

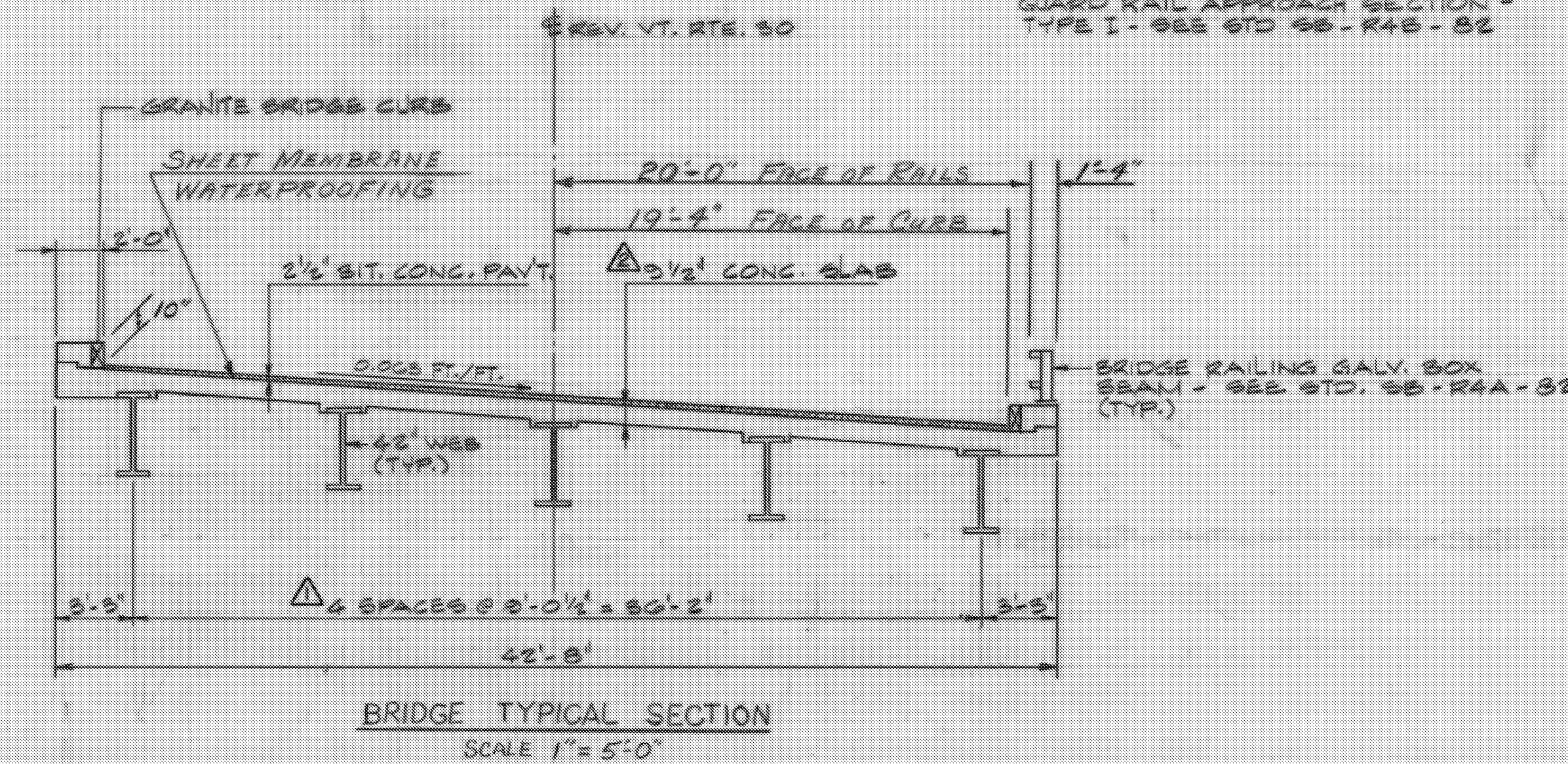
LIST OF BRIDGE SHEETS

BR 100	PRELIMINARY INFORMATION SHEET
BR 101	PLAN
BR 102	BRIDGE QUANTITY SHEET
BR 103	BORING INFORMATION SHEET
BR 104	BORING LOGS
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BR 106	DECK REINFORCING PLAN
BR 107	CURB AND RAILING DETAILS
BR 108	FRAMING PLAN AND GIRDER SPLICE
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LIST OF STANDARD DRAWINGS

DRAWING NO.	DATE
SB-R4A-82	R 12-13-84
SB-R4B-82	R 12-13-84
SCB-D1-75	R 3-14-81
SCB-D4-76	R 10-12-83
SCB-D6-75	R 1-3-79
SCB-D7-71	R 12-13-76

GUARD RAIL APPROACH SECTION - TYPE I - SEE STD SB-R4B-82



GENERAL NOTES:

- ALL THE GENERAL NOTES, EXCEPT #2, FROM STANDARD DRAWING SCB-D1-75 APPLY TO THIS PROJECT.
- THE EXISTING STEEL BRIDGE AND ITS ABUTMENT AND PIERS SHALL BE REMOVED UNDER THE ITEM REMOVAL OF STRUCTURE. FOR ADDITIONAL INFORMATION SEE THE SPECIAL PROVISIONS.
- ALL STRUCTURAL STEEL SHALL BE ANTHROXIMUNPAINTED UNLESS OTHERWISE NOTED.
- THE GIRDERS MAY BE HEAT CURVED TO OBTAIN HORIZONTAL CURVATURE. VERTICAL CAMBER SHALL BE ADJUSTED FOR THE EFFECTS OF HEAT CURVING.
- WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES EXCEPT THE UNDERSIDE OF THE DECK BETWEEN FACIA GIRDERS.
- ALL REINFORCEMENT BARS SHALL BE GRADE 60.
- A COFFERDAM SHALL BE USED TO FACILITATE PIER AND ABUTMENT NO. 2 CONSTRUCTION. THE PRICE BID FOR COFFERDAM SHALL INCLUDE THE COST OF PLACING COFFERDAM SEALS IF NECESSARY. FOR ADDITIONAL INFORMATION SEE THE COFFERDAM NOTES, BR. SHEETS 117 & 118.

EXISTING STRUCTURE

1. STRUCTURE TYPE	STEEL TRUSS	OVERALL LENGTH	182'	INVENTORY RATING	
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	SINGLE SPAN	176'			
3. CLEAR SPAN LENGTH(S) NORMAL TO STREAM		152'			
4. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	3100 SQ. FT.	VERTICAL CLEARANCE ABOVE STREAMBED	24'		
5. WATER SURFACE ELEVATION @ Q 233	579.2	WATER SURFACE ELEVATION @ Q 50	582.7		
6. WATER SURFACE ELEVATION AT FLOOD OF RECORD	UNKNOWN	YEAR	1869	ESTIMATED DISCHARGE	
7. DOES ALL WATER PASS THROUGH EXISTING STRUCTURE? YES IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR?					
8. TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL	LEDGE EAST ABUT. - SPREAD FOOTING ON SOIL WEST ABUT.				
9. DISPOSITION OF STRUCTURE	REMOVE SUPERSTRUCTURE - REMOVE ABUTS TO ELEVATIONS SHOWN				

NEW STRUCTURE

STRUCTURE GEOMETRY:			
1. STRUCTURE TYPE	CONTINUOUS COMPOSITE PLATE GIRDER	OVERALL LENGTH	210.43'
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	2 SPANS	102' & 102'	
3. VERTICAL CLEARANCE ABOVE STREAMBED OR ROAD UNDER		19'	
4. CLEAR SPAN LENGTH(S) NORMAL TO STREAM	20' & 20'	124.4' - 156' (22.9m)	
5. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)		+2450 sq. ft. (2276 sq. m.)	
6. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES?		N/A	

Q	WATER SURFACE ELEVATION	WATER ELEVATION	VELOCITY
Q 233	5000 cfs	579.2	8.0 fps (2.4 mps)
Q 10	9000 cfs	581.0	10.0 fps (3.0 mps)
Q 25	11000 cfs	581.8	10.8 fps (3.3 mps)
Q 50	13000 cfs	582.6	11.6 fps (3.5 mps)
Q 100	15000 cfs	583.5	12.2 fps (3.7 mps)

2. DRAINAGE AREA 211.5 sq. mi. CHARACTER OF TERRAIN RAINY TO MOUNTAINOUS

3. ARE THERE OBJECTIONS TO A PIER IN THE STREAM? NO

4. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? NO IS ORDINARY RISE RAPID? NO

5. NATURE OF NATURAL STREAMBED GRAVEL

6. ESTIMATED SCOUR DEPTH 2.4 (0.6 m) COMMENT ON: DRIFT MODERATE ICE HEAVY

7. WILL ALL WATER PASS THROUGH NEW STRUCTURE? YES IF NOT, WHAT FREQUENCY AND ELEVATION WILL RELIEF OCCUR?

8. ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF N/A

9. VERTICAL CLEARANCE ABOVE Q 50 19.5 (6.0 m) LIMITED BY AVERAGE LOW BEAM FLOW

10. IS DESIGN STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? YES IF YES, DESCRIBE (e.g. LEGAL ELEVATION RESTRICTION BY DAM)

11. AVERAGE DAILY LOW FLOW 200 cfs DEPTH 1.5' AVERAGE DAILY HIGH FLOW 700 cfs DEPTH 2.5'

12. STREAMBANK OR CHANNEL PROTECTION REQUIRED YES IN STREAMS ON BANKS, YES II ON STREAM BED

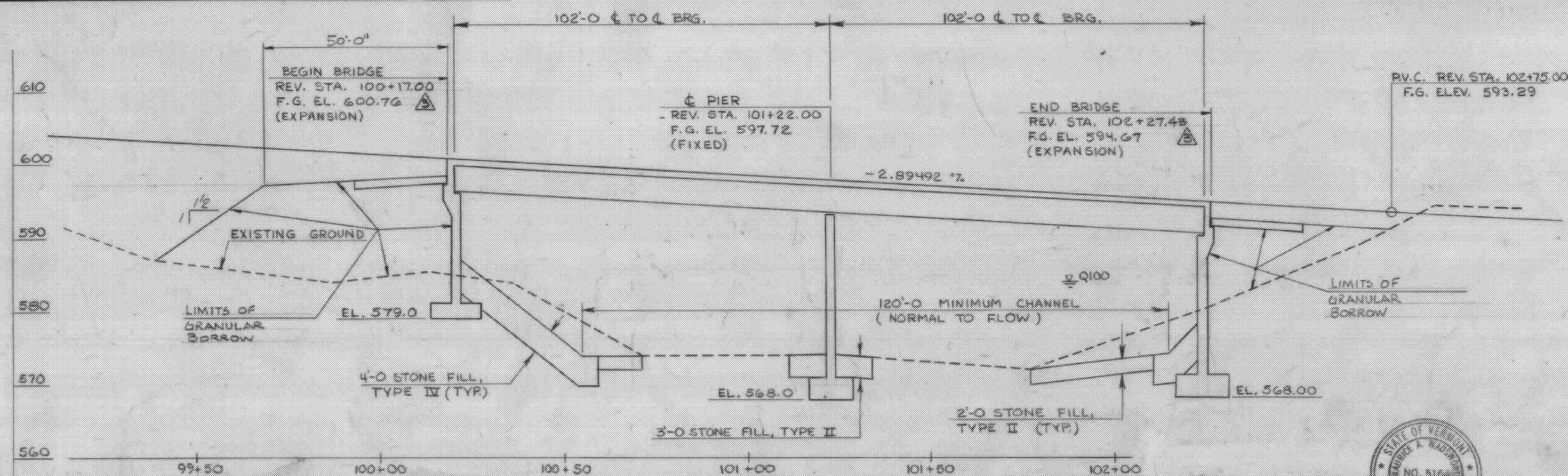
13. DISTANCE TO EXISTING UPSTREAM STRUCTURE 1.5 mi. SPAN 115' WATERWAY AREA OF FULL OPENING 0

14. DISTANCE TO EXISTING DOWNSTREAM STRUCTURE 1.2 mi. SPAN 255' WATERWAY AREA OF FULL OPENING 0

ALLOWABLE STRESSES:	DESIGN LIVE LOAD	ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL	ON LEDGE
1. DESIGN LIVE LOAD	AASHTO H 5.25	5.0 KSF	
2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL			
3. ALLOWABLE LOAD FOR PILING			
4. ALLOWABLE STRESS FOR STRUCTURAL STEEL	AASHTO M 22.8	TENSION 27 ksi	COMPRESSION 24 ksi
5. ALLOWABLE STRESS FOR REINFORCING STEEL	GRADE 60 TENSION		
6. ALLOWABLE STRESS FOR CONCRETE	CLASS A 1% 3500 PSI	1% 1400 PSI	1% 1400 PSI

TRAFFIC MAINTENANCE:	IS TRAFFIC TO BE MAINTAINED?	IF YES, ON EXISTING STRUCTURE	IF YES, ON TEMPORARY BRIDGE
1. IS TRAFFIC TO BE MAINTAINED?	YES	YES	OR ON TEMPORARY BRIDGE
2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY			TRAFFIC CONTROL SIGNALS REQUIRED N/A
MINIMUM CLEAR SPAN			MINIMUM CLEAR HEIGHT
ARE SIDEWALKS REQUIRED?	NO		IF SO, ON WHAT SIDE? MINIMUM WATERWAY AREA

ADDITIONAL DESIGN CONSIDERATIONS



ROADWAY PROFILE (AT REVISED &)

SCALE: HORIZ. 1" = 20'
VERT. 1" = 10'

STATEWIDE - SOUTHWEST REGION
BHF MEMB(20)
SHEET 26 OF 47
BRIDGE 29
FOR REFERENCE ONLY

STRESS LEVELS	LOAD RATING (TONS)						
	H	HS	3S2	6 AXLE	3A STR.	4A STR.	5A SEMI
INVENTORY	44	50					
0.55 Fy = POSTED	67	83		69	71	81	
0.67 Fy = OPERATING			106	125			
0.75 Fy =							

RECOMMENDED FOR APPROVAL	Warren B. Jones	7/16/85	STRUCTURES ENGINEER	DATE
RECOMMENDED FOR APPROVAL	Arthur Jones	7/16/85	CHIEF OF DESIGN	DATE
APPROVED BY	Frank B. Ehrlich	7/16/85	DIRECTOR OF ENGINEERING & CONSTRUCTION	DATE

NO.	DESCRIPTION	BY & DATE
1	CHANGED FROM 5 SPACES TO 4 GANNETT FLEMING PRELIMINARY DESIGN REPORT	PG. NORTON 8-25-85
2	INCREASED DUE TO GIRDER SPACING.	PG. NORTON 8-25-85
3	CHANGED DUE TO FINAL DESIGN DIMENSIONS.	PG. NORTON 12-30-85

STATE OF VERMONT AGENCY OF TRANSPORTATION

TOWN OF	JAMAICA	Bridge No.	29
HIGHWAY NO.	VT. RTE. 30	Log Sta.	102+79
		Surv. Sta.	101+22
PRELIMINARY INFORMATION SHEET			
VT. RTE. 30, B29 OVER WEST RIVER			
Designed by	R.P. Gendron	Drawn by	G. Schellely
Checked by	R.P. Gendron date 3-17-85	Bridge Design Supervisor	R.L. Dotley date 3-85
PROJECT	JAMAICA	PROJECT NO.	BRF 015-1(7)
Bridge Sheet No.	BR 100	Sheet	25 of 120



Ma. Wachowitz
3-6-86