

**PARSONS**



Rev	Description/Description	Date/Date
1	ISSUED FOR TENDER	11/11/2014
0	ISSUED FOR TENDER	07/10/2014

Projet titre/Titre du projet  
**TOFINO**  
**PACIFIC RIM NATIONAL PARK RESERVE**  
**ʔapsčlik ʔaslii**  
**"Ups-cheek ta-shée"**  
**"Going in the right direction on the trail"**

Consultant Signature Only  
Designed by/Conçu par  
DON CHALMERS / 2016-11  
Drawn by/Dessiné par  
DAVID COX / 2016-11  
PCA Project Manager/Responsable Authority  
Administrateur de Projets APC  
JACQUE HICKS

Drawing title/Titre de dessin  
**ʔapsčlik ʔaslii (Ups-cheek ta-shée)**  
**"Going in the right direction on the trail"**  
**TRAIL DESIGN**  
EXISTING CULVERTS, PROPOSED AMPHIBIAN CROSSINGS, PROPOSED BRIDGES AND ELEVATED TRAIL SECTIONS

Project No./No. de projet <b>PCA #1522</b>	Sheet/Feuille <b>D-1</b>	Revision no./Le Révision <b>2</b>
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Existing Culvert Schedule								
Culvert ID #	Roadway Station	Size (mm)	Type	Culvert Category	Culvert Extension Requirement	Culvert Extension Estimated Length (m)	Fish Bearing Watercourse Crossings	Applicable Standard Drawing
D1	H21+720	1000	CSP	A			X	
3A	H20+792	900	CSP	A				
3	H20+737	800	CSP	C	X	1.5	X	F-2, D-3, W-1
5	H19+843	1200	CSP	A				
5.0A	H19+575	800	CSP	A				
6	H19+407	1200	CSP	B			X	F-3, W-2
7	H18+851	800	CSP	A				
I-7A	H18+242	600	CSP	B				F-4
8	H18+221	1200	CSP	C	X	2	X	F-4, D-3
9	H18+072	800	CSP	A				
10	H17+828	800	CSP	C	X	4.5	X	F-6, D-3
I-10A	H17+800	800	CSP	A				
18	H17+053	1800	CSP	B			X	W-3
I-18A	H16+889	600	CSP	A				
I-18B	H16+735	800	CSP	A				
I-18C	H16+557	600	CSP	A				
19	H16+472	1200	CSP	B			X	W-4
20	H16+087	1300	HDPE	C	X	3	X	W-5
21	H15+890	1200	CSP	A				
22	H15+743	800	CSP	A				
24	H15+657	900	HDPE	A				
25	H15+553	900	CSP	A				
25A	H15+400	900	CSP	A				F-7
26	H15+260	2 x 600	CSP	A				
25B	H15+262	2 x 600	CSP	C	X	5		D-3, PL-3
27	H15+097	600	CSP	C	X	5		D-3
28A	H14+185	600	HDPE	A				
29	H13+864	450	CSP	A				
30	H13+550	750	CSP	A				
31	H13+211	800	CSP	A				
31A	H12+105	500	CSP	A				
32	H11+965	500	CSP	A				
62	H11+529	2 x 600	CSP	A				
61	H11+431	500	CSP	A				
60	H10+496	800	CSP	A				
59	H9+398	1800	CSP	B			X	
59A	H9+432	800	CSP	A				
58A	H9+110	500	CSP	C	X	5	X	D-3
58	H8+854	500	CSP	A				
57.1	H8+394	400	HDPE	B				F-9, W-8
57.2	H8+382	400	HDPE	B				F-9, W-8
57	H8+386	3000	CSP	B			X	F-9, W-8
56 (ABANDONED)	H7+830	900	CSP	-				
56A	H7+831	1200	HDPE	C	X	2	X	F-10
54	H6+829	750	CSP	A				
52	H6+700	800	CSP	A				
51	H6+131	500	CSP	A				
49	H4+855	5900 x 3700	SPCSP	B			X	F-12
48	W0+454	600	HDPE	A				
47	W0+535	450	HDPE	A				
46	W0+687	600	HDPE	A				
45	W0+921	450	HDPE	A				
44	W1+373	450	HDPE	A				
43	W1+845	700	CSP	A				
41	H3+304	1200	HDPE	A				F-13
41A	H3+181	900	CSP	A				F-14
40	H2+467	800	CSP	A				
39A	H1+744	1000	CSP	A				
77	H0+785	600	CSP	A				
78	H0+201	600	CSP	C	X	5		D-3, AC-1, W-15
79	H0+119	600	CSP	C	X	5		D-3, AC-1, W-15

Proposed Bridge Locations					
Sheet #	Bridge ID #	Station	Length (m)	Fish Bearing Watercourse Crossing	Applicable Standard Drawing
T-3	3	H19+874	20	X	Refer to Drawing S-3.1 to S-3.11 for Bridge and Foundation Details
T-22	19 ("Loch Shoe")	H1+490	30	X	Refer to Drawing S-4.1 to S-4.11 for Bridge and Foundation Details
T-26	20	W2+612	30	X	Refer to Drawing S-5.1 to S-5.11 for Bridge and Foundation Details

- NOTES:
- ALL STATIONING IS HIGHWAY (H) OR WCK ROAD (W) STATIONING UNLESS OTHERWISE NOTED
  - ALL CULVERTS TO BE 600mm DIA HOPE UNLESS OTHERWISE SHOWN IN ACCORDANCE WITH DRAWING D-5
  - AMPHIBIAN CROSSINGS TO BE 1800 X 1200 BOX CULVERTS IN ACCORDANCE WITH DRAWING D-4 UNLESS OTHERWISE SHOWN
  - BOX CULVERTS TO BE IN ACCORDANCE WITH DRAWING D-7
  - CULVERT EXTENSIONS TO BE IN ACCORDANCE WITH DRAWING D-3 AND/OR FISHERIES DRAWING F-1 TO F-15
  - FOR DETAIL OF 'IMPACTED AREA BELOW HIGH WATER MARK' AND 'CHANGE PROTECTION AREA' SEE DRAWING D.3
  - THE EXISTING CULVERT CATEGORIES IN THE TABLE ARE DEFINED BELOW:  
TYPE A: THE EXISTING CULVERT IS LOCATED MORE THAN 5m AWAY FROM THE TRAIL CORRIDOR AND NO EXTENSION IS REQUIRED  
TYPE B: THE TRAIL CROSSES THE EXISTING CULVERT, AND THE EXISTING CULVERT IS NOT IMPACTED OR EXTENDED  
TYPE C: THE TRAIL CROSSES THE CULVERT, AND THE EXISTING CULVERT IS EXTENDED AS SHOWN IN THE TABLE
  - APPROXIMATE HIGHWAY STATION FOR AMPHIBIAN CROSSINGS ARE PROVIDED. EXACT LOCATIONS SHALL BE AGREED ON SITE BETWEEN THE OWNER'S ENVIRONMENTAL MONITOR AND DEPARTMENTAL REPRESENTATIVE.

AMPHIBIAN CROSSING		
Amphibian Crossing ID	Highway Stationing	Applicable Standard Drawing
A001	H0+252	D-4
A002	H0+243	D-4
A003	H0+267	D-4
A004	H0+314	D-4
A005	H0+326	D-4
A006	H0+346	D-4
A007	H0+358	D-4
A008	H0+412	D-4
A009	H0+427	D-4
A010	H0+451	D-4
A011	H0+461	D-4
A012	H0+525	D-4
A013	H0+563	D-4
A014	H0+601	D-4
A015	H0+631	D-4
A016	H0+666	D-4
A017	H0+695	D-4
A018	H0+710	D-4
A019	H0+752	D-4
A020	H0+868	D-4
A021	H0+893	D-4
A022	H0+917	D-4
A023	H0+947	D-4
A024	H0+969	D-4
A025	H0+988	D-4
A026	H1+063	D-4
A027	H1+089	D-4
A028	H1+147	D-4
A029	H1+156	D-4
A030	H1+170	D-4
A031	H1+223	D-4
A032	H1+254	D-4
A033	H1+363	D-4
A034	H1+404	D-4
A035	H5+712	D-4
A036	H5+693	D-4
A037	H5+679	D-4
A038	H6+146	D-4
A039	H6+203	D-4
A040	H9+833	D-4
A041	H9+727	D-4
A042	H9+663	D-4
A043	H10+111	D-4
A044	H10+269	D-4
A045	H10+290	D-4
A046	H10+327	D-4
A047	H10+348	D-4
A048	H11+189	D-4
A049	H11+170	D-4
A050	H11+129	D-4
A051	H11+400	D-4
A052	H11+586	D-4
A053	H19+054	D-4
A054	H17+900	D-4
A055	H17+127	D-4
A056	H17+639	D-4
A057	H17+305	D-4
A058	H20+477	D-4
A059	H20+616	D-4
A060	H20+577	D-4

Elevated Trail Sections within Wetland Zones					
Sheet #	Starting Station	Ending Station	Section Length (m)	Notes	Applicable Standard Drawing
T-2	H20+090	H20+036	55	See Note on drawing T-2 for remediation instructions	S-2.1 - S-2.5
T-3	H19+716	H19+678	38		S-2.1 - S-2.5
T-4	H18+878	H18+848	30		S-2.1 - S-2.5
T-4	H18+719	H18+597	132		S-2.1 - S-2.5
T-10	H12+528	H12+493	35		S-2.1 - S-2.5
T-16	H6+679	H6+612	67		S-2.1 - S-2.5
		<b>Total</b>	<b>365</b>		S-2.1 - S-2.5

- CULVERTS AND BRIDGES NOTED AS FISH BEARING WATERCOURSE CROSSINGS ARE LOCATED ALONG FISH BEARING WATERCOURSES OR ARE CONNECTED BY SURFACE FLOW TO FISH BEARING (OR ASSUMED FISH BEARING) HABITAT. SPECIAL TIMING RESTRICTIONS AND MITIGATION MEASURES WILL APPLY AS PER 01 35 4.3 ENVIRONMENTAL PROCEDURES. MITIGATION MEASURES FOR FISH BEARING WATERCOURSE CROSSINGS ARE LISTED BELOW:
  - INSTREAM WORKS TO ONLY PROCEED FOLLOWING REVIEW BY DEPARTMENT OF FISHERIES AND OCEANS CANADA. REVIEW TO BE SECURED BY OTHERS
  - OWNER'S ENVIRONMENTAL MONITOR MUST BE PRESENT DURING ALL INSTREAM WORKS BY CONTRACTOR
  - 10 DAYS NOTICE TO BE PROVIDED TO DEPARTMENTAL REPRESENTATIVE TO ALLOW FOR SALVAGE AND RELOCATION OF FISH & AMPHIBIANS BY OWNER'S ENVIRONMENTAL MONITOR, AS NEEDED.
  - ALL WORK WITHIN THE HIGH WATER MARK TO BE COMPLETED DURING FISHERIES WINDOWS NOTED IN SECTION 01 35 4.3
  - INSTREAM WORKS TO BE APPROPRIATELY ISOLATED FROM STREAM FLOWS. WATER TO BE DIVERTED USING A METHOD APPROVED BY THE OWNER'S ENVIRONMENTAL MONITOR.



PARSONS



Proposed New HDPE Culvert Crossings						
Culvert ID #	HIGHWAY STATION	Size (mm)	Description	Fish Bearing Watercourse Crossing	Amphibian Modification	Applicable Standard Drawing
30000	H21+706	600				D-5
31050	H21+121	600	WATER PRESENT - FLOWS TO HWY			D-5
31100	H21+121	600	WATER PRESENT - FLOWS TO HWY			D-5
31300	H20+800	600	WATER PRESENT - FLOWS TO HWY		X	D-5
60100	H20+746	600	SEE DRAWING W-1 FOR CULVERT LENGTH			D-5, W-1
60200	H20+696	600	SEE DRAWING W-1 FOR CULVERT LENGTH			D-5, W-1
31500	H20+391	600	WATER PRESENT - FLOWS TO HWY			D-5
31600	H20+375	600	WATER PRESENT - FLOWS TO HWY			D-5
39100	H20+284	600				D-5
31900	H19+580	600	STANDING WATER			D-5
60300	H19+457	600	SEE DRAWING W-2 FOR CULVERT LENGTH			D-5, F-3, W-2
60350	H19+420	200	SEE DRAWING W-2 FOR CULVERT LENGTH			D-5, F-3, W-2
60400	H19+370	600	SEE DRAWING W-2 FOR CULVERT LENGTH			D-5, F-3, W-2
33500	H18+888	600	STANDING WATER			D-5
33300	H18+842	600	WATER PRESENT - FLOWS TO HWY			D-5
34500	H18+815	600	STANDING WATER			D-5
33200	H18+796	600	WATER PRESENT - FLOWS TO HWY			D-5
33100	H18+775	600				D-5
33000	H18+768	600				D-5
36400	H18+734	600				D-5
32500	H18+562	600	WATER BALANCE CULVERT			D-5
32300	H18+508	600	WATER PRESENT - FLOWS TO HWY			D-5
32200	H18+448	600	STANDING WATER			D-5
39200	H18+429	600				D-5
32100	H18+379	600	WATER PRESENT - FLOWS TO HWY			D-5
32000	H18+266	600	WATER PRESENT - FLOWS TO FISH BEARING STREAM AT TY-HISTANIS			D-5
60500	H18+191	600		X		D-5
60600	H17+990	600				D-5
60700	H17+833	600				D-5
36900	H17+691	600	WATER PRESENT - OLD DITCH FLOWS TO FOREST		X	D-5
37000	H17+629	600	DITCHES EITHER SIDE OF OLD ROAD - FLOWS TO HWY			D-5
37100	H17+555	600	STANDING WATER - BOGGY		X	D-5
39300	H17+430	600				D-5
37200	H17+283	600	WATER PRESENT - FLOWS TO HWY			D-5
60800	H17+067	600	SEE DRAWING W-3 FOR CULVERT LENGTH			D-5, W-3
60900	H17+043	600	SEE DRAWING W-3 FOR CULVERT LENGTH			D-5, W-3
60850	H17+040	200	SEE DRAWING W-3 FOR CULVERT LENGTH			D-5, W-3
37300	H17+012	600	STANDING WATER		X	D-5
60950	H16+898	600				D-5
60960	H16+867	600				D-5
61000	H16+707	900				D-5, HW-1
61100	H16+046	600				D-5
65000	H15+036	600		X		D-5
40100	H14+779	600				D-5
40400	H14+357	600				D-5
61300	H14+206	750				D-5
40500	H13+996	600				D-5
61500	H13+864	750				D-5
41000	H12+262	600				D-5
41100	H12+239	600				D-5
41200	H12+101	750				D-5
61800	H11+966	750		X		D-5
65500	H11+810	600				D-5
41600	H11+528	2 x 750		X		D-5
41700	H11+431	750				D-5
41900	H11+244	750				D-5
42000	H11+207	600				D-5
42100	H11+135	600				D-5
42200	H11+023	600				D-5
42300	H10+957	600				D-5
42400	H10+737	600				D-5
62100	H10+509	3 x 600		X		D-5, F-8
42500	H10+349	600				D-5
42600	H10+230	600		X		D-5
42700	H9+977	600				D-5
42800	H9+853	600				D-5
42900	H9+447	600				D-5
43000	H9+431	600				D-5
49000	H9+406	900				D-5
49001	H9+370	900				D-5
62300	H9+116	600				D-5
62400	H9+089	600				D-5
65600	H8+890	600				D-5
43200	H8+882	750	FLOWS SOUTH INTO TRIBUTARY TO SANDHILL CREEK	X		D-5
43300	H8+826	600				D-5
43400	H8+692	600				D-5

Proposed New HDPE Culvert Crossings						
Culvert ID #	HIGHWAY STATION	Size (mm)	Description	Fish Bearing Watercourse Crossing	Amphibian Modification	Applicable Standard Drawing
62500	H8+450	600	SEE DRAWING W-8 FOR CULVERT LENGTH			D-5, W-8
62600	H8+317	600	SEE DRAWING W-8 FOR CULVERT LENGTH			D-5, W-8
43500	H8+202	600	ADD 5 METERS TO STANDARD LENGTH FOR SKEWED PIPE ORIENTATION			D-5
43600	H8+063	600	ADD 5 METERS TO STANDARD LENGTH FOR SKEWED PIPE ORIENTATION		X	D-5
43700	H7+936	600				D-5
62700	H7+710	600	SEE DRAWING W-12 FOR CULVERT LENGTH			D-5, W-12
62750	H7+570	600	SEE DRAWING W-12 FOR CULVERT LENGTH			D-5, W-12
62800	H7+307	600				D-5
44000	H7+161	600				D-5
44200	H6+364	600	ADD 5 METERS TO STANDARD LENGTH FOR SKEWED PIPE ORIENTATION		X	D-5
44400	H6+040	750			X	D-5
44600	H5+779	600	ADD 5 METERS TO STANDARD LENGTH FOR SKEWED PIPE ORIENTATION		X	D-5
44800	H5+595	600			X	D-5
44900	H5+450	900	ADD 5 METERS TO STANDARD LENGTH FOR SKEWED PIPE ORIENTATION			D-5
45000	H5+388	600	ADD 5 METERS TO STANDARD LENGTH FOR SKEWED PIPE ORIENTATION			D-5
45200	H4+790	1200		X		D-5, F-11
45300	H4+774	600		X		D-5, F-11
62900	H4+680	450	SEE DRAWING W-9 FOR CULVERT LENGTH			D-5, W-9, F-12
63000	H4+646	200	SEE DRAWING W-9 FOR CULVERT LENGTH			D-5, W-9, F-12
63100	H6+614	600	SEE DRAWING W-9 FOR CULVERT LENGTH			D-5, W-9, F-12
45400	H4+495	750				D-5
45500	H4+010	600		X		D-5
45600	H3+761	600				D-5
45700	H3+737	600				D-5
63200	H3+272	600				D-5
46000	H2+784	600				D-5
46200	H2+237	750				D-5
46300	H2+012	900				D-5
47200	H1+602	600				D-5
46500	H1+156	600				D-5
46600	H0+845	600				D-5
46650	H0+798	750		X		D-5
55100	W2+708	600				D-5
55000	W2+704	600				D-5
54200	W2+363	600				D-5
54250	W2+546	900	SEE DRAWING W-11 FOR CULVERT LENGTH			D-5, W-11
54300	W1+847	900	FLOWS SOUTH AND CONNECTS TO SANDHILL CREEK TRIBUTARY	X		D-5
54400	W1+371	600	FLOWS SOUTH AND CONNECTS TO SANDHILL CREEK TRIBUTARY	X		D-5
54500	W0+919	2 x 600	BALANCING FLOWS BETWEEN BOG HABITAT, BUT EVENTUALLY CONNECTS TO SANDHILL CREEK IN HIGHWATER	X		D-5
54600	W0+682	750	FLOWS NORTH AND EVENTUALLY CONNECTS TO SANDHILL CREEK	X		D-5
54700	W0+534	600	FLOWS NORTH AND EVENTUALLY CONNECTS TO SANDHILL CREEK	X		D-5
54800	W0+453	750	FLOWS NORTH AND EVENTUALLY CONNECTS TO SANDHILL CREEK	X		D-5

Proposed Temporary Access HDPE Culvert Crossings				
Culvert ID #	HIGHWAY STATION	Sheet#	Size (mm)	
70000	H21+363	T-1	450	
70100	H20+758	T-2	450	
70200	H20+672	T-2	450	
70400	H19+977	T-2	450	
70500	H19+781	T-3	450	
70700	H19+137	T-3	450	
70800	H18+197	T-4	450	
70900	H17+639	T-5	450	
71000	H17+491	T-5	450	
71100	H17+138	T-5	450	
71200	H15+050	T-8	450	
71300	H14+491	T-8	450	
71400	H14+339	T-8	450	
71500	H14+220	T-8	450	
71600	H14+168	T-8	450	
71700	H13+855	T-9	450	
71800	H13+710	T-9	450	
71900	H13+693	T-9	450	
72000	H13+513	T-9	450	
72200	H12+590	T-10	450	
72300	H12+475	T-10	450	
72400	H12+020	T-11	450	
72600	H10+820	T-12	450	
72700	H10+548	T-12	450	
72800	H9+375	T-14	450	
72900	H9+125	T-14	450	
73000	H9+088	T-14	450	
73200	H8+606	T-14	450	
73300	H8+452	T-15	450	
73400	H7+850	T-15	450	
73500	H7+725	T-15	450	
73600	H7+600	T-15	450	
73700	H7+280	T-16	450	
73900	H6+660	T-16	450	
74000	H6+370	T-17	450	
74100	H6+154	T-17	450	
74300	H5+768	T-17	450	
74400	H5+450	T-18	450	
74500	H5+380	T-18	450	
74600	H5+217	T-18	450	
74700	H5+000	T-18	450	
74800	H4+587	T-19	450	
74900	H4+180	T-19	450	
75000	H3+289	T-20	450	
75100	H2+890	T-20	450	
75300	H2+100	T-21	450	
75500	H1+420	T-22	450	
75600	H1+100	T-22	450	
75800	H0+250	T-23	450	
75900	W1+899	T-25	450	
76000	W2-546	T-26	450	

Proposed Permanent Access HDPE Culvert Crossings				
Culvert ID #	HIGHWAY STATION	Sheet#	Size (mm)	
80000	H20+270	T-2	600	
80100	H19+488	T-3	600	
80200	H13+215	T-9	600	
80300	H11+650	T-11	600	
80400	H10+200	T-13	600	
80500	H6+820	T-16	600	
80600	H5+880	T-17	600	
80700	H2+100	T-21	600	
80800	H1+530	T-22	600	
80900	H0+670	T-23	600	
81000	W1+416	T-25	600	
81100	W1+672	T-25	600	

Proposed New Concrete Drainage Box Culverts						
Culvert ID #	Highway Station	Size (mm)	Description	Fish Bearing Watercourse Crossing	Amphibian Modification	Applicable Standard Drawing
30500	H21+530	1800x900x5m BOX	FLOWS NORTH AWAY FROM HWY	X		D-7
31000	H21+341	1800x900x5m BOX	FLOWS NORTH AWAY FROM HWY	X		D-7
31200	H21+084	1800x1200x5m BOX	POOLING WATER, FLOWS TOWARDS HWY AND INTO WATERCOURSE	X		D-7
31400	H20+779	1800x1200x5m BOX	FLOWS NORTH AWAY FROM HWY	X		D-7
36600	H18+068	1800x900x5m BOX	FLOWS SOUTH INTO FOREST, THEN BACK AROUND INTO WATERCOURSE	X		D-7, F-5
36800	H17+780	1800x1200x5m BOX	WATER PRESENT - FLOWS TO HWY		X	D-7
37400	H16+008	1800x1200x5m BOX	FLOWS SOUTH TO LONG BEACH	X		D-7
37500	H15+865	2400x1200x5m BOX	FLOWS SOUTH TO LONG BEACH	X		D-7
37600	H15+741	1800x1200x5m BOX	FLOWS SOUTH TO LONG BEACH	X		D-7
37700	H15+690	1800x1200x5m BOX	FLOWS SOUTH TO LONG BEACH	X		D-7
37800	H15+543	2400x1200x5m BOX	WATER PRESENT			D-7
65100	H15+399	1800x1200x5m BOX				D-7, F-7
65150	H15+392	1800x1200x5m BOX				D-7, F-7
40600	H13+766	2400x1200x5m BOX				D-7
40700	H13+557	2400x1200x5m BOX				D-7
44700	H5+702	1800 x 1200 x 5m BOX				D-7
45100	H5+144	1800 x 1200 x 5m BOX		X		D-7
43250	H3+304	2100 x 1200 x 5m BOX	TRIBUTARY TO SANDHILL CREEK, FLOWS WEST	X		D-7, F-13
45900	H3+177	2100 x 900 x 5m BOX	TRIBUTARY TO SANDHILL CREEK, FLOWS SOUTHWEST	X		D-7, F-14
46100	H2+454	1800 x 1200 x 5m BOX	EPHEMERAL FLOWS SOUTH INTO TRIBUTARY OF LOST SHO E CREEK	X		D-7
46400	H1+742	2100 x 900 x 5m BOX	FLOWS SOUTH, TRIBUTARY TO LOST SHOW CREEK	X		D-7, F-15

- NOTES:
1. ALL STATIONING IS HIGHWAY (H) OR WICK ROAD (W) STATIONING
  2. ALL CULVERTS TO BE 600mm DIA HDPE UNLESS OTHERWISE SHOWN IN ACCORDANCE WITH DRAWING D-5
  3. BOX CULVERTS TO BE IN ACCORDANCE WITH DRAWING D-7

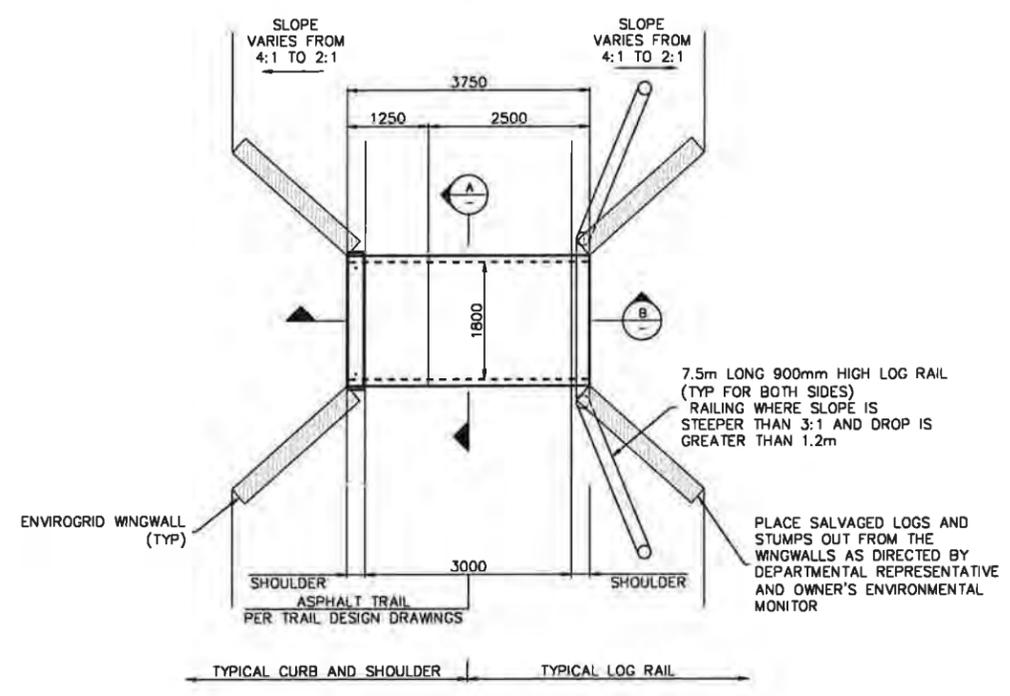


**PARSONS**

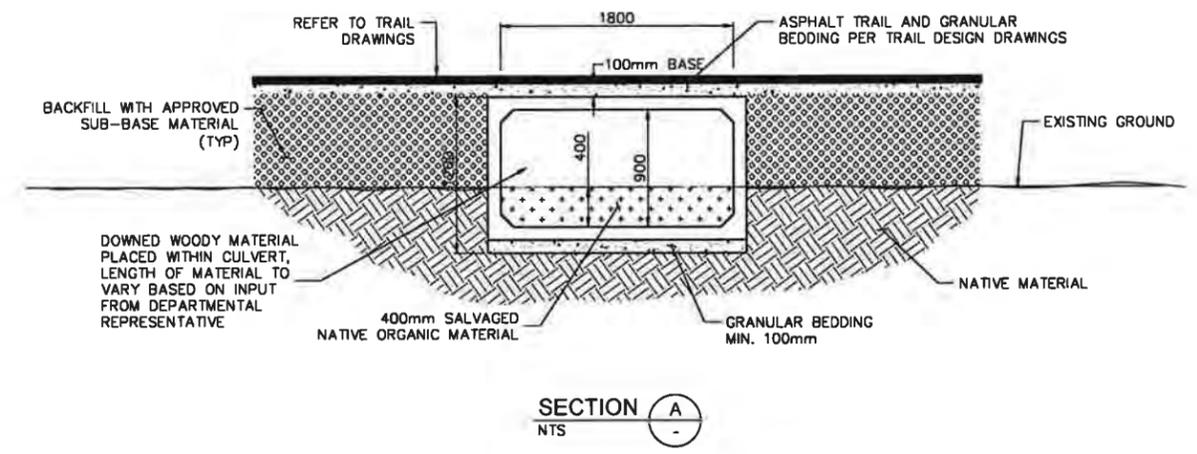


**NOTES:**

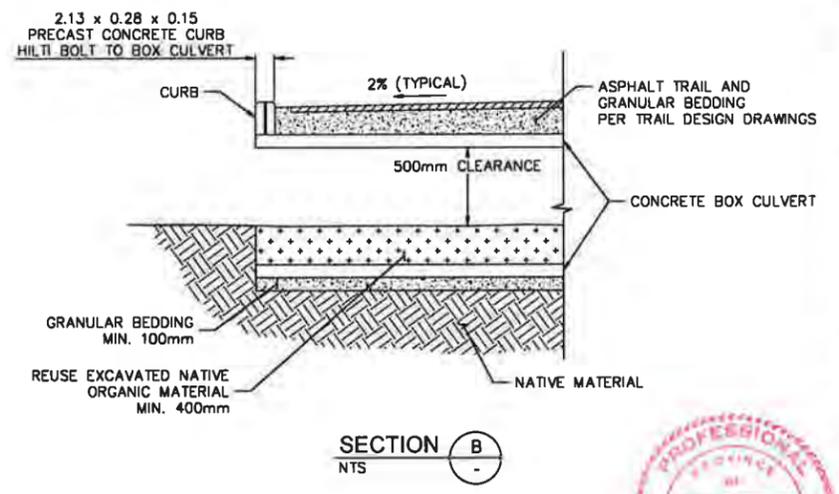
1. TRAIL DESIGN REFER TO DRAWINGS T-1 TO T-26
2. BOTTOM OF INSIDE CULVERT TO BE FILLED WITH UNCOMPACTED NATIVE MATERIAL AS PER SECTION-A.
3. FOR AMPHIBIAN CULVERT LOCATIONS, REFER TO DRAWINGS D-1 & D-2.



PLAN - TYPICAL AMPHIBIAN CROSSING  
NTS



SECTION A  
NTS



SECTION B  
NTS

**NOTES:**

1. SALVAGED NATIVE ORGANICS (PREFERABLY FROM THE AMPHIBIAN CROSSING SITE) SHALL BE USED TO FILL 400mm OF THE CULVERT.
2. CHANNEL GRADING SHALL BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
3. PROPOSED RAILING WHERE SLOPE IS GREATER THAN 3:1 AND DROP IS STEEPER THAN 1.2m

Revisión/Revisions	Description/Description	Date/Date
3	ISSUED FOR TENDER	8/12/2014
2	ISSUED FOR TENDER	8/11/2014
1	ISSUED FOR TENDER	8/11/2014
0	ISSUED FOR TENDER	7/16/2014

Parks Canada L'Agence Parcs  
Agency Canada  
Western and Northern Region Ouest et Nord du Canada

Projet Site/Titre du projet  
**TOFINO**  
**PACIFIC RIM NATIONAL PARK RESERVE**  
**?apsčik fasłi (Ups-cheek ta-shee)**  
**"Going in the right direction on the trail"**

Designed by/Conçepté par  
DON CHALMERS / 2016-11  
Drawn by/Dessiné par  
DAVID COX / 2016-11  
PCA Project Manager/Responsable du projet  
Administrateur de Projets APC  
JACKIE HICKS

Drawing Site/Titre du dessin  
**?apsčik fasłi (Ups-cheek ta-shee)**  
**"Going in the right direction on the trail"**  
**TRAIL DESIGN**  
**TYPICAL AMPHIBIAN CROSSINGS**

Project No./No. du projet  
PCA #1522  
Sheet/Feuille  
D-4  
of  
3



DRAWING NO. 2016-11-PACIFIC-NATIONAL-PARK-RESERVE-TOFINO-TRAIL-DESIGN-AMPHIBIAN-CROSSINGS-SECTION-A









