

# PRELIMINARY INFORMATION SHEET

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FINAL HYDRAULIC REPORT

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STANDARDS LIST

E-119	UTILITY WORK ZONE	03-01-2004
T-1	TRAFFIC CONTROL GENERAL NOTES	08-06-2012
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08-06-2012
T-28	CONSTRUCTION SIGN DETAILS	08-06-2012
T-30	CONSTRUCTION SIGN DETAILS	08-06-2012

HYDROLOGIC DATA

Date: N/A

DRAINAGE AREA : N/A  
 CHARACTER OF TERRAIN : N/A  
 STREAM CHARACTERISTICS : N/A  
 NATURE OF STREAMBED : N/A

PEAK FLOW DATA

Q 2.33 =	N/A	Q 50 =	N/A
Q 10 =	N/A	Q 100 =	N/A
Q 25 =	N/A	Q 500 =	N/A

DATE OF FLOOD OF RECORD : N/A  
 ESTIMATED DISCHARGE : N/A  
 WATER SURFACE ELEV. : N/A  
 NATURAL STREAM VELOCITY : N/A  
 ICE CONDITIONS : N/A  
 DEBRIS : N/A  
 DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY? : N/A  
 IS ORDINARY RISE RAPID? : N/A  
 IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? : N/A  
 IF YES, DESCRIBE: \_\_\_\_\_

WATERSHED STORAGE : N/A HEADWATERS : N/A  
 UNIFORM : N/A  
 IMMEDIATELY ABOVE SITE : N/A

EXISTING STRUCTURE INFORMATION

STRUCTURE TYPE : 4-SPAN COVERED BRIDGE  
 YEAR BUILT : 1870  
 CLEAR SPAN(NORMAL TO STREAM): 276.35'  
 VERTICAL CLEARANCE ABOVE STREAMBED: 17'-11"  
 WATERWAY OF FULL OPENING: N/A  
 DISPOSITION OF STRUCTURE: REHABILITATE  
 TYPE OF MATERIAL UNDER SUBSTRUCTURE: SANDY

WATER SURFACE ELEVATIONS AT:

Q2.33 =	N/A	VELOCITY =	N/A
Q10 =	N/A	"	N/A
Q25 =	N/A	"	N/A
Q50 =	N/A	"	N/A
Q100 =	N/A	"	N/A

LONG TERM STREAMBED CHANGES: N/A

IS THE ROADWAY OVERTOPPED BELOW Q100: N/A  
 FREQUENCY: N/A  
 RELIEF ELEVATION: N/A  
 DISCHARGE OVER ROAD @Q100: N/A

UPSTREAM STRUCTURE

TOWN: TOWNSHEND DISTANCE: 0.4 MI  
 HIGHWAY #: N/A STRUCTURE #: N/A  
 CLEAR SPAN: N/A CLEAR HEIGHT: N/A  
 YEAR BUILT: N/A FULL WATERWAY: N/A  
 STRUCTURE TYPE: USACOE TOWNSHEND DAM (NAT'L ID # VT00004)

DOWNSTREAM STRUCTURE

TOWN: TOWNSHEND DISTANCE: 3.5 MI  
 HIGHWAY #: VT RT 30 STRUCTURE #: 15  
 CLEAR SPAN: 446' CLEAR HEIGHT: N/A  
 YEAR BUILT: 1952 FULL WATERWAY: N/A  
 STRUCTURE TYPE: STEEL MULT-BEAM

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H	HS	3S2	6 AXLE	3A STR.	4A STR.	5A SEM
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY	N/A	N/A	N/A	N/A	N/A	N/A	N/A
POSTING	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OPERATING	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COMMENTS:							

AS BUILT "REBAR" DETAIL

LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:



PROPOSED STRUCTURE

STRUCTURE TYPE: REHABILITATED 4-SPAN COVERED BRIDGE

CLEAR SPAN(NORMAL TO STREAM): 276.35'  
 VERTICAL CLEARANCE ABOVE STREAMBED: 17'-11"  
 WATERWAY OF FULL OPENING: N/A

WATER SURFACE ELEVATIONS AT:

Q2.33 =	N/A	VELOCITY =	N/A
Q10 =	N/A	"	N/A
Q25 =	N/A	"	N/A
Q50 =	N/A	"	N/A
Q100 =	N/A	"	N/A

IS THE ROADWAY OVERTOPPED BELOW Q100: N/A  
 FREQUENCY: N/A  
 RELIEF ELEVATION: N/A  
 DISCHARGE OVER ROAD @Q100: N/A

AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: N/A  
 VERTICAL CLEARANCE: N/A

SCOUR: N/A

REQUIRED CHANNEL PROTECTION: N/A

PERMIT INFORMATION

AVERAGE DAILY FLOW: N/A DEPTH OR ELEVATION:  
 ORDINARY LOW WATER: N/A  
 ORDINARY HIGH WATER: N/A

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: N/A  
 CLEAR SPAN (NORMAL TO STREAM): N/A  
 VERTICAL CLEARANCE ABOVE STREAMBED: N/A  
 WATERWAY AREA OF FULL OPENING: N/A

ADDITIONAL INFORMATION

DESIGN VALUES

1. PEDESTRIAN DESIGN LIVE LOAD	35 PSF
2. FUTURE PAVEMENT	d <sub>p</sub> : 0.0 INCH
3. DESIGN SPAN	L: 82.80 FT
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ: ---
5. PRESTRESSING STRAND	f <sub>y</sub> : ---
6. PRESTRESSED CONCRETE STRENGTH	f'c: ---
7. PRESTRESSED CONCRETE RELEASE STRENGTH	f'ci: ---
8. SPECIAL PROVISION (HIGH PERFORMANCE CONCRETE, RAPID SET)	f'c: ---
9. CONCRETE, HIGH PERFORMANCE CLASS A	f'c: 4.0 KSI
10. CONCRETE, HIGH PERFORMANCE CLASS B	f'c: 3.5 KSI
11. ULTRA HIGH PERFORMANCE CONCRETE	f'c: ---
12. REINFORCING STEEL	f <sub>y</sub> : ---
13. STRUCTURAL STEEL AASHTO M270 (WEATHERING)	f <sub>y</sub> : ---
14. SOIL UNIT WEIGHT	γ: ---
15. NOMINAL BEARING RESISTANCE OF SOIL	q <sub>n</sub> : ---
16. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	φ: ---
17. NOMINAL BEARING RESISTANCE OF ROCK	q <sub>n</sub> : ---
18. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	φ: ---
19. PILE RESISTANCE FACTOR	φ: ---
20. LATERAL PILE DEFLECTION	Δ: ---
21. BASIC WIND SPEED	V <sub>3s</sub> : 90 MPH
22. MINIMUM GROUND SNOW LOAD	p <sub>s</sub> : 0.05 K/FT <sup>2</sup>
23. SEISMIC DATA	PGA: S <sub>s</sub> : S <sub>1</sub> : ---
24. NOMINAL AXIAL PILE RESISTANCE	---
25. PILE YIELD STRENGTH ASTM A572	---
26. PILE SIZE	---
27. EST. PILE LENGTH	---

PROJECT NAME: TOWNSHEND

PROJECT NUMBER: STP SCTT (1)

FILE NAME: 904225pi.xls PLOT DATE: 7/13/2015  
 PROJECT LEADER: M.D.SARGENT DRAWN BY: T.A.GELINAS  
 DESIGNED BY: J.C.RIPLEY CHECKED BY: S.T.JAMES  
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STRUCTURES DETAIL SHEETS

NONE

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT	
N/A	N/A	N/A	N/A	N/A	N/A	20 year ESAL for flexible pavement from N/A to N/A : N/A
N/A	N/A	N/A	N/A	N/A	N/A	40 year ESAL for flexible pavement from N/A to N/A : N/A
N/A	N/A	N/A	N/A	N/A	N/A	Design Speed : N/A mph