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•1958 RECORD DRAWINGS FOR REFERENCE ONLY

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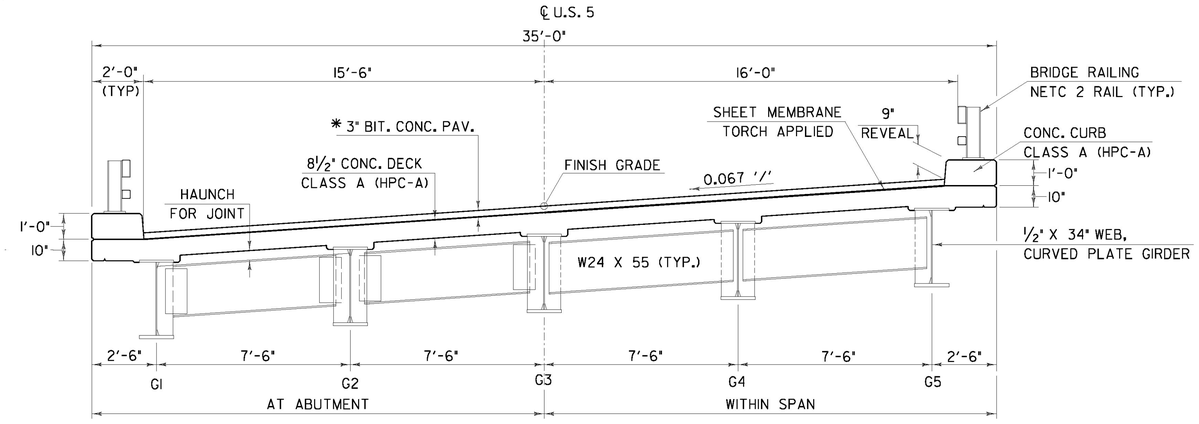

* TWO 1½" LIFTS MEDIUM DUTY BIT. CONC. PAVEMENT (TYPE IV)

PROPOSED BRIDGE TYPICAL SECTION ALL HORIZONTAL DIMENSIONS RADIAL

SCALE: ⅜" = 1'-0"

EXISTING STRUCTURE

1. STRUCTURE TYPE FOUR SIMPLE SPAN STEEL BEAM OVERALL LENGTH 331 FEET INVENTORY RATING HS-20
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS SPAN 1 (89.82 FEET), SPAN 2 (88.56 FEET), SPAN 3 (97.17 FEET), SPAN 4 (79.24 FEET)
3. CLEAR SPAN LENGTH(S) NORMAL TO STREAM N/A
4. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM) N/A VERTICAL CLEARANCE ABOVE STREAMBED
5. WATER SURFACE ELEVATION @ Q 2.33 N/A WATER SURFACE ELEVATION @ Q N/A
6. WATER SURFACE ELEVATION AT FLOOD OF RECORD N/A YEAR N/A ESTIMATED DISCHARGE N/A
7. DOES ALL WATER PASS THROUGH EXISTING STRUCTURE? N/A IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR? N/A
   ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF N/A
8. TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL N/A
9. DISPOSITION OF STRUCTURE REMOVE ENTIRE SUPERSTRUCTURE INCLUDING PIER CAPS AND REPLACE. • SEE NOTE BELOW.

NEW STRUCTURE

STRUCTURE GEOMETRY:
1. STRUCTURE TYPE 4 SPAN CONTINUOUS STEEL CURVED PLATE GIRDER OVERALL LENGTH 335.24
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS 68.65 - 98.28 - 98.61 - 78.88
3. VERTICAL CLEARANCE ABOVE STREAMBED OR ROAD UNDER MINIMUM 16'-6"
4. CLEAR SPAN LENGTH(S) NORMAL TO STREAM N/A
5. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM) N/A
6. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES? YES

ALLOWABLE STRESSES:
1. DESIGN LIVE LOAD AASHTO HS-25
2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL N/A ON LEDGE N/A
3. ALLOWABLE LOAD FOR PILING N/A TYPE N/A ESTIMATED LENGTH N/A
4. ALLOWABLE STRESS FOR STRUCTURAL STEEL AASHTO M 270 TENSION
5. ALLOWABLE STRESS FOR REINFORCING STEEL GRADE 60 TENSION 60,000 PSI COMPRESSION
6. ALLOWABLE STRESS FOR CONCRETE HPC- A f'_c 4000 PSI f_c 1600 PSI
   CLASS B f'_c 3500 PSI f_c 1400 PSI

TRAFFIC MAINTENANCE:
1. IS TRAFFIC TO BE MAINTAINED? YES IF YES, ON EXISTING STRUCTURE NO OR ON TEMPORARY BRIDGE YES
2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY TWO WAY TRAFFIC CONTROL SIGNALS REQUIRED NO
   MINIMUM CLEAR SPAN SEE PLAN MINIMUM CLEAR HEIGHT 16'-3" OVER INTERSTATE MINIMUM WATERWAY AREA N/A
   ARE SIDEWALKS REQUIRED? NO IF SO, ON WHAT SIDE?

• NOTE:
"THE EXISTING STRUCTURAL STEEL ON THIS PROJECT WAS PAINTED WITH A MATERIAL WHICH MAY CONTAIN LEAD. THE REMOVED STRUCTURAL STEEL IS THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE STATE, ITS OFFICERS, AND EMPLOYEES HARMLESS CONCERNING THE CONTRACTOR'S USE OR DISPOSITION OF THE STRUCTURAL STEEL."

ADDITIONAL DESIGN CONSIDERATIONS

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2004	1600	230	51	5	110
2024	2100	280	57	7	210

18 kip ESAL for flexible pavement from 2004 to 2024: 910,000
18 kip ESAL for flexible pavement from 2004 to 2044: 2,322,000
Design speed: 45

LOAD RATING (TONS)

STRESS LEVELS	TRUCK H	HS	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEMI
INVENTORY 0.55 Fy=	65	45					
POSTED 0.67 Fy=	108	75	155		122	125	147
OPERATING 0.75 Fy=		63	130	129			

REVISIONS

NO.	DESCRIPTION	BY & DATE

Stantec

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of PUTNEY	Bridge No. 19A
Highway No. U.S. ROUTE 5	Log Sta.
	Surv. Sta.

PRELIMINARY INFORMATION

Designed By	Drawn By
Checked By Date	Bridge Design Supervisor Date
PROJECT PUTNEY	PROJECT NO. IM 091-1(31)
CAD Drawing Name: ...\Plot Files\02 z93Bridge.dgn	Plot Date: 7/8/2009
Bridge Sheet No.	Sheet 2 of 75