

PRELIMINARY INFORMATION SHEET (BRIDGE)

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PROJECT REFERENCE SHEETS

47 - 51	BRIDGE 62A - 1955 PLANS
52 - 55	BRIDGE 66 - 1967 PLANS

NOTE: THE STATIONING ON THE TITLE SHEET IS BASED ON AN ASSUMED STATIONING FOR BRIDGE 62A AND RECORD PLAN STATIONING FOR BRIDGE 66. THE BRIDGES ARE 3 MILES APART.

STRUCTURE DETAILS

SD-501.00	CONCRETE DETAILS AND NOTES	02-09-2012
SD-502.00	CONCRETE DETAILS AND NOTES	10-10-2012
SD-516.10	BRIDGE JOINT ASPHALTIC PLUG	08-29-2011
SD-601.00	STRUCTURAL STEEL DETAILS AND NOTES	06-04-2010

STANDARDS LIST

B-5	SLOPE GRADING, EMBANKMENTS, MUCK	06-01-1994
B-71	STANDARD FOR RESIDENTIAL AND COMMERCIAL DRIVES	07-08-2005
C-10	CURBING	02-11-2008
D-16	DRAINAGE DETAILS INCLUDING DROP INLETS, IRON GRATE TYPE B&C, CONC END SECTIONS, ETC.	06-01-1994
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08-08-1995
E-134	BRIDGE NUMBER PLAQUE	08-08-1995
E-136A	U.S. ROUTE MARKER SIGN DETAILS	08-08-1995
E-136B	STATE ROUTE MARKER SIGN DETAILS	08-08-1995
E-136C	STATE NUMBERED TOWN HIGHWAY SIGN DETAILS	08-08-1995
E-155	WARNING SIGN DETAILS	05-01-2004
E-193	PAVEMENT MARKING DETAILS	08-18-1995
G-1	STEEL BEAM GUARDRAIL DETAILS (POST, DELINEATOR, TYPICALS)	01-03-2000
G-1D	STEEL BEAM GUARDRAIL DETAILS (END TERMINAL, ANCHOR, MEDIAN)	01-03-2000
G-19	GENERIC GRADING PLANS FOR GUARDRAIL END TERMINALS	11-15-2002
S-360a	BRIDGE RAILING, GALVANIZED 2 RAIL BOX BEAM	04-23-2012
S-360b	GUARDRAIL APPROACH SECTION, GALVANIZED 2 RAIL BOX BEAM	04-23-2012
S-363	THREE BEAM TO STANDARD STEEL BEAM TRANSITION SECTION	12-14-2009
T-1	TRAFFIC CONTROL GENERAL NOTES	08-06-2012
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08-06-2012
T-17	TRAFFIC CONTROL MISCELLANEOUS DETAILS	08-06-2012
T-28	CONSTRUCTION SIGN DETAILS	08-06-2012
T-30	CONSTRUCTION SIGN DETAILS	08-06-2012
T-31	CONSTRUCTION SIGN DETAILS	08-06-2012
T-35	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS	08-06-2012
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01-02-2013

FINAL HYDRAULIC REPORT

HYDROLOGIC DATA

Date: _____

DRAINAGE AREA : _____
CHARACTER OF TERRAIN : _____
STREAM CHARACTERISTICS : _____
NATURE OF STREAMBED : _____

PEAK FLOW DATA

Q 2.33 =	_____	Q 50 =	_____
Q 10 =	_____	Q 100 =	_____
Q 25 =	_____	Q 500 =	_____

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

WATERSHED STORAGE: 0% HEADWATERS: _____
UNIFORM: _____
IMMEDIATELY ABOVE SITE: _____

EXISTING STRUCTURE INFORMATION

STRUCTURE TYPE: Single span composite rolled beam
YEAR BUILT: 1955
CLEAR SPAN(NORMAL TO STREAM): _____ N/A
VERTICAL CLEARANCE ABOVE R.R. TRACKS: 22'-2"
WATERWAY OF FULL OPENING: _____ N/A
DISPOSITION OF STRUCTURE: Retain existing steel
TYPE OF MATERIAL UNDER SUBSTRUCTURE: _____

WATER SURFACE ELEVATIONS AT:

Q2.33 =	_____	VELOCITY =	_____
Q10 =	_____	"	_____
Q25 =	_____	"	_____
Q50 =	_____	"	_____
Q100 =	_____	"	_____

LONG TERM STREAMBED CHANGES: _____

IS THE ROADWAY OVERTOPPED BELOW Q100: _____
FREQUENCY: _____
RELIEF ELEVATION: _____
DISCHARGE OVER ROAD @Q100: NO

UPSTREAM STRUCTURE

TOWN: _____ DISTANCE: _____
HIGHWAY #: _____ STRUCTURE #: _____
CLEAR SPAN: _____ CLEAR HEIGHT: _____
YEAR BUILT: _____ FULL WATERWAY: _____
STRUCTURE TYPE: _____

DOWNSTREAM STRUCTURE

TOWN: _____ DISTANCE: _____
HIGHWAY #: _____ STRUCTURE #: _____
CLEAR SPAN: _____ CLEAR HEIGHT: _____
YEAR BUILT: _____ FULL WATERWAY: _____
STRUCTURE TYPE: _____

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A STR.	4A STR.	5A SEHH
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY	3.73	1.68					
POSTING							
OPERATING	4.83	2.18	2.66	1.55	2.62	2.34	2.37
COMMENTS:							

PROPOSED STRUCTURE

STRUCTURE TYPE: Retain existing with new deck

CLEAR SPAN(NORMAL TO STREAM): _____
VERTICAL CLEARANCE ABOVE STREAMBED: _____ NA
WATERWAY OF FULL OPENING: _____ NA

WATER SURFACE ELEVATIONS AT:

Q2.33 =	_____	VELOCITY=	_____
Q10 =	_____	"	_____
Q25 =	_____	"	_____
Q50 =	_____	"	_____
Q100 =	_____	"	_____

IS THE ROADWAY OVERTOPPED BELOW Q100: _____ NA
FREQUENCY: _____
RELIEF ELEVATION: _____
DISCHARGE OVER ROAD @Q100: _____

AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: _____
VERTICAL CLEARANCE: @ Q?? = _____

SCOUR: _____

REQUIRED CHANNEL PROTECTION: _____

PERMIT INFORMATION

AVERAGE DAILY FLOW: _____ DEPTH OR ELEVATION: _____
ORDINARY LOW WATER: _____
ORDINARY HIGH WATER: _____

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: None - Detour will be in place during construction for 62A deck
CLEAR SPAN (NORMAL TO STREAM): _____
VERTICAL CLEARANCE ABOVE STREAMBED: _____
WATERWAY AREA OF FULL OPENING: _____

ADDITIONAL INFORMATION

TRAFFIC MAINTENANCE NOTES

- TRAFFIC DETOURED DURING DECK REPLACEMENT ON BRIDGE 62A.
- TRAFFIC SIGNALS USED DURING RETAINING WALL, WINGWALL, CLEANING AND PAINTING OF STRUCTURE FOR BRIDGE 62A.
- FLAGGERS AND TRAFFIC SIGNAL TO BE USED FOR BRIDGE 66.

DESIGN VALUES

1. DESIGN LIVE LOAD	HL-93
2. FUTURE PAVEMENT	d_p : 2.5 INCH
3. DESIGN SPAN	L : 0.00 FT
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ : ---
5. PRESTRESSING STRAND (0.80 INCH DIAMETER - LOW RELAX)	f_y : ---
6. PRESTRESSED CONCRETE STRENGTH	f'_c : ---
7. PRESTRESSED CONCRETE RELEASE STRENGTH	f'_{ci} : ---
8. CONCRETE, HIGH PERFORMANCE CLASS AA	f'_c : ---
9. CONCRETE, HIGH PERFORMANCE CLASS A LOW CEMENT	f'_c : 4.0 KSI
10. CONCRETE, HIGH PERFORMANCE CLASS B	f'_c : 3.5 KSI
11. CONCRETE, CLASS C	f'_c : ---
12. REINFORCING STEEL	f_y : 80 KSI
13. STRUCTURAL STEEL AASHTO M270	f_y : ---
14. SOIL UNIT WEIGHT	γ : 0.140 KCF
15. NOMINAL BEARING RESISTANCE OF SOIL	q_n : 4.0 KSF
16. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ : ---
17. NOMINAL BEARING RESISTANCE OF ROCK	q_n : ---
18. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ : ---
19. NOMINAL AXIAL PILE RESISTANCE	q_p : ---
20. PILE YIELD STRENGTH ASTM A572	f_y : ---
21. PILE SIZE	---
22. EST. PILE LENGTH	L_p : _____
23. PILE RESISTANCE FACTOR	ϕ : ---
24. LATERAL PILE DEFLECTION	Δ : ---
25. BASIC WIND SPEED	V_{3s} : ---
26. MINIMUM GROUND SNOW LOAD	P_g : ---
27. SEISMIC DATA	PGA : --- S_s : --- S_1 : ---

PROJECT NAME: **HARTLAND**
PROJECT NUMBER: **BHF BPNT(12)**

FILE NAME: **z11c260pi.dgn** PLOT DATE: 12/31/2013
PROJECT LEADER: **M.A. COLGAN** DRAWN BY: **A.J. GOUDREAU**
DESIGNED BY: **S.G. FARNSWORTH** CHECKED BY: **S.G. FARNSWORTH**
BR 62A PRELIMINARY INFORMATION SHEET SHEET **2** OF **55**

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2013	2150	240	54	7.0	150
2033	2420	260	54	7.0	170

AS BUILT "REBAR" DETAILS

20 year ESAL for flexible pavement from 2013 to 2033 : 0		
LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:

40 year ESAL for flexible pavement from 2013 to 2053 : 0

Design Speed : 45 mph

Vanasse Hangen Brustlin, Inc.