

**TES-CT-TAS-GL Temporary Access Roads  
Specification (CAN-US-MEX)**

EDMS No.: 008960813

Rev.: 01

Status: Issued

Effective Date: 2017-Dec-01

Next Review Date: 2019-Dec-02

**PURPOSE**

This Specification defines requirements for planning, building and using temporary access roads for construction projects. This Specification will be attached as a schedule to the contract between the Company and the Contractor.

**SCOPE/APPLICABILITY**

This Specification applies to the use of existing access roads and the construction and maintenance of new temporary access roads to support TransCanada's construction projects in Canada, the United States and Mexico. All installation details referenced are examples only and are not site-specific.

This Specification applies to Contractors that are designated as follows:

- the "Prime Contractor" (British Columbia, Alberta, Manitoba)
- "Constructor" (Ontario)
- "Maître d'Oeuvre" (Quebec)

This Specification also applies where the Contractor has control of the work site as designated as follows:

- an "employer" (work site regulated by the Canada Labour Code)
- either an "employer" or "contractor" (Saskatchewan)
- a "controlling employer," "creating employer," "exposing employer," "correcting employer" or "General Contractor" (United States) for Occupational Health and Safety (OHS)
- "Contratista" or "Contratista EPC" in Mexico

This Specification applies to all divisions of the Company and its wholly owned subsidiaries, and all operated entities/facilities in Canada, the United States (U.S.) and Mexico.

**Note:**

The Contractor is solely responsible to ensure that all applicable legal requirements and relevant industry standards have been identified and will be met in performance of the work. By providing these minimum expectations related to temporary access roads, the Company is not assuming control over occupational health and safety nor agreeing to correct deficiencies.

Within this Specification, TransCanada is referred to as the Company.

Unless otherwise specified, all statements in this Specification are "shall" requirements, as defined below.

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Within this Specification, the following terms and definitions apply for requirements:

- **Shall**—expresses a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard. Shall is not a recommendation but a requirement.
- **Should**—expresses a strong preference, recommendation or that which is advised, but not required.
- **Must**—denotes a requirement of the Company, for which no deviation or variance would be granted.
- **May**—expresses an option or that which is permissible within the limits of the standard.
- **Consider**—assumes that a Competent Person will evaluate options to fulfill the intent of the requirement and make a documented decision supported by evidence to ensure protection of people, equipment and the environment by achieving the appropriate level of functional integrity.

Wherein the governmental or regulatory requirements conflict with this Specification, the more stringent requirement shall govern.

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**1 GLOSSARY****Agreements**

Documents including schedules, the general terms and conditions, exhibits, scopes of work (SOWs), line lists, land owner agreements, permits, special conditions and other contractual documents.

**Company Representative**

The person assigned on behalf of the Company to act in the Company's best interests and ensure Contractor adherence to this Specification. This person will be the Project Manager or a designate.

**Competent Person**

A person who is adequately qualified, suitably trained and with sufficient experience to safely perform the work as outlined, independently, or with only a minimal degree of supervision. A person who is capable of identifying existing and predictable hazards in the surroundings and working conditions that are unsanitary, hazardous or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate the hazards.

**Contractor**

The person, firm or corporation contracting with the Company to perform the work as set out in the Agreement, including the Contractor's contractors, subcontractors and sub-vendors.

**ECS**

Environmental Construction Standard

**EM&CP**

Environmental Management and Construction Plan

**EPP**

Environmental Protection Plan

**Equipment operator**

The Competent Person assigned to operate mobile equipment. This individual must work closely with the signaller to accept and understand the signals and directions being given.

**KMZ**

Keyhole Markup (language) Zipped. A compressed version of a Keyhole Markup Language file, viewable in Google Earth, that contains information for a placemark including latitude, longitude and other information.

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**Mobile equipment**

Operator-driven vehicles other than normal transport vehicles (e.g., cars, trucks) used to perform work at a worksite whether powered by electricity, gasoline, compressed natural gas, diesel or propane (e.g., tractor trailer units, forklift trucks, front-end loaders, tracked vehicles, cranes, dump trucks).

**OHS**

Occupational Health and Safety

**OQ**

Operator Qualification (U.S.)

**ROW**

Right-of-Way

**Signaller**

A Competent Person assigned and dedicated to provide hand and verbal signals to guide the equipment operator.

**SOW**

Scope of Work

**SSSP**

Site-Specific Safety Plan

**Temporary access road**

An access road used during project construction; after construction is completed, the land is restored back to its original condition unless specified otherwise in the Agreements.

**Traffic control**

The use of signs, traffic arrow boards, sign boards, buffer or shadow vehicles, barricades, cones, barriers, detours, traffic lights, traffic control persons or other techniques and devices to manage the control of traffic.

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**2 PLANNING REQUIREMENTS**

Unless otherwise specified, the Contractor is responsible for all requirements included in this section.

**2.1 General Planning Requirements**

- 2.1.1 Develop the Contractor Traffic Management Plan, as per section 3.3, incorporating all applicable regulatory requirements and the requirements set out by the agencies having jurisdiction.
- 2.1.2 Determine the availability and condition of existing Company access roads that may need modification to accommodate construction activities.
- 2.1.3 Identify any other existing access roads that could be used for the project by reviewing maps, Company-provided drawings, images and other Company-provided materials. Depending upon the size of the project, site visit(s) are recommended to determine availability of access into such areas as:
- stockpile sites
  - camp locations
  - steep slopes
  - ROWs
  - creek and river crossings
  - helicopter pads
  - all other workspaces
- 2.1.4 Request approval from the Company Representative for any additional temporary workspace requirements.
- 2.1.5 Assess and mitigate the hazards for both existing and new temporary access roads with consideration to the documents listed in section 3.1.3 and the following:
- overhead powerlines, utilities (e.g., gas, water, power, sewer) and pipelines owned by the Company or a third party
  - bridges (may require an engineering assessment), overpasses and underpasses
  - ingress from and egress onto intersecting roadways (e.g., highways), single or double lanes (i.e., road width), blind corners
  - ground conditions (e.g., paved, gravel, muskeg, wetland, waterbodies), considering the effects of weather and geological events on the road condition, steep slopes and terrain
  - local traffic, community restrictions or risks of blockades, local or regional driver behaviors (e.g., culturally sensitive areas), commercial use (e.g., hauling timber), wildlife

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- emergency routes and emergency response in the event of a project incident, ensuring vehicle containment (e.g., barriers, guard rails) would not hinder emergency routes and response
- types of equipment that will be hauled on the road (i.e., wide or long loads), construction zones, falling objects from steep slopes, permitted loads (i.e., width and load weight limitations, seasonal restrictions)

2.1.6 Ensure access roads are sufficient to support the equipment anticipated to be traveling the road including load weights, widths and heights.

2.1.7 Ensure project personnel, land owners and Operations have appropriate access to existing facilities as required, working with the Company Representative.

### **3 GENERAL TEMPORARY ACCESS ROAD REQUIREMENTS**

Unless otherwise specified, the Contractor is responsible for all requirements included in this section.

#### **3.1 General Requirements**

3.1.1 Ensure all requirements of the Agreements are met.

3.1.2 Coordinate all work, including ground disturbance, with the Company Representative prior to starting work.

3.1.3 Adhere to the applicable Company specifications and requirements, and project-specific requirements as applicable, before initiation and during execution of the project, including, but not limited to:

- *TOP Heavy Equipment Crossing Information Form* (EDMS No. [003677225](#))
- *OHS Specifications for Prime/General Contractors* (EDMS No. [007646679](#))
- *TES-CT-OHP-GL Overhead Powerline Specification (CAN-US-MEX)* (EDMS No. [006179816](#))
- *TES-PROJ-COM Compaction Control Measures for Pipeline Excavations (CDN-US-MEX)* (EDMS No. [005974567](#))
- *TES-PROJ-EXC Excavation Specification (CDN-US-MEX)* (EDMS No. [005890120](#))
- *TES-PROJ-SSW Steep Slope Work Specification (CDN-US-MEX)* (EDMS No. [009199892](#))
- the applicable environmental management documentation:
  - Canada: the project-specific Environmental Protection Plan (EPP)
  - U.S.: the Environmental Management & Construction Plan (EM&CP) and Environmental Construction Standard (ECS) for the specific jurisdiction
  - Mexico: The Environmental Management Plan and Environmental Management Program for the specific jurisdiction

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- 3.1.4 Receive approval from the Company for access through any areas not identified in the Agreements.
- 3.1.5 Ensure construction through agricultural areas is completed in a manner that minimizes interference or inconvenience to landowners or tenants and their agricultural operations.

**3.2 Permitting Requirements**

- 3.2.1 Confirm with the Company Representative which permits will be obtained by the Company, and which will be obtained by the Contractor.
- 3.2.2 Apply for and/or obtain all Contractor-obtained permits identified in section 3.2.1 for the project prior to starting any construction activities.
- 3.2.3 Provide copies of all required Contractor-obtained permits to the Company Representative prior to starting work.
- 3.2.4 Receive all Company-obtained permits and approvals from the Company.
- 3.2.5 Comply with all permit requirements and approvals.
- 3.2.6 Verify the following with the Company Representative where the Company is responsible for obtaining permits and land rights:
- All landowners and other parties affected by the proposed access road work have been contacted.
  - Facility owners have been notified as required by the applicable provincial, state and federal regulatory authorities.

**3.3 Traffic Management Plan Requirements**

- 3.3.1 Develop a Traffic Management Plan for all access roads (both existing and new) utilized on the project. This plan is part of the Contractor's Site-Specific Safety Plan (SSSP) for the work (can be an appendix to the SSSP), and includes the following at a minimum:
- any requirements from the local travel authorities, Department of Highways, counties, municipalities, townships states or provinces
  - signage requirements
  - location documentation and applicable permits:
    - map illustrating the locations of the access roads being used on the project in the form of Keyhole Markup Language Zipped (KMZ) Google Earth files or other Company-approved format
    - location and identification of known facilities affected by each access road
    - copies of all relevant permits associated with the work



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- environmental impact and mitigation documentation:
  - environmental impact expected for each access road (e.g., travel restrictions due to weather), where applicable
  - inspection and maintenance plan (e.g., dust control, snow removal, and plowing frequency, rutting or damage repair frequency during construction activities) will follow the requirements of the applicable Company environmental documents listed in section 3.1.3
- hazard and controls documentation:
  - procedures or work plans used to clearly identify, document, communicate and control the hazards for each access road; these include ensuring the requirements of the following specs are met as applicable: overhead powerlines, blasting, steep slope, excavation, damage prevention requirements, etc., as listed in section 3.1.3
  - access roads that will be used as emergency routes
- traffic control plan and training requirements (e.g., single lane, one way, radio communication protocols, signallers/flag persons, speed limits, signage and barriers, layby/turning/parking areas, emergency routes, use of pilot vehicles)

**3.4 Training Requirements**

- 3.4.1 Identify the regulatory training and qualification requirements for working on temporary access roads and ensure all personnel performing, monitoring and/or supervising construction activities associated with access roads are Competent Persons for the assigned roles.
- 3.4.2 Document and provide the Company with all training, qualifications and competency verifications.
- 3.4.3 Ensure individuals performing any tasks considered “covered tasks,” for work performed on access roads in the U.S., have been qualified as required under the Company’s Operator Qualification (OQ) program.

**3.5 Signage Requirements**

- 3.5.1 Obtain all required permits to erect signs if applicable.
- 3.5.2 Provide all access roads with highly visible signs indicating the location (e.g., "Access to KP/MP xx," "Access to Camp xx" or "Pipe Yard").
- 3.5.3 Provide signs to indicate any hazards associated with the access road (e.g., narrow bridge, steep hills, slippery conditions, one-way traffic, speed restrictions).
- 3.5.4 Maintain access signs throughout the construction period and remove at project completion as described in the Traffic Management Plan.

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**4 CONSTRUCTION AND IMPROVEMENT REQUIREMENTS**

Unless otherwise specified, the Contractor is responsible for all requirements included in this section.

**4.1 General Requirements**

- 4.1.1 Immediately stop activity and notify the Company Representative in the event any cultural or archeological resource or human remains are exposed.
- 4.1.2 Notify the Company of any unanticipated drainage or environmental impacts (e.g., surface drainage, noise, dust) on the surrounding areas.

**4.2 Pre-Construction Requirements**

- 4.2.1 Follow designated locations of temporary access roads and other workspace areas as may be indicated on drawings, in the Agreements or as directed by the Company Representative and as identified in the Contractor Traffic Management Plan.
- 4.2.2 Contact the local state or province-specific One-Call service and submit a notification of the intended excavation in accordance with local requirements.
- 4.2.3 Ensure markings, flags, or stakes of local utilities or pipelines are kept in place or recall the One-Call centre to have the lines or facilities remarked.
- 4.2.4 Document, prior to any construction activities, the original condition of existing access roads that will be used (e.g., photos and video documentation), including date and time stamp or notarization, if a project requirement.

**4.3 Clearing Requirements**

- 4.3.1 Obtain Company approval before starting any clearing operations to ensure workspace clearing is consistent with terms of all landowner agreements.
- 4.3.2 Perform clearing in a safe manner that minimizes inconvenience, or damage to landowners' and tenants' interests and property.
- 4.3.3 Clear the proposed temporary access road of trees, stumps, rocks and other obstructions, as required by the Agreements, drawings, and the Company Representative.
- 4.3.4 Dispose of all debris as directed by the Company Representative.
- 4.3.5 Fell brush and trees within the staked limits to prevent damage outside the approved temporary access road workspaces.
- 4.3.6 Dispose of all treetops, limbs, stumps and brush cleared from the temporary access road workspaces as listed in the Agreements or as instructed by the Company Representative.
- 4.3.7 Obtain a permit for any burning required (if burning is permitted) and only burn in areas allowed by the received permit.

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- 4.3.8 Provide adequate temporary or permanent protection to all significant above grade or below grade items (e.g., landmarks, pipelines, historical sites, markers) that could be damaged or destroyed during construction.

**4.4 Soil Conservation Requirements**

- 4.4.1 Adhere to all soil conservation requirements listed below for all construction work where grading or excavation is necessary.
- 4.4.2 Remove topsoil, unless directed otherwise by the Company Representative, to its actual depth or a maximum depth as required by permits, landowner agreements or Agreements.
- 4.4.3 Remove and store topsoil in locations approved by the Company Representative, before grading and leveling.
- 4.4.4 Do not store topsoil in a manner that increases its water content.

**4.5 Grading Requirements**

- 4.5.1 Receive approval from the Company Representative for the extent of grading to be completed.
- 4.5.2 Temporarily protect slopes subject to erosion after grading. Install temporary slope breakers and other erosion control structures as required by permit conditions, Agreements or the Company Representative.
- 4.5.3 Ensure grading is not to the detriment of natural drainage or slope stability through the following actions at a minimum:
- stockpile spoil from grading to avoid blocking drainage ditches and minimize erosion
  - do not spread spoil into tree or crop areas

**4.6 Culvert Requirements**

- 4.6.1 Install culverts, for water drainage from surrounding terrain as shown on drawings, Agreements and permits including the following:
- Install culverts at all intersections between the Company temporary access roads and any other private or public roads.
  - Install culverts in conformance with applicable state, provincial, county or local specifications.
  - Replace any culvert damaged, lost or rendered unusable while the temporary access road is in service.
  - Select culverts made of PVC, carbon steel or galvanized steel; any alternative material must be approved by the Company.

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**4.7 Security, Fencing and Gate Requirements**

- 4.7.1 Install security structures such as fencing and gates to restrict access to the ROW, work spaces and temporary access roads as described in the Agreements.
- 4.7.2 Ensure Operations has access to existing Company facilities if installing gates for project use; this may include providing Operations with keys or codes to locks.

**5 MAINTENANCE AND RESTORATION REQUIREMENTS**

Unless otherwise specified, the Contractor is responsible for all requirements included in this section.

- 5.1.1 Maintain all temporary access roads used on the project (e.g., existing, private, new) in good working condition and repair any damage immediately.
- 5.1.2 Review hazards periodically throughout construction and modify plans and actions accordingly.
- 5.1.3 Return all access roads used for the project back to original as-found condition, or as defined in the Agreements, at the end of the project, following all regulatory and permitting requirements.

**6 VARIANCES**

Any deviation shall follow the Company's *Management of Change (MOC) Variance Procedure* (EDMS No. [007728702](#)). External vendors shall contact the Company Project Engineer or another authorized Company representative for variance approval.

**7 REFERENCES**

This document relies on the internal references listed in Table 7-1, Table 7-2 and Table 7-3. Use the latest document revision, unless otherwise approved by TransCanada.

**Table 7-1: Regulatory References**

Organization/Document No.	Title
For this Specification, there are no specific regulatory references.	

**Table 7-2: External Industry References**

Organization/Document No.	Title
For this Specification, there are no specific external industry references	

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**Table 7-3: Internal References**

Document No.	Title
EDMS No. <a href="#">007728702</a>	<i>Management of Change (MOC) Variance Procedure</i>
EDMS No. <a href="#">007646679</a>	<i>OHS Specifications for Prime/General Contractors</i>
EDMS No. <a href="#">006179816</a>	<i>TES-CT-OHP-GL Overhead Powerline Specification (CAN-US-MEX)</i>
EDMS No. <a href="#">005974567</a>	<i>TES-PROJ-COM Compaction Control Measures for Pipeline Excavations (CDN-US-MEX)</i>
EDMS No. <a href="#">005890120</a>	<i>TES-PROJ-EXC Excavation Specification (CDN-US-MEX)</i>
EDMS No. <a href="#">009199892</a>	<i>TES-PROJ-SSW Steep Slope Work Specification (CDN-US-MEX)</i>
EDMS No. <a href="#">003677225</a>	<i>TOP Heavy Equipment Crossing Information Form</i>
	<p>The applicable environmental management documentation:</p> <ul style="list-style-type: none"> <li>• Canada: the project-specific Environmental Protection Plan (EPP)</li> <li>• U.S.: the Environmental Management &amp; Construction Plan (EM&amp;CP) and Environmental Construction Standard (ECS) for the specific jurisdiction</li> <li>• Mexico: The Environmental Management Plan and Environmental Management Program for the specific jurisdiction</li> </ul>

## 8 DOCUMENTATION AND RECORDKEEPING

All technical document submittal requirements are provided in the Agreements.

## 9 DOCUMENT HISTORY

Rev.		
01	Description	Effective Date
	New document.	2017-Dec-01
	Rationale Statement	Responsible Engineer
	<p>This document was developed/revised in order to address the following requirements:</p> <ul style="list-style-type: none"> <li>• Consolidation of specifications. The following specifications/documents have been combined into this document: <ul style="list-style-type: none"> <li>– <i>TES-PROJ-ACC Temporary Access Roads</i></li> <li>– <i>DS.00.004 Access Road Standard</i></li> </ul> </li> </ul>	Paul Shaffer
	Impact Assessment Summary	Document Owner
		Paul Shaffer

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**10 DESCRIPTION OF CHANGE**

Section	Description of Change
Regulatory	
N/A	N/A
Industry Standards	
N/A	N/A
General	
N/A	This Specification is a new document.

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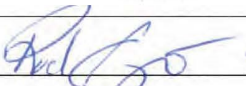
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**11 APPROVALS**

<b>APPROVALS</b>		
Originator: Paul Shaffer Construction Management Services	 Signature	<u>10/31/2017</u> Date
Reviewer: Allen Goe, US Project Engineering	 Signature	<u>10/31/2017</u> Date
Reviewer: Thomas Jurca, Pipeline Engineering	 Signature	<u>Nov 6 / 2017</u> Date
Reviewer: David Jonasson, P.Eng. Liquids Projects CA	 Signature	<u>Nov. 6 / 2017</u> Date
Reviewer: Antonio J. Cordido, P. Eng. Engineering Manager Mexico Projects Implementation	 Signature	<u>NOV-6/2017</u> Date
Reviewer: Josh Harding, EE - Enviro Planning & Permitting	 Signature	<u>Nov 14 / 2017</u> Date
Approver: Paul Shaffer Construction Management Services	 Signature	<u>10/31/2017</u> Date
Management Endorsement: Roderic Egert, Director Commissioning and Construction Management Services	 Signature	<u>NOV 15 / 2017</u> Date