

TYPICAL BRIDGE SECTION

SCALE 1" = 1'-0"
1 9 6 3 0 1 2

FINAL HYDRAULICS REPORT

HYDROLOGIC DATA

DRAINAGE AREA: SEE NOTE
 CHARACTER OF TERRAIN: _____
 CHARACTER & TYPE OF STREAM: _____
 NATURE OF STREAMBED: _____
 02.33+ _____ 050+ _____
 010+ _____ 0100+ _____
 025+ _____ 0500+ _____
 DATE OF FLOOD OF RECORD: _____
 WATER SURFACE ELEV.: _____ ESTIMATED DISCHARGE: _____
 NATURAL STREAM VELOCITY @ FLOOD OF RECORD: _____
 ICE CONDITIONS: _____ DEBRIS: _____
 DOES THE STREAM REACH MAXIMUM HIGHWATER ELEVATION RAPIDLY? _____
 IS ORDINARY RISE RAPID? _____
 IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? _____
 IF YES, DESCRIBE: _____
 WATERSHED STORAGE: HEADWATERS: _____ UNIFORM THROUGHOUT WATERSHED _____
 IMMEDIATELY ABOVE SITE _____

EXISTING STRUCTURE

STRUCTURE TYPE: N/A YEAR BUILT: _____
 CLEAR SPAN NORMAL TO STREAM: _____
 VERTICAL CLEARANCE ABOVE STREAMBED: _____
 WATERWAY OF FULL OPENING: _____
 DISPOSITION OF STRUCTURE: _____
 TYPE OF MATERIAL UNDER SUBSTRUCTURE: _____
 WATER SURFACE ELEV. @ 02.33+ _____ VELOCITY+ _____
 010+ _____ + _____
 025+ _____ + _____
 050+ _____ + _____
 0100+ _____ + _____
 LONG TERM STREAM BED CHANGES: _____
 IS THE ROADWAY OVERTOPPED BELOW THE 0100? _____ FREQUENCY: _____
 RELIEF ELEVATION: _____ DISCHARGE OVER ROAD @ 0100: _____
 UPSTREAM STRUCTURE #1 TOWN: _____ DISTANCE: _____
 HIGHWAY NO.: _____ STRUCTURE NO.: _____
 STRUCTURE TYPE: _____
 CLEAR SPAN: _____ CLEAR HEIGHT: _____
 YEAR BUILT: _____ FULL WATERWAY: _____
 UPSTREAM STRUCTURE #2 TOWN: _____ DISTANCE: _____
 HIGHWAY NO.: _____ STRUCTURE NO.: _____
 STRUCTURE TYPE: _____
 CLEAR SPAN: _____ CLEAR HEIGHT: _____
 YEAR BUILT: _____ FULL WATERWAY: _____
 DOWNSTREAM STRUCTURE: TOWN: WEST RUTLAND DISTANCE: 10 FEET
 HIGHWAY NO.: _____ STRUCTURE NO.: _____
 STRUCTURE TYPE: FLAT SLAB
 CLEAR SPAN: 7.75 FEET CLEAR HEIGHT: 7.0 FEET
 YEAR BUILT: UNKNOWN FULL WATERWAY: _____

PROPOSED STRUCTURE

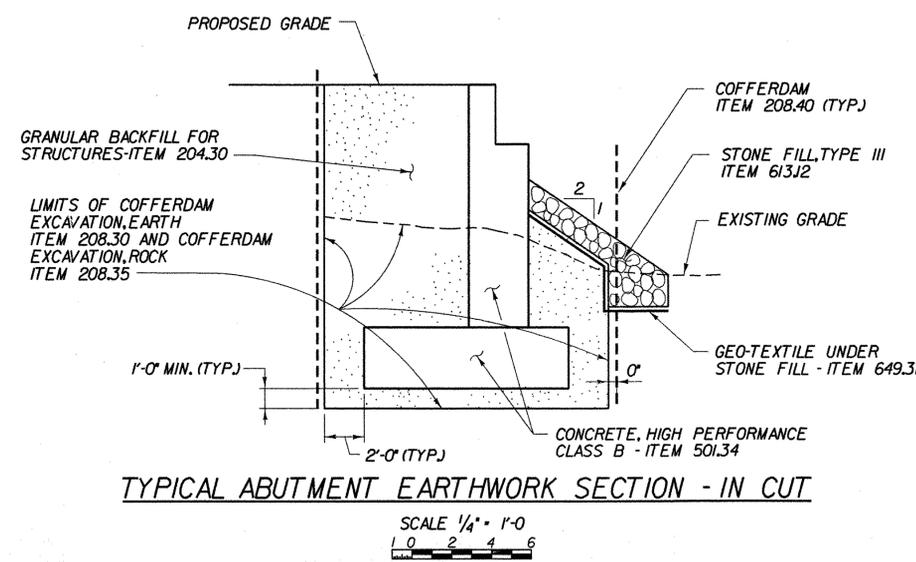
STRUCTURE TYPE: WARREN PONY TRUSS - ADAPTIVE REUSE OF HISTORIC TRUSS
 VERTICAL CLEARANCE ABOVE STREAMBED: 7'-5"
 WATERWAY OF FULL OPENING: _____
 WATER SURFACE ELEV. @ 02.33 = N/A VELOCITY = N/A
 010 = _____ + _____
 025 = _____ + _____
 050 = _____ + _____
 0100 = _____ + _____
 IS THE ROADWAY OVERTOPPED BELOW THE 0100? _____ FREQUENCY: _____
 RELIEF ELEVATION: _____ DISCHARGE OVER ROAD @ 0100: _____
 AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: _____
 VERTICAL CLEARANCE @ 0100 = _____
 SCOUR: _____
 REQUIRED CHANNEL PROTECTION: _____

PERMIT INFORMATION

AVERAGE DAILY FLOW: _____ DEPTH: _____
 ORDINARY LOW WATER: _____ DEPTH: 4 FEET
 ORDINARY HIGH WATER: 96.5 DEPTH: _____

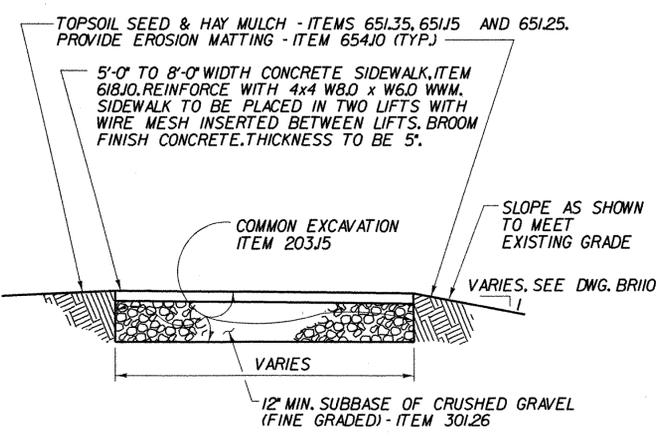
ADDITIONAL COMMENTS

PROPOSED BRIDGE HAS A SIGNIFICANTLY LARGER HYDRAULIC OPENING THAN THE EXISTING SLAB BRIDGE THAT IS IMMEDIATELY DOWNSTREAM OF THIS BRIDGE, AND THEREFORE NO HYDRAULIC DATA WAS GATHERED.



TYPICAL ABUTMENT EARTHWORK SECTION - IN CUT

SCALE 1/4" = 1'-0"
1 0 2 4 6



TYPICAL SIDEWALK DETAIL

(NOT TO SCALE)

DESIGN CRITERIA:
 1. DESIGN LIVE LOAD ASHTO H-10 TRUCK LOAD, 85 PSF PEDESTRIAN LOAD
 2. DESIGN SPAN 58'-0"
 3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL 215F _____ ON LEDGE _____ ESTIMATED LENGTH _____
 4. ALLOWABLE LOAD FOR PILING N/A
 5. STRUCTURAL STEEL M 270 GRADE 36
 6. REINFORCING STEEL 60 KSI
 7. CONCRETE HIGH PERFORMANCE CLASS B - f'c = 3500 PSI
 TRAFFIC MAINTENANCE:
 1. IS TRAFFIC TO BE MAINTAINED? N/A IF YES, ON EXISTING STRUCTURE _____ OR ON TEMPORARY BRIDGE _____
 2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY _____ TRAFFIC CONTROL SIGNALS REQUIRED _____
 MINIMUM CLEAR SPAN NORMAL TO STREAM: _____ VERTICAL CLEARANCE ABOVE STREAMBED: _____
 WATERWAY OF FULL OPENING: _____
 ARE SIDEWALKS REQUIRED? _____ IF SO, ON WHAT SIDE? _____
 STRUCTURE TYPE: _____

LOADING LEVELS (LOAD FACTOR)	LOAD FACTOR LOAD RATING (TONS)						
	H	HS	3S2	6 AXLE	3A,STR.	4A,STR.	5A,SEMI
INVENTORY A = 2.17; B = 1.00	H14						
POSTED A = 1.55; B = 1.40							
OPERATING A = 1.30; B = 1.67	H21						

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town of WEST RUTLAND Bridge No. XX
 Highway No. CLARENDON AVE. Log Sta. _____
 Surv. Sta. 120+00

PEDESTRIAN BRIDGE OVER CLARENDON BROOK

PRELIMINARY INFORMATION
 Designed By: L. HARDEN Drawn by: Wm WEATHERBY
 Checked By: M. OLSTAD Date: 4/2002 Bridge Design Supervisor: M. OLSTAD Date: 4/2002
 PROJECT: WEST RUTLAND PROJECT NO. ST WALK (II)
 I.G.C. Info. _____

FILE NAME: \\s102241\NSTN\151022\pre1.mpl
 DATE/TIME: 11/13/02
 USER: z467

