USE IN TENDERS MEETING THE SPECIFIED DESIGN CRITERIA FOR PROJECTS WHERE ENVIRONMENTALLY FRIENDLY PROCESSES ARE INCLUDED DESIGN FEATURES OR WHERE THEY MAY BE UTILIZED BY THE CONTRACTOR AT HIS DISCRETION.

VERSION FOR INCLUDED GREEN DESIGN FEATURES

– “GREEN PROJECT” PROJECT IDENTIFICATION SIGNS

1.1.1 General

The Contractor is advised that work under this Contract includes environmentally friendly “Green” construction activities; and he shall supply and install “Green Project” project identification signs identifying these activities.

The supply and installation of “Green Project” project identification signs shall be in accordance with the following Provisions, and as directed by the Consultant.

1.1.2 “Green” Construction Activities

“Green Project” project identification signs for this Contract shall identify the following construction activity/activities using the message/messages shown:

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>CONSTRUCTION ACTIVITY</th>
<th>SIGN MESSAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hwy., Etc.</td>
<td>Cold In-Place Recycling (CIR)</td>
<td>“In-Place Recycling conserves natural resources”</td>
</tr>
<tr>
<td></td>
<td>Full Depth Reclamation (FDR)</td>
<td>“In-Place Recycling conserves natural resources”</td>
</tr>
<tr>
<td>Creation of Wetland Pond Areas Using Borrow Pits</td>
<td>“Wetlands Restoration”</td>
<td></td>
</tr>
<tr>
<td>Fisheries Habitat Improvement</td>
<td>“Enhanced Fisheries Habitat”</td>
<td></td>
</tr>
</tbody>
</table>

Note to Designer: Only 1 message shall be used for each respective “project”. In cases where multiple projects are included within a single tender, and more than 1 project uses “Green” Design features, these shall be detailed above. Delete all non-applicable rows from Table.

1.1.3 Sign Fabrication

Sign layout and fabrication shall be as shown on sign pattern Drawing ID-603 available at the following location: [http://www.transportation.alberta.ca/1842.htm](http://www.transportation.alberta.ca/1842.htm); and in accordance with Specification 7.1, Traffic Accommodation and Temporary Signing, of the Standard Specifications for Highway Construction.

The Contractor shall submit details of His proposed sign layout to the Consultant for review and acceptance prior to sign fabrication.
1.1.4 Sign Installation and Removal

“Green Project” project identification signs shall be installed prior to commencement of the Work. Installation locations will be determined by the Consultant.

Signs shall be left in place at the completion of construction operations. Removal of the signs will be carried out by other forces.

The Contractor shall be responsible for maintaining the signs, in place, from the time of installation until issuance of the Construction Completion Certificate. Signs damaged within this period shall be repaired or replaced by the Contractor as required. Maintenance of signs beyond this period will be carried out by other forces.

1.1.5 Payment

Payment for the supply and installation of “Green Project” project identification signs will be made at the unit price bid per sign for “Green Project” Project Identification Sign”, and will be full compensation for sign fabrication and installation; including all labour, materials, equipment, tools and incidentals necessary to complete the Work to the satisfaction of the Consultant.

All costs associated with the repair and/or replacement of damaged “Green Project” project identification signs prior to issuance of the Construction Completion Certificate will be considered incidental to the Work, and no separate or additional payment will be made.

VERSION FOR CONTRACTOR INITIATED GREEN FEATURES

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“GREEN PROJECT” PROJECT IDENTIFICATION SIGNS

1.2.1 General

The Contractor shall supply and install “Green Project” project identification signs when construction activities meeting the criteria described in the following Provisions will be utilized.

The supply and installation of “Green Project” project identification signs shall be in accordance with the following Provisions and as directed by the Consultant.

1.2.2 Qualifying “Green” Construction Activities

Construction activities dictating the supply and installation of “Green Project” project identification signs are as follows:

- A minimum 5 000 t of RAP (reclaimed asphalt pavement) will be used in the production of asphalt concrete pavement.

- A minimum 30 000 t of asphalt concrete pavement will be produced using an approved Warm Mix Asphalt (WMA) additive or technology and which results in lower mixing temperatures.

Signs are only required when either of the above criteria are met.

To avoid sign clutter on projects where both criteria are met, signs shall be installed identifying WMA usage only.

1.2.3 Sign Fabrication
Sign layout and fabrication shall be as shown on sign pattern Drawing ID-603 available at the following location: [http://www.transportation.alberta.ca/1842.htm](http://www.transportation.alberta.ca/1842.htm); and in accordance with Specification 7.1, Traffic Accommodation and Temporary Signing, of the Standard Specifications for Highway Construction.

The message to be displayed on the signs shall be selected from those shown on Drawing ID-603 as applicable.

The Contractor shall submit details of his proposed sign layout to the Consultant for review and acceptance prior to sign fabrication.

### 1.2.4 Sign Installation and Removal

“Green Project” project identification signs shall be installed prior to commencement of the Work. Sign quantities and installation locations will be determined by the Consultant.

Signs shall be left in place at the completion of construction operations. Removal of the signs will be carried out by other forces.

The Contractor shall be responsible for maintaining the signs, in place, from the time of installation until issuance of the Construction Completion Certificate. Signs damaged within this period shall be repaired or replaced by the Contractor as required. Maintenance of signs beyond this period will be carried out by other forces.

### 1.2.5 Payment

Payment for the supply, installation and removal of “Green Project” project identification signs, if required, will be made in accordance with Section 1.2.25, Extra Work, of Specification 1.2, General.

All costs associated with the repair and/or replacement of damaged “Green Project” project identification signs prior to issuance of the Construction Completion Certificate will be considered incidental to the Work, and no separate or additional payment will be made.

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**Notes to the Designer (Not to be inserted into the tender):**

“Green” design features or construction activities requiring sign usage are as follows:

**Department Initiated**

- In-place recycling consisting of cold in-place recycling (CIR) or full depth reclamation (FDR) for an area of 50,000 m² or greater.

- Use of borrow pits for the creation of wetland areas.

- Fisheries habitat improvements.

The Consultant shall contact the Environmental Management Section of Technical Standards Branch to determine when wetland creation and/or fisheries habitat improvements are required.

**Contractor Initiated**

- A minimum 5,000 t of RAP (reclaimed asphalt pavement) will be used in the production of asphalt concrete pavement.

- A minimum 30,000 t of asphalt concrete pavement will be produced using an approved
Warm Mix Asphalt (WMA) additive or technology and which results in lower mixing temperatures.

A bid item for “Green Project” project identification signs shall be included only for Tenders with Department initiated “Green” design features.

The sign installation locations for the following activity types shall be at the project limits of each applicable project:

- In-place recycling (CIR) (FDR)
- Use of recycled pavement materials (RAP)
- Use of warm mix asphalt

Signs for the following activity types shall be installed at, or near, the “Green” design feature:

- Wetlands restoration
- Enhanced fisheries habitat

In all cases, signs shall be located to avoid driver distraction.

To avoid sign clutter, only one set of green project signs will be used per project. In cases where more than one eligible design feature or construction activity is identified or has the potential to be used, the hierarchy of which sign is required is as follows:

1) Department initiated “Green” design feature (In cases where more than 1 Department initiated feature is eligible, the Consultant shall contact the Project Sponsor or Technical Standards Branch to determine which message(s) to specify for each project or projects).
2) Warm mix asphalt
3) Recycled pavement materials.

The above criteria will apply to each project for multi-project tenders.
Drawing is provided for reference purposes only. Do not include in tender document.