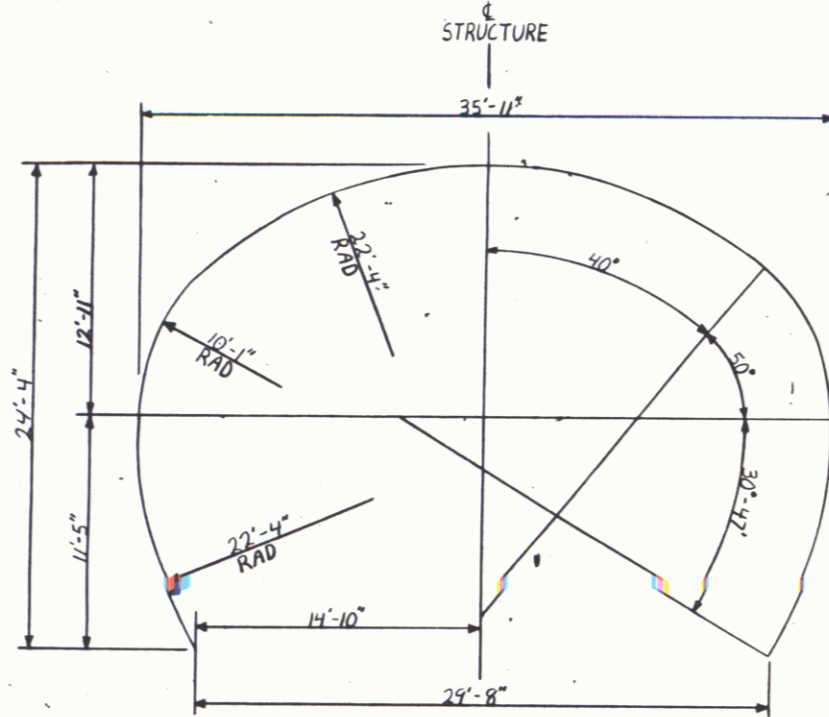
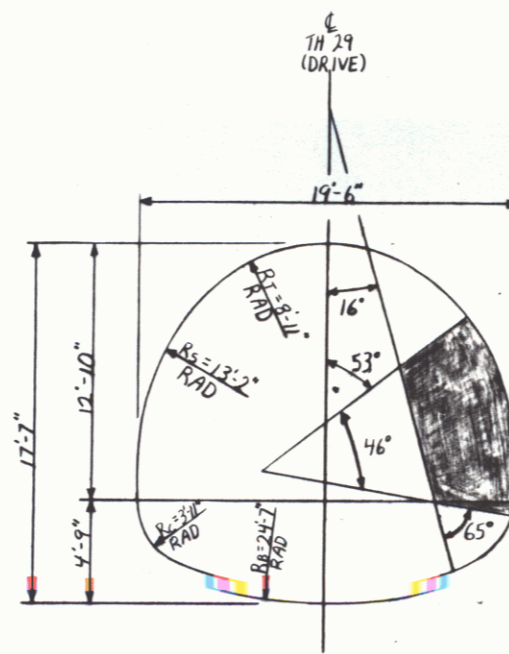


TYPICAL CROSS SECTION AT CENTERLINE OF VT 7A  
SCALE: 1" = 5'-0"



CORRUGATED GALVANIZED LONG SPAN  
METAL PLATE STRUCTURE GEOMETRY  
SCALE: 1" = 5'-0"



CORRUGATED GALVANIZED METAL  
PLATE STRUCTURE GEOMETRY  
SCALE: 1" = 5'-0"

EXISTING STRUCTURE	
1. STRUCTURE TYPE	(S) SPAN 1-BY-1 CONCRETE DECK
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	30'-30"-NO. 3-26-26 ALL SIMPLE SPANS
3. CLEAR SPAN LENGTH(S) NORMAL TO STREAM	DRY CROSSING
4. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	N/A
5. WATER SURFACE ELEVATION @ 0.233	N/A
6. WATER SURFACE ELEVATION AT FLOOD OF RECORD	N/A
7. DOES ALL WATER PASS THROUGH EXISTING STRUCTURE?	IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR?
8. TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL	SEE BORING SHEET
9. DISPOSITION OF STRUCTURE	REMOVAL

NEW STRUCTURE	
1. STRUCTURE TYPE	CORRUGATED GALVANIZED METAL PLATE STRUCTURES
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	RAILROAD ARCH MAX 35'-11" DRIVEWAY UNDERPASS MAX 19'-6"
3. VERTICAL CLEARANCE ABOVE STREAMBED OR ROAD UNDER	RAILROAD 22'-0" DRIVEWAY, SEE CLEARANCE DIAGRAMS
4. CLEAR SPAN LENGTH(S) NORMAL TO STREAM	DRY CROSSING
5. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	N/A
6. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES?	YES

HYDRAULIC DATA:		
1. Q 2-24	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 SCOUR	
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
14. DISTANCE TO EXISTING DOWNSTREAM STRUCTURE	SPAN	WATERWAY AREA OF FULL OPENING

ALLOWABLE STRESSES:	
1. DESIGN LIVE LOAD	AASHTO HS-20-44
2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL	4.0 KSE ON LEDGE N/A
3. ALLOWABLE LOAD FOR PILING	N/A
4. ALLOWABLE STRESS FOR PLATE PIPE STRUCTURAL STEEL	AASHTO M167 COMPRESSION 4500 PSI TENSION 24,000 PSI
5. ALLOWABLE STRESS FOR REINFORCING STEEL	GRADE 60 TENSION 24,000 PSI COMPRESSION 20,000 PSI
6. ALLOWABLE STRESS FOR CONCRETE	CLASS A 1/2 N/A CLASS B 1/2 3500 PSI

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

TWO WAY TRAFFIC WILL BE MAINTAINED BY DETOUR

ADDITIONAL DESIGN CONSIDERATIONS

RECOMMENDED FOR APPROVAL	STRUCTURES ENGINEER	DATE	<b>STATE OF VERMONT</b> <b>AGENCY OF TRANSPORTATION</b> TOWN OF <u>SHAFTSBURY</u> Bridge No. <u>3A</u> Log Sta. <u>          </u> HIGHWAY NO. <u>VT 7A</u> Surv. Sta. <u>55+81</u> <u>VT 7A OVER VTRR</u> <b>PRELIMINARY INFORMATION SHEET</b> Designed by <u>T.B. MCARTHUR</u> Drawn by <u>B.L. DONALD</u> SHAFTSBURY BRS 0137(12) R.O.W. SHEET 15B OF 16 SHEETS
RECOMMENDED FOR APPROVAL	CHIEF OF DESIGN	DATE	
APPROVED BY	DIRECTOR OF PLANNING & PRE-CONSTRUCTION	DATE	
REVISIONS			
NO.	DESCRIPTION	BY & DATE	