

WILDLIFE UNDERPASS EXHIBIT
WILDLIFE UNDERPASS EXHIBIT





34 1



18 X 24 PRINTED ON NO. 1000H CLEARPRINT . 1.5



ALE	APPROVED BY:	DRAWN BY
TE:		REVISED
		DRAWING NUMBER









THIS DRAWING IS THE PROPERTY OF CANADA CULVERT AND MUST NOT BE REPRODUCED, COPIED, LENT, OR DISPOSED OF, DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED UNLESS PREVIOUSLY APPROVED IN WRITING BY CANADA CULVERT. THIS DRAWING SHALL BE

SPCSP (STRUCTURAL PLATE CORRUGATED STEEL PIPE) CORPLATE.

ALL DIMENSIONS ARE IN MILLIMETERS (mm), UNLESS NOTED OTHERWISE. ALL DIMENSIONS ARE TO THE INSIDE CREST OF STEEL, UNLESS NOTED OTHERWISE.

BURIED CORRUGATED STEEL PLATE STRUCTURE IS A COMPOSITE SYSTEM MADE UP OF THE STEEL RING AND THE ENGINEERED BACKFILL ENVELOPE, AND BOTH ELEMENTS PLAY A VITAL PART IN THE STRUCTURAL INTEGRITY THROUGHOUT THE SERVICE LIFE. THEREFORE IT IS IMPORTANT TO ENSURE THAT ENGINEERING BACKFILL IS MADE UP OF THE SPECIFIED

ENGINEERING BACKFILL MATERIAL SHALL BE CLEAN, GRANULAR, NON-FROST SUSCEPTIBLE, AND POSSESS TIME-INDEPENDENT

BACKFILL MATERIAL SHALL CONSISTS OF A WELL GRADED GRANULAR MATERIAL WITH ANGULAR GRAINS CLASSIFYING AS "BRIDGE END FILL" IN SECTION 202 OF BC MOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND MEETING

SIEVE SIZE (mm)

75.00

50.00 25.00

19.00 4.75

1.18

0.30

0.075

AR 2016-09-27

AR 2016-09-27

AT 2016-09-27

SM 2016-09-27

PERCENT PASSING
100
30 - 100
20 - 100
15 – 95
10 – 65
6 - 35
4 – 20
0 – 10

PARTICLE ANGULARITY: PERCENTAGE OF FRACTURED GRAVEL PARTICLE (MINIMUM 2 FACES) SHALL BE MORE THAN 50 %

PARTICLE DURABILITY OF THE COARSE AGGREGATE LOSS SHALL NOT EXCEED BY 30% AS DETERMINED BY MICRO-DEVAL

BACKFILL MATERIAL SHALL BE FREE FROM FOREIGN MATTER. SHALES AND CLAYSTONES ARE GENERALLY CONSIDERED DELETERIOUS MATERIALS AND SHALL NOT BE ALLOWED IN

FROZEN MATERIAL SHALL NOT BE ALLOWED IN THE ENGINEERED BACKFILL ENVELOPE. PLASTICITY INDEX: PLASTICITY INDEX (PI) OF FINE GRAINED PORTION OF THE SOIL SHALL BE LESS THAN 10 (ASTM D4318). PLASTICITY INDEX CAN BE WAIVED IF FINES CONTENT IS LESS THAN OR EQUAL TO 5%. ELECTROCHEMICAL LIMITS FOR GALVANIZED PLATES (AASHTO CORROSION MODEL): (AASHTO T289-91 OR EQUIVALENT) (AASHTO T288-91 OR EQUIVALENT) (AASHTO T291-91 OR EQUIVALENT) (AASHTO T290-91 OR EQUIVALENT)

(AASHTO T267-86 OR EQUIVALENT)

MAXIMUM UNCOMPACTED LIFT HEIGHT SHALL BE 200 mm. EACH LAYER SHALL BE COMPACTED TO MINIMUM OF 95% STANDARD PROCTOR DENSITY ASTM D 698. OPTIMUM MOISTURE CONTENT SHALL BE MAINTAINED DURING COMPACTION ASTM D 698.

1	ERT™	CUSTOMER PARKS CAN	ADA				
.c	anadaculvert.com						
	DATE	PROJECT NAME	TEN DAY PASS	FXHIBIT	BC		
)	9-27	BOLLI TAIL		2,000,000,000,000,000,000,000,000,000,0			
) (	9-27						
)	9-27	GEOMETRY	- ELEVATION, L		NAL PROFILE	<u>:</u>	
) (	9-27						
T	SCALE	TOTAL SHEETS	PROJECT NO.		DRAWING NO.		REV.
	AS NOT	ED 1		16-101		SK1	1
6			DETUDNED TO CANADA	CHILVEDT LIDON	DEQUECT @ CANA		CDT 2042

## PRECAST CONCRETE FOOTING GENERAL NOTES

- DESIGN IN GENERAL ACCORDANCE WITH CANADIAN HIGHWAY BRIDGE DESIGN CODE CAN/CSA-S6-14. 1. 2. CONCRETE MATERIALS AND CONSTRUCTION PRACTICES TO CONFORM TO CSA23.4-09 - PRECAST
- CONCRETE MATERIALS AND CONSTRUCTION.
- ALL CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES: З.
- MAXIMUM COURSE AGGREGATE SIZE OF 20 mm 3.1. MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 35 MPa 3.2.
- MINIMUM AIR ENTRAINMENT OF 5% 3.3.
- 4. ALL REINFORCING STEEL SHALL CONFORM TO CAN/CSA G30.18 GRADE 400.
- 5. REINFORCING STEEL SHALL HAVE MINIMUM COVER OF 55 mm UNLESS NOTED OTHERWISE.
- SLS SOIL BEARING CAPACITY OF 125 kPa WAS ASSUMED AND SHALL BE APPROVED BY OWNER'S 6. ENGINEER.

## CAST-IN-PLACE CONCRETE COLLAR GENERAL NOTES

- DESIGN IN GENERAL ACCORDANCE WITH CANADIAN HIGHWAY BRIDGE DESIGN CODE CAN/CSA-S6-14. 1
- CONCRETE MATERIALS AND CONSTRUCTION PRACTICES TO CONFORM TO CSA 23.1-09 / CSA 23.2 09 2.
- CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION.
- ALL CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES: З.
- 3.1. MAXIMUM COURSE AGGREGATE SIZE OF 20 mm
- 3.2. MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 35 MPa.
- 3.3. MINIMUM AIR ENTRAINMENT OF 5%.
- 4. ALL REINFORCING STEEL SHALL CONFORM TO CAN/CSA G30.18 GRADE 400



	CUST	OMER							
тм	PA	RKS CAN	ADA						
ulvert.com									
	PR0.	IECT NAME							
	DOLLY VARDEN DAY PASS EXHIBIT, BC								
	-								
	DRAWING TITLE								
	CONCRETE FOOTING AND COLLAR DETAILS NOTES								
E		TOTAL SHEETS	PROJECT NO.		DRAWING NO.		REV.		
AS NOT	ED	1		16-101		SK2	0		
RT. THIS	DRAV	/ING SHALL BE I	RETURNED TO CAN	ADA CULVERT UPON	REQUEST. © CAN	ADA CULV	'ERT 2013		





PIT RUN GRANULAR BACKFILL	m³	140						
25 kg RIPRAP	m³	45						
3" MINUS GRAVEL SURFACING	m³	5						
ITEM	UNIT	ESTIMATE	AS CONST					
QUANTITY ESTIMATE								

## NOTES

ALL WORK SHALL CONFORM TO THE 2012 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION ISSUED BY THE BRITISH COLUMBIA MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE

CONSULTANT							PARKS	CANAD	A
Roseke		43 33 20				FE UNDERPASS			
				REV/ISION	BY	GENERAL LAYOUT			UT
JOB No. 1082	_		DATE 2016-09-23	LOCATION	SITE	CONTRACT	HIGHWAY	SHEET 5 OF 5	DRAWING RE1082-1

- PIT RUN GRANULAR MATERIAL COMPACTED TO 95% OF STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT