



HIGHWAY NO. VT-105 NAME OF HIGHWAY TROY-NEWPORT
 STRUCTURE NO. 45 QUANTITY CULVERTS 1 OVER NEWPORT
 PROJECT NO. F034-2(2) LOCATION SURVEY STA. 162+ (1/4 MILES FROM TROY-NEWPORT TOWN LINE)
 EXISTING STRUCTURE
 1. RATIO LENGTH OF EXISTING STRUCTURE H-15
 2. TYPE OF EXISTING STRUCTURE CONCRETE T-BEAM
 3. UNDERMINED ELEVATION OF EXISTING STRUCTURE 669.0
 4. WHAT REPAIRS SHOULD BE MADE TO EXISTING STRUCTURE REMOVE MOST OF REPAIR 8,000.00
 5. SHALL EXISTING STRUCTURE BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION OF NEW STRUCTURE NO
 6. SHOULD NEW TEMPORARY STRUCTURE BE BUILT YES
 7. PRIMARY HIGH WATER SURFACE ELEV. AT EXISTING STRUCTURE 660.0 WATERWAY TO EXTREME H.W. 815.5
 8. EXTREME HIGH WATER AT EXISTING STRUCTURE 665.0
 9. SPAN OF EXISTING BRIDGE UPSTREAM 24 WATERWAY TO EXTREME H.W. 800.5
 10. SPAN OF EXISTING BRIDGE DOWNSTREAM 50 WATERWAY TO EXTREME H.W. 800.5
 11. TYPE OF FOUNDATION UNDER EXISTING STRUCTURE SAME AS OCCURS FOR NEW STRUCTURE
 12. DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE YES
 13. IS IT OF WHAT ELEVATION IS SPILLWAY PROVIDED
 14. APPROXIMATE WATERWAY AREA PROVIDED
 NEW STRUCTURE
 1. RECOMMENDED TYPE OF STRUCTURE W/ SKIN TO (20 SKEW)
 2. RECOMMENDED NUMBER OF SPANS 29.0 (OVERALL)
 3. SPAN PARALLEL TO & NEW HIGHWAY 81.5'
 4. SPAN PARALLEL TO EXISTING HIGHWAY 81.5' (CLEAR)
 5. ARE THERE OBSTRUCTIONS TO A FISH IN THE STREAM, ABOVE OR AT YES
 6. PRIMARY HIGH WATER ELEVATION AT NEW STRUCTURE 657.4
 7. EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE 662.6 SOURCE OF INFORMATION COMPUTED
 8. IS ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE YES
 9. DOES FISH PASS AT EXTREME HIGH WATER ELEVATION, RAPIDLY NO 2. IN PRODUCE RISE ONLY YES
 10. FLOOD AREA IS ABOVE EXISTING STRUCTURE YES CHARACTER OF TERRAIN Hilly
 11. IS TO BE BUILT YES NO
 12. VELOCITY OF STREAM AT HIGH WATER STAGE 662.6 ESTIMATED DISCHARGE 850 CFS
 13. ARE ALL OPENINGS 730.5' AREA BELOW OVERHEAD RW 200.5
 14. ONE SEVER OF ROAD 100.0 DRAIN None 51.0 FT
 15. ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE
 16. VERTICAL CLEARANCE ABOVE FLOOD ELEVATION 25'
 17. ARE SIDEWALKS REQUIRED, IF SO ON WHAT SIDE NO BOTH SIDES
 18. RECOMMENDED TYPE OF PAVEMENT BITUMINOUS CONCRETE
 19. YEARS TO BE MAINTAINED UNDER ITEM NO. 241 ONE OR TWO WAYS 2 WAYS PROBABLY 10 YEARS
 20. PROBABLE COST OF CLEANING AND MAINTENANCE SYSTEM CHANNEL AT STRUCTURAL SIZE 800.0
 21. SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES NO
 22. APPROXIMATE ELEVATION HEAD ON FOUNDATIONS 4.00' SHOULD PILES BE USED YES EST. LENGTH 30'

FOUNDATION INFORMATION

OBTAINED FOR DESIGN PURPOSES ONLY, AND THE STATE ASSUMES NO RESPONSIBILITY WHATSOEVER FOR THE ACCURACY OR RELIABILITY OF THE INFORMATION SHOWN, EXCEPT AS MAY BE INDICATED AT ANY PIER OR ABUTMENT LOCATION.

| SOILING NO. | SOILING DEPTH | SOILING MATERIAL | SOILING NO. | SOILING DEPTH | SOILING MATERIAL |
|-------------|---------------|------------------|-------------|---------------|------------------|
| 1 | 0-10' | CLAY | 2 | 0-10' | CLAY |
| 1 | 10-20' | CLAY & GRAVEL | 2 | 10-20' | CLAY & GRAVEL |
| 1 | 20-30' | CLAY & GRAVEL | 2 | 20-30' | CLAY & GRAVEL |
| 1 | 30-40' | HARD CLAY | 2 | 30-40' | HARD CLAY |

STATEWIDE - N.E. REGION
 BHF MEMB(19)
 SHEET 60 OF 80
 BRIDGE No. 58
 FOR REFERENCE ONLY

STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS
 BRIDGE No. 4558 IN THE TOWNSHIP OF
 TROY, NEWPORT
 ROUTE NO 105 LOG STA 54+56
 DESIGNED BY EMB. CHECKED BY E.P.B. DATE 11/21/58
 PROJECT NO. F034-2(2) SHEET 60 OF 80