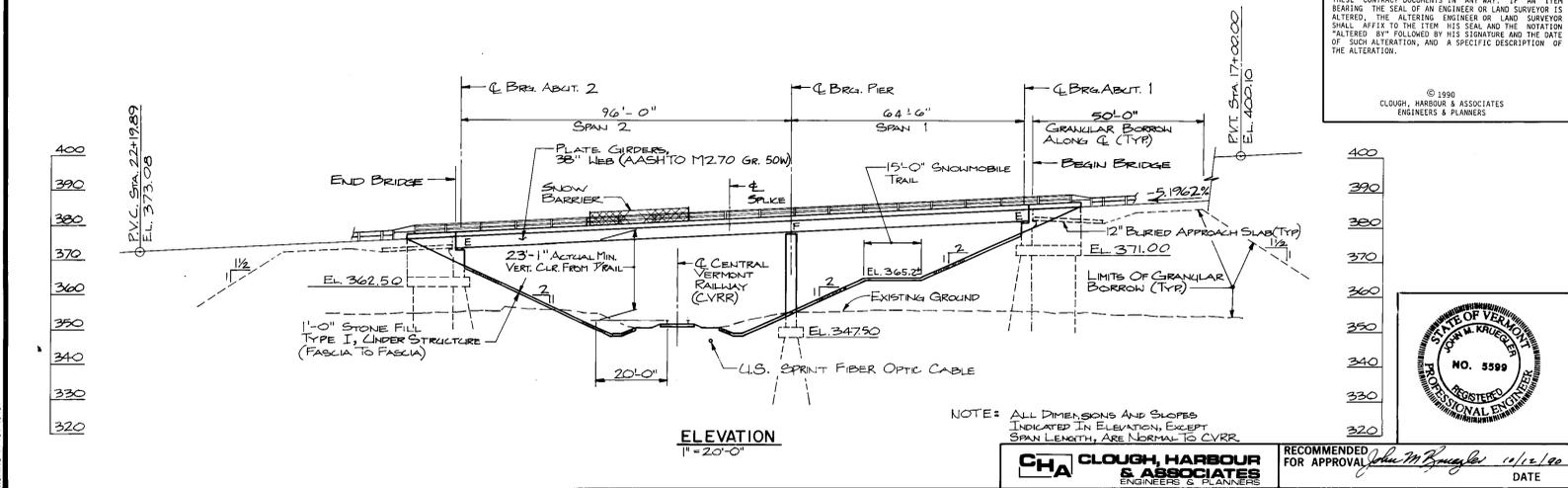
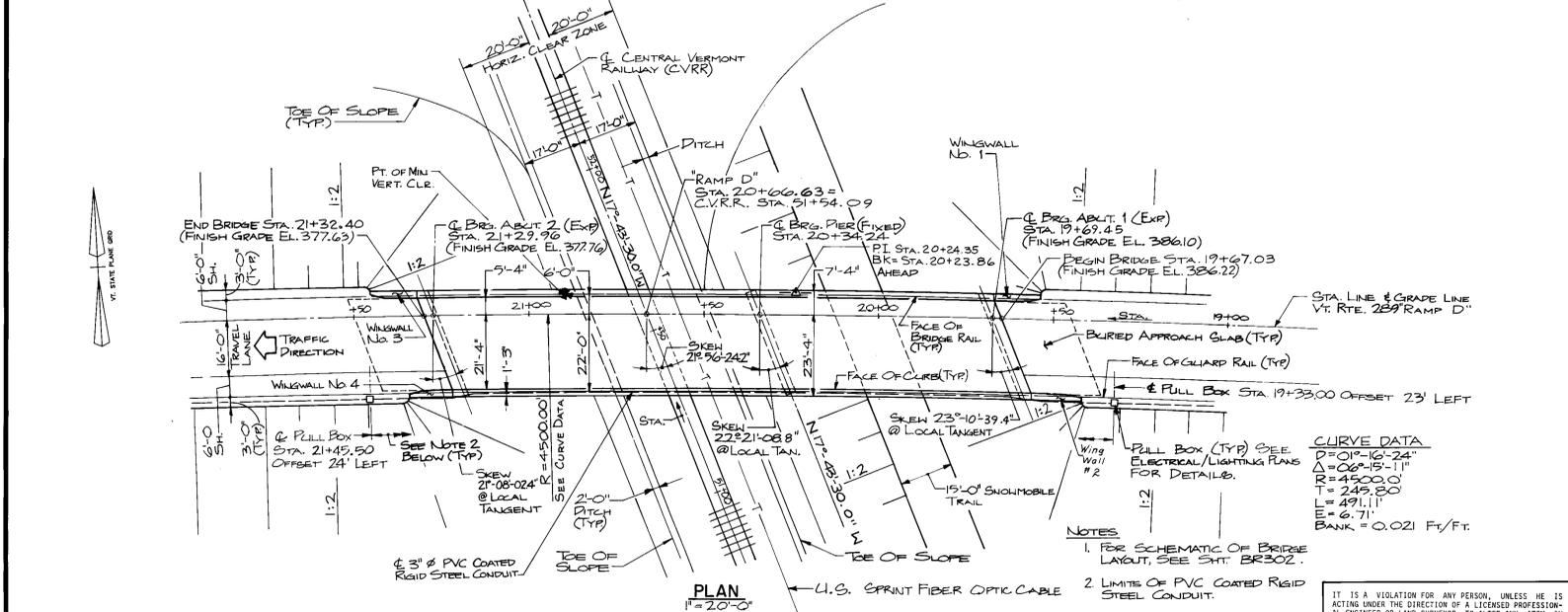


EXISTING STRUCTURE			
1. STRUCTURE TYPE	NA		
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	OVERALL LENGTH		
3. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	VERTICAL CLEARANCE ABOVE STREAMBED		
4. WATER SURFACE ELEVATION @ Q 2.33	WATER SURFACE ELEVATION @ Q		
5. WATER SURFACE ELEVATION AT FLOOD OF RECORD	YEAR ESTIMATED DISCHARGE		
6. DOES ALL WATER PASS THROUGH EXISTING STRUCTURE?	IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR?		
7. ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF			
8. TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL			
9. DISPOSITION OF STRUCTURE			
NEW STRUCTURE			
STRUCTURE GEOMETRY:			
1. STRUCTURE TYPE	TWO SPAN STEEL MULTI-GIRDER		
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	64'-6" (SPAN 1) 96'-0" (SPAN 2)		
3. VERTICAL CLEARANCE ABOVE STREAMBED OR ROAD UNDER	23'-1" COVER		
4. CLEAR SPAN LENGTH(S) NORMAL TO STREAM			
5. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)			
6. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES?	NA		
HYDRAULIC DATA:			
1. Q 2.33	NA	WATER ELEVATION	VELOCITY
Q 10		WATER ELEVATION	VELOCITY
Q 25		WATER ELEVATION	VELOCITY
Q 50		WATER ELEVATION	VELOCITY
Q 100		WATER ELEVATION	VELOCITY
2. DRAINAGE AREA	CHARACTER OF TERRAIN		
3. ARE THERE OBJECTIONS TO A PIER IN THE STREAM?			
4. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY?	IS ORDINARY RISE RAPID?		
5. NATURE OF NATURAL STREAMBED			
6. ESTIMATED SCOUR DEPTH	COMMENT ON: DRIFT ICE		
7. WILL ALL WATER PASS THROUGH NEW STRUCTURE?	IF NOT, WHAT FREQUENCY AND ELEVATION WILL RELIEF OCCUR?		
8. VERTICAL CLEARANCE ABOVE Q			
9. ALLOWABLE WATER SURFACE ELEVATION	LIMITED BY		
10. IS DESIGN STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS?	IF YES, DESCRIBE		
11. AVERAGE DAILY LOW FLOW	DEPTH	AVERAGE DAILY HIGH FLOW	DEPTH
12. STREAMBANK OR CHANNEL PROTECTION REQUIRED			
13. DISTANCE TO EXISTING UPSTREAM STRUCTURE	SPAN	WATERWAY AREA OF FULL OPENING	0
14. DISTANCE TO EXISTING DOWNSTREAM STRUCTURE	SPAN	WATERWAY AREA OF FULL OPENING	0
ALLOWABLE STRESSES:			
1. DESIGN LIVE LOAD AASHTO	HC-25-44		
2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL			
3. ALLOWABLE LOAD FOR PILING	70 TONS	TYPE	HP 12 x 74
4. ALLOWABLE STRESS FOR STRUCTURAL STEEL AASHTO M270 GR 50 TENSION	24,000 PSI	ESTIMATED LENGTH	60' Piers 35' End-9.5'
5. ALLOWABLE STRESS FOR REINFORCING STEEL GRADE 60 TENSION	27,000 PSI	COMPRESSION	20,000 PSI
6. ALLOWABLE STRESS FOR CONCRETE CLASS A 1c	3,500 PSI	f _c	4,000 PSI
	CLASS B 1c	f _c	3,000 PSI
			* SEE GENERAL NOTE 15 DWG. BR302
TRAFFIC MAINTENANCE:			
1. IS TRAFFIC TO BE MAINTAINED?	NA	IF YES, ON EXISTING STRUCTURE	OR ON TEMPORARY BRIDGE
2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY		TRAFFIC CONTROL SIGNALS REQUIRED	
	MINIMUM CLEAR SPAN	MINIMUM CLEAR HEIGHT	
	ARE SIDEWALKS REQUIRED?	IF SO, ON WHAT SIDE?	



ADDITIONAL DESIGN CONSIDERATIONS		INDEX OF DRAWINGS	
VAOT STANDARD SHEETS:		DWG. NO.	DESCRIPTION
SB-R4A-82	9-18-89R	BR 301	PLAN, ELEVATION AND SECTIONS
SB-R4B-82	3-30-88R	BR 302	GENERAL NOTES AND COMMON DETAILS
E-181	9-10-87	BR 303	BRIDGE QUANTITY SHEET
		BR 304	BOILING INFORMATION SHEET (1 OF 2)
		BR 305	BOILING INFORMATION SHEET (2 OF 2)
		BR 306	TRANSVERSE SECTION, DECK SLAB PLAN & DETAILS
		BR 307	FRAMING PLANS AND GIRDER ELEVATION
		BR 308	GIRDER DETAILS
		BR 309	MISCELLANEOUS DETAILS
		BR 310	BEARING DEVICE DETAILS
		BR 311	STRUCTURAL STEEL DETAILS
		BR 312	BRIDGE CURB & PAVEMENT JOINT DETAILS
		BR 313	BRIDGE CURB DETAILS
		BR 314	ABUTMENT 1 PLAN, ELEVATION AND SECTIONS
		BR 315	ABUTMENT 1 SECTIONS AND DETAILS
		BR 316	ABUTMENT 2 PLAN, ELEVATION AND SECTIONS
		BR 317	ABUTMENT 2 SECTIONS AND DETAILS
		BR 318	PIER PLAN, ELEVATION AND SECTION
		BR 319	PIER DETAILS
		BR 320	CONCRETE JOINT DETAILS
		BR 321	SNOW BARRIER DETAILS
		BR 322	BEAM PROFILE TABLES
		BR 323	REINFORCING STEEL SCHEDULE - 1
		BR 324	REINFORCING STEEL SCHEDULE - 2

STATE OF VERMONT AGENCY OF TRANSPORTATION

TOWN OF **ESSEX** Bridge No. **13**

HIGHWAY NO. **VT. RT. 289** Surv. Sta. **RAMP 15+00**

VT. RT. 289 "RAMP D" OVER CVRR

PLAN, ELEVATION AND SECTIONS

Designed by **YS/KRH** Drawn by **DJA**

Checked by **RJS** date **10/12/90** Bridge Design Supervisor **MWO** date **10/12/90**

PROJECT **WILLISTON-COLCHESTER** PROJECT NO. **033-1(2)**

Bridge Sheet No. **BR301** Sheet **166** of **400**

BR-2