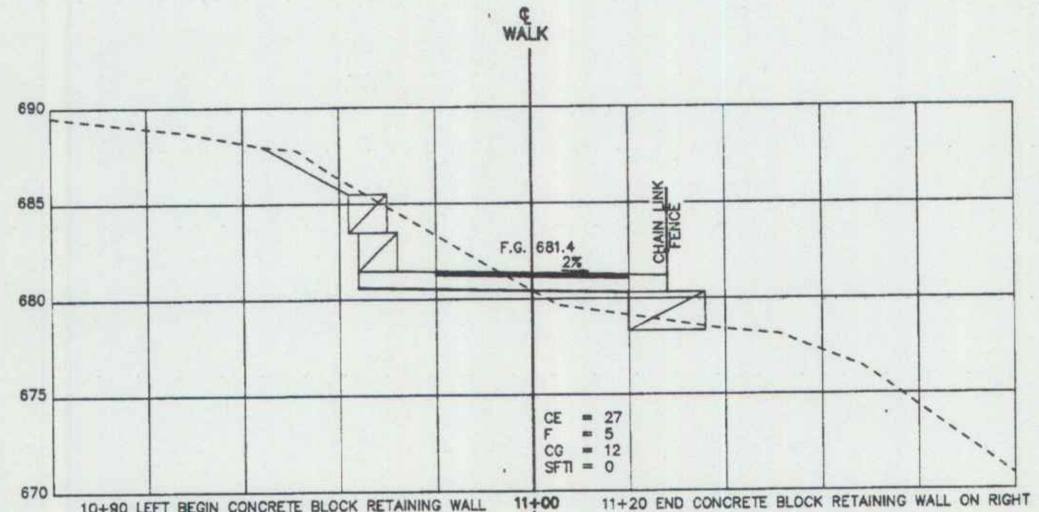
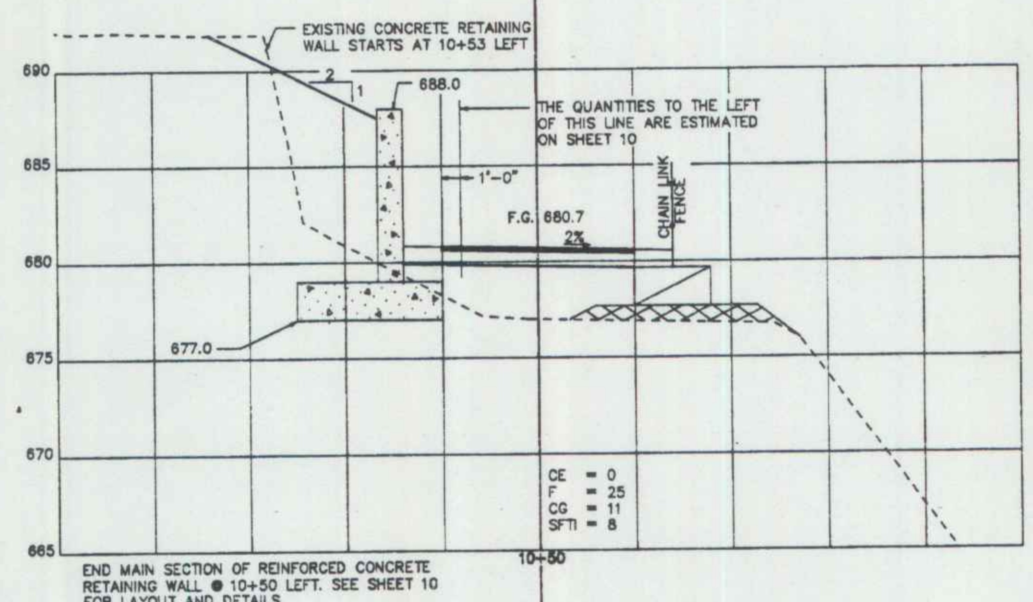
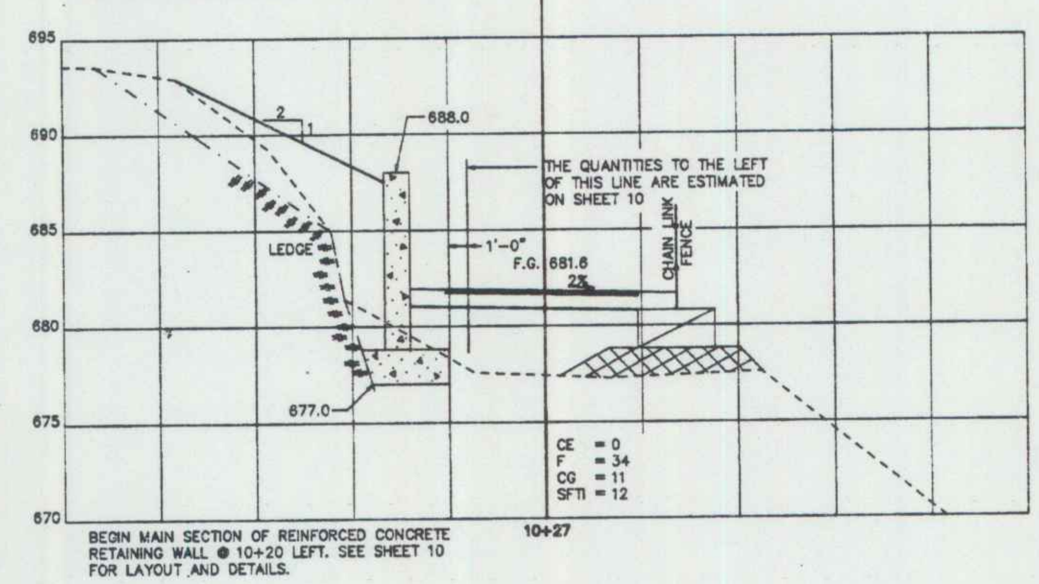
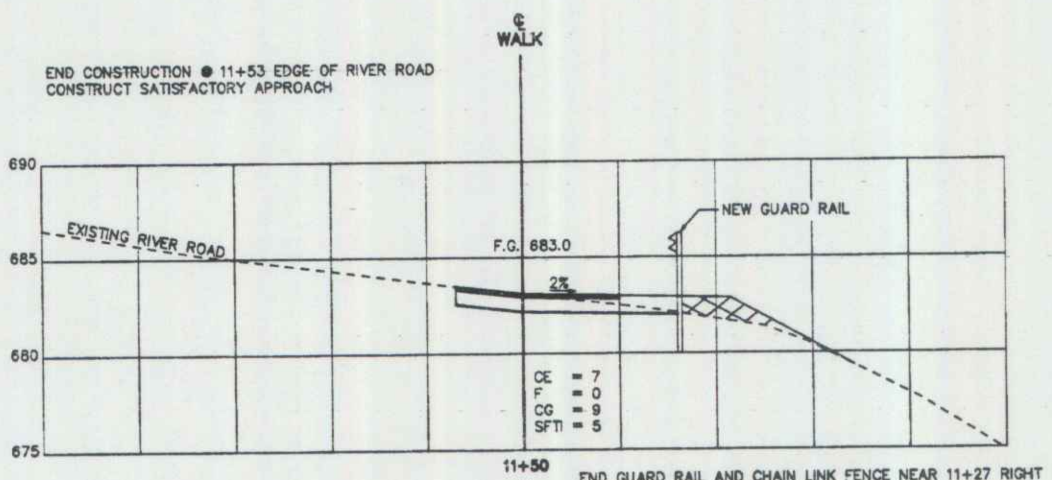
DATE . 10-25-91
DRN BY . T.J.M.
SCALE . 1"=5'
SHT 9 OF 26

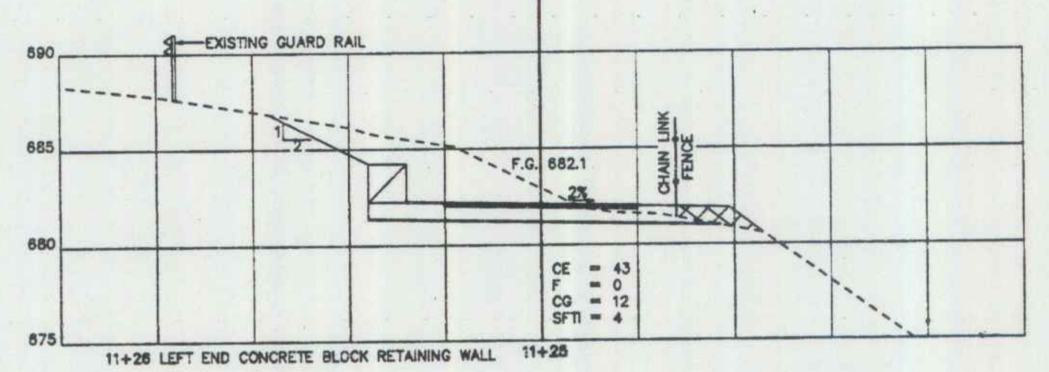
9









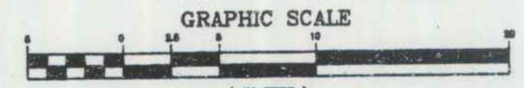


AUG 9 1994

JUN 30 1992

BW-RS-BIKE (23)

GRAPHIC SCALE



STATE OF VERMONT CHARLES A. GRENIER No. 3848 REGISTERED PROFESSIONAL ENGINEER

Charles A. Grenier

TOWN OF STOWE - RIVER WALK
"SECTIONS 10+25 TO 11+50"

[redacted]

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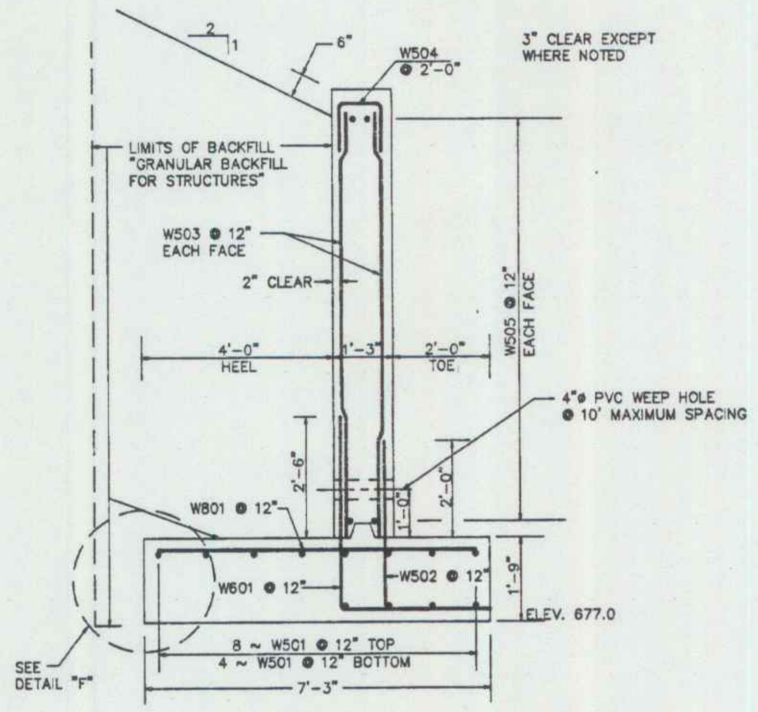
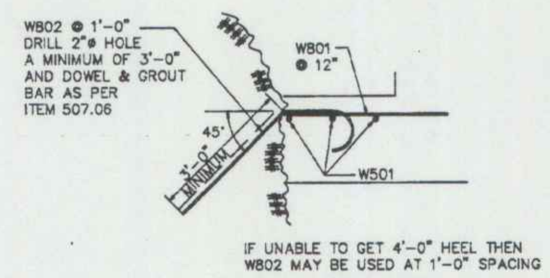
DATE = 10-25-91
DRN BY = T.J.M.
SCALE = 1"=5'
SHT 10 OF 28

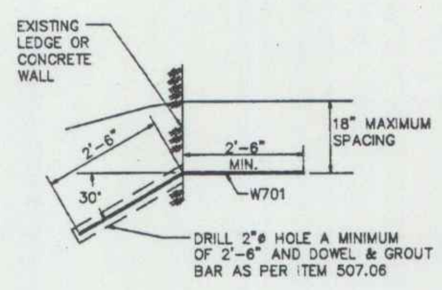
10



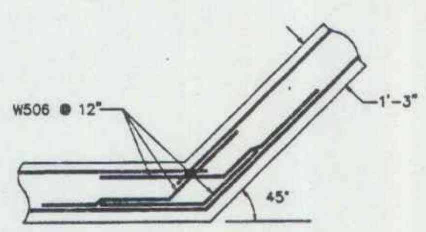
SECTION A – A
WALL TYPICAL
SCALE: 1/2" = 1'



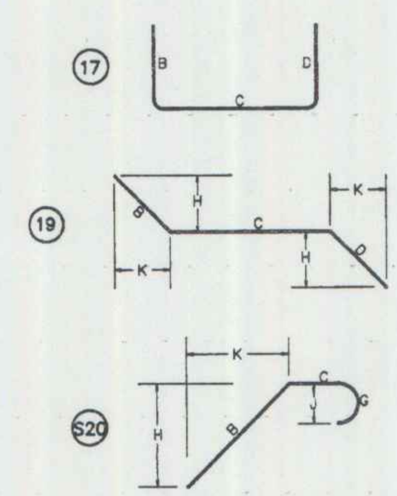
DETAIL "F"
SCALE: 1/2" = 1'



DETAIL "G"
SCALE: 1/2" = 1'



CORNER DETAIL
SCALE: 1/2" = 1'



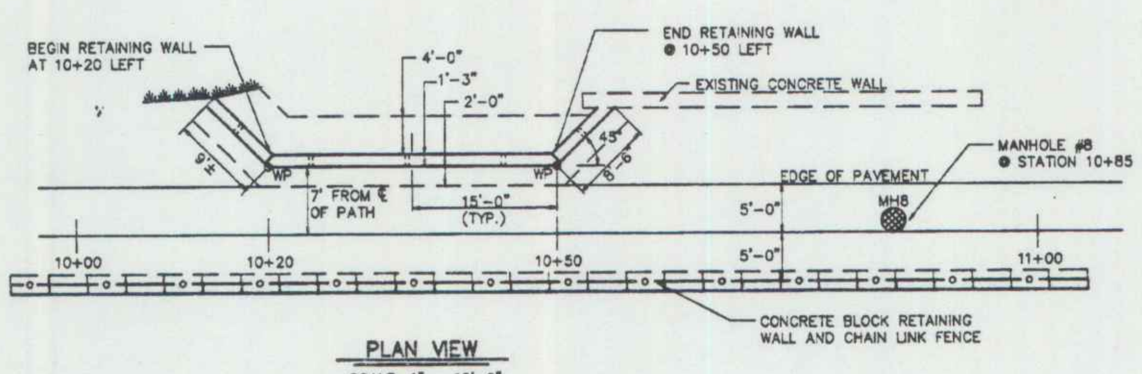
REBAR NOTES

1. ALL REINFORCEMENT FOR CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET – STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M31 (ASTM A 615), GRADE 60.

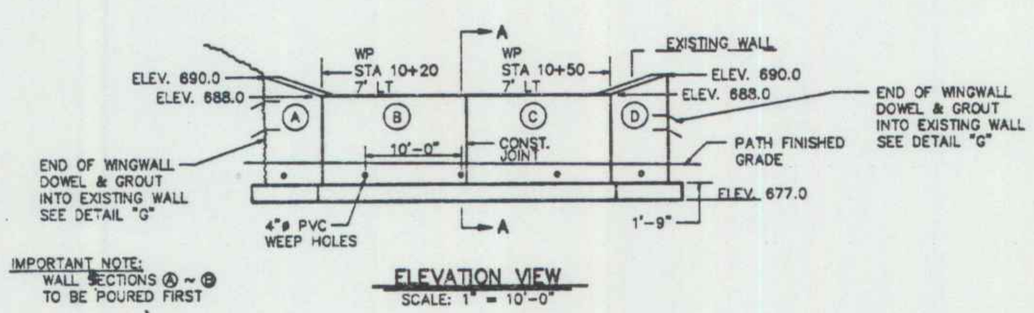
2. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.

REBAR WEIGHT

#5	1.043
#6	1.502
#7	2.044
#8	2.670



PLAN VIEW
SCALE: 1" = 10'-0"



IMPORTANT NOTE:
WALL SECTIONS Ⓐ ~ Ⓓ TO BE POURED FIRST

ELEVATION VIEW
SCALE: 1" = 10'-0"

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION DATED MARCH 1990 AND THE A.A.S.H.T.O. STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES DATED 1990 AND ITS LATEST REVISIONS.

2. ALL CONCRETE IS TO BE STATE OF VERMONT CLASS "B" WITH 28 DAY STRENGTH OF 3500 PSI.

3. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" x 1" UNLESS OTHERWISE NOTED.

4. ALL CONCRETE SHALL BE CURED AS PER VERMONT AGENCY OF TRANSPORTATION SPECIFICATIONS, SECTION 501.

5. WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE.

6. MINIMUM REBAR SPLICE LENGTH 2'-0".

NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	G	H	J	K	TOTAL WEIGHT
		SECTION A											
12	5	10'-0"	AW501	STR									125
10	5	3'-9"	AW502	↕									39
20	5	11'-0"	AW503		▲								229
24	5	10-0"	AW505	STR	▲								250
10	8	6'-9"	AW801	STR									180
5	5	2'-10"	AW504	17		1'-0"	0'-10"	1'-0"					15
30	5	5'-0"	AW506	19		2'-6"	2'-6"	—		1'-9"		1'-9"	156
10	6	6'-10"	AW601	17		2'-10"	4'-0"	—					102
8	7	5'-0"	AW701	19		2'-6"	2'-6"	—		1'-3"		2'-2"	82
10	8	4'-11"	AW802	S20		3'-0"	1'-0"		0"-11"	2'-1"	0-8"	2'-1"	131
		SECTION B											
12	5	18'-0"	BW501	STR									225
15	5	3'-9"	BW502	↕									59
30	5	9'-0"	BW503										282
20	5	17'-0"	BW505										355
15	8	6'-9"	BW801	STR									270
8	5	2'-10"	BW504	17		1'-0"	0'-10"	1'-0"					24
15	6	6'-10"	BW601	17		2'-10"	4'-0"	—					154
5	8	4'-11"	BW802	S20		3'-0"	1'-0"		0'-11"	2'-1"	0'-8"	2'-1"	68
		SECTION C											
12	5	16'-0"	CW501	STR									200
15	5	3'-9"	CW502	↕									59
30	5	9'-0"	CW503										282
20	5	15'-0"	CW505										313
15	8	6'-9"	CW801	STR									270
8	5	2'-10"	CW504	17		1'-0"	0'-10"	1'-0"					24
15	6	6'-10"	CW601	17		2'-10"	4'-0"	—					154
2	8	4'-11"	CW802	S20		3'-0"	1'-0"		0'-11"	2'-1"	0'-8"	2'-1"	26
		SECTION D											
12	5	9'-6"	DW501	STR									119
10	5	3'-9"	DW502	↕									39
20	5	10'-6"	DW503										219
24	5	9'-9"	DW505		▲								244
10	8	6'-9"	DW801	STR	▲								180
5	5	2'-10"	DW504	17		1'-0"	0'-10"	1'-0"					15
30	5	5'-0"	DW506	19		2'-6"	2'-6"	—		1'-9"		1'-9"	156
10	6	6'-10"	DW601	19		2'-10"	4'-0"	—					102
8	7	5'-0"	DW701	19		2'-6"	2'-6"	—		1'-3"		2'-2"	82
8	8	4'-11"	DW802	S20		3'-0"	1'-0"		0'-11"	2'-1"	0"-8"	2'-1"	103

▲ = CUT TO FIT IN FIELD

ESTIMATED QUANTITIES

ITEM 204.25	STRUCTURE EXCAVATION	68 CUBIC YARDS
ITEM 204.30	GRANULAR BACKFILL FOR STRUCTURES	87 CUBIC YARDS
ITEM 501.25	CONCRETE, CLASS B	43.5 CUBIC YARDS
ITEM 507.15	REINFORCING STEEL	5331 POUNDS
ITEM 507.16	DRILLING AND GROUTING DOWELS	115 LINEAR FEET
ITEM 514.10	WATER REPELLENT	2 GALLONS

AUG 9 1994

JUN 30 1992

BW-RS-BIKE (2S)

STATE OF VERMONT CHARLES J. GRENIER NO. 3342 REGISTERED PROFESSIONAL ENGINEER

Charles J. Grenier

TOWN OF STOWE – RIVER WALK
"DETAILS OF RETAINING WALL AT 10+25"

CHARLES GRENIER
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DATE = 10-25-91
DRN BY = T.J.M.
SCALE = A/N
SHT 11 OF 38

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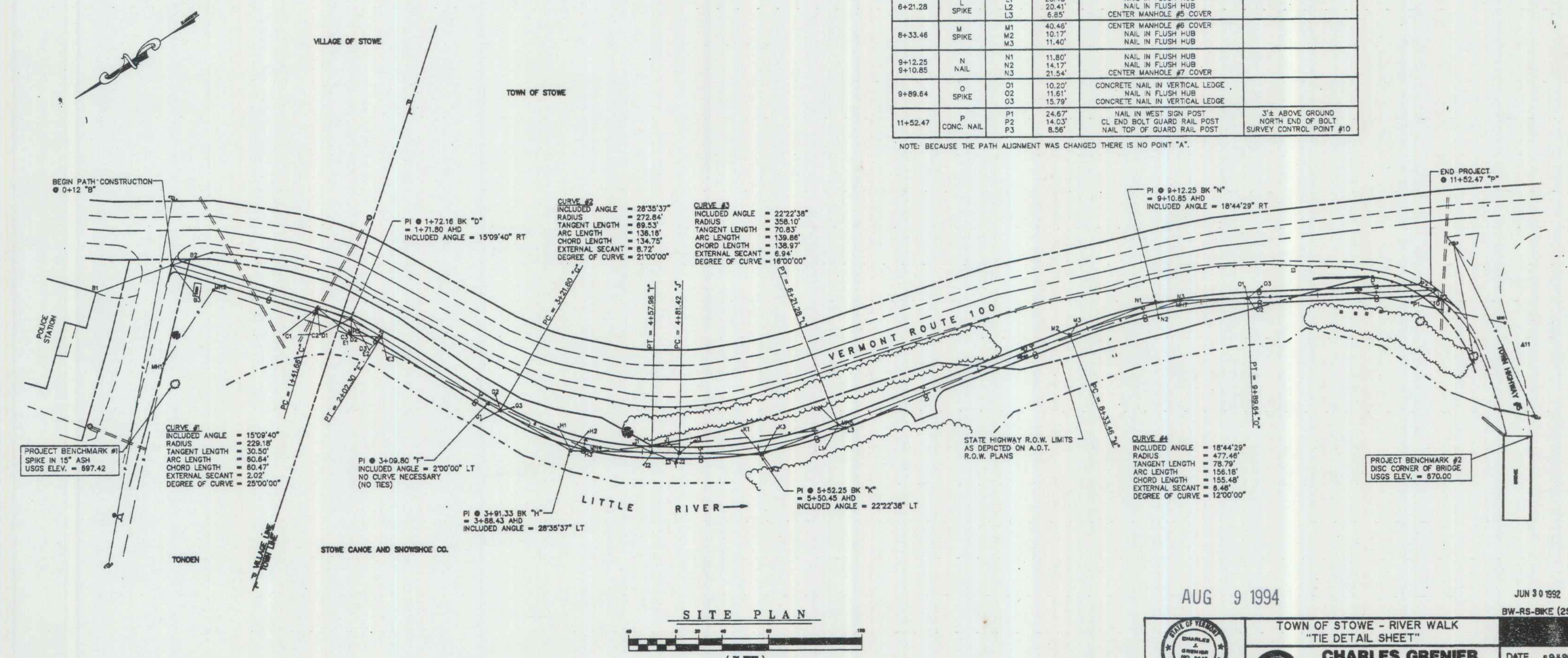
TANGENT LINE BEARINGS

STATION	TIE #	BEARING	DISTANCE
0+12 TO 1+41.66	B TO C	S 50°48'41" W	129.66'
1+41.66 TO 1+72.16 BK 1+71.80 AHD	C TO D	S 50°48'41" W	30.50'
1+72.16 BK TO 2+02.30 1+71.80 AHD	D TO E	S 65°58'21" W	30.50'
2+02.30 TO 3+09.80	E TO F	S 65°58'21" W	107.70'
3+09.80 TO 3+21.80	F TO G	S 63°58'21" W	11.80'
3+21.80 TO 3+91.33 BK 3+88.43 AHD	G TO H	S 63°58'21" W	69.53'
3+91.33 BK TO 4+57.96 3+88.43 AHD	H TO I	S 35°22'44" W	69.53'
4+57.96 TO 4+81.42	I TO J	S 35°22'44" W	23.46'
4+81.42 TO 5+52.25 BK 5+40.45 AHD	J TO K	S 35°22'44" W	70.83'
5+52.25 BK TO 6+21.28 5+50.45 AHD	K TO L	S 13°00'06" W	70.83'
6+21.28 TO 8+33.46	L TO M	S 13°00'06" W	212.18'
8+33.46 TO 9+12.25 BK 9+10.85 AHD	M TO N	S 13°00'06" W	78.79'
9+12.25 BK TO 9+89.64 9+10.85 AHD	N TO O	S 31°44'35" W	78.79'
9+89.64 TO 11+52.47	O TO P	S 31°44'35" W	162.83'

TIE DISTANCE TABLE

STATION	DESC.	TIE #	DISTANCE	DESCRIPTION	REMARKS
0+12	B SPIKE	B1 B2 B3	69.20' 21.37' 33.97'	CORNER BRICK POLICE STATION (9TH ROW) NAIL IN FIRST GUARD RAIL POST NAIL TOP CENTER WEST END SIGN PLANTER	
1+41.66	C SPIKE	C1 C2 C3	31.81' 22.41' 37.11'	NAIL IN FLUSH HUB NAIL IN FLUSH HUB CENTER MANHOLE #3 COVER	
1+72.16 1+71.80	D SPIKE	D1 D2 D3	30.12' 14.44' 31.02'	NAIL IN FLUSH HUB CENTER MANHOLE #3 COVER NAIL IN FLUSH HUB	SAME AS C2 SAME AS C3 AND E1 SAME AS E2
2+02.30	E SPIKE	E1 E2 E3	26.20' 15.16' 19.41'	CENTER MANHOLE #3 COVER NAIL IN FLUSH HUB NAIL IN FLUSH HUB	SAME AS C3 AND D2 SAME AS D3
3+09.80	F SPIKE	F1 F2 F3	– – –	NO TIES NECESSARY	SEE POINT "G" NEARBY
3+21.80	G SPIKE	G1 G2 G3	18.92' 13.89' 11.78'	NAIL IN FLUSH HUB NAIL IN FLUSH HUB NAIL IN FLUSH HUB	
3+91.33 3+88.43	H SPIKE	H1 H2 H3	22.96' 22.19' 18.59'	NAIL IN FLUSH HUB NAIL IN FLUSH HUB CENTER MANHOLE #4 COVER	
4+57.96	I SPIKE	I1 I2 I3	17.74' 12.81' 22.35'	NAIL IN FLUSH HUB NAIL IN FLUSH HUB SPIKE S1 FLUSH	SURVEY CONTROL POINT
4+81.42	J SPIKE	J1 J2 J3	12.64' 8.24' 16.34'	SPIKE FLUSH SPIKE S1 FLUSH SPIKE FLUSH	SAME AS I3
5+52.25 5+50.45	K SPIKE	K1 K2 K3	27.12' 14.15' 26.51'	NAIL IN FLUSH HUB NAIL IN FLUSH HUB NAIL IN FLUSH HUB	
6+21.28	L SPIKE	L1 L2 L3	23.48' 20.41' 6.85'	NAIL IN FLUSH HUB NAIL IN FLUSH HUB CENTER MANHOLE #5 COVER	
8+33.46	M SPIKE	M1 M2 M3	40.46' 10.17' 11.40'	CENTER MANHOLE #6 COVER NAIL IN FLUSH HUB NAIL IN FLUSH HUB	
9+12.25 9+10.85	N NAIL	N1 N2 N3	11.80' 14.17' 21.54'	NAIL IN FLUSH HUB NAIL IN FLUSH HUB CENTER MANHOLE #7 COVER	
9+89.64	O SPIKE	O1 O2 O3	10.20' 11.61' 15.79'	CONCRETE NAIL IN VERTICAL LEDGE NAIL IN FLUSH HUB CONCRETE NAIL IN VERTICAL LEDGE	
11+52.47	P CONC. NAIL	P1 P2 P3	24.67' 14.03' 8.56'	NAIL IN WEST SIGN POST CL END BOLT GUARD RAIL POST NAIL TOP OF GUARD RAIL POST	3'± ABOVE GROUND NORTH END OF BOLT SURVEY CONTROL POINT #10

NOTE: BECAUSE THE PATH ALIGNMENT WAS CHANGED THERE IS NO POINT "A".



AUG 9 1994

JUN 30 1992

BW-RS-BIKE (2S)

TOWN OF STOWE - RIVER WALK
"TIE DETAIL SHEET"

[redacted]

STATE OF VERMONT CHARLES J. GRENIER NO. 3848 PROFESSIONAL ENGINEER

Charles J. Grenier

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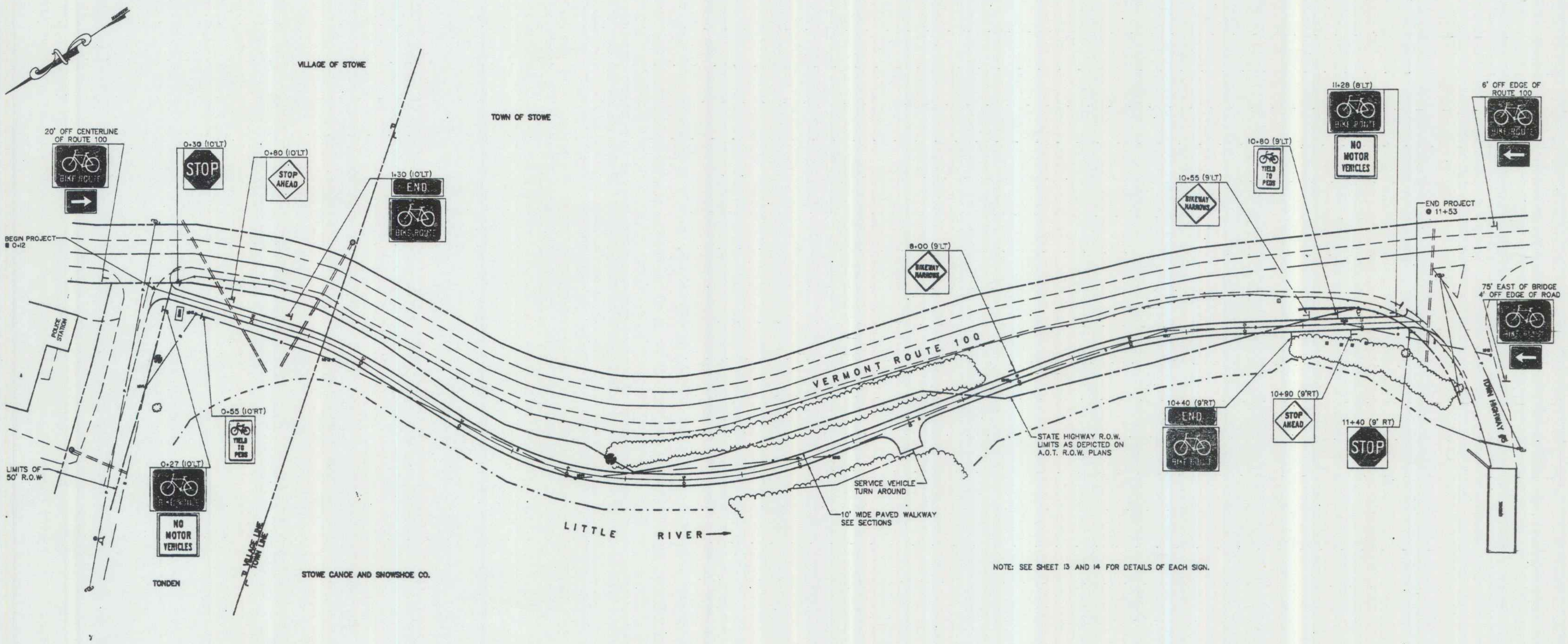
DATE = 9-4-91
DRN BY = T.J.M.
SCALE = 1"=40'
SHT 12 OF 38

REVISED 10-25-91

12



SITE PLAN

(IN FEET)

AUG 9 1994

JUN 30 1992

PROJECT
BW-RS-BIKE (2S)

TOWN OF STOWE - RIVER WALK
"SIGN LOCATION PLAN"

[redacted]

STATE OF VERMONT
CHARLES J. GRENIER
NO. 3842
PROFESSIONAL ENGINEER

Charles J. Grenier

CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

DATE = 9-11-91
DRN BY = T.J.M.
SCALE = A/N
SHT 13 OF 28

REVISED 10-25-91

13

TRAFFIC SIGN SUMMARY

STATION	SIGN LEGEND	SIGN DIMENSIONS	NEW SIGNS SF	# OF POSTS	FLANGED CHANNEL LB/FT	REMARKS	PLAN SHEET #	STD SHEET #
-0+32 LT	BIKE ROUTE	24 X 18	3.0	1	3	SEE DETAIL A ON ROUTE 100 SOUTHBOUND, NORTH OF DRIVE TO POLICE STATION	14	
	→	12 X 9	0.8			SEE DETAIL B BELOW PREVIOUS SIGN ON SAME POST	14	
0+27 RT	BIKE ROUTE	24 X 18	3.0	1	3	SEE DETAIL A FACING SOUTHBOUND TRAFFIC	14	
	NO MOTOR VEHICLES	24 X 24	4.0			SEE DETAIL D BELOW PREVIOUS SIGN ON SAME POST	14	
0+30 LT	STOP	18 X 18	2.3	1	3	SEE DETAIL G FACING NORTHBOUND TRAFFIC	14	
0+55 RT	YIELD TO PEDS	12 X 18	1.5	1	3	SEE DETAIL C FACING SOUTHBOUND TRAFFIC	14	
0+80 LT	STOP AHEAD	18 X 18	2.3	1	3	SEE DETAIL H FACING NORTHBOUND TRAFFIC	14	
1+30 LT	END	24 X 6	1.0	1	3	SEE DETAIL E FACING NORTHBOUND TRAFFIC	14	
	BIKE ROUTE	24 X 18	3.0			SEE DETAIL A BELOW PREVIOUS SIGN ON SAME POST	14	
8+00 LT	BIKEWAY NARROWS	18 X 18	2.3	1	3	SEE DETAIL F FACING SOUTHBOUND TRAFFIC	14	
10+40 RT	END	24 X 6	1.0	1	3	SEE DETAIL E FACING SOUTHBOUND TRAFFIC	14	
	BIKE ROUTE	24 X 18	3.0			SEE DETAIL A BELOW PREVIOUS SIGN ON SAME POST	14	

STATION	SIGN LEGEND	SIGN DIMENSIONS	NEW SIGNS SF	# OF POSTS	FLANGED CHANNEL LB/FT	REMARKS	PLAN SHEET #	STD SHEET #
10+55 LT	BIKEWAY NARROWS	18 X 18	2.3	1	3	SEE DETAIL F FACING NORTHBOUND TRAFFIC	14	
10+90 RT	STOP AHEAD	18 X 18	2.3	1	3	SEE DETAIL H FACING SOUTHBOUND TRAFFIC	14	
10+80 LT	YIELD TO PEDS	12 X 18	1.5	1	3	SEE DETAIL C FACING NORTHBOUND TRAFFIC	14	
11+28 LT	BIKE ROUTE	24 X 18	3.0	1	3	SEE DETAIL A FACING NORTHBOUND TRAFFIC	14	
	NO MOTOR VEHICLES	24 X 24	4.0			SEE DETAIL D BELOW PREVIOUS SIGN ON SAME POST	14	
11+40 RT	STOP	18 X 18	2.3	1	3	SEE DETAIL G FACING SOUTHBOUND TRAFFIC	14	
12+20 RT	BIKE ROUTE	24 X 18	3.0	1	3	SEE DETAIL A ON SOUTHSIDE OF RIVER ROAD–T.H.#5 75' EAST OF BRIDGE	14	
	←	12 X 9	0.8			SEE DETAIL B BELOW PREVIOUS SIGN ON SAME POST	14	
12+60 LT	BIKE ROUTE	24 X 18	3.0	1	3	SEE DETAIL A ON ROUTE 100 NORTHBOUND, ACROSS FROM RIVER ROAD INTERSECTION	14	
	←	12 X 9	0.8			SEE DETAIL B BELOW PREVIOUS SIGN ON SAME POST	14	

TOTAL SIGN AREA = 50.2

15 = TOTAL # OF POSTS

585 = TOTAL POUNDS *

* THE POSTS LENGTHS ARE TO BE DETERMINED IN THE FIELD. FOR ESTIMATING PURPOSES 13' AVERAGE POST LENGTH WAS USED.

ALL SIGNS ARE TO BE A MINIMUM OF 8' CLEAR ABOVE THE GROUND SURFACE.

AUG 9 1994

JUN 30 1992

PROJECT BW-RS-BIKE (2S)

STATE OF VERMONT
CHARLES J. GRENIER
NO. 2846
PROFESSIONAL ENGINEER

Charles J. Grenier

REVISED 10-25-91

TOWN OF STOWE - RIVER WALK
"TRAFFIC SIGN SUMMARY"

CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

DATE = 9-4-91
DRN BY = T.J.M.
SCALE = N/A
SHT 14 OF 30

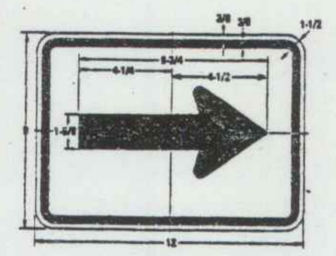
D11-1

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	J	K
STD. & MIN.	24	18	1/2	1-1/2	7	3-1/2	3C	5-1/2	9-1/2	1-1/2
SPECIAL	30	24	5/8	1-7/8	8-3/4	4-3/8	4C	6-7/8	12-1/2	1-1/2

COLORS

LEGEND – WHITE (REFL)
BACKGROUND – GREEN

DETAIL A



M7-1

COLORS
LEGEND – BLACK (NON-REFL)
BACKGROUND – WHITE (REFL) } WHEN USED w/ M1-8 SIGN

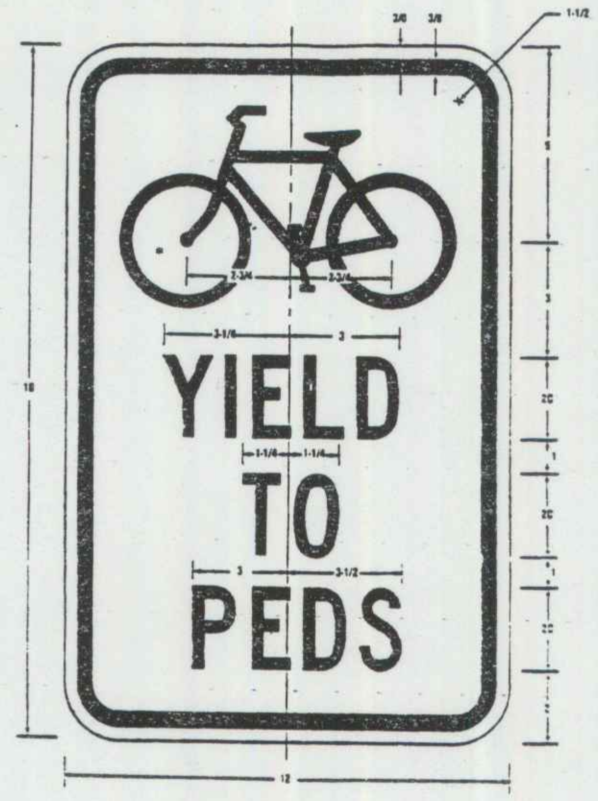
* LEGEND – WHITE
BACKGROUND – GREEN } WHEN USED w/D11-1 & M1-8 SIGNS

DETAIL B

M4-12

COLORS: LEGEND–WHITE (REFL)
BACKGROUND–GREEN (REFL)
*INCREASE SPACING 10%

DETAIL E



R9-6

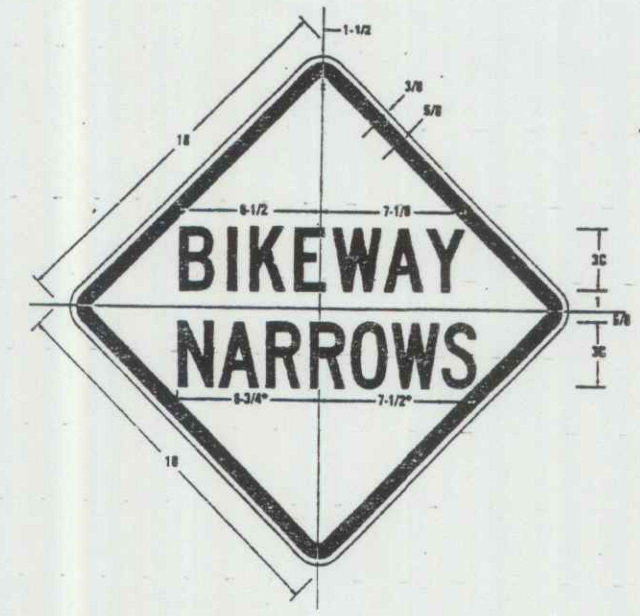
COLORS: LEGEND – BLACK (NON-REFL)
BACKGROUND–WHITE (REFL)

DETAIL C

R5-3

COLORS
LEGEND – BLACK (NON-REFL)
BACKGROUND–WHITE (REFL)

DETAIL D

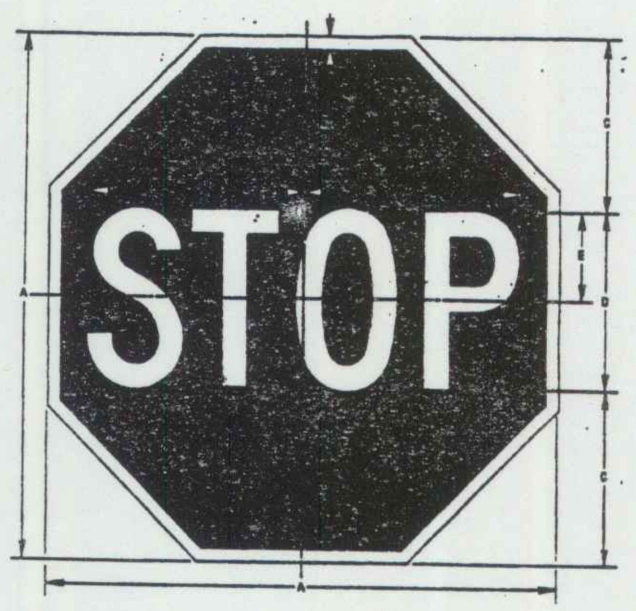


W5-4

COLORS: LEGEND & BORDER – BLACK (NON-REFL)
BACKGROUND – YELLOW (REFL)

*REDUCE SPACING 50%

DETAIL F



R1-1

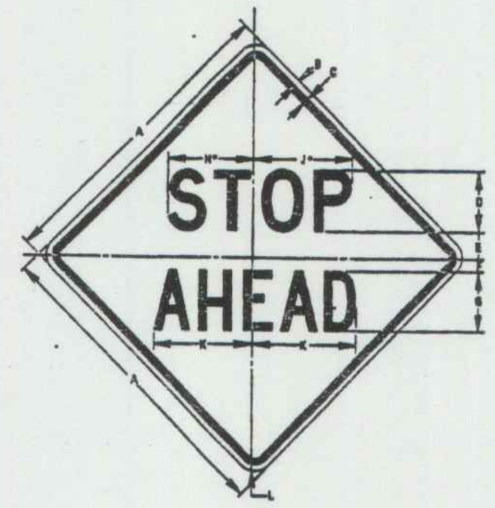
*Reduce spacing 40%

SIGN	DIMENSIONS (INCHES)					
	A	B	C	D	E	F
BIKE	18	3/8	6	6C	3	7-3/4
MIN	24	5/8	8	8C	4	10
STD.	30	3/4	10	10C	5	12-1/2
EXPWY.	36	7/8	12	12C	6	15
SPECIAL	48	1-1/4	16	16C	8	20

COLORS

LEGEND – WHITE (REFL)
BACKGROUND – RED (REFL)

DETAIL G



W3-1

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
BIKE	18	3/8	5/8	3D	1-3/4	3/4	3C	4-3/4	5-1/4	5-3/8	1-1/2
MIN.	24	1/2	3/4	6D	2-1/2	1-1/4	6C	9	9-7/8	10-1/2	1-7/8
STD.	30	5/8	7/8	7D	3	1-1/2	7C	10-1/2	11-9/16	12-1/4	2-1/4
SPECIAL	48	3/4	1-1/4	9D	4	2	9C	13-1/2	14-13/16	16-3/4	3

COLORS

LEGEND – BLACK (NON-REFL)
BACKGROUND – YELLOW (REFL)

DETAIL H

AUG 9 1994

JUN 30 1992

PROJECT
BW-RS-BIKE (2S)

REVISED 10-25-91

STATE OF VERMONT
CHARLES J. GRENIER
NO. 3542
REGISTERED
PROFESSIONAL ENGINEER

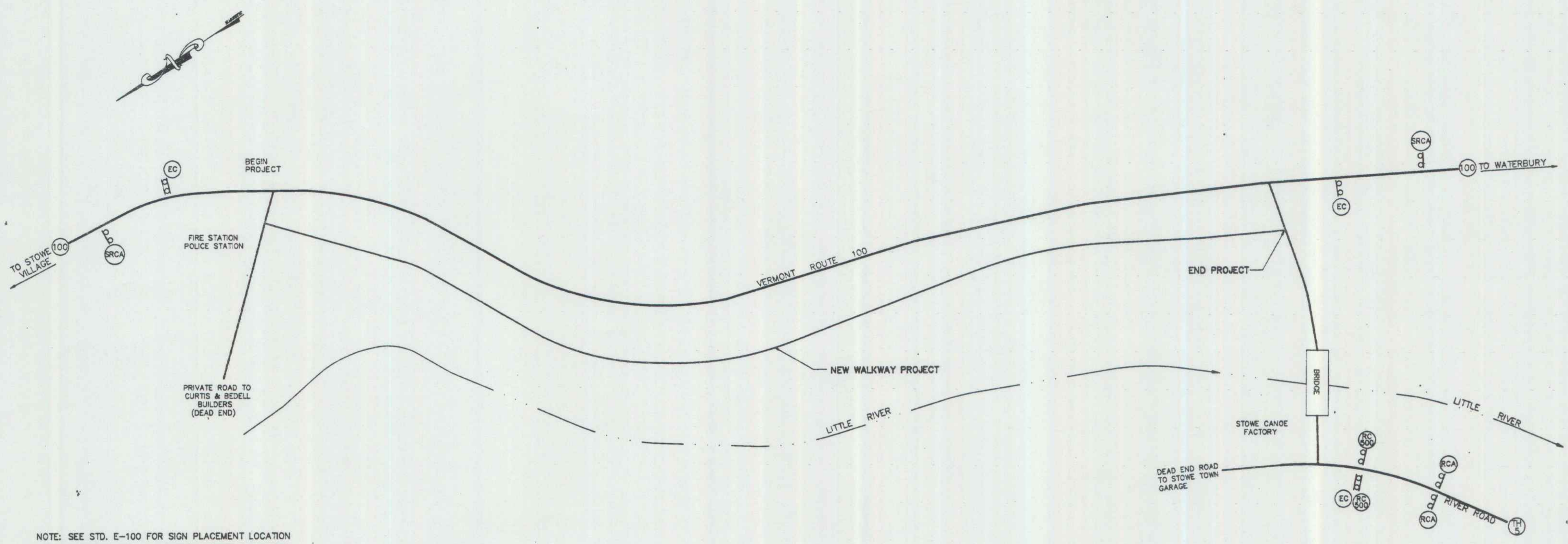
Charles J. Grenier

TOWN OF STOWE – RIVER WALK
"SIGN DETAIL SHEET"

CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

DATE = 9-4-91
DRN BY = T.J.M.
SCALE = A/N
SHT 15 OF 38

15



NOTE: SEE STD. E–100 FOR SIGN PLACEMENT LOCATION

LEGEND

- SRCA = SIDE ROAD CONSTRUCTION AHEAD
- RCA = ROAD CONSTRUCTION AHEAD
- RC 500 = ROAD CONSTRUCTION 500 FT
- RCN = ROAD CONSTRUCTION NEXT 0.25 MILES
- EC = END CONSTRUCTION

AUG 9 1994

JUN 3 0 1992 PROJECT BW-RS-BIKE (2S)

TOWN OF STOWE - RIVER WALK
"CONSTRUCTION APPROACH SIGNING"

STATE OF VERMONT CHARLES J. GRENIER NO. 3242 REGISTERED PROFESSIONAL ENGINEER

Charles J. Grenier

CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

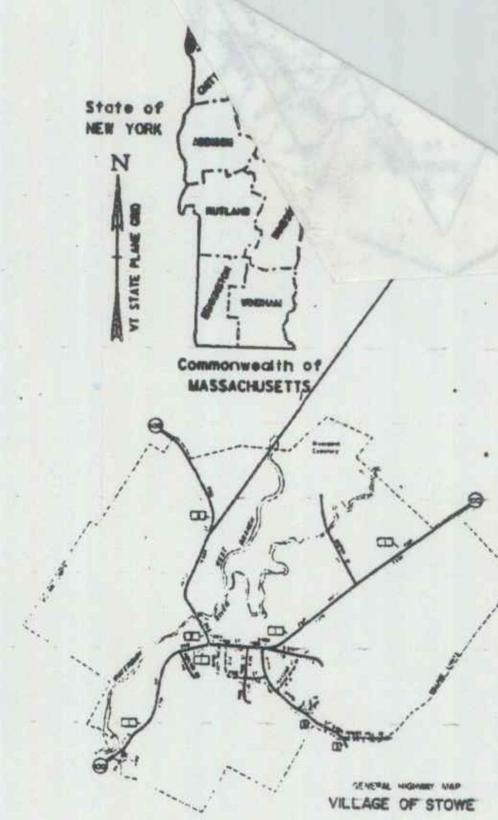
DATE = 9-4-91
DRN BY = T.J.M.
SCALE = A/N
SHT 16 OF 38

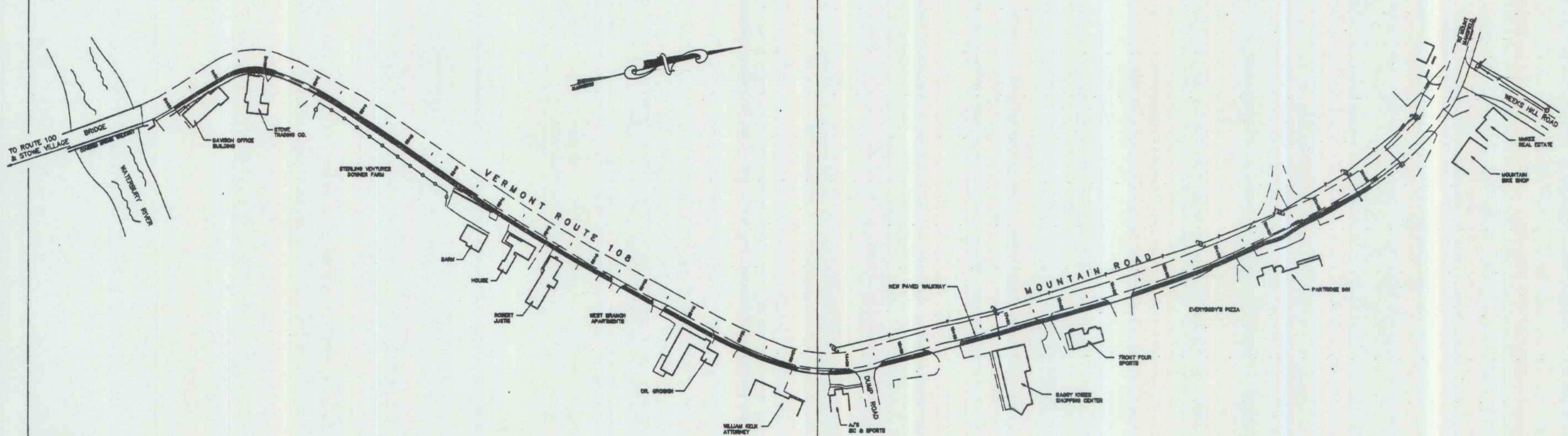
REVISED 10-25-91

16

VILLAGE OF STOWE

MOUNTAIN ROAD WALK





INDEX OF SHEETS

APPLICABLE A.O.T. STANDARDS	
B-5	SLOPE GRADING, EMBANKMENT, MUCK
C-1	CURBS, BITUMINOUS CONCRETE SIDEWALKS
C-3	SIDEWALK RAMPS
E-100	CONSTRUCTION APPROACH SIGNS
E-101	CONSTRUCTION SIGN DETAILS
1-102	CONSTRUCTION SIGN DETAILS
E-106	TRAFFIC CONTROL, MISCELLANEOUS DETAILS
E-107	DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS
E-107A	BREAKAWAY BARRICADE DETAILS
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE
E-121	STANDARD SIGN PLACEMENT – CONVENTIONAL ROAD
G-1	STEEL BEAM GUARD RAIL
G-14	BREAKAWAY CABLE TERMINAL WITH WOOD POSTS

GRAPHIC SCALE

(IN FEET)

0.49 – 0.58

PROJECT SCOPE:

THIS PROJECT INVOLVES THE CONSTRUCTION OF A BITUMINOUS CONCRETE SIDEWALK ALONG THE EAST SIDE OF VERMONT ROUTE 108 WITHIN THE VILLAGE OF STOWE STARTING AT THE COVERED BRIDGE WALKWAY OVER THE WATERBURY RIVER AND ENDING SOME 2400'± AWAY BEYOND THE PARTRIDGE INN. EXCAVATION AND PLACING A GRAVEL SUBBASE WILL BE REQUIRED.

AUG 9 1994

JUN 30 1992

PROJECT
BW-RS-BIKE (29)

"TITLE SHEET"
STOWE MOUNTAIN ROAD WALK

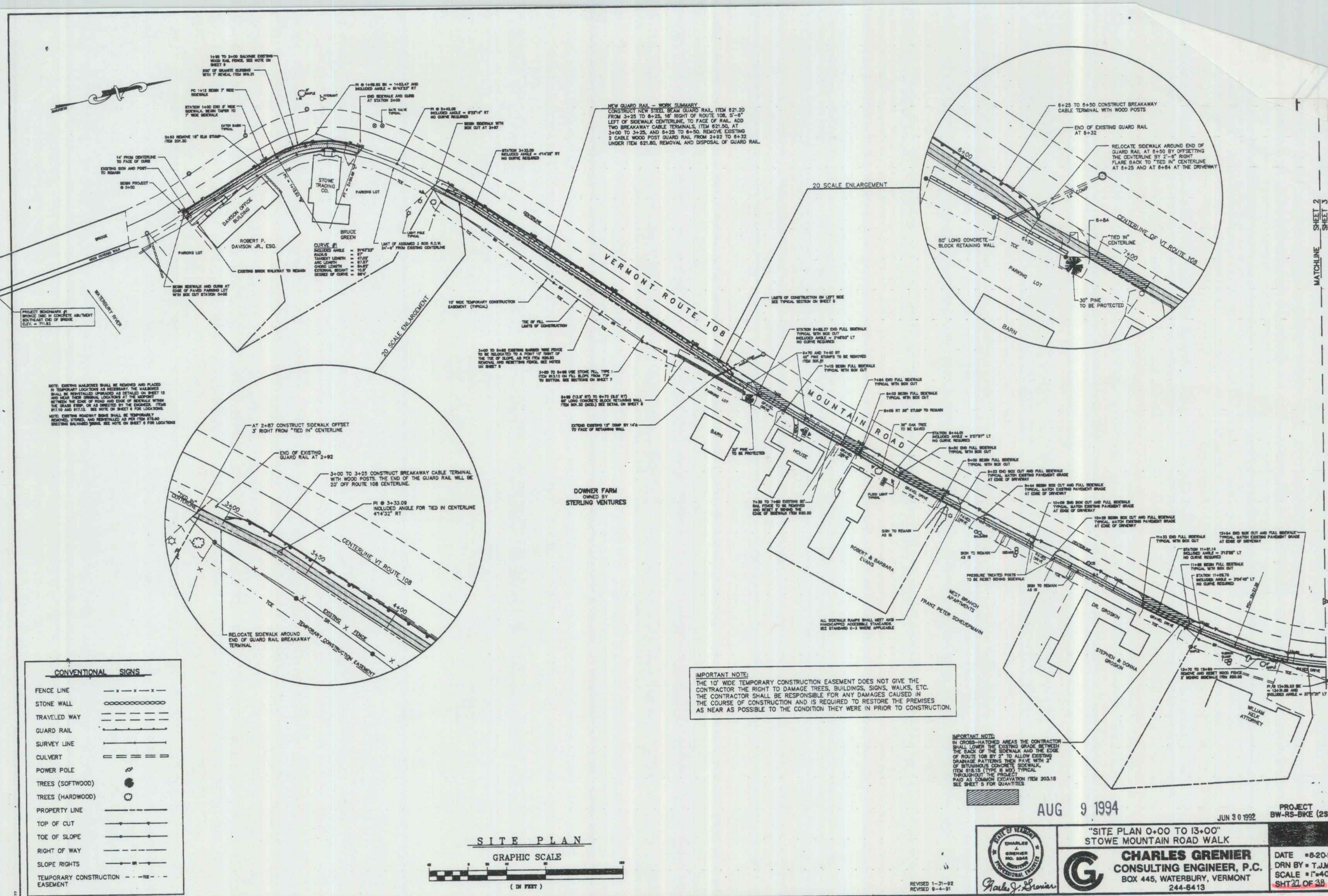
STATE OF VERMONT
CHARLES J. GRENIER
NO. 5242
PROFESSIONAL ENGINEER

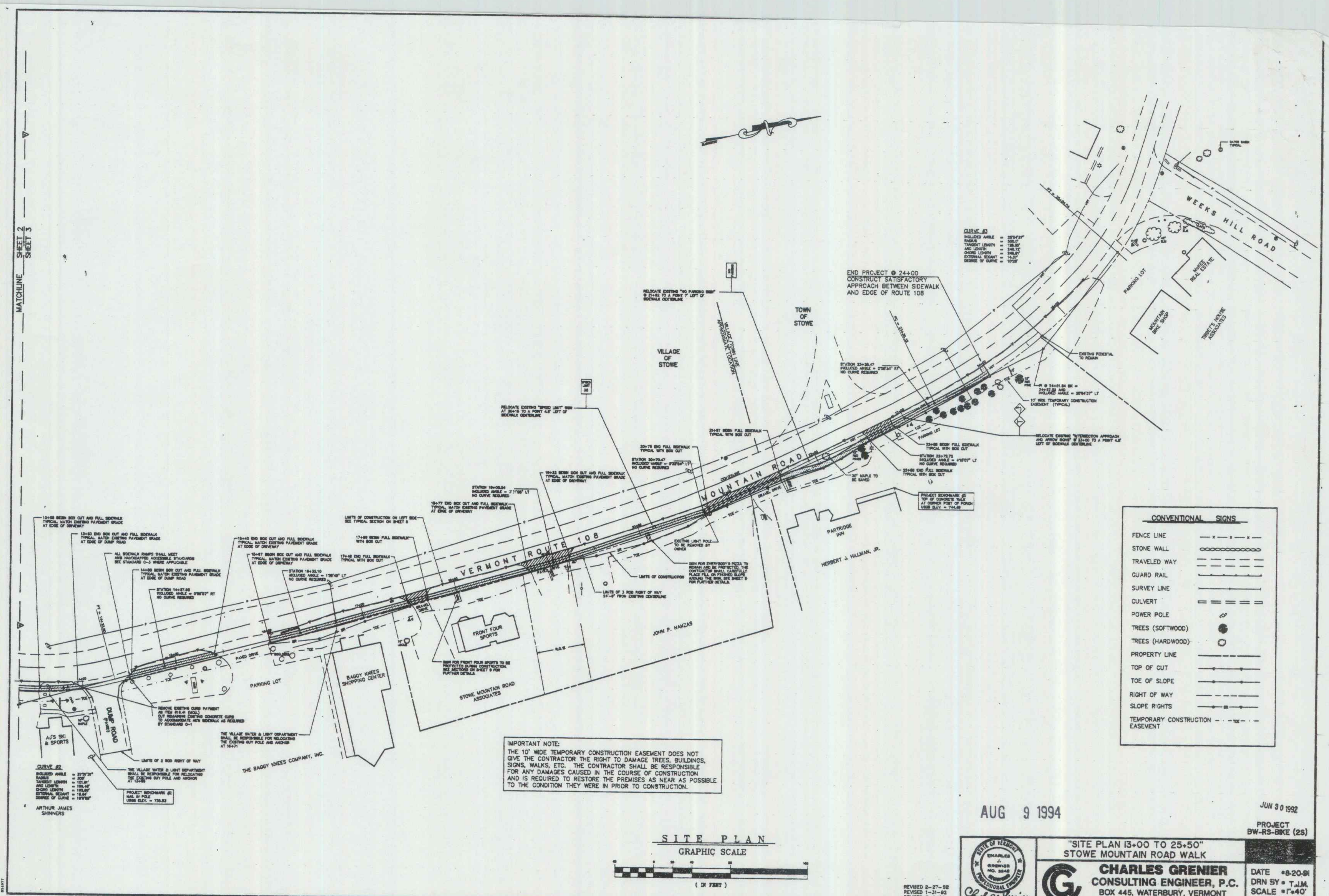
Charles J. Grenier

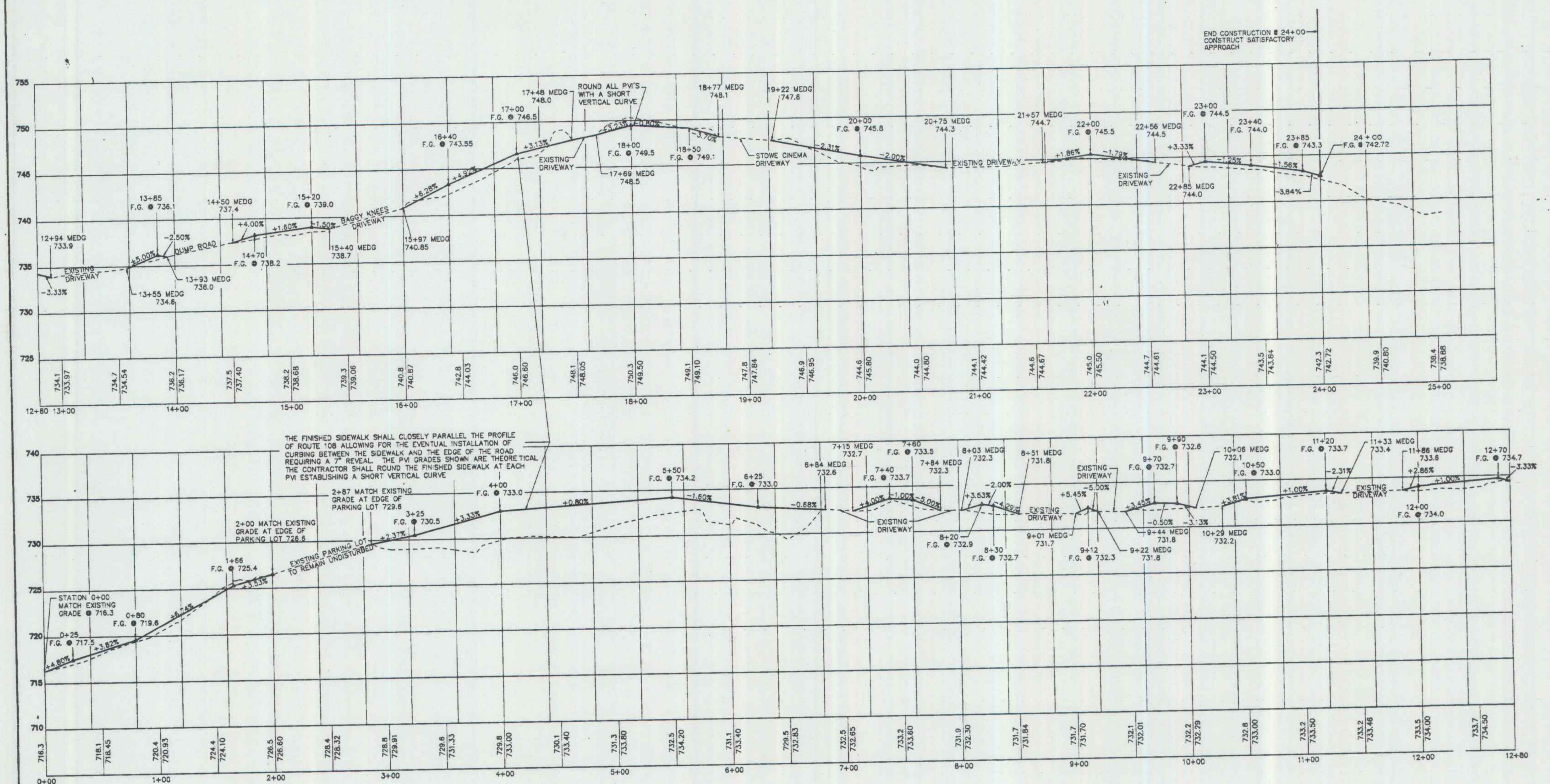
REVISED 1-31-92
REVISED 9-4-91
REVISED 8-20-91

CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

DATE = 8-14-91
DRN. BY = T.J.M.
SCALE = 1"=100'
SHT 26 OF 38


VERMONT ROUTE 108
MOUNTAIN ROAD
20 SCALE ENLARGEMENT
NEW GUARD RAIL – WORK SUMMARY
CONSTRUCT NEW STEEL BEAM GUARD RAIL, ITEM 621.20 FROM 3+25 TO 6+25, 16' RIGHT OF ROUTE 108, 5'–6" LEFT OF SIDEWALK CENTERLINE, TO FACE OF RAIL. ADD TWO BREAKAWAY CABLE TERMINALS, ITEM 621.50, AT 3+00 TO 3+25, AND 6+25 TO 6+50. REMOVE EXISTING 2 CABLE WOOD POST GUARD RAIL FROM 2+92 TO 6+32 UNDER ITEM 621.80, REMOVAL AND DISPOSAL OF GUARD RAIL.
STOWE TRADING CO.
DAVISON OFFICE BUILDING
ROBERT P. DAVISON JR., ESQ.
BRUCE GREEN
PARKING LOT
BARN
HOUSE
DOWNER FARM
OWNED BY
STERLING VENTURES
ROBERT & BARBARA EVANS
WEST BRANCH APARTMENTS
FRANZ PETER SCHEUERMANN
DR. GROSKIN
STEPHEN & DONNA GROSKIN
WILLIAM KELK ATTORNEY
MATCHLINE SHEET 2 SHEET 3
6+25 TO 6+50 CONSTRUCT BREAKAWAY CABLE TERMINAL WITH WOOD POSTS
END OF EXISTING GUARD RAIL AT 6+32
RELOCATE SIDEWALK AROUND END OF GUARD RAIL AT 6+50 BY OFFSETTING THE CENTERLINE BY 2'–6" RIGHT FLARE BACK TO "TIED IN" CENTERLINE AT 6+25 AND AT 6+84 AT THE DRIVEWAY
80' LONG CONCRETE BLOCK RETAINING WALL
"TIED IN" CENTERLINE
CENTERLINE OF VT ROUTE 108
30" PINE TO BE PROTECTED
AT 2+87 CONSTRUCT SIDEWALK OFFSET 3' RIGHT FROM "TIED IN" CENTERLINE
END OF EXISTING GUARD RAIL AT 2+92
3+00 TO 3+25 CONSTRUCT BREAKAWAY CABLE TERMINAL WITH WOOD POSTS. THE END OF THE GUARD RAIL WILL BE 20' OFF ROUTE 108 CENTERLINE.
PI @ 3+33.09 INCLUDED ANGLE FOR TIED IN CENTERLINE 4°14'32" RT
CENTERLINE VT ROUTE 108
EXISTING FENCE
TEMPORARY CONSTRUCTION EASEMENT
RELOCATE SIDEWALK AROUND END OF GUARD RAIL BREAKAWAY TERMINAL
IMPORTANT NOTE:
THE 10' WIDE TEMPORARY CONSTRUCTION EASEMENT DOES NOT GIVE THE CONTRACTOR THE RIGHT TO DAMAGE TREES, BUILDINGS, SIGNS, WALKS, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED IN THE COURSE OF CONSTRUCTION AND IS REQUIRED TO RESTORE THE PREMISES AS NEAR AS POSSIBLE TO THE CONDITION THEY WERE IN PRIOR TO CONSTRUCTION.
CONVENTIONAL SIGNS
FENCE LINE
STONE WALL
TRAVELED WAY
GUARD RAIL
SURVEY LINE
CULVERT
POWER POLE
TREES (SOFTWOOD)
TREES (HARDWOOD)
PROPERTY LINE
TOP OF CUT
TOE OF SLOPE
RIGHT OF WAY
SLOPE RIGHTS
TEMPORARY CONSTRUCTION EASEMENT
SITE PLAN
GRAPHIC SCALE
(IN FEET)
AUG 9 1994
JUN 3 0 1992
PROJECT
BW-RS-BIKE (29)
"SITE PLAN 0+00 TO 13+00"
STOWE MOUNTAIN ROAD WALK
CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413
DATE = 8-20-91
DRN BY = T.J.M.
SCALE = 1"=40'
SHT 20 OF 38
REVISED 1-31-92
REVISED 9-4-91


MATCHLINE SHEET 2 / SHEET 3
VERMONT ROUTE 108
MOUNTAIN ROAD
WEEKS HILL ROAD
VILLAGE OF STOWE
TOWN OF STOWE
END PROJECT @ 24+00
CONSTRUCT SATISFACTORY APPROACH BETWEEN SIDEWALK AND EDGE OF ROUTE 108
DUMP ROAD
A.J'S SKI & SPORTS
PARKING LOT
BAGGY KNEES SHOPPING CENTER
THE BAGGY KNEES COMPANY, INC.
FRONT FOUR SPORTS
STOWE MOUNTAIN ROAD ASSOCIATES
JOHN P. HANZAS
PARTRIDGE INN
HERBERT J. HILLMAN, JR.
ARTHUR JAMES SHINNERS
PARKING LOT
IMPORTANT NOTE:
THE 10' WIDE TEMPORARY CONSTRUCTION EASEMENT DOES NOT GIVE THE CONTRACTOR THE RIGHT TO DAMAGE TREES, BUILDINGS, SIGNS, WALKS, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED IN THE COURSE OF CONSTRUCTION AND IS REQUIRED TO RESTORE THE PREMISES AS NEAR AS POSSIBLE TO THE CONDITION THEY WERE IN PRIOR TO CONSTRUCTION.
CONVENTIONAL SIGNS
FENCE LINE
STONE WALL
TRAVELED WAY
GUARD RAIL
SURVEY LINE
CULVERT
POWER POLE
TREES (SOFTWOOD)
TREES (HARDWOOD)
PROPERTY LINE
TOP OF CUT
TOE OF SLOPE
RIGHT OF WAY
SLOPE RIGHTS
TEMPORARY CONSTRUCTION EASEMENT
SITE PLAN
GRAPHIC SCALE
(IN FEET)
AUG 9 1994
JUN 30 1992
PROJECT BW-RS-BIKE (2S)
"SITE PLAN 13+00 TO 25+50"
STOWE MOUNTAIN ROAD WALK
CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413
STATE OF VERMONT CHARLES J. GRENIER NO. 3642 PROFESSIONAL ENGINEER
REVISED 2-27-92
REVISED 1-31-92
REVISED 9-4-91
DATE = 8-20-91
DRN BY = T.J.M.
SCALE = 1"=40'
SHT 28 OF 38



NOTE: MEDG = MATCH EXISTING DRIVEWAY GRADE

NEW MOUNTAIN ROAD WALK PROFILE

GRAPHIC SCALE (HORIZONTAL)

(IN FEET)

GRAPHIC SCALE (VERTICAL)

(IN FEET)

AUG 9 1994

JUN 30 1992

PROJECT BW-RS-BIKE (25)

"CENTERLINE PROFILE"
STOWE MOUNTAIN ROAD WALK

STATE OF VERMONT — CHARLES J. GRENIER — No. 3446 — PROFESSIONAL ENGINEER

Charles J. Grenier

CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

REVISED 1-31-92
REVISED 9-4-91

DATE = 6-14-91
DRN BY = T.J.M.
SCALE = 1"=40'
SHT 22 OF 58

20

EARTHWORK SUMMARY

STATION	FINISHED GRADE	DISTANCE	COMMOM EXCAVATION AREA	COMMOM EXCAVATION VOLUME	SUBBASE OF GRAVEL AREA	SUBBASE OF GRAVEL VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME
BOX CUT								
0+00	716.3		10.5		9		0	
		22		8		8		1
0+22	717.4		8		10.5		1	
		22		7		9		1
0+44	718.2		8		10.5		1	
		6		2		2		0
0+50	718.5		8		10.5		1	
		30		8		12		2
0+80	719.6		7		10.5		2.5	
		20		5		8		1
1+00	720.9		7		10.5		0	
		50		21		20		0
1+50	724.1		16		11		0	
		16		9		7		0
1+66	725.4		15		11		0	
		34		18		14		0
2+00	726.6		14		11		0	
BOX CUT								
2+87	729.6		7.5		6.5		0	
		13		2		4		2
3+00	729.9		2		9.5		8	
		50		2		17		31
3+50	731.3		0		8.5		25	
		50		0		17		67
4+00	733.0		0		10		47	
		50		0		17		95
4+50	733.4		0		8.5		56	
		50		0		15		100
5+00	733.8		0		8		52	
		50		2		15		89
5+50	734.2		2.5		8.5		44	
		50		2		46		41
6+00	733.4		0		41		0	
		50		3		63		0
6+50	732.8		3		27.5		0	
		34		8		21		1
6+84	732.6		9		6.5		1	
BOX CUT								
7+15	732.7		7.5		6.5		1.5	
		35		9		8		3
7+50	733.6		6		6.5		2.5	
		34		9		8		2
7+84	732.3		7.5		6.5		0	
BOX CUT								
8+03	732.3		7.5		6.5		0	
		47		12		11		0
8+50	731.8		6		6.5		0	
BOX CUT								
9+00	731.7		7		6.5		0	
		22		6		5		0
9+22	731.8		7		6.5		0	
BOX CUT								
9+44	731.8		7.5		6.5		0	
		6		2		2		0
9+50	732.0		7.5		6.5		0	
		50		14		12		0
10+00	732.3		7.5		6.5		0	
		6		2		2		0
10+06	732.1		7.5		6.5		0	
BOX CUT								
10+29	732.2		7.5		6.5		1	
		21		6		5		1
10+50	733.0		7.5		6.5		1	
		50		14		12		2
11+00	733.5		7.5		6.5		1	
		33		9		8		1
11+33	733.4		7.5		6.5		0	
COLUMN SUBTOTALS				180 CY		368 CY		440 CY

STATION	FINISHED GRADE	DISTANCE	COMMOM EXCAVATION AREA	COMMOM EXCAVATION VOLUME	SUBBASE OF GRAVEL AREA	SUBBASE OF GRAVEL VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME
BOX CUT								
11+86	733.6		7.5		6.5		0	
		14		3		3		2
12+00	734.0		5		6.5		8	
		50		7		12		15
12+50	734.5		3		6.5		8	
		44		5		11		13
'2+94	733.9		3		6.5		8	
BOX CUT								
13+55	734.6		7		6.5		2	
		20		5		5		2
13+75	735.8		7		6.5		2	
		18		5		4		3
13+93	736.0		7		6.5		6	
BOX CUT								
14+50	737.4		9		6.5		0	
		50		13		12		1
15+00	738.7		4.5		6.5		1.5	
		40		7		10		2
15+40	738.7		4.5		6.5		1.5	
BOX CUT								
15+97	740.9		6.5		6.5		0	
		53		9		13		11
16+50	744.0		2.5		6.5		11	
		50		6		12		13
17+00	746.6		4		6.5		3.5	
		48		23		12		3
17+48	748.0		9		6.5		0	
BOX CUT								
17+69	748.5		12		6.5		1	
		31		16		7		2
18+00	749.5		15		6.5		2	
		50		23		12		3
18+50	749.1		10		6.5		1	
		27		10		7		1
18+77	748.1		9		6.5		1	
BOX CUT								
19+22	747.6		8		6.5		3	
		28		8		7		3
19+50	747.0		8		6.5		3	
		50		11		12		19
20+00	745.8		3.5		6.5		18	
		50		8		12		23
20+50	744.8		5		6.5		6.5	
		25		5		6		6
20+75	744.3		5		6.5		6.5	
BOX CUT								
21+57	744.7		4.5		6.5		2.5	
		43		7		10		4
22+00	745.5		4.5		6.5		2.5	
		50		11		12		2
22+50	744.6		7.5		6.5		0	
		6		2		1		0
22+56	744.5		7.5		6.5		0	
BOX CUT								
22+85	744.0		6		6.5		1.5	
		15		3		4		1
23+00	744.5		6		6.5		1.5	
		50		11		12		3
23+50	743.8		6		6.5		1.5	
		50		13		13		2
24+00	742.7		8		8		1	
BOX CUT								
COLUMN #2 SUBTOTALS				211 CY		209 CY		134 CY
COLUMN #1 SUBTOTALS				180 CY		368 CY		440 CY
PROJECT TOTAL				* 391 CY		577 CY		574 CY

* ADD 18 CY FOR DRIVEWAY WORK FOR A TOTAL OF 409 CY SEE CALCULATIONS ON THIS SHEET

NOTES

1. THE EXISTING MAILBOXES SHALL BE RELOCATED NEAR THEIR ORIGINAL LOCATIONS NEAR THE MIDPOINT BETWEEN THE EDGE OF THE ROAD AND EDGE OF SIDEWALK WITHIN THE GRASS STRIP (5'± LEFT OF THE SIDEWALK CENTERLINE), OR AS DIRECTED BY THE ENGINEER. TEMPORARY RELOCATION MAYBE REQUIRED. PAYMENT AS PER ITEM 617.10 AND 617.12

ITEM 617.10 RELOCATE MAILBOX, SINGLE SUPPORT (TOTAL OF 4)
0+97
7+75
13+66
19+38

ITEM 617.12 RELOCATE MAILBOX, MULTIPLE SUPPORT (TOTAL OF 3)
7+70
10+85
17+35

2. EXISTING ROADWAY SIGNS SHALL BE RELOCATED NEAR THEIR ORIGINAL LOCATION AS DIRECTED BY THE ENGINEER AS PER ITEM 675.60

ITEM 675.60 ERECTING SALVAGED SIGNS (TOTAL OF 3)
20+15
21+92
23+00

3. ITEM 620.50 REMOVAL AND RESETTING FENCE
3+00 TO 5+85 (2 STRAND BARBED WIRE) = 285'
7+30 TO 7+80 (WOOD RAIL) = 50'
12+70 TO 12+90 (WOOD RAIL) = 20'
TOTAL = 355'

4. ITEM 620.55 REMOVAL OF EXISTING FENCE (MOD.)
A 75' WOOD RAIL FENCE (1+25 TO 2+00) SHALL BE REMOVED, SALVAGED, AND BECOME THE PROPERTY OF THE OWNER, THE STOWE TRADING COMPANY. IF THE OWNER DOES NOT WANT THE FENCE, THE CONTRACTOR SHALL ASSUME POSSESSION.

STATION	DISTANCE	STONE FILL, TYPE I AREA	STONE FILL, TYPE I VOLUME
BUTT 3+50		15	
	50		35
4+00		23	
	50		45
4+50		26	
	50		48
5+00		26	
	50		47
5+50		25	
	38		28
5+88 BUTT		15 (EST.)	
		TOTAL	203 CY

EARTHWORK SUMMARY

TOTAL EMBANKMENT = 574 CY
*TOTAL AVAILABLE COMMON EXCAVATION = 409 CY
EARTH BORROW REQUIRED = 165 CY

COMMON EXCAVATION QUANTITIES

ITEM 203.15 ADDITIONAL COMMON EXCAVATION AT DRIVEWAYS:

7+00±	40' x 10' x 2" ÷	(12 x 27)	=	2.5 CY
8+00±	25' x 11' x 2" ÷	(12 x 27)	=	1.5 CY
9+75±	55' x 10' x 2" ÷	(12 x 27)	=	3.5 CY
11+50±	55' x 12' x 2" ÷	(12 x 27)	=	4.0 CY
12+50±	25' x 12' x 2" ÷	(12 x 27)	=	2.0 CY
21+50±	40' x 10' x 2" ÷	(12 x 27)	=	2.5 CY
22+75±	35' x 10' x 2" ÷	(12 x 27)	=	2.0 CY
		TOTAL	=	18 CY

AUG 9 1994

JUN 30 1992

PROJECT
BW-RS-BIKE (25)

REVISED 1-31-92
REVISED 9-4-91
REVISED 8-20-91

STATE OF VERMONT CHARLES J. GRENIER NO. 3342 REGISTERED PROFESSIONAL ENGINEER

Charles J. Grenier

"EARTHWORK SUMMARY"
STOWE MOUNTAIN ROAD WALK

[redacted]

CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

DATE = 8-14-91
DRN BY = T.J.M.
SCALE = A.N.
SHT 31 OF 38

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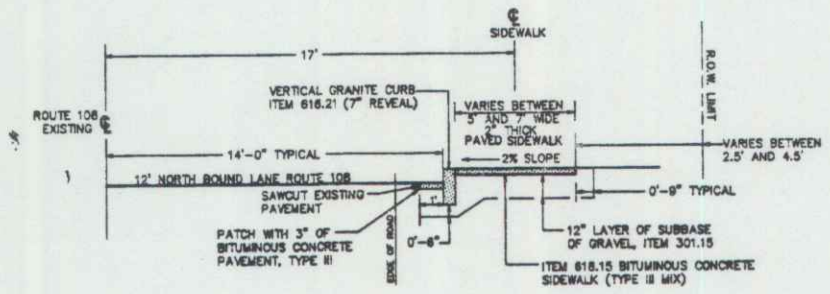
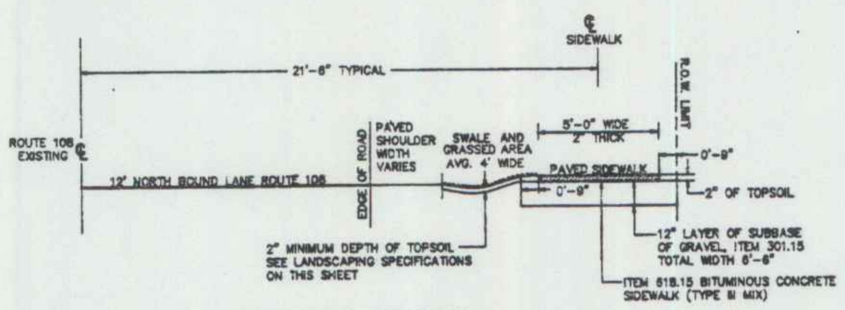
QUANTITY SUMMARY

APPROXIMATE SUMMARY OF QUANTITIES				
GRAND TOTAL	UNIT	PAY ITEM	PAY ITEM NUMBER	RNDG
1	EACH	REMOVING SMALL STUMPS	201.20	–
2	EACH	REMOVING LARGE STUMPS	201.21	–
420	CY	COMMON EXCAVATION	203.15	11
180	CY	EARTH BORROW	203.30	15
590	CY	SUBBASE OF GRAVEL	301.15	13
39	CY	CONCRETE, CLASS C (MOD.)	501.30	–
14	LF	12" CSP (th=.0064")	601.0005	–
210	CY	STONE FILL, TYPE I	613.10	7
200	LF	VERTICAL GRANITE CURB	616.21	–
34	LF	REMOVAL OF EXISTING CURB (MOD.)	616.41	
4	EACH	RELOCATE MAILBOX, SINGLE SUPPORT	617.10	–
3	EACH	RELOCATE MAILBOX, MULTIPLE SUPPORT	617.12	–
170	TON	BITUMINOUS CONCRETE SIDEWALK	618.15	9
355	LF	REMOVAL AND RESETTING FENCE	620.50	–
75	LF	REMOVAL OF EXISTING FENCE	620.55	–
300	LF	STEEL BEAM GUARD RAIL	621.20	–
2	EACH	BREAKAWAY CABLE TERMINAL	621.50	–
340	LF	REMOVAL AND DISPOSAL OF GUARD RAIL	621.80	–
30	HOUR	UNIFORMED TRAFFIC OFFICERS	630.10	–
160	HOUR	FLAGGERS	630.15	–
0.50	LS	TESTING EQUIPMENT - CONCRETE	631.16	–
0.50	LS	TESTING EQUIPMENT - BITUMINOUS	631.17	–
0.35	LS	MOBILIZATION	635.10	
55	SY	GEOTEXTILE FABRIC FOR FILTERS	649.10	–
40	LB	* SEED	651.15	–
250	LB	* FERTILIZER	651.18	–
1	TON	* AGRICULTURAL LIMESTONE	651.20	–
1	TON	* HAY MULCH	651.25	–
140	CY	* TOPSOIL	651.35	7
3	EACH	ERECTING SALVAGED SIGNS	675.60	–

* CALCULATED 0.5 ACRES OF DISTURBED AREA



STATION 0+00 TO 2+00
SIDEWALK TYPICAL
SCALE: 1" = 4'-0"



STATION 3+00 TO 26+00
SIDEWALK TYPICAL
SCALE: 1" = 4'-0"

GENERAL NOTES

1. ITEM 501.30 CONCRETE, CLASS C SHALL BE MODIFIED AS FOLLOWS:

THE CONCRETE BLOCK RETAINING WALL BETWEEN STATION 5+88 TO 6+70 SHALL BE CONSTRUCTED WITH LARGE CONCRETE BLOCKS WITH DIMENSIONS OF 2' x 4' x 4'. A 1" DIMENSION TOLERANCE IS ALLOWED. THESE BLOCKS ARE TO BE CONSTRUCTED OF WASTE CONCRETE FROM AREA SUPPLIERS. THE BLOCKS SHALL BE PLACED WITH THE SMOOTHEST FACE OUTWARD. EACH BLOCK SHALL HAVE LIFTING HOOKS WHICH SHALL BE REMOVED AFTER THE BLOCKS ARE IN PLACE. NO REINFORCING STEEL IS NECESSARY. THE TOP ROW OF BLOCKS SHALL BE OFFSET BY 3" FROM THE BOTTOM ROW. ALL COSTS ASSOCIATED WITH DELIVERING AND PLACING THE BLOCKS AT THE LOCATION AND GRADE SHOWN ON THE PLANS IS INCLUDED IN THE PER CUBIC YARD COST FOR THIS ITEM. THE MINOR AMOUNT OF EXCAVATION NECESSARY TO SET THE BOTTOM ROW OF BLOCKS SHALL ALSO BE INCLUDED IN THE COST OF THIS ITEM. THE COST OF BACKFILLING AGAINST THE BACK OF THE WALL HAS BEEN INCLUDED IN THE COST OF THE SUBBASE OF GRAVEL, ITEM 301.15.

2. THIS PROJECT WILL INVOLVE THE REMOVAL OF LESS THAN 10 CUBIC YARDS OF PAVEMENT NORMALLY PAID AS ITEM 203.28 EXCAVATION OF SURFACES AND PAVEMENTS. BECAUSE OF THE SMALL VOLUME, THIS WORK HAS BEEN INCLUDED IN THE COMMON EXCAVATION QUANTITY. ALL PAVEMENT SHALL BE DISPOSED OF NEAR THE BOTTOM OF THE FILL BETWEEN STATION 3+50 AND 5+50.

3. THE LARGE SIGN AT STATION 18+00 MARKED "FRONT FOUR SPORTS" AND THE SIGN NEAR STATION 20+10 MARKED "EVERYBODY'S PIZZA" SHALL BE PROTECTED BY THE CONTRACTOR AS DETAILED ON THE SITE PLAN AND SECTIONS.

4. THE GUY POLE AND ANCHOR NEAR STATIONS 13+65 AND 16+71 SHALL BE RELOCATED BY THE VILLAGE OF STOWE WATER AND LIGHT DEPARTMENT AND IS NOT THE RESPONSIBILITY OF THE CONTRACTOR.

5. THERE ARE THREE PRESSURE TREATED WOOD POSTS MARKING THE DRIVEWAYS BETWEEN STATION 9+00 AND 10+50. THESE POSTS SHALL BE RESET TO A LOCATION AT LEAST 2' BEHIND THE SIDEWALK. THE COST ASSOCIATED WITH REMOVING AND RESETTING THESE SMALL POSTS SHALL BE INCLUDED IN THE COST OF COMMON EXCAVATION ITEM 203.15.

6. BECAUSE OF THE VERY CONJESTED AREA ALONG ROUTE 108 AND THE LACK OF AN OBVIOUS TOPSOIL STOCKPILE AREA, THE COMMON EXCAVATION WHICH INCLUDES THE TOPSOIL SHALL BE USED IN THE EMBANKMENT AREAS. NEW TOPSOIL SHALL BE TRUCKED ONTO THE SITE FOR USE IN THE FINISHED LANDSCAPING WITH PAYMENT UNDER ITEM 651.35.

7. REMOVAL OF EXISTING CURB, ITEM 616.41 SHALL BE MODIFIED TO REQUIRE THE CUTTING OF THE REMAINING END OF THE EXISTING CURB ON A TAPER AS DETAILED ON STANDARD C1.

8. THE COST OF TRAFFIC CONTROL IS SUBSIDIARY TO OTHER PAY ITEMS. SEE STANDARDS E100, E101, E106, E107, E107A, AND E110 FOR DETAILS.

9. THE BITUMINOUS CONCRETE SIDEWALK SHALL BE PLACED IN ONE 2" THICK LIFT.

LANDSCAPING SPECIFICATIONS

SEEDING FORMULA, ITEM 651.15

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	30	CREEPING RED FESCUE	98	85
31.25	25	KENTUCKY BLUE GRASS	85	75
31.25	25	PERENNIAL RYE GRASS	95	90
100.00	80			

THE 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 DIRECTED BY THE ENGINEER.

FERTILIZER – FORMULA 10–20–10 TO BE USED WITH SEED, APPLIED AT A RATE OF 500 LBS./ACRE.

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.

SLOPE ROUNDING – ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B–5.

QUANTITIES

ITEM 201.20 REMOVING SMALL STUMPS (TOTAL OF 1)
0+93 15" ELM STUMP

ITEM 201.21 REMOVING LARGE STUMPS (TOTAL OF 2)
6+70± 42" STUMP
7+40± 42" STUMP

ITEM 501.30 (MOD.) CONCRETE, CLASS C
THE CONCRETE BLOCK RETAINING WALL BETWEEN 5+88 AND 6+70 HAS A TOTAL OF 33 BLOCKS (2' x 4' x 4'). OR
33 (2 x 4 x 4) ÷ 27 = 39 CY

ITEM 601.0005, 12" CSP (TH = 0.064")
AT 6+32 AN EXISTING 12" METAL CULVERT SHALL BE EXTENDED BY 14' TO ALIGN WITH THE FACE OF NEW RETAINING WALL.

ITEM 616.21 VERTICAL GRANITE CURB
VERTICAL GRANITE CURB SHALL BE USED FROM 0+00 TO 2+00 TO SUPPORT THE EDGE OF THE SIDEWALK AND TO PROTECT PEDESTRIANS
TOTAL = 200 LF

ITEM 618.15 BITUMINOUS CONCRETE SIDEWALK QUANTITIES:
1. STANDARD 5' SIDEWALK 2090' LONG = 10,450 SF
2. 2' WIDER SIDEWALK 1+00 TO 2+00 = 200 SF
3. AREAS BETWEEN SIDEWALK AND EDGE OF ROAD AT DRIVEWAYS:

7+00±	AREA	45' x 5' =	225
8+00±	AREA	25' x 5' =	125
9+75±	AREA	55' x 5' =	275
11+50±	AREA	60' x 5' =	300
17+50±	AREA	30' x 6' =	180
19+00±	AREA	55' x 6' =	330
21+00±	AREA	90' x 5' =	450
22+75±	AREA	35' x 5' =	175

SUBTOTAL = 2060 SF

4. PATCHING IN FRONT OF GRANITE CURB (3" THICK)
200' x 1' x 3" ÷ 2" = 300 SF

SUBTOTAL = 13,010 SF

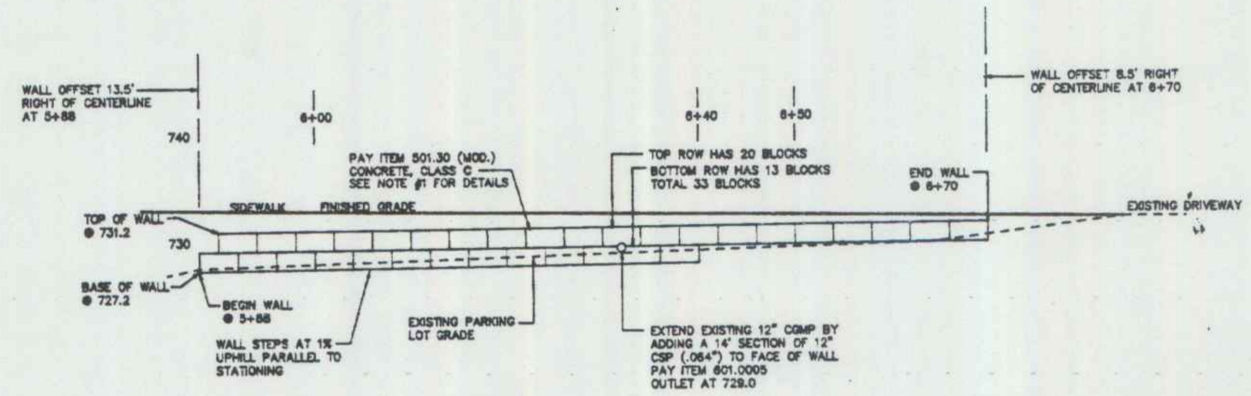
TOTAL TONNAGE = $13{,}010 \times \frac{2"}{12"} \times \frac{2}{27}$ = 161 TONS

ITEM 621.20 STEEL BEAM GUARD RAIL
3+25 TO 6+25, OR 300 LF

ITEM 621.50 BREAKAWAY CABLE TERMINAL
3+00 TO 3+25 AND 6+25 TO 6+50, OR A TOTAL OF 2

ITEM 621.80 REMOVAL AND DISPOSAL OF GUARD RAIL
2+92 TO 6+32, OR 340 LF

ITEM 649.10 GEOTEXTILE FABRIC FOR FILTERS
BEHIND RETAINING WALL 5+88 TO 6+70 ESTIMATED 6' x 82' – 9 = 55 SY



LARGE CONCRETE BLOCK RETAINING WALL DETAIL
SCALE: 1" = 10' H & V

AUG 9 1994

JUN 30 1992

PROJECT
BW–RS–BIKE (2S)

REVISED 2–27–92
REVISED 1–31–92
REVISED 9–4–91
REVISED 8–20–91

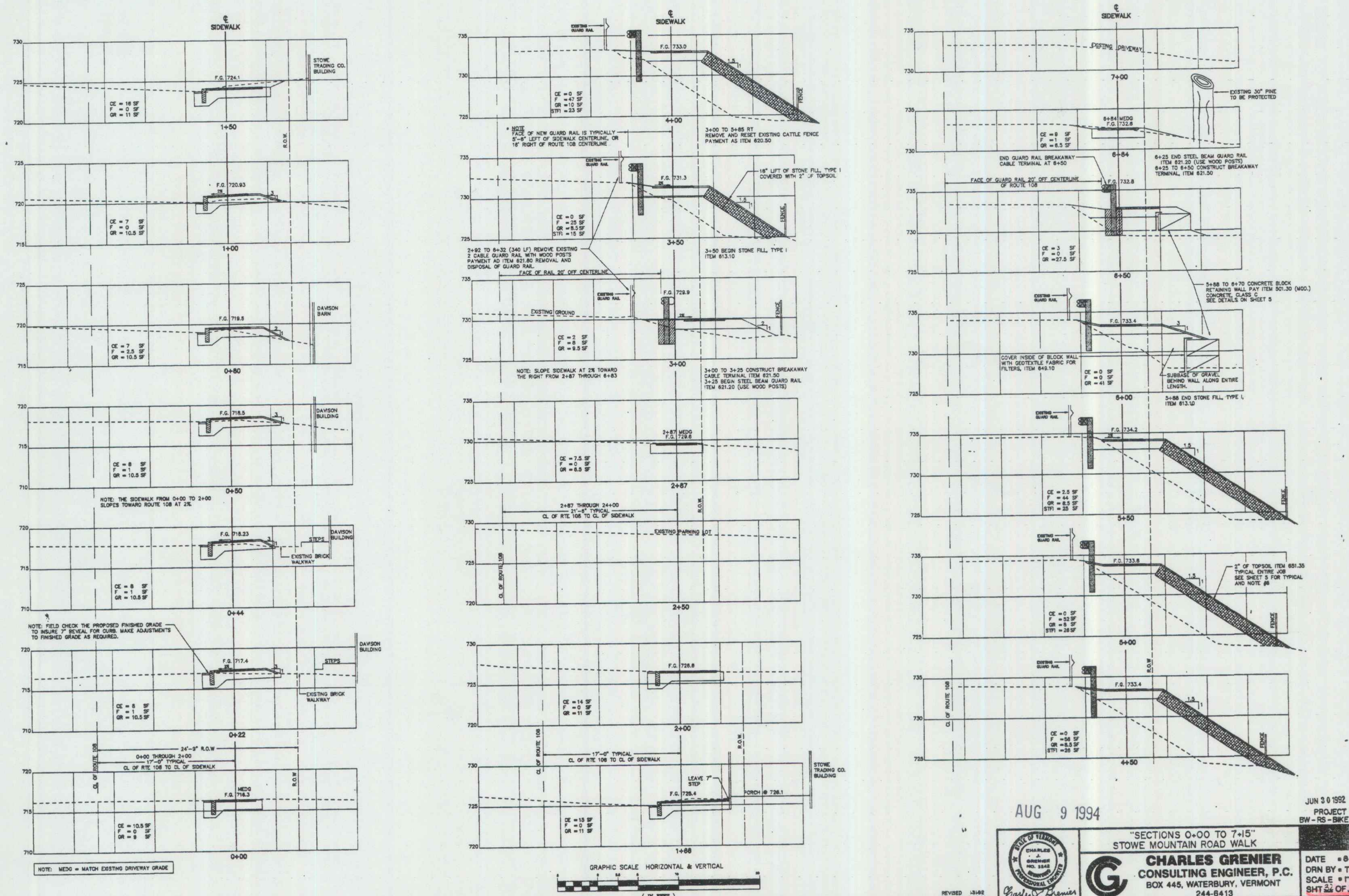
STATE OF VERMONT CHARLES J. GRENIER NO. 3242 REGISTERED PROFESSIONAL ENGINEER

Charles J. Grenier

"QUANTITY SUMMARY"
STOWE MOUNTAIN ROAD WALK

CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

DATE = 8-14-91
DRN BY = T.J.M.
SCALE = A.N.
SHT 30 OF 39



AUG 9 1994

JUN 3 0 1992
PROJECT
BW - RS - BIKE (2S)

"SECTIONS 0+00 TO 7+15"
STOWE MOUNTAIN ROAD WALK

STATE OF VERMONT
CHARLES J. GRENIER
NO. 3842
PROFESSIONAL ENGINEER

Charles J. Grenier

CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

DATE = 8-14-91
DRN BY = T.J.M.
SCALE = 1"=5'
SHT 32 OF 38

REVISED 1-31-92
REVISED 8-20-91

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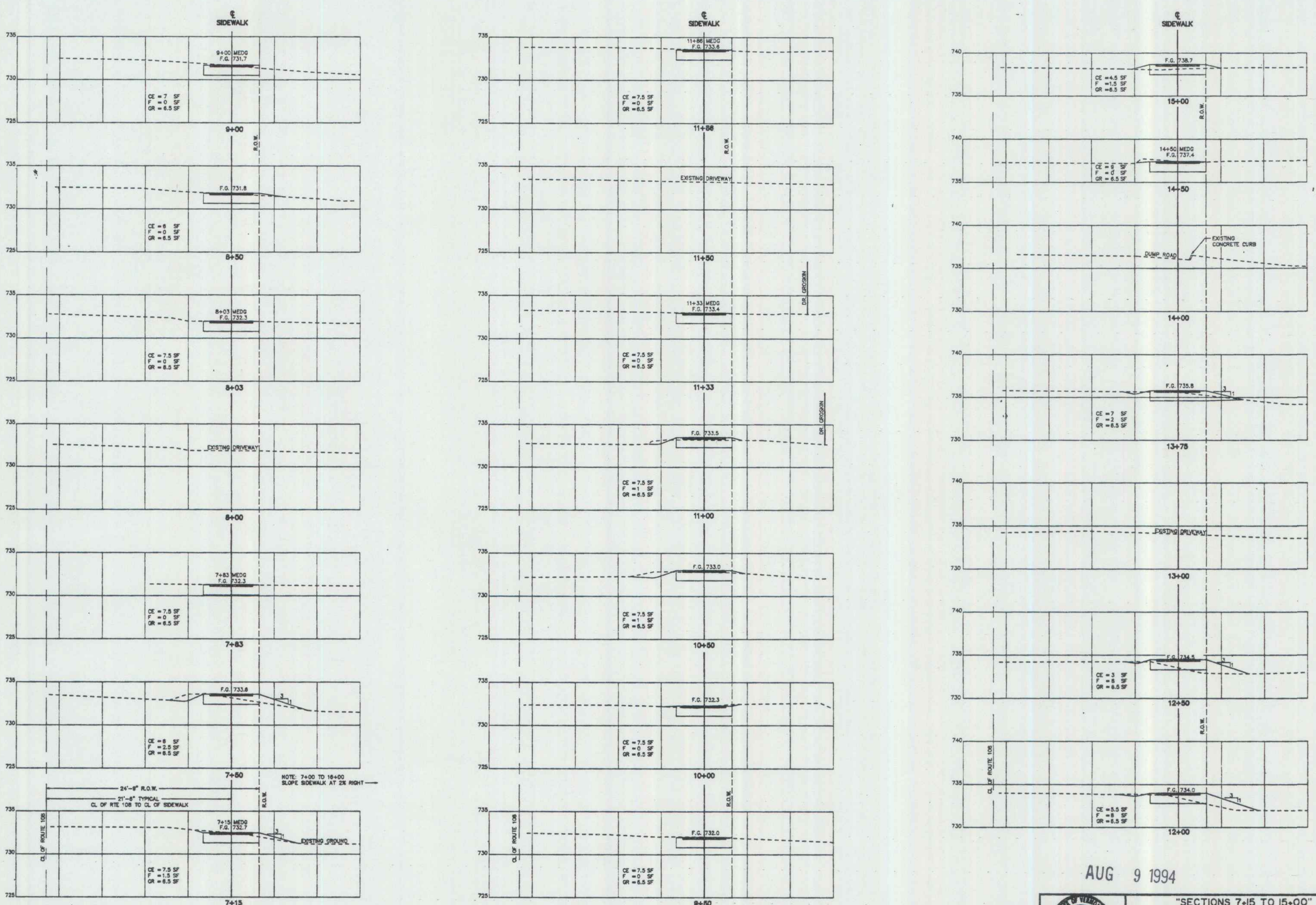


NOTE: MEDG = MATCH EXISTING DRIVEWAY GRADE

GRAPHIC SCALE HORIZONTAL & VERTICAL

(IN FEET)

AUG 9 1994

JUN 30 1992

PROJECT
BW-RS-BIKE (2S)

REVISED 1·31·92
REVISED 8·20·91

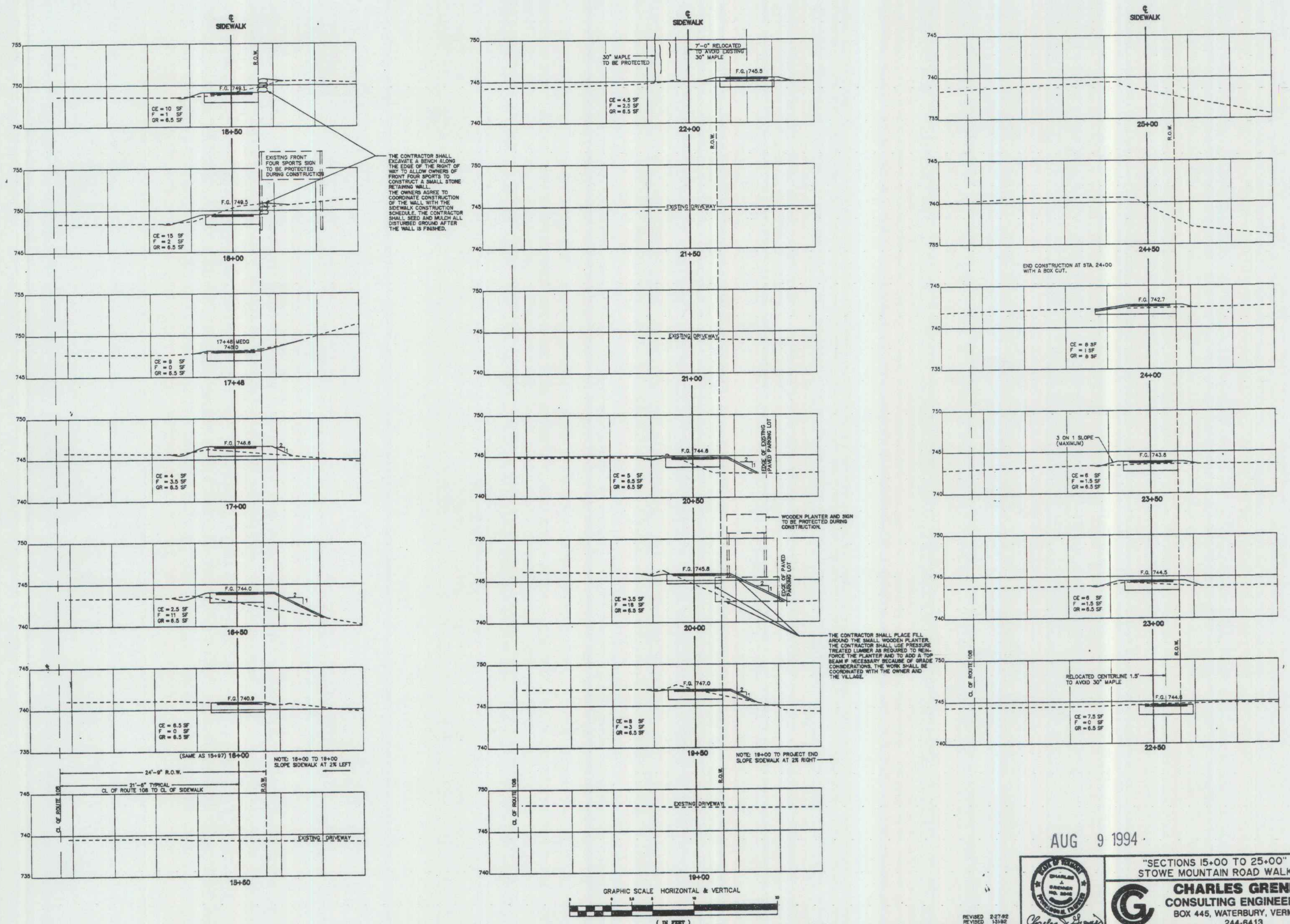
STATE OF VERMONT
CHARLES J. GRENIER
NO. 2842
REGISTERED PROFESSIONAL ENGINEER

"SECTIONS 7+15 TO 15+00"
STOWE MOUNTAIN ROAD WALK

CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

DATE = 8-14-91
DRN BY = T.J.M
SCALE = 1"=5'
SHT 33 OF 35

24



JUN 30 1992

AUG 9 1994

PROJECT
BW-RS-BIKE (2S)

"SECTIONS 15+00 TO 25+00"
STOWE MOUNTAIN ROAD WALK

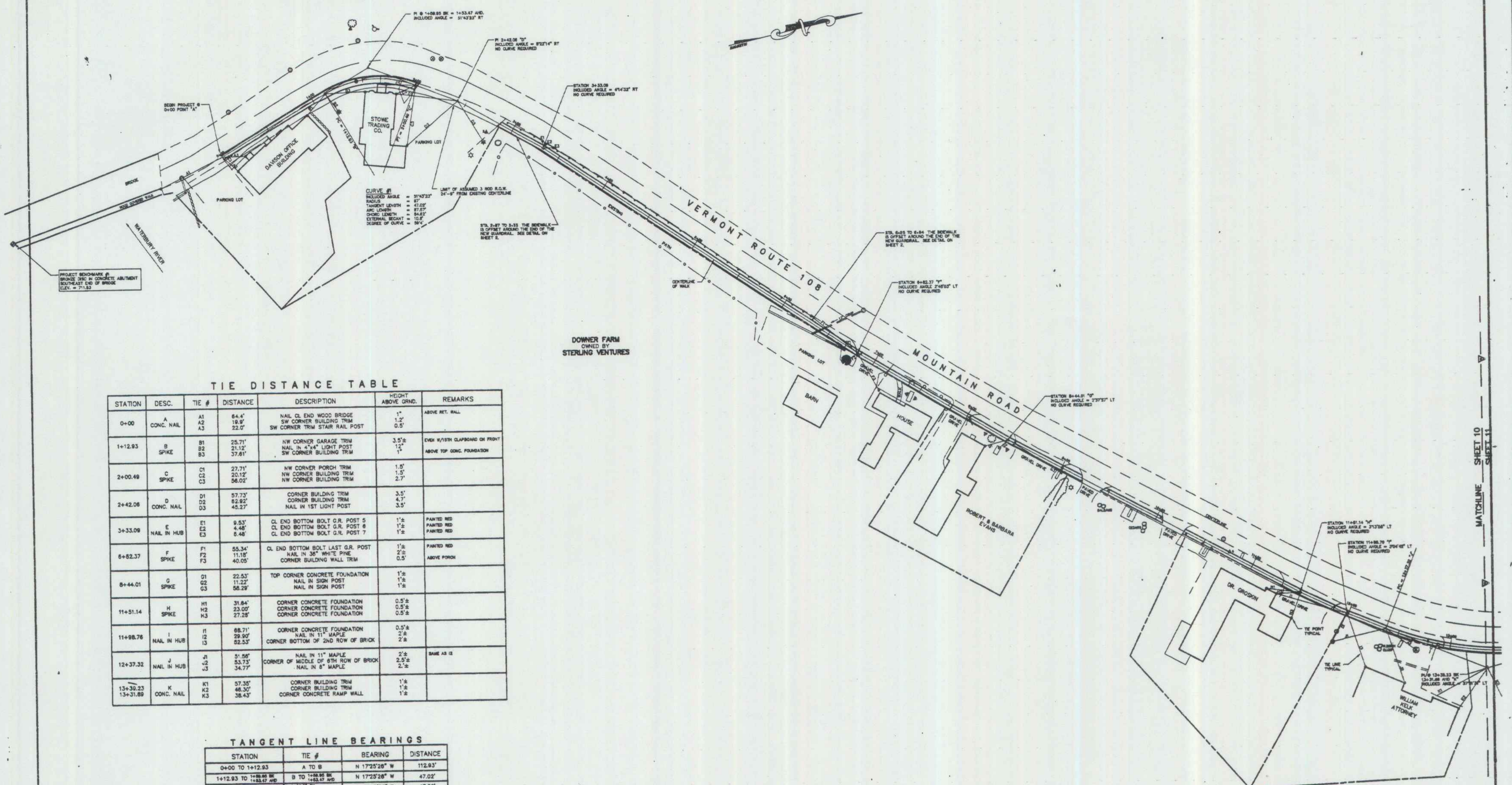
CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

DATE =6-14-91
DRN BY =T.J.M
SCALE =1"=5'
SHT 34 OF 38

REVISED 2-27-92
REVISED 1-31-92
REVISED 8-20-91

Charles J. Grenier

25



TIE DISTANCE TABLE

STATION	DESC.	TIE #	DISTANCE	DESCRIPTION	HEIGHT ABOVE GRND.	REMARKS
0+00	A CONC. NAIL	A1 A2 A3	64.4' 19.9' 22.0'	NAIL CL END WOOD BRIDGE SW CORNER BUILDING TRIM SW CORNER TRIM STAIR RAIL POST	1" 1.2' 0.5'	ABOVE RET. WALL
1+12.93	B SPIKE	B1 B2 B3	25.71' 21.12' 37.61'	NW CORNER GARAGE TRIM NAIL IN 4"x4" LIGHT POST SW CORNER BUILDING TRIM	3.5'± 12" 1"	EVEN W/15TH CLAPBOARD ON FRONT ABOVE TOP CONC. FOUNDATION
2+00.49	C SPIKE	C1 C2 C3	27.71' 20.12' 56.02'	NW CORNER PORCH TRIM NW CORNER BUILDING TRIM NW CORNER BUILDING TRIM	1.5' 1.5' 2.7'	
2+42.06	D CONC. NAIL	D1 D2 D3	57.73' 62.92' 45.27'	CORNER BUILDING TRIM CORNER BUILDING TRIM NAIL IN 1ST LIGHT POST	3.5' 4.7' 3.5'	
3+33.09	E NAIL IN HUB	E1 E2 E3	9.53' 4.48' 6.48'	CL END BOTTOM BOLT G.R. POST 5 CL END BOTTOM BOLT G.R. POST 6 CL END BOTTOM BOLT G.R. POST 7	1'± 1'± 1'±	PAINTED RED PAINTED RED PAINTED RED
6+82.37	F SPIKE	F1 F2 F3	55.34' 11.18' 40.05'	CL END BOTTOM BOLT LAST G.R. POST NAIL IN 36" WHITE PINE CORNER BUILDING WALL TRIM	1'± 2'± 0.5'	PAINTED RED ABOVE PORCH
8+44.01	G SPIKE	G1 G2 G3	22.53' 11.22' 58.29'	TOP CORNER CONCRETE FOUNDATION NAIL IN SIGN POST NAIL IN SIGN POST	1'± 1'± 1'±	
11+51.14	H SPIKE	H1 H2 H3	31.64' 23.00' 27.28'	CORNER CONCRETE FOUNDATION CORNER CONCRETE FOUNDATION CORNER CONCRETE FOUNDATION	0.5'± 0.5'± 0.5'±	
11+98.76	I NAIL IN HUB	I1 I2 I3	68.71' 29.90' 62.53'	CORNER CONCRETE FOUNDATION NAIL IN 11" MAPLE CORNER BOTTOM OF 2ND ROW OF BRICK	0.5'± 2'± 2'±	
12+37.32	J NAIL IN HUB	J1 J2 J3	51.56' 53.73' 34.77'	NAIL IN 11" MAPLE CORNER OF MIDDLE OF 6TH ROW OF BRICK NAIL IN 8" MAPLE	2'± 2.5'± 2.'±	SAME AS I2
13+39.23 13+31.89	K CONC. NAIL	K1 K2 K3	57.35' 46.30' 38.43'	CORNER BUILDING TRIM CORNER BUILDING TRIM CORNER CONCRETE RAMP WALL	1'± 1'± 1'±	

TANGENT LINE BEARINGS

STATION	TIE #	BEARING	DISTANCE
0+00 TO 1+12.93	A TO B	N 17°25'26" W	112.93'
1+12.93 TO 1+69.86 BK 1+63.47 AHD	B TO 1+69.86 BK 1+63.47 AHD	N 17°25'26" W	47.02'
1+69.86 BK 1+53.47 AHD TO 2+00.49	1+69.86 BK 1+63.47 AHD TO C	N 34°17'57" E	47.02'
2+00.49 TO 2+42.06	C TO D	N 34°17'57" E	41.57'
2+42.06 TO 3+33.09	D TO E	N 42°40'11" E	91.03'
3+33.09 TO 6+82.37	E TO F	N 46°54'43" E	349.28'
6+82.37 TO 8+44.01	F TO G	N 44°06'40" E	161.64'
8+44.01 TO 11+51.14	G TO H	N 41°26'43" E	307.13'
11+51.14 TO 11+98.76	H TO I	N 38°14'48" E	47.62'
11+98.76 TO 12+37.32	I TO J	N 35°10'06" E	38.57'
12+37.32 TO 13+39.23 BK 13+31.89 AHD	J TO K	N 35°10'06" E	101.91'
13+39.23 BK 13+31.89 AHD TO 14+33.80	K TO L	N 02°21'25" W	101.91'

SITE PLAN

GRAPHIC SCALE

(IN FEET)

AUG 9 1994

JUN 30 1992

PROJECT
BW-RS-BIKE (2S)

REVISED 1-31-92
REVISED 9-4-91
REVISED 8-20-91

"TIE DETAIL SHEET 0+00 TO 13+00"
STOWE MOUNTAIN ROAD WALK

CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

DATE = 8-14-91
DRN BY = T.J.M
SCALE = 1" = 40'
SHT 35 OF 38

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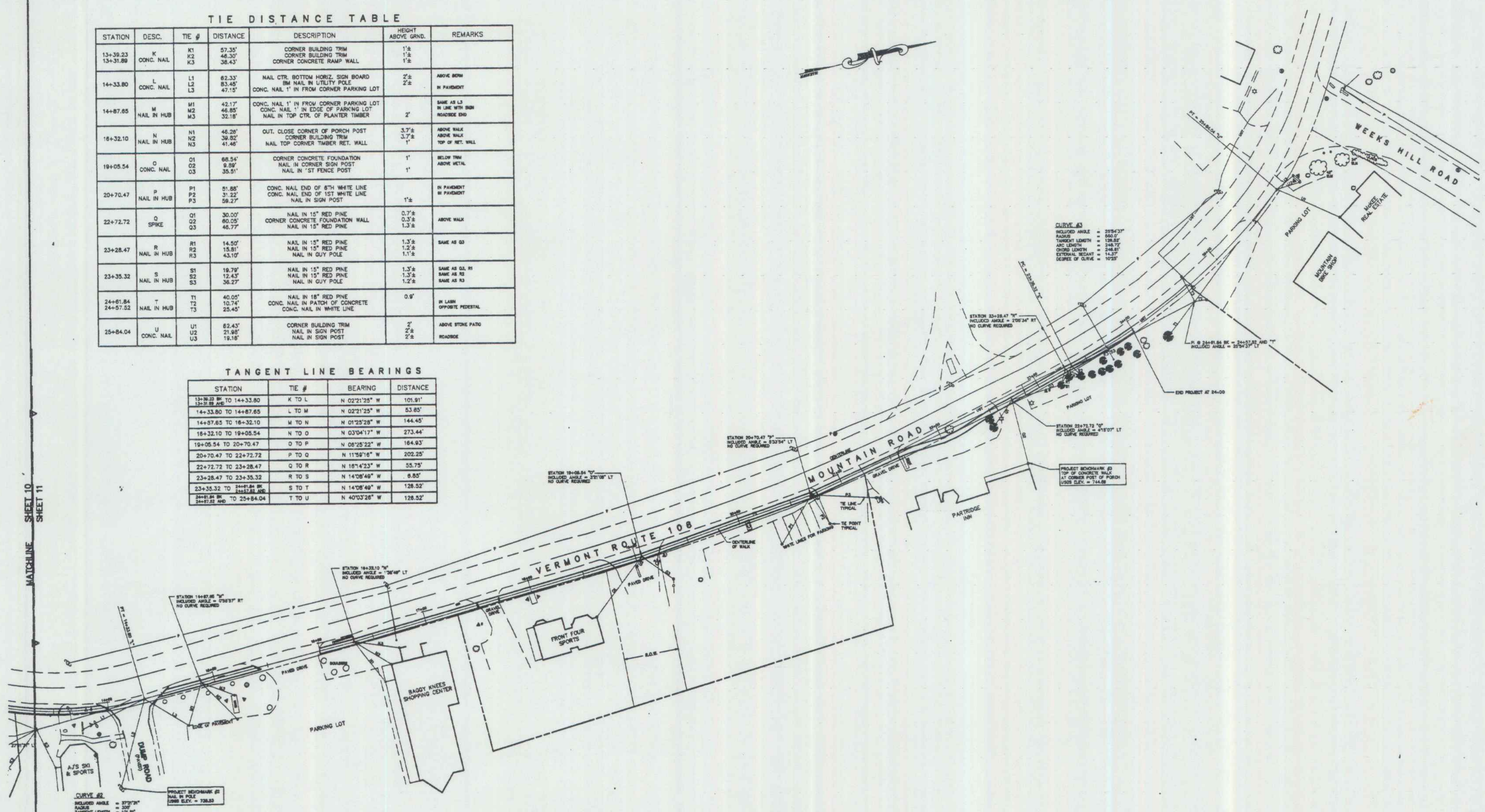
TIE DISTANCE TABLE

STATION	DESC.	TIE #	DISTANCE	DESCRIPTION	HEIGHT ABOVE GRND.	REMARKS
13+39.23 13+31.89	K CONC. NAIL	K1 K2 K3	57.35' 46.30' 38.43'	CORNER BUILDING TRIM CORNER BUILDING TRIM CORNER CONCRETE RAMP WALL	1'± 1'± 1'±	
14+33.80	L CONC. NAIL	L1 L2 L3	62.33' 83.45' 47.15'	NAIL CTR. BOTTOM HORIZ. SIGN BOARD BM NAIL IN UTILITY POLE CONC. NAIL 1' IN FROM CORNER PARKING LOT	2'± 2'±	ABOVE BERM IN PAVEMENT
14+87.65	M NAIL IN HUB	M1 M2 M3	42.17' 46.85' 32.18'	CONC. NAIL 1' IN FROM CORNER PARKING LOT CONC. NAIL 1' IN EDGE OF PARKING LOT NAIL IN TOP CTR. OF PLANTER TIMBER	2'	SAME AS L3 IN LINE WITH SIGN ROADSIDE END
16+32.10	N NAIL IN HUB	N1 N2 N3	46.28' 39.82' 41.46'	OUT. CLOSE CORNER OF PORCH POST CORNER BUILDING TRIM NAIL TOP CORNER TIMBER RET. WALL	3.7'± 3.7'± 1'	ABOVE WALK ABOVE WALK TOP OF RET. WALL
19+05.54	O CONC. NAIL	O1 O2 O3	68.54' 9.89' 35.51'	CORNER CONCRETE FOUNDATION NAIL IN CORNER SIGN POST NAIL IN 'ST FENCE POST	1' 1'	BELOW TRIM ABOVE METAL
20+70.47	P NAIL IN HUB	P1 P2 P3	51.88' 31.22' 59.27'	CONC. NAIL END OF 8TH WHITE LINE CONC. NAIL END OF 1ST WHITE LINE NAIL IN SIGN POST	1'±	IN PAVEMENT IN PAVEMENT
22+72.72	Q SPIKE	Q1 Q2 Q3	30.00' 60.05' 46.77'	NAIL IN 15" RED PINE CORNER CONCRETE FOUNDATION WALL NAIL IN 15" RED PINE	0.7'± 0.3'± 1.3'±	ABOVE WALK
23+28.47	R NAIL IN HUB	R1 R2 R3	14.50' 15.81' 43.10'	NAIL IN 15" RED PINE NAIL IN 15" RED PINE NAIL IN GUY POLE	1.3'± 1.2'± 1.1'±	SAME AS Q3
23+35.32	S NAIL IN HUB	S1 S2 S3	19.79' 12.43' 36.27'	NAIL IN 15" RED PINE NAIL IN 15" RED PINE NAIL IN GUY POLE	1.3'± 1.3'± 1.2'±	SAME AS Q3, R1 SAME AS R2 SAME AS R3
24+61.84 24+57.52	T NAIL IN HUB	T1 T2 T3	40.05' 10.74' 25.45'	NAIL IN 18" RED PINE CONC. NAIL IN PATCH OF CONCRETE CONC. NAIL IN WHITE LINE	0.9'	IN LAWN OPPOSITE PEDESTAL
25+84.04	U CONC. NAIL	U1 U2 U3	62.43' 21.98' 19.16'	CORNER BUILDING TRIM NAIL IN SIGN POST NAIL IN SIGN POST	2' 2'± 2'±	ABOVE STONE PATIO ROADSIDE

TANGENT LINE BEARINGS

STATION	TIE #	BEARING	DISTANCE
13+39.23 BK 13+31.89 AHD TO 14+33.80	K TO L	N 02°21'25" W	101.91'
14+33.80 TO 14+87.65	L TO M	N 02°21'25" W	53.85'
14+87.65 TO 16+32.10	M TO N	N 01°25'28" W	144.45'
16+32.10 TO 19+05.54	N TO O	N 03°04'17" W	273.44'
19+05.54 TO 20+70.47	O TO P	N 08°25'22" W	164.93'
20+70.47 TO 22+72.72	P TO Q	N 11°59'16" W	202.25'
22+72.72 TO 23+28.47	Q TO R	N 16°14'23" W	55.75'
23+28.47 TO 23+35.32	R TO S	N 14°08'49" W	6.85'
23+35.32 TO 24+61.84 BK 24+57.52 AHD	S TO T	N 14°08'49" W	126.52'
24+61.84 BK 24+57.52 AHD TO 25+84.04	T TO U	N 40°03'26" W	126.52'



SITE PLAN

GRAPHIC SCALE

(IN FEET)

AUG 9 1994

JUN 30 1992

PROJECT BW-RS-BIKE (2S)

REVISED 1-31-92
REVISED 9-4-91
REVISED 8-20-91

"TIE DETAIL SHEET 13+00 TO 25+00"
STOWE MOUNTAIN ROAD WALK

CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

DATE =8-14-91
DRN BY = T.J.M
SCALE = 1"=40'
SHT 36 OF 38

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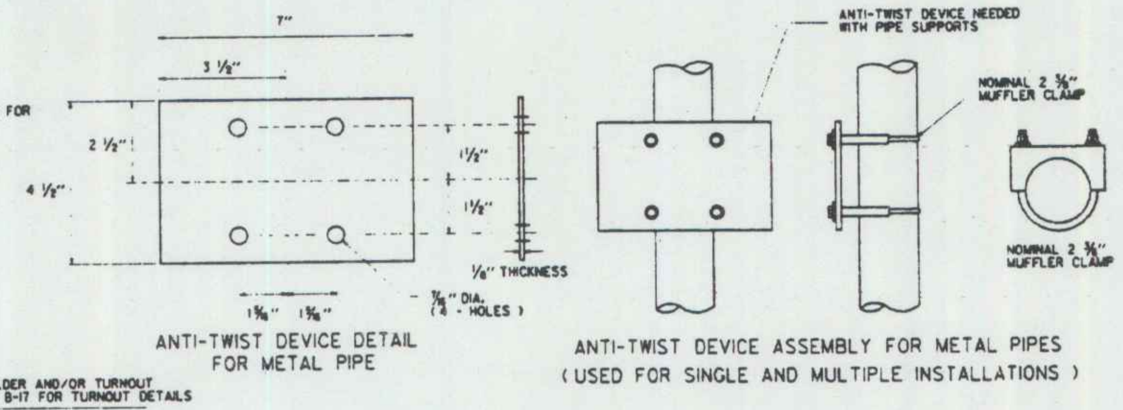
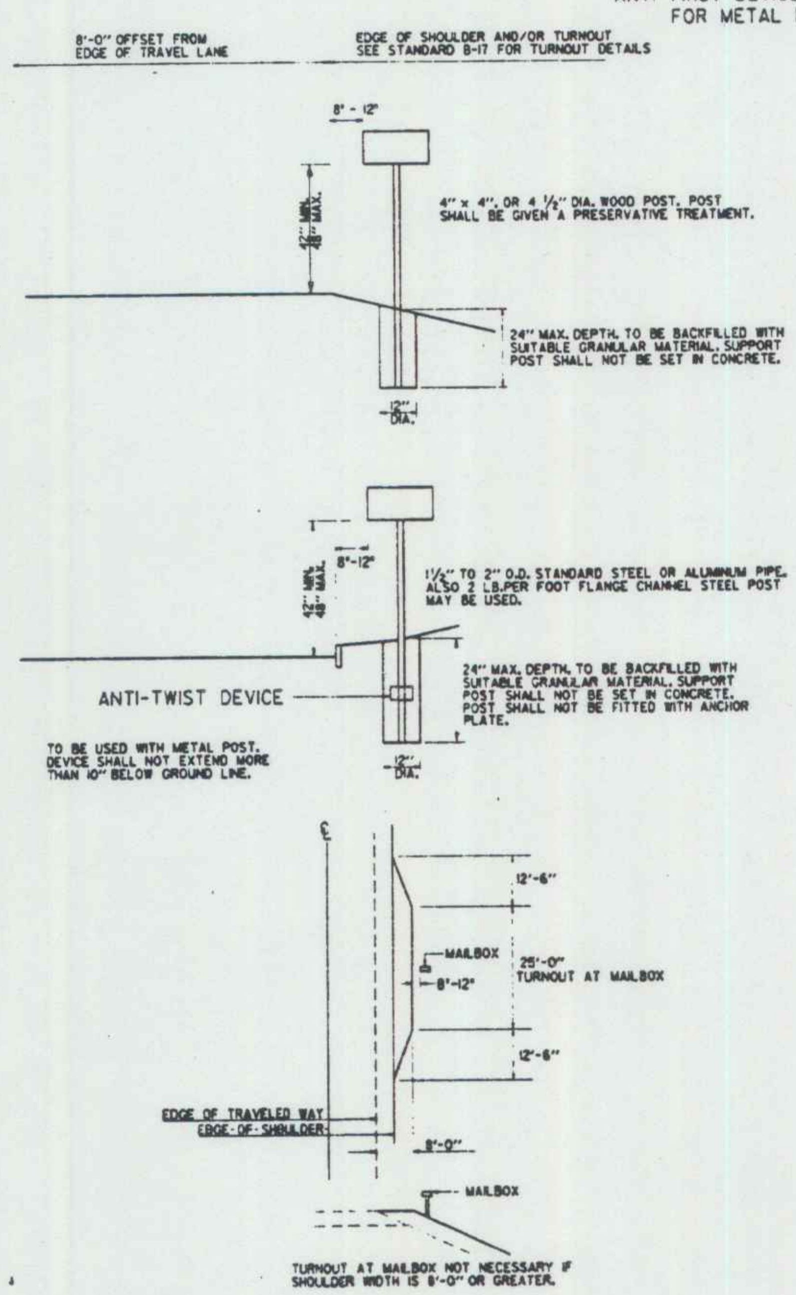
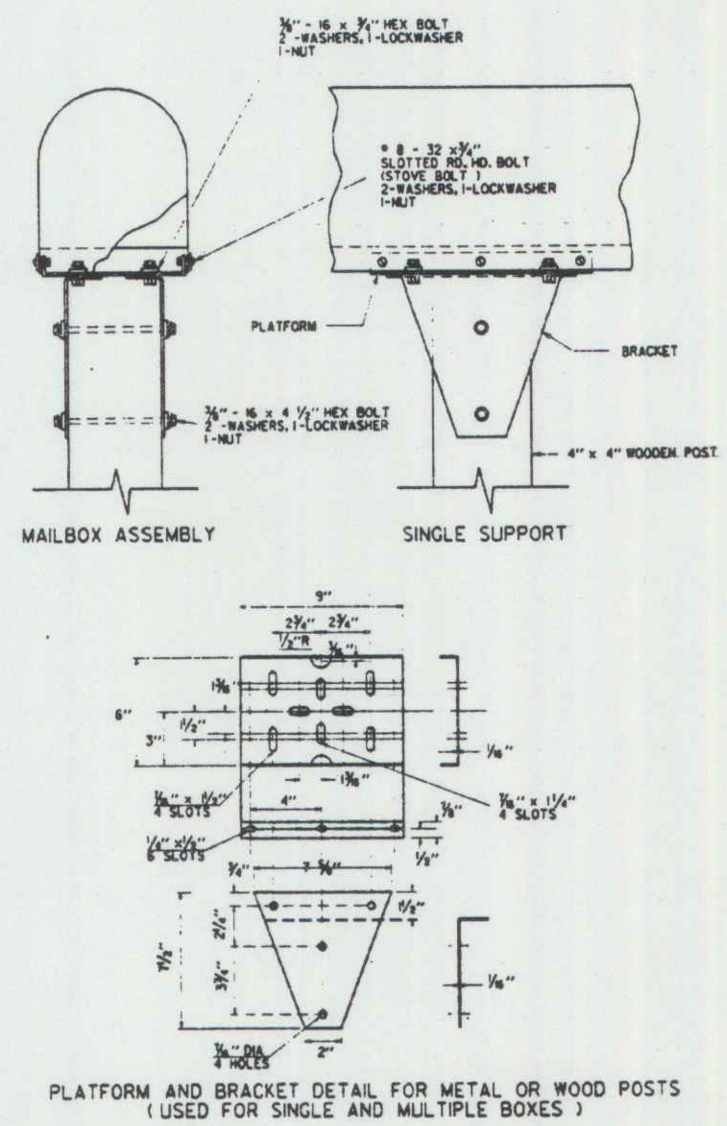
NOTES

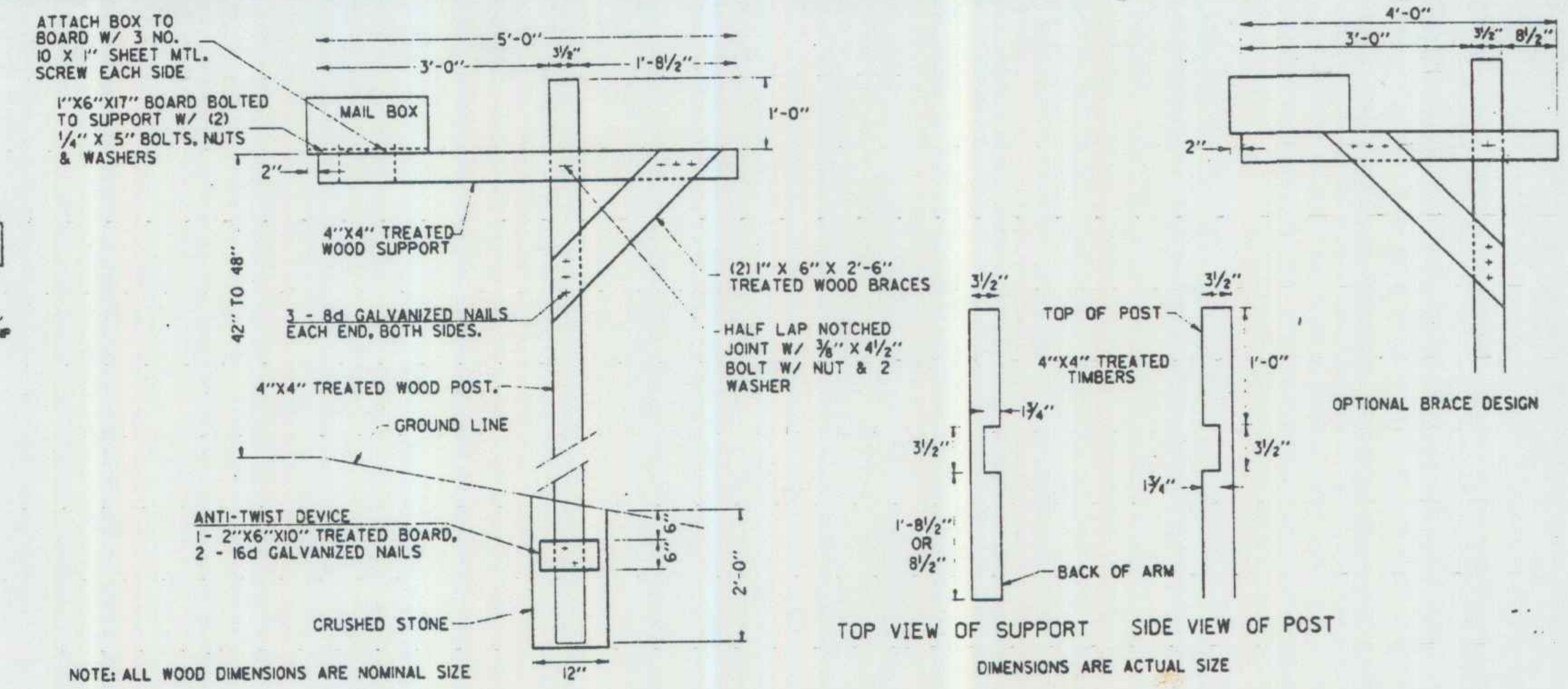
1. ONLY LIGHTWEIGHT MAILBOXES MADE OF LIGHT SHEET METAL OR PLASTIC SHALL BE USED. MAILBOXES SHALL MEET REQUIREMENTS AND APPROVAL OF THE U.S. POSTAL SERVICE.
2. AN ALTERNATE MAILBOX SUPPORT STRUCTURE DESIGN AND CONSTRUCTION MAY BE USED AS LONG AS PROVEN CRASHWORTHY AND MEETS GUIDELINES AS SET OUT IN AASHTO'S "GUIDE FOR ERECTING MAILBOXES ON HIGHWAYS". SUPPORT STRUCTURE SHALL ALSO MEET REQUIREMENTS OF THE U.S. POSTAL SERVICE.
3. MAILBOX TURNOUT SHALL MEET B-17 STANDARD AS SET OUT IN "STATE OF VERMONT AGENCY OF TRANSPORTATION DESIGN STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION".
4. IF THE STANDARD TURNOUT OFFSET CANNOT BE ATTAINED DUE TO RIGHT-OF-WAY CONSTRAINTS OR OTHER REASONS THE TURNOUT SHALL BE MODIFIED AS DIRECTED BY THE ENGINEER.



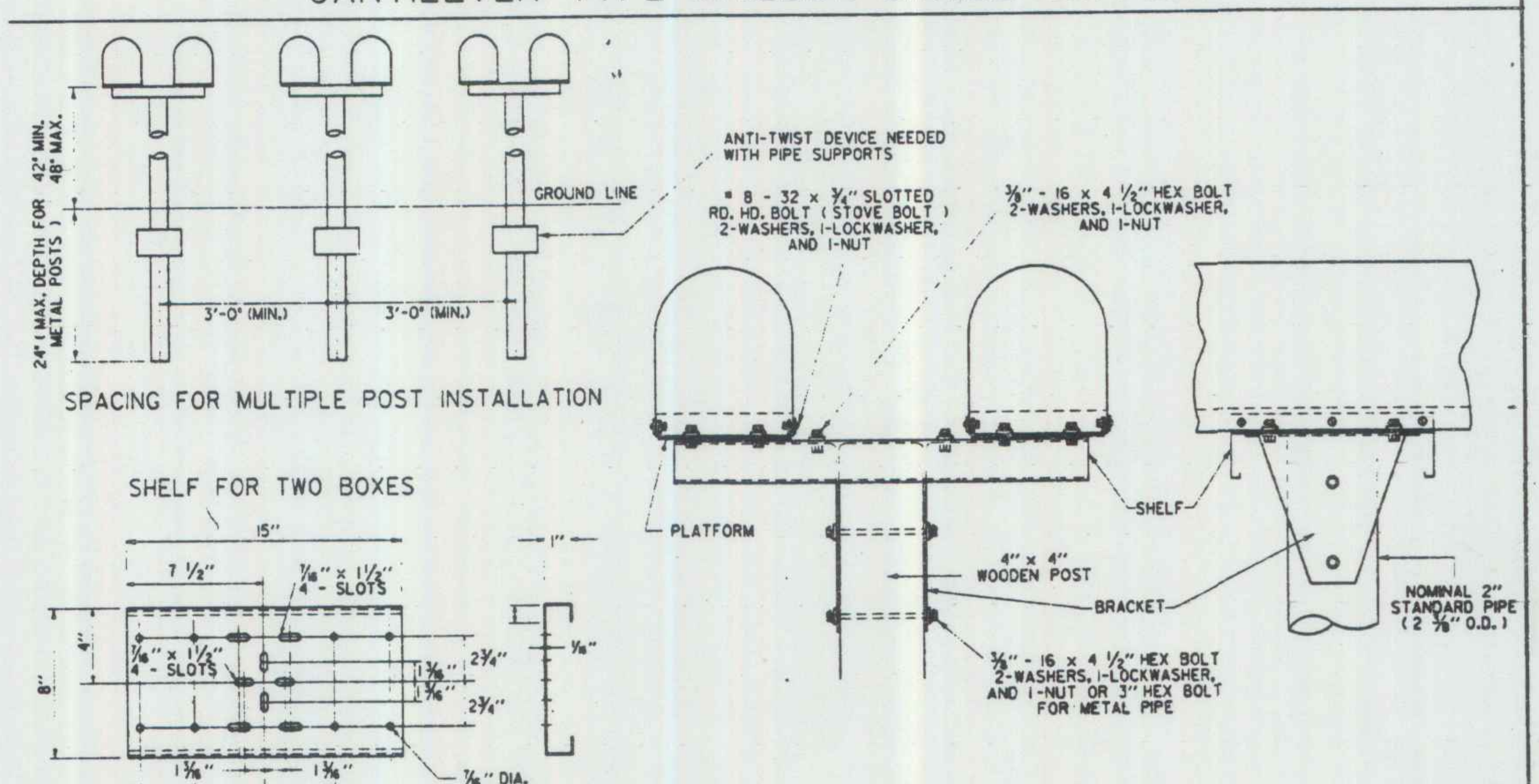




SINGLE MAILBOX SUPPORT



CANTILEVER TYPE MAILBOX SINGLE SUPPORT



MULTIPLE MAILBOX SUPPORT

MAILBOX SUPPORT HARDWARE

(SINGLE AND MULTIPLE SUPPORT)

AUG 9 1994

JUN 30 1992

PROJECT BW-RS-BIKE (2S)

MAILBOX DETAIL SHEET
STOWE MOUNTAIN ROAD WALK

CHARLES GRENIER CONSULTING ENGINEER
BOX 445, WATERBURY, VERMONT
244-6415

DATE = 8-14-91
DRN BY = C.J.G.
SCALE = A/N
SHT 37 OF 38

REVISED 8-20-91

Charles J. Grenier

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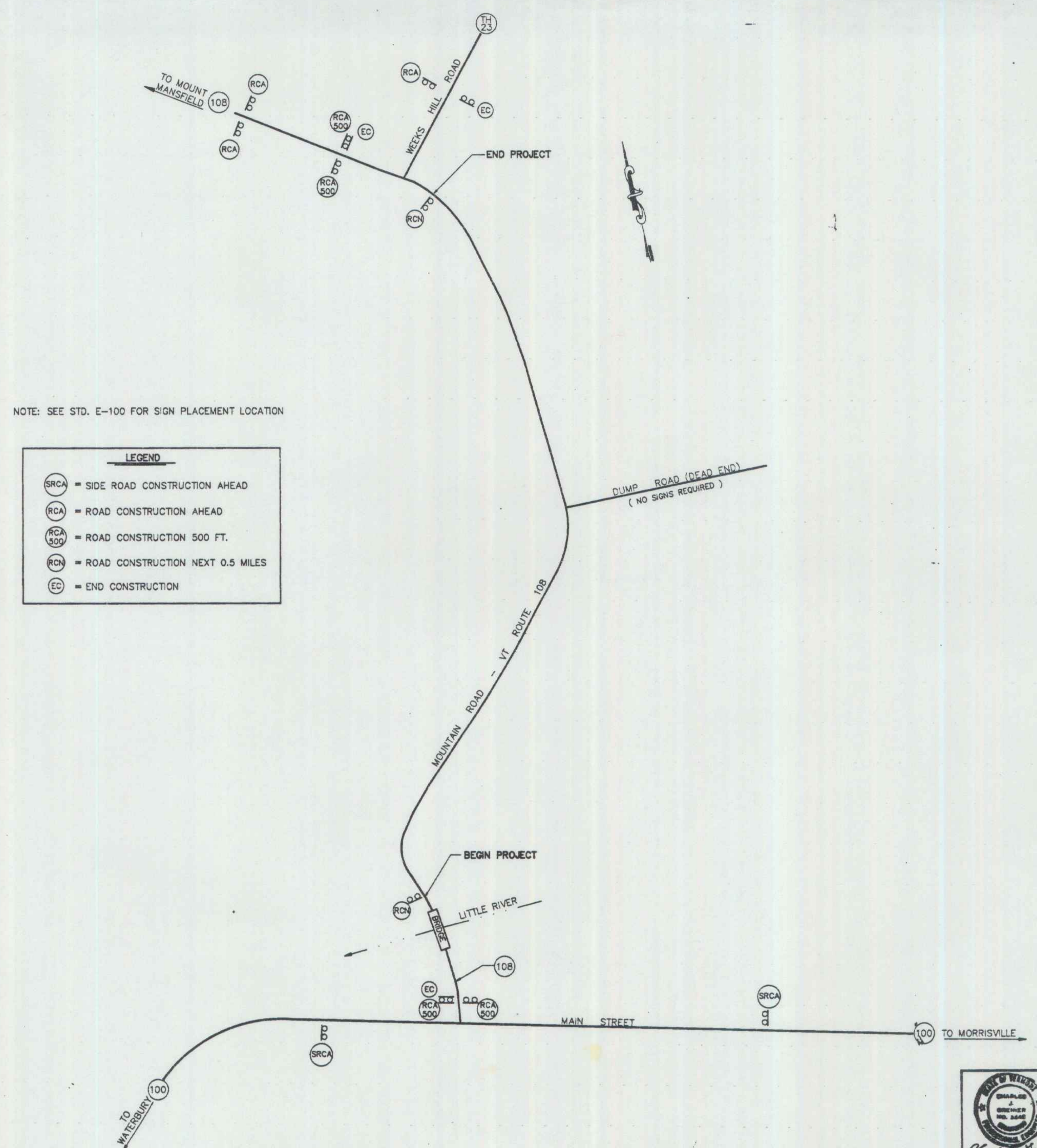

AUG 9 1994

JUN 3 0 1992

PROJECT
BW-RS-BIKE (2S)

CONSTRUCTION APPROACH SIGNING
STOWE MOUNTAIN ROAD WALK

[redacted]

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Charles J. Grenier

DATE = 8-20-91
DRN BY = T.J.M
SCALE = A/N
SHT 30 OF 38

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