

PRELIMINARY INFORMATION SHEET (CULVERT)

LRFD

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FINAL HYDRAULIC REPORT

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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-15	PRECAST REINF CONC. MH-GRATES, CAST IRON GRATE WITH FRAME, TYPE D & E	06-01-1994
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08-08-1995
E-127	ROUTE MARKINGS AT RURAL INTERSECTIONS	08-08-1995
E-136B	STATE ROUTE MARKER SIGN DETAILS	08-08-1995
E-193	PAVEMENT MARKING DETAILS	08-18-1995
G-1bM	BOX BEAM GUARD RAIL	06-13-1997
G-19	GENERIC GRADING PLANS FOR GUARDRAIL END TERMINALS	11-15-2002
J-3	MAIL BOX SUPPORT DETAILS	08-07-1995
L-1	SETTLEMENT PLATFORM TYPE I STANDPIPE TYPE II REMOTE READING TYPE	03-09-1995
L-2	GEOTECHNICAL INSTRUMENTATION	07-24-1995
S-352A	BRIDGE RAILING, GALVANIZED STEEL TUBING/CONCRETE COMBINATION	08-22-2012
S-352B	BRIDGE RAILING, GALVANIZED STEEL TUBING/CONCRETE COMBINATION	08-22-2012
S-352C	BRIDGE RAILING, GALVANIZED STEEL TUBING/CONCRETE COMBINATION	08-22-2012
T-1	TRAFFIC CONTROL GENERAL NOTES	04-25-2016
T-2	TRAFFIC SIGN GENERAL NOTES	04-25-2016
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-29	CONSTRUCTION SIGN DETAILS	08-06-2012
T-30	CONSTRUCTION SIGN DETAILS	08-06-2012
T-36	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS FOR PAVING	08-06-2012
T-40	DELINEATORS AND MILEPOSTS	01-02-2013
T-42	BRIDGE NUMBER PLAQUE	04-09-2014
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01-02-2013

STRUCTURES DETAIL SHEETS

SD-501.00	CONCRETE DETAILS AND NOTES	2/9/2012
SD-502.00	CONCRETE DETAILS AND NOTES	10/10/2012

HIGHWAY SAFETY AND DESIGN DETAILS

HSD-621.06	GUARDRAIL TERMINAL LABEL DETAIL	11/3/2015
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REVISION	DATE	DESCRIPTION	BY
1	12-05-2016	ADD RECORD PLANS	SRB

AS BUILT "REBAR" DETAIL		
LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:

LRFR LOAD RATING FACTORS							
LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A STR.	4A STR.	5A SEMI
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY							
POSTING							
OPERATING							
COMMENTS:	TABLE TO BE COMPLETED BY CONTRACTOR'S DESIGNER						

CULVERT DESIGN CRITERIA	
1.	PROPOSED CULVERT IS A DEEP CORRUGATED STRUCTURAL PLATE BURIED BRIDGE (47'-11" X 26'-9" X 40'-3" ARCH).
2.	CULVERT ENDS ARE NOT SKEWED.
3.	CULVERT WILL BE SET AT A SLOPE OF 0.00 IN. ON 0 FT.
4.	CULVERT WILL NOT REQUIRE FISH PASSAGE ACCOMODATIONS
5.	CULVERT CONSTRUCTION WILL NOT REQUIRE A TEMPORARY PIPE

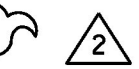
TRAFFIC MAINTENANCE NOTES	
1.	MAINTAIN TRAFFIC ON AN OFF SITE DETOUR.
2.	TRAFFIC SIGNALS ARE NOT NECESSARY.
3.	SIDEWALKS ARE NOT NECESSARY

DESIGN VALUES	
1. DESIGN LIVE LOAD	HL-93
2. FUTURE PAVEMENT	d _p : ---
3. CULVERT OPENING	D: 47.92 FT
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ: ---
5. PRESTRESSING STRAND	f _y : ---
6. PRESTRESSED CONCRETE STRENGTH	f' _c : ---
7. PRESTRESSED CONCRETE RELEASE STRENGTH	f' _{cr} : ---
8. CONCRETE, HIGH PERFORMANCE CLASS AA	f' _c : ---
9. CONCRETE, HIGH PERFORMANCE CLASS A	f' _c : 4.0 KSI
10. CONCRETE, HIGH PERFORMANCE CLASS B	f' _c : ---
11. CONCRETE, CLASS C	f' _c : 3.0 KSI
12. REINFORCING STEEL	f _y : 60 KSI
13. STRUCTURAL STEEL AASHTO M270	f _y : ---
14. NOMINAL BEARING RESISTANCE OF SOIL	q _n : SEE NOTES
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	φ: 0.45
16. NOMINAL BEARING RESISTANCE OF ROCK	q _n : ---
17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	φ: ---

18. PILE RESISTANCE FACTOR	φ: ---
19. LATERAL PILE DEFLECTION	Δ: ---
20. BASIC WIND SPEED	V _{3s} : ---
21. MINIMUM GROUND SNOW LOAD	p _g : ---
22. SEISMIC DATA	P _{GA} : 0 S _s : --- S ₁ : ---
23.	---
24.	---
25.	---
26.	---

PROJECT NAME:	ST. JOHNSBURY
PROJECT NUMBER:	BF 7000(20)
FILE NAME:	86e048/cos/z86e048p1.dgn
PLOT DATE:	11/30/2016
PROJECT LEADER:	J.BYATT
DRAWN BY:	M.SMITH
DESIGNED BY:	S.BEAUMONT
CHECKED BY:	A.GIRALDI
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MODEL: P1
CLD 14-016



REFERENCE DRAWINGS SP 15-00388 1-6
REFERENCE DRAWINGS VW15-00388 1-16
REFERENCE DRAWINGS RECORD PLANS 1-7

TRAFFIC DATA					
YEAR	ADT	DHV	% D	% T	ADTT
2016	820	85	50	1.6	20
2036	860	90	50	2.2	30
20 year ESAL for flexible pavement from 2016 to 2036 : 147000					
40 year ESAL for flexible pavement from 2016 to 2056 : 341000					
Design Speed : 35 mph					