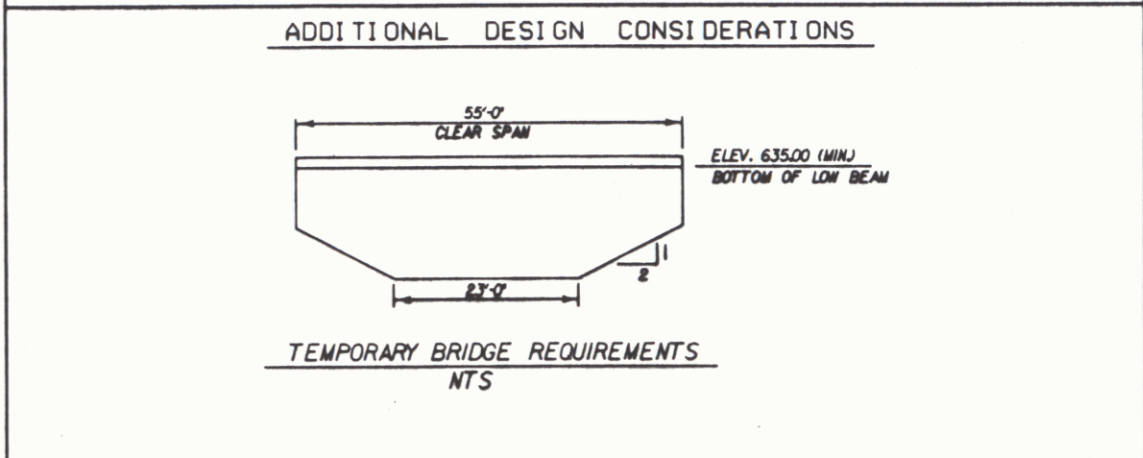


EXISTING STRUCTURE	
1. STRUCTURE TYPE	THREE SPAN CONCT-BEAM
2. SPAN LENGTHS	3 SP @ 27'
3. CLEAR SPAN LENGTHS	2 SP @ 27', 1 SP @ 27'
4. WATERWAY AREA	875 SQ. FT.
5. WATER SURFACE ELEVATION @ D 2.33	633.4
6. WATER SURFACE ELEVATION AT FLOOD OF RECORD	638.0
7. DOES ALL WATER PASS THROUGH EXISTING STRUCTURE?	YES
8. TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL	TIMBER PILES
9. DISPOSITION OF STRUCTURE	REMOVE

NEW STRUCTURE	
1. STRUCTURE TYPE	SINGLE SPAN STEEL BEAM BRIDGE
2. SPAN LENGTHS	1 SP @ 89'
3. CLEAR SPAN LENGTHS	89'
4. WATERWAY AREA	775 SQ. FT.
5. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES?	NO

HYDRAULIC DATA					
1. Q 2.33	850 CFS	WATER ELEVATION	630.7	VELOCITY	7.7 FPS
0 18	2500 CFS	WATER ELEVATION	634.6	VELOCITY	12.2 FPS
0 28	3500 CFS	WATER ELEVATION	636.7	VELOCITY	12.8 FPS
0 38	4500 CFS	WATER ELEVATION	638.2	VELOCITY	13.6 FPS
0 48	5500 CFS	WATER ELEVATION	639.5	VELOCITY	14.2 FPS
2. DRAINAGE AREA	313 SQ. MI.	CHARACTER OF TERRAIN	ROLLING HILLS TO MOUNTAINS		
3. ARE THERE OBJECTIONS TO A PIER IN THE STREAM?	YES				
4. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY?	YES	IS ORDINARY RISE RAPID?	YES		
5. NATURE OF NATURAL STREAMBED	CLAY AND SAND				
6. ESTIMATED SCOUR DEPTH	0	COMMENT ON DRIFT	MODERATE		
7. WILL ALL WATER PASS THROUGH NEW STRUCTURE? YES IF NOT, WHAT FREQUENCY AND ELEVATION WILL RELIEF OCCUR?	YES				
8. ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF	0.7				
9. VERTICAL CLEARANCE ABOVE B.C.O.	640.2	LIMITED BY	AVERAGE LOW STEEL		
10. IS DESIGN STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS?	NO	IF YES, DESCRIBE	N/A		
11. ORDINARY LOW WATER	30 CFS	DEPTH	2'-0"		
12. ORDINARY HIGH WATER	800 CFS	DEPTH	5'-0"		
13. STREAMBANK OR CHANNEL PROTECTION REQUIRED	NO	STONE	FULLY TYP. 1/2		
14. DISTANCE TO EXISTING UPSTREAM STRUCTURE	8 MI	SPAN	72		
15. DISTANCE TO EXISTING DOWNSTREAM STRUCTURE	8 MI	SPAN	87		



LOAD RATING (TONS)	
STRESS LEVELS	TRUCK
INVENTORY	H HS 362 5 AXLE 3A STR. 4A STR. 5A SEM
POSTED	
OPERATING	

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Town Of **RANDOLPH** Bridge No. **39**

Highway No. **VT. 14** Surv. Sta.

VT. 14 OVER THE SECOND BR. WHITE RIVER

PRELIMINARY INFORMATION

Designed By **J.B. MCCARTHY** Drawn By **S. FUGERE**

Checked By **J.B. MCCARTHY** Date **3/92** Bridge Design Supervisor **R.P. GENDRON** Date **3/92**

RANDOLPH
BRS 0147(14)
R.O.W. SHEET 6 OF 11 SHEETS

FEB 07 1997