



## RETURN BIDS TO:

## RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government  
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Vancouver  
British Columbia  
V6Z 0B9  
Bid Fax: (604) 775-9381

## SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise  
indicated, all other terms and conditions of the Solicitation  
remain the same.

Ce document est par la présente révisé; sauf indication contraire,  
les modalités de l'invitation demeurent les mêmes.

### Comments - Commentaires

Vendor/Firm Name and Address  
Raison sociale et adresse du  
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution  
Public Works and Government Services Canada - Pacific  
Region  
800 Burrard Street, Room 219  
800, rue Burrard, pièce 219  
Vancouver  
British C  
V6Z 0B9

<b>Title - Sujet</b> Pavement Replacement & Misc Works	
<b>Solicitation No. - N° de l'invitation</b> EZ899-182830/A	<b>Amendment No. - N° modif.</b> 001
<b>Client Reference No. - N° de référence du client</b>	<b>Date</b> 2018-04-20
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWY-036-8320	
<b>File No. - N° de dossier</b> PWY-7-40388 (036)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2018-04-30</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Pacific Daylight Saving Time PDT
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Martin (PWY), Delia	<b>Buyer Id - Id de l'acheteur</b> pwy036
<b>Telephone No. - N° de téléphone</b> (778) 707-2139 ( )	<b>FAX No. - N° de FAX</b> (604) 775-6633
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> PWGSC - km 266.2 to km 315 - Alaska Highway, BC	

Instructions: See Herein

Instructions: Voir aux présentes

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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001

Buyer ID - Id de l'acheteur  
pwy036

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R.017173.344

File No. - N° du dossier  
PWY-7-40388

CCC No./N° CCC - FMS No/ N° VME

**Les documents français seront disponibles sur demande.**

**This Amendment #001 is raised to issue the following changes:**

- 1: Incorporate a revised APPENDIX 1 – COMBINED PRICE FORM  
2: Incorporate Addendum No. 001

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- 1: Previously issued APPENDIX 1 – COMBINED PRICE FORM is now replaced with APPENDIX 1 – COMBINED PRICE FORM (REVISED) dated 20 April 2018

The APPENDIX 1 – COMBINED PRICE FORM (REVISED) dated 20 April 2018 must be used when submitting your bid. Any bid submitted on a previous version of the APPENDIX 1 – COMBINED PRICE FORM will be considered non-compliant and therefore disqualified.

The following changes have been made to the APPENDIX 1 – COMBINED PRICE FORM (REVISED) dated 20 April 2018.

**ADD:**

- Additional information to Description of Work: Culvert Repairs - 900 mm, **Km 294.5** at Item No. 8f, Specification Reference 33 42 13
- Additional information to Description of Work: Culvert Repairs - 1200 mm, **Km 334.7** at Item No. 8g, Specification Reference 33 42 13
- Additional information to Description of Work: Riprap Culvert End Protection (**≤1200 mm Ø**) at Item No. 9, Specification Reference 33 42 13
- Additional information to Description of Work: Riprap Culvert End Protection (**≤1200 mm Ø**) at Item No. 35, Specification Reference 33 42 13 and Estimated Quantity – **11**

Please see the attached APPENDIX 1 – COMBINED PRICE FORM (REVISED) dated 20 April 2018.

- 2: Please see the attached Addendum No. 001

The addendum will form part of the contract documents.

**All other terms and conditions remain unchanged.**

**APPENDIX 1 - COMBINED PRICE FORM (REVISED) 20 APRIL 2018**

- 1) The prices per unit will govern in establishing the Total Extended Amount. Any arithmetical errors in this Appendix will be corrected by Canada.
- 2) Canada may reject the bid if any of the prices submitted do not reasonably reflect the cost of performing the part of the work to which that price applies.

**UNIT PRICE TABLE**

The Unit Price Table designates Work to which a Unit Price Arrangement applies.

- (a) Work included in each item is as described in the referenced specification section.
- (b) The Price per Unit shall not include any amounts for Work that is not included in that unit price Item.

Item No.	Specification Reference	Description of Work	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit GST extra (PU)	Extended Amount (EQ x PU) applicable tax(es) extra
1	01 25 20	Mobilization & Demobilization	L.S.	1		
2	01 35 00	Traffic Control	L.S.	1		
3	01 45 00	Quality Management	L.S.	1		
4	01 52 00	Departmental Representative's Office Trailer	L.S.	1		
5	31 11 00	Clearing and Grubbing	m <sup>2</sup>	500		
6	31 24 14	Topsoil	m <sup>2</sup>	1,570		
7	32 93 21	Hydraulic Seeding	L.S.	1		
8		Culverts				
.a	33 42 13	Culvert Replacement / Install - 600 mm	m	63.7		
.b	33 42 13	Culvert Replacement - 900 mm	m	45.2		
.c	33 42 13	Culvert Replacement - 1000 mm	m	70.2		
.d	33 42 13	Ditch and Slope Reestablishment Culverts - 600 mm	m	214.0		
.e	33 42 13	Polk A Dot Creek Culvert Replacement	L.S.	1		
.f	33 42 13	Culvert Repairs - 900 mm, <u>Km 294.5</u>	L.S.	1		
.g	33 42 13	Culvert Repairs - 1200 mm, <u>Km 334.7</u>	L.S.	1		
9	33 42 13	Riprap Culvert End Protection (≤1200 mm Ø)	each	16		
10	33 42 13	Polk A Dot Creek Culvert End Protection	L.S.	1		
11	33 42 13	Culvert Ditch Block	each	1		
12	31 24 14	Excavation	m <sup>3</sup>	9,655		

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13	31 24 14	Embankment	m <sup>3</sup>	125		
14	32 11 19	Sub-base Course	m <sup>3</sup>	1,440		
15	32 11 24	Crushed Base Gravel	m <sup>3</sup>	2,170		
16	32 11 34	Full Depth Reclamation	m <sup>2</sup>	445,200		
17	31 22 16.13	Roadway Reshaping (Gravel Rest Stops)	m <sup>2</sup>	9,490		
18	32 01 16.13	Milling	m <sup>2</sup>	630		
19	32 12 13.23	Asphalt Prime	m <sup>2</sup>	418,900		
20	32 12 13.16	Asphalt Tack Coat	m <sup>2</sup>	419,900		
21	32 12 10	Asphalt Cement (Supply)	t	6,950		
22	32 12 16	Hot Mix Asphalt Concrete Pavement	t	118,680		
23	31 14 11	Gravel Shouldering	L.M.	72,720		
24	32 12 20	Rumble Strips	Km	71.5		
25		Pavement Markings				
.a	32 17 23	Solid and Dashed Yellow Line	Km	35.7		
.b	32 17 23	Solid Single White Line	Km	71.5		
26	34 71 13.01	Remove and Reinstall Existing Concrete Barrier	each	92		
27	34 71 13.01	Precast Concrete Median Drainage Barrier - 810 mm	each	2		
28	34 71 13.01	Disposal Existing Precast Concrete Barrier	each	10		
29	34 71 13.01	Riprap Spillway	each	2		
<b>TOTAL EXTENDED AMOUNT (TEA)</b>						
Excluding applicable tax(es)						

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CCC No./N° CCC - FMS No/ N° VME

## OPTIONAL WORK

Items 30-46 shown are an optional addition to this tender package. All bids must include the aforementioned lines. Any bid without the inclusion of these line will be considered non-compliant and therefore disqualified.

The Contractor grants to Canada the irrevocable option to acquire the Work identified below, and as described in the Specifications and Drawings, under the same conditions and at the prices and/or rates stated. The Contracting Authority may exercise the option before the expiry of the Contract by sending a written notice to the Contractor.

Item No.	Specification Reference	Description of Work	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit GST extra (PU)	Extended Amount (EQ x PU) tax(es) extra
30	01 25 20	Mobilization & Demobilization (Optional Work)	L.S.	1		
31	01 35 00	Traffic Control (Optional Work)	L.S.	1		
32	01 45 00	Quality Management (Optional Work)	L.S.	1		
33	01 52 00	Departmental Representative's Office Trailer (Optional Work)	L.S.	1		
34		Culverts				
.a	33 42 13	Culvert Replacement - 800 mm	m	94.0		
.b	33 42 13	Culvert Repairs - 800 mm, Km 309.4	L.S.	1		
.c	33 42 13	Culvert Repairs - 800 mm, Km 311.7	L.S.	1		
.d	33 42 13	Culvert Repairs - 1000 mm, Km 308.2	L.S.	1		
.e	33 42 13	Culvert Repairs - 1000 mm, Km 309.2	L.S.	1		
35	33 42 13	Riprap Culvert End Protection ( $\leq 1200$ mm $\varnothing$ )	each	11		
36	32 11 34	Full Depth Reclamation	m <sup>2</sup>	162,000		
37	32 12 13.23	Asphalt Prime	m <sup>2</sup>	148,900		
38	32 12 13.16	Asphalt Tack Coat	m <sup>2</sup>	148,900		
39	32 12 10	Asphalt Cement (Supply)	t	2,510		
40	32 12 16	Hot Mix Asphalt Concrete Pavement	t	42,810		
41	31 14 11	Gravel Shouldering	L.M.	26,120		
42	32 12 20	Rumble Strips	Km	26.2		
43		Pavement Markings				
.a	32 17 23	Solid and Dashed Yellow Line	Km	13.1		
.b	32 17 23	Solid Single White Line	Km	26.2		
44	31 24 14	Excavation	m <sup>3</sup>	10,000		
45	32 11 19	Sub-base Course	m <sup>3</sup>	5,000		
46	32 11 24	Crushed Base Gravel	m <sup>3</sup>	5,000		
<b>TOTAL EXTENDED AMOUNT (OPTIONAL)</b> Excluding applicable tax(es)						
<b>TOTAL BID AMOUNT (TEA + OPTIONAL)</b> Excluding applicable tax(es)						

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**The following changes in the tender documents are effective immediately. This addendum will form part of the Contract documents.**

**Changes to the Specifications**

1. Section – Table of Contents

**Delete:**

**Appendices**

- H PWGSC Environmental Effects Evaluation (EEE) Report  
*Note: To be provided via amendment during the tendering process*
- I British Columbia Ministry of Forests, Lands, and Natural Resource Operations (FLNRO) Section 11 Approval for Instream Work, By TBD – Date TBD.  
*Note: To be provided via amendment during the tendering process*

**Insert:**

**Appendices**

- H Polk-A-Dot Creek Culvert Replacement and Channel Realignment Fish Habitat Assessment and Effects Analysis, Tetra Tech, March 12, 2018
- I Culvert Construction Staging & Traffic Detour Drawings, Tetra Tech, April 17, 2018

2. Section 01 11 10 – Summary of Work

**Delete:**

- 2.2.2 Achieve Substantial Performance by August 24, 2018.
- 2.2.3 Achieve Completion by August 31, 2018.

**Insert:**

- 2.2.2 Achieve Substantial Performance by September 23, 2018.
- 2.2.3 Achieve Completion by September 30, 2018.

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**Delete:**

- 2.7.1.9 Construction Staging Drawings (management of traffic during culvert replacement, only required if Open Cut Method of culvert installation is chosen as per Section 33 42 13) (see Section 01 14 00).

**Insert:**

- 2.7.1.9 Construction Staging Drawings (management of traffic during culvert replacement, only required if Open Cut Method of culvert installation is chosen as per Section 33 42 13 and if the approach to staging the work varies from Culvert Construction Staging & Traffic Detour drawings found in Appendix I of the specifications) (see Section 01 14 00).

3. Section 01 14 00 – Work Restrictions, Access Development, Construction Staging, and Restoration

**Delete:**

- 1.8.1.3 The work is completed in accordance with the Contractor prepared, submitted for review, and accepted construction staging drawings as outlined in Item 1.8 – Construction Staging, Subsection .2 of Contract Specification Section 01 14 00 – Work Restrictions, Access Development, Construction Staging, and Restoration (if using open cut method for culvert replacement).

**Insert:**

- 1.8.1.3 The work is completed in accordance with the Culvert Construction Staging & Traffic Detour drawings found in Appendix I of the specifications or the per the Contractor prepared, submitted for review, and accepted construction staging drawings as outlined in Item 1.8 – Construction Staging, Subsection .2 of Contract Specification Section 01 14 00 – Work Restrictions, Access Development, Construction Staging, and Restoration (if using open cut method for culvert replacement).

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**Delete:**

- 1.8.2 Should the Contractor choose to install the culvert using the Open Cut Method (see Section 33 42 13 – Pipe Culverts), the following shall be submitted (not required for the Trenchless Method):

**Insert:**

- 1.8.2 Should the contract specification or the Contractor choose to install the culvert using the Open Cut Method (see Section 33 42 13 – Pipe Culverts) and use a construction staging and detour approach different from what is shown on the Culvert Construction Staging & Traffic Detour drawings found in Appendix I of the specifications the following shall be submitted (not required for the Trenchless Method):

**Delete:**

- 1.8.3.2 All instream works for the replacement of Km 277.40 (Polk A Dot Creek) Culvert and repairs to Km 334.7 Culvert are completed during the fish work window July 15 – August 31.

**Insert:**

- 1.8.3.2 All instream works for the replacement of Km 277.40 (Polk A Dot Creek) Culvert and repairs to Km 334.7 Culvert are completed from August 1 – September 21, 2018. Culvert installation work adjacent to but not in Polk A Dot Creek (i.e. work in the dry which does not impact Polk A Dot Creek) may occur from July 15 – August 31, 2018.

4. Section 01 35 43 – Environmental Protection

**Delete / Insert:**

Delete all references to “PWGSC Environmental Effects Evaluation (EEE)” and replace with “Polk-A-Dot Creek Culvert Replacement and Channel Realignment Fish Habitat Assessment and Effects Analysis”.

**Delete:**

- 1.2.7 British Columbia Ministry of Forests, Lands, and Natural Resource Operations (FLNRO) Section 11 Approval for Instream Work (Appendix I).



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**Insert:**

- 1.2.7 Polk-A-Dot Creek Culvert Replacement and Channel Realignment Fish Habitat Assessment and Effects Analysis, (Appendix H).

**Insert:**

- 1.3.7 The Contractor is required to apply for and obtain a fish salvage permit from applicable regulatory authorities for use on the project as needed.

**Delete:**

- 1.6.1 The Contractor is required to complete a Breeding Bird and Bird Nest Survey prior to the completion of clearing and grubbing at Km 271.1. The results of the Breeding Bird and Bird Nest Survey shall be compiled in a memo. The Breeding Bird and Bird Nest Survey and memo shall achieve the following:

**Insert:**

- 1.6.1 The Contractor is required to complete a Breeding Bird and Bird Nest Survey prior to the completion of clearing and grubbing at Km 271.1 if the clearing and grubbing is completed within the regional nesting window of April 25 to August 20. The results of the Breeding Bird and Bird Nest Survey shall be compiled in a memo. The Breeding Bird and Bird Nest Survey and memo shall achieve the following:

**Delete:**

- 1.9.1 Execution of the work is subject to the provisions within the Environmental Effects Evaluation (EEE) completed by a PWGSC Environmental Services Representative for the project (Appendix H).
- 1.9.2 Pursuant to the expectations of the EEE, EPPs are the next step to achieve the desired results of minimal adverse environmental effect, as the project is constructed.
- 1.9.3 Failure to comply with or observe environmental protection measures as identified in these specifications may result in the work being suspended pending rectification of the problems.

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**Insert:**

- 1.9.1 Execution of the work is subject to the provisions and requirements within the Polk-A-Dot Creek Culvert Replacement and Channel Realignment Fish Habitat Assessment and Effects Analysis (Appendix H).
- ~~1.9.2 Pursuant to the expectations of the EEE, EPPs are the next step to achieve the desired results of minimal adverse environmental effect, as the project is constructed.~~
- 1.9.2 Failure to comply with or observe environmental protection measures as identified in these specifications may result in the work being suspended pending rectification of the problems.

**Delete:**

- 3.6.6 Oil changes, lubricant changes, greasing and machinery repairs shall be performed at location satisfactory to the Departmental Representative. Waste lubrication product (e.g. oil filters, used containers, used oil, etc.) shall be secured in spill-proof containers and properly recycled or disposed of at an approved facility. No waste petroleum, lubricant products, or related materials are to be discarded, buried or disposed of in borrow pits, turnouts, picnic areas, viewpoints, etc. or anywhere within the work area.

**Insert:**

- 3.6.6 Oil changes, lubricant changes, greasing and machinery repairs shall be performed at a location satisfactory to the Departmental Representative. Waste lubrication product (e.g. oil filters, used containers, used oil, etc.) shall be secured in spill-proof containers and properly recycled or disposed of at an approved facility. No waste petroleum, lubricant products, or related materials are to be discarded, buried or disposed of in borrow pits, turnouts, picnic areas, viewpoints, etc. or anywhere within the work area. Equipment servicing with environmentally sensitive hydraulic fluids is recommended, particularly for machinery used within Polk-A-Dot Creek where hydraulic fluids should be biodegradable in case of accidental loss.

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5. Section 31 05 16 – Aggregates: General

**Insert:**

2.8      Natural Substrate

- .1      Natural Substrate shall be a 150 mm minus material comprised of rounded aggregates produced from sorting, screening, and or blending of materials. The materials shall have a generally uniform gradation conforming to the following gradation limits:

Table 31 05 16 – 04: Natural Substrate	
Sieve Designation	Percent Passing By Weight
<u>150.0</u>	<u>100</u>
<u>75.0</u>	<u>50 – 80</u>
<u>50.0</u>	<u>30 – 65</u>
<u>25.0</u>	<u>20 – 50</u>
<u>9.5</u>	<u>0 – 5</u>

6. Section 32 93 21 – Hydraulic Seeding

**Delete:**

- 2.1.1.1 Grass Mixture: “Certified”, Canada No. 1 seed for common cultivars in accordance with Government of Canada Seeds Act and Regulations and shall conform to the following:

Table 32 93 21 – 01: Grass Seed Mix	
% By Weight	Species
30%	Creeping Red Fescue
20%	Slender Wheatgrass
10%	Alsike Clover
10%	Timothy
10%	Canada Bluegrass
15%	Smooth Brome Grass
5%	Sheep Fescue

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2018-04-20

**Insert:**

- 2.1.1.1 Grass Mixture: “Certified”, Canada No. 1 seed for common cultivars in accordance with Government of Canada Seeds Act and Regulations and shall conform to the following seed mixes for the applicable project locations:

Table 32 93 21 – 01: Grass Seed Mix (All Project Areas – Excluding Polk A Dot Creek Area)	
% By Weight	Species
30%	Creeping Red Fescue
20%	Slender Wheatgrass
10%	Alsike Clover
10%	Timothy
10%	Canada Bluegrass
15%	Smooth Brome Grass
5%	Sheep Fescue

Table 32 93 21 – 02: Grass Seed Mix (All Disturbed Areas Around Polk A Dot Creek Culvert)	
% By Weight	Species
<u>25%</u>	<u>American Vetch</u>
<u>25%</u>	<u>Common Yarrow</u>
<u>25%</u>	<u>Hair Ticklegrass</u>
<u>25%</u>	<u>Tufted Hairgrass</u>

**Insert:**

7. Section 33 42 13 – Pipe Culverts

**Delete:**

- 1.2.5 Payment for the supply and install of Polk A Dot Creek replacement culvert will be made on the basis of the Price per Unit Bid for Polk A Dot Creek Culvert Replacement in the Bid and Acceptance Form. The Price per Unit Bid shall include all costs included with the excavation, dewatering (as required), removal, and disposal of the existing culvert and the supply, transport, install of culvert bedding material (75 mm Clear Crush Culvert Bedding Material and Crushed Base Gravel), bentonite, and all other items (couplings, fittings, and hardware) for the Aluminized CSP Culvert and all other items necessary for the successful completion of the work.

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**Insert:**

- 1.2.5 Payment for the supply and install of Polk A Dot Creek replacement culvert will be made on the basis of the Price per Unit Bid for Polk A Dot Creek Culvert Replacement in the Bid and Acceptance Form. The Price per Unit Bid shall include all costs included with the excavation, dewatering (as required), removal, and disposal of the existing culvert and the supply, transport, install of culvert bedding material (75 mm Clear Crush Culvert Bedding Material and Crushed Base Gravel), bentonite, natural substrate material, and all other items (couplings, fittings, and hardware) for the Aluminized CSP Culvert and all other items necessary for the successful completion of the work.

**Delete:**

- 1.2.7 Payment for the completion of culvert repairs will be made on the basis of the Price per Unit Bid for Culvert Repairs (Varying Sizes) in the Bid and Acceptance Form. The Price per Unit Bid shall include all costs included with the excavation, dewatering (as required), removal, and disposal of the existing culvert segment, and the supply, transport, install of a new culvert segment and culvert bedding material and all other items (couplings, fittings, and hardware) required to repair the culvert and all other items necessary for the successful completion of the work. The replacement of BST removed during repairs to Km 334.7 culvert will be by others at the completion of the work.

**Insert:**

- 1.2.7 Payment for the completion of culvert repairs will be made on the basis of the Price per Unit Bid for Culvert Repairs (Varying Sizes) in the Bid and Acceptance Form. The Price per Unit Bid shall include all costs included with the excavation, dewatering (as required), removal, and disposal of the existing culvert segment, and the supply, transport, install of a new culvert segment and culvert bedding material and all other items (couplings, fittings, and hardware) required to repair the culvert and all other items necessary for the successful completion of the work. At applicable culvert locations the price shall further include the costs of stripping, embankment fill, and topsoil to correct the grading issues at the culvert location as shown on the Contract Drawings. The replacement of BST removed during repairs to Km 334.7 culvert will be by others at the completion of the work. Payment for culvert inlet and outlet protection completed on culverts requiring repairs will be paid separately as Riprap Culvert End Protection (≤1200 mm Ø) on the unit price table.

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**Delete:**

- 1.2.10 Measurement for Payment for completion of the Riprap Culvert End Protection ( $\leq 1200$  mm  $\varnothing$ ) will be made by the count of culvert inlet and outlet protection installations installed and accepted by the Departmental Representative. Each culvert end will be counted as an inlet or outlet protection installed.

**Insert:**

- 1.2.10 Measurement for Payment for completion of the Riprap Culvert End Protection ( $\leq 1200$  mm  $\varnothing$ ) will be made by the count of culvert inlet and outlet protection installations installed and accepted by the Departmental Representative. Each culvert end will be counted as an inlet or outlet protection installed. The count of Riprap Culvert End Protection ( $\leq 1200$  mm  $\varnothing$ ) will include culvert inlet and outlet protection completed on culverts requiring repairs.

**Delete:**

- 1.2.11 Payment for install of Polk A Dot Creek culvert inlet and outlet protection will be made on the basis of the Price per Unit Bid for Polk A Dot Creek Culvert End Protection in the Bid and Acceptance Form. The price per Unit Bid shall include all costs for excavating and disposal of the native materials in preparation for the riprap, supply, transport, and placement of the riprap, the supply and placement of the nonwoven geotextile, and all other items necessary for successful completion of the work.

**Insert:**

- 1.2.11 Payment for install of Polk A Dot Creek culvert inlet and outlet protection will be made on the basis of the Price per Unit Bid for Polk A Dot Creek Culvert End Protection in the Bid and Acceptance Form. The price per Unit Bid shall include all costs for excavating, temporary stockpile (as necessary), and disposal of the native materials in preparation for the channel and ditch realignment, supply, transport, and placement of the riprap (channel and ditch), the supply and placement of the nonwoven geotextile (channel and ditch), the supply and install of willow staking, backfill of the existing channel, and all other items necessary for successful completion of the work.

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**Delete:**

- 1.6.1 Complete culvert installation and related works in conformance with the requirements of Section 01 35 43 – Environmental Protection, the Contractor's accepted Environmental Protection Plan (EPP), and FLNRO Section 11 Approval for Instream Work (Appendix I).

**Insert:**

- 1.6.1 Complete culvert installation and related works in conformance with the requirements of Section 01 35 43 – Environmental Protection, the Contractor's accepted Environmental Protection Plan (EPP), and Polk-A-Dot Creek Culvert Replacement and Channel Realignment Fish Habitat Assessment and Effects Analysis, (Appendix H).

**Insert:**

- 2.1a.1.1.6 Come complete with fish baffles to the size and spacing shown on the Contract Drawings.

**Delete:**

- 2.3a Culvert Bedding material shall be Crushed Base Gravel and 75 mm Clear Crush Culvert Bedding Material in accordance with Section 31 05 16 – Aggregate General.

**Insert:**

- 2.3a Culvert Bedding material shall be Crushed Base Gravel and when specified on Contract Drawings, 75 mm Clear Crush Culvert Bedding Material in accordance with Section 31 05 16 – Aggregate General.

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**Delete:**

2.8a Steel Pipe Culverts

- .1 Provide steel pipe culverts of required 600 mm diameter, minimum 12 mm wall thickness, and length as shown on the Contract Drawings for Ditch and Slope Reestablishment Culverts. Substitution of pipe with larger diameter or thicker wall thickness to suit equipment availability or ground conditions shall be pre-approved by the Departmental Representative. The substitution of pipe with smaller diameter or thinner wall thickness will not be permitted.
- .2 Steel pipe culverts shall be seamless or welded pipe conforming with the requirements of ASTM A252 with a minimum yield strength of 310 MPa.
- .3 Steel pipe culverts shall be delivered to the site in uniform lengths.
- .4 The Contractor shall be responsible for selection of appropriate pipe, pipe joints, and pipe wall thickness to carry the thrust of any trenchless installation forces or any other construction loads in combination with overburden, earth and hydrostatic loads. The trenchless installation equipment shall not unduly damage or distort the ends of the steel pipe culverts during the installation process.

**Insert:**

2.8a Willow Stakes

- .1 Willow stakes should be sourced from native willow trees and shrubs in the surrounding area (on crown land), within 150 m elevation of the site and similar aspect. Cuttings should be taken from un-split ends near the middle or bottom of the parent plan, be sufficient length for requirements shown on Contract Drawings, have a diameter of at least 10 mm – 20 mm, have a minimum of two healthy buds and preferably be straight. They should be kept in water from the time they are cut until they are planted.

**Insert:**

- 2.1b.5 The steel pipe culvert shall come complete with fish baffles to the size and spacing shown on the Contract Drawings.



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**Delete:**

- 3.1a.2 Temporally stockpile excavated material for later reuse as Backfill Material provided the material excavated achieves the criteria for Backfill Material. Should the excavated material not achieve the properties of Backfill Material, notify the Departmental Representative and await further instruction.

**Insert:**

- 3.1a.2 Temporarily stockpile excavated material for later disposal or reuse as Embankment, Backfill Material, or topsoil, provided the material excavated achieves the criteria for Embankment and topsoil ~~Backfill Material~~. ~~Should the excavated material not achieve the properties of Embankment Backfill Material, notify the Departmental Representative and await further instruction.~~

**Insert:**

- 3.3a.5 Install Natural Substrate in the bottom of the culvert to the depths and locations shown on the Contract Drawings.

**Delete:**

- 3.5a.5 Dispose of unused excavated material (Embankment material) to a location approved by the Departmental Representative within 500 m of the culvert within the highway right-of-way.

**Insert:**

- 3.5a.5 Dispose of unused excavated material (Embankment material) or material not meeting the properties of embankment to a location approved by the Departmental Representative. ~~within 500 m of the culvert within the highway right of way.~~

**Delete:**

- 3.7a.1 Prior to or during installation of the culverts, excavate ground to the lines and grades shown on the Contract Drawings to facilitate the installation of the Inlet and Outlet Riprap Protection. Ensure excavation will allow for positive drainage upon placement of riprap.
- 3.7a.2 Re-use excavated material as Embankment (if suitable and needed) or dispose of material offsite at a location pre-approved by the Departmental Representative.

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- 3.7a.3 Install 50 Kg Class Riprap and Nonwoven Geotextile to the lines and grades shown on the Contract Drawings and to the requirements. Ensure positive drainage following riprap placement.

**Insert:**

- 3.7a.1 ~~Prior to or during installation of the culverts,~~ Excavate ground to the lines and grades shown on the Contract Drawings to facilitate the installation of the Inlet and Outlet Riprap Protection (includes channel realignment and ditching at Polk A Dot Creek). Ensure excavation will allow for positive drainage upon placement of riprap.
- 3.7a.2 Temporarily stockpile ~~Re-use~~ excavated material for reuse as Embankment or backfill material (if suitable and needed) or dispose of material offsite at a location pre-approved by the Departmental Representative.
- 3.7a.3 Install 50 Kg Class Riprap, 10 Kg Class Riprap (Polk A Dot Creek Ditching), and Nonwoven Geotextile to the lines and grades shown on the Contract Drawings. Ensure positive drainage following riprap placement. Install Willow Stakes on the channel side slopes at Polk A Dot Creek (within and outside riprap areas). Install one Willow Stake every 1 m<sup>2</sup> to the depths and heights indicated on the Contract Drawings with the thick end buried into the ground and a minimum of one healthy bud located above the top of the riprap/ground and one healthy bud located below the top of the riprap/ground.

**Insert:**

- 3.7a.5 Place Backfill Material (excavated material temporarily stockpiled) in abandoned Polk A Dot Creek channel. Place Backfill Material to the design lines and grades shown on the Contract Drawings in 300 mm lifts and compacted to 95% of the standard maximum dry density in accordance with ASTM D698.

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**Changes to the Contract Drawings**

**Delete:**

Drawing C108 – Plan / Profile Sta. 270+220 to Sta. 270+880 – Rev 0 – Issued for Tender  
– Dated 18/01/29

Drawing C119 – Plan / Profile Sta. 277+480 to Sta. 278+140 – Rev 0 – Issued for Tender  
– Dated 18/01/29

Drawing C166 – Plan / Profile Sta. 308+500 to Sta. 309+160 – Rev 0 – Issued for Tender  
– Dated 18/01/29

Drawing C203 – Asphalt Pavement Tie-in Details – Rev 0 – Issued for Tender – Dated  
18/01/29

Drawing C311 – Km 233 Rest Stop Plan & Typical Sections – Rev 0 – Issued for Tender  
– Dated 18/01/29

Drawing C351 – Km 277 Polk A Dot Creek Culvert Plan – Rev 0 – Issued for Tender –  
Dated 18/01/29

Drawing C381 – Km 294.5 Culvert Details Plan – Rev 0 – Issued for Tender – Dated  
18/01/29

Drawing C391 – Km 308.2 Culvert Details Plan – Rev 0 – Issued for Tender – Dated  
18/01/29

Drawing C401 – Km 309.2 Culvert Details Plan – Rev 0 – Issued for Tender – Dated  
18/01/29

Drawing C411 – Km 309.4 Culvert Details Plan – Rev 0 – Issued for Tender – Dated  
18/01/29

Drawing C421 – Km 311.7 Culvert Details Plan – Rev 0 – Issued for Tender – Dated  
18/01/29

Drawing C431 – Km 334.7 Culvert Details Plan – Rev 0 – Issued for Tender – Dated  
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**Insert:**

Drawing C108 – Plan / Profile Sta. 270+220 to Sta. 270+880 – Rev 1 – Addendum No. 001 – Dated 18/04/18

Drawing C119 – Plan / Profile Sta. 277+480 to Sta. 278+140 – Rev 1 – Addendum No. 001 – Dated 18/04/18

Drawing C166 – Plan / Profile Sta. 308+500 to Sta. 309+160 – Rev 1 – Addendum No. 001 – Dated 18/04/18

Drawing C203 – Asphalt Pavement Tie-in Details – Rev 1 – Addendum No. 001 – Dated 18/04/18

Drawing C311 – Km 233 Rest Stop Plan & Typical Sections – Rev 1 – Addendum No. 001 – Dated 18/04/18

Drawing C351 – C353 – Km 277 Polk A Dot Creek Culvert Plan & Profile, Details, Typical Sections – Rev 1 – Addendum No. 001 – Dated 18/04/18

Drawing C381 – Km 294.5 Culvert Details Plan – Rev 1 – Addendum No. 001 – Dated 18/04/18

Drawing C391 – Km 308.2 Culvert Details Plan – Rev 1 – Addendum No. 001 – Dated 18/04/18

Drawing C401 – Km 309.2 Culvert Details Plan – Rev 1 – Addendum No. 001 – Dated 18/04/18

Drawing C411 – Km 309.4 Culvert Details Plan – Rev 1 – Addendum No. 001 – Dated 18/04/18

Drawing C421 – Km 311.7 Culvert Details Plan – Rev 1 – Addendum No. 001 – Dated 18/04/18

Drawing C431 – Km 334.7 Culvert Details Plan – Rev 1 – Addendum No. 001 – Dated 18/04/18

**All other terms and conditions remain unchanged.**