



# CHELAN COUNTY

DEPARTMENT OF PUBLIC WORKS  
316 WASHINGTON STREET  
SUITE 402  
WENATCHEE, WASHINGTON 98801  
TELEPHONE 509/667-6415

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DIRECTOR/COUNTY ENGINEER

## Road Cut Repair Standards and Requirements

The following requirements are for underground utility excavation, backfill, road restoration and protection of the public.

**NO work shall be performed within the county road right of way without FIRST obtaining a permit.** Contact the Development Review Department at (509)667-6415 for an application.

Once a completed "Application to Perform Work on County Road Right-of-way" has been received, the processing for the permit is normally accomplished within five (5) working days and sent out to the Permittee in that timeframe.

Prior to ANY excavation work, it will be the responsibility of the Permittee to contact the Washington Utilities Coordination Council (Call Before You Dig) at 1-800-424-555 and call for utility locates. The call MUST be placed at a minimum of two (2) business days before digging.

Asphalt pavement shall not be cut for at least five (5) years following new paving and three (3) years following a fresh chip seal. All utility installations required during the moratorium shall only be accomplished by jacking, boring or auguring the pipe or cable under the roadway.

**NOTE:** In the case of an emergency, unforeseen conditions or the inability to jack, bore or auger under the roadway, a variance may be granted by the County Engineer. **If the variance is granted, full or ½ road overlays will be required.**

Repair on roadways that are BST shall be as follows:

Hot Mix Asphalt will be required, then 1-shot BST over the entire area. Refer to the "BST Utility Crossing Open Repair Standard" for large BST repair areas.

Prior to ANY excavation work and at the cost of the Permittee, the Permittee shall in accordance with RCW 58.09.130 and WAC 330.120, under the direction of a registered land surveyor locate any subdivision, tract, street, or highway monuments of record that could be disturbed by the work of the Permittee. Any such monuments found shall be located and referenced by or under the direction of a registered land surveyor and a permit filed and approved by Chelan County Public Works for the temporary removal or destruction of the monument(s). Upon completion of the work an approved monument shall be reset in the surface of the new construction. In all other cases, permanent witness monuments shall be set to perpetuate the location of preexisting monuments.

It is the obligation of the Permittee to notify the County Surveyor of the possibility of monument disturbance or destruction by the work performed and to file the appropriate paperwork with the regulatory agencies noted per WAC 330.120

If replacement of a monument is necessary within the pavement, a standard cast iron monument case will be required. The Permittee shall bear the cost of installation, by their surveyor, in a manner satisfactory to the County Surveyor.

The Permittee shall provide proper signing, barricades, flashing lights, or other methods to warn the public of the open trenches, obstructions, or other impediments to public travel. All traffic control and signing and all traffic control devices shall conform to the "Manual on Uniform Traffic Control Devices" (MUTCD) current edition.

The Permittee shall keep all traveled ways clear of obstructions and equipment not directly connected with the project or operation.

Only equipment with rubber tires shall be permitted to operate on any road. Damage to any road will be repaired by the Permittee, at their own expense, to restore the road to the original condition.

The Permittee shall protect all existing facilities, using whatever methods are necessary, subject to the Engineer's approval.

**EMERGENCY REPAIRS:** When an emergency repair situation arises contact the County Engineer at (509)667-6415 the same day. Your call will be returned the next working day. Emergency repairs are subject to the same safety and restoration requirements noted for non-emergency road cuts.

The following specifications shall be used for all road crossings & longitudinal cuts in the asphalt or BST:

1. All cuts in asphalt concrete pavement shall be made by sawing. No jackhammers or asphalt cutting wheels shall be allowed unless otherwise approved by the County Engineer.
2. Asphalt cutting wheels may be used on BST pavement only. When asphalt cutting wheels are used the cutter shall cut completely through the asphaltic surfacing. BST edges shall be uniform and straight.
3. Asphalt roadways shall be restored with a minimum surface thickness of three (3") inches of Hot Mix Asphalt (HMA) or to match the thickness of the existing material, whichever is greater.
4. Untreated road surface (crushed rock, gravel or oil-mat surfaces) shall be resurfaced with a minimum of two (2") inches of crushed rock or other approved material.



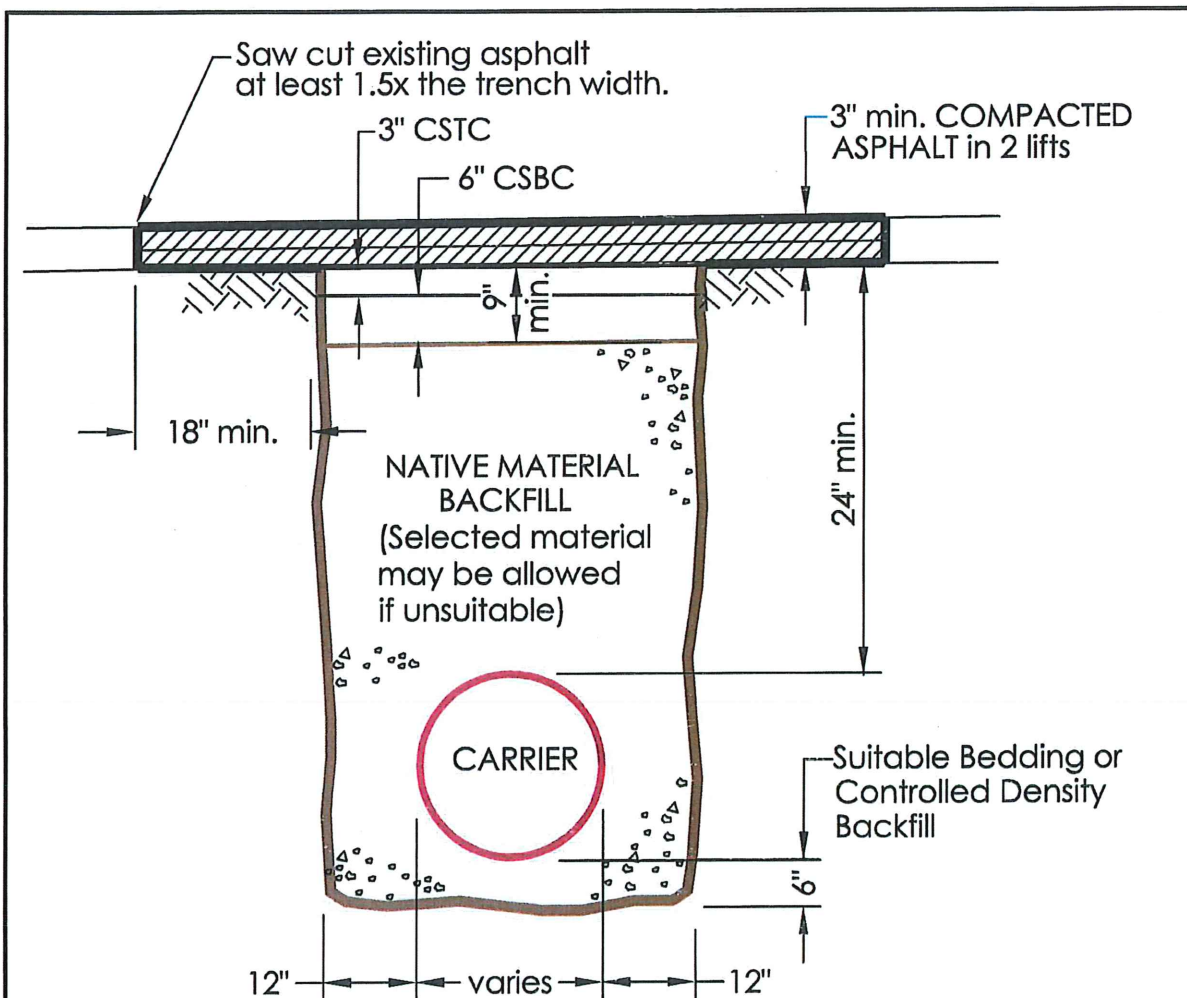
5. Restoration shall be full trench width that has been cut back 1-1/2 times the width of the trench (see detail) on all adjoining sides to expose the existing base. The asphalt may be hand spread and machine rolled. The asphalt will be compacted to 95% proctor minimum.
6. Restoration for longitudinal patches more than one hundred (100') feet in length shall be full lane width for the entire length of the trench. A self-contained asphalt paving machine with an activated screed or strike-off assembly, capable of spreading and finishing courses of asphalt material shall be used. Prior to paving the lane, the existing asphalt shall be removed by cold planing (grinding) the asphalt down a minimum of two (2") inches or to the surface of the base, whichever is less.
7. Any cut less than three (3') feet from the edge of the pavement will require the removal and restoration of that portion of pavement between the edge of the roadway and the cut.
8. The contractor shall not proceed with pavement removal until it has been demonstrated that the method to be used to break and remove the pavement will not damage the existing utilities or pavement that is to remain in place.
9. Excavation of material beyond the vertical plane of the cut (undercutting) shall not be allowed. If such undercutting occurs, it may be necessary to remove the affected pavement. Controlled density backfill (CDF) of minor undercut areas may be permitted.
10. The CDF shall be per the Washington State Department of Transportation (WSDOT) Standard Specification 2-09.3(1)E.
11. Restoration of any cut adjacent to any county maintained structure (e.g. bulkhead, retaining walls, crib walls, gabion walls, bridge footings, etc.) shall be performed under direct inspection by Chelan County Public Works.
12. When backfill or restoration is accomplished by the contractor without County approval or control, the contractor shall guarantee the integrity of the completed work for a period of one (1) year from the date of final acceptance. If failure or severe deterioration occurs the County will make the necessary repairs at the expense of the contractor. If it can be shown to the satisfaction of the County Engineer that the failure or severe deterioration was substantially caused by factors beyond the control of the contractor, this guarantee shall not apply.
13. Suitable backfill material: Select material for backfill may be required. All material used for backfill shall be free from large or frozen lumps, wood, or other extraneous matter. The backfill shall be compacted to ninety-five percent (95%) of the maximum density determined by WSDOT Standard Specifications. Water settling backfill shall not be allowed. Backfill of minimal (as determined by the County) undercutting may be permitted when CDF is used.
14. A minimum of nine (9") inches consisting of three (3") inches of crushed surfacing top course (CSTC) and six (6") inches of crushed surfacing base course (CSBC), of compacted

crushed aggregate or a depth equal to the existing crushed surfacing, whichever is greater, shall be placed under the surface patch of the repair. Crushed surfacing shall conform to the WSDOT of Standard Specification Section 9.03.9.

It shall be the responsibility of the contractor to add or remove water from the backfill to bring the material as nearly as practicable to optimum moisture prior to compaction.

If there is any disagreement in regards to compaction, the County Engineer may order testing of the backfill. All testing of the backfill shall be at the expense of the contractor.

15. Interim patches: If temporary patches are required to maintain traffic, the contractor shall install and maintain a two (2") inch thick patch of HMA material over two (2") inches crushed rock or, optionally, a three (3") inch thick patch of HMA material.
16. Responsibility for interim or temporary patches: When temporary asphaltic patches are allowed they must be compacted flush with the adjoining permanent pavement, and must be maintained in a good condition until a permanent patch is placed. Any settlement of the backfill under the patch is the responsibility of the contractor until the permanent repair is completed. When notified of a backfill or temporary patch needing repairs, the contractor must take corrective action within 24 hours. By agreement, this work can be done by the Chelan County Public Works Department forces, at the contractor's expense.
17. Asphalt pavement surface mix: Asphalt mix for permanent road restoration shall be HMA per WSDOT Standard Specifications.
18. Surface smoothness: The completed surface of all courses shall be of uniform texture, smooth surface crown and grade in accordance with WSDOT Standard Specifications (Section 5-04.3(13)).



**NOTES:**

Compaction to meet the Washington State Department of Transportation Standard Specifications current edition.  
See attached Road Opening Standards and Requirements.

APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_

NOT TO SCALE

**Chelan County**  
**Public Works Department**  
316 Washington Street, Suite 402  
Wenatchee, Washington, 98801

Phone: (509) 667-6415  
Website: [www.co.chelan.wa.us](http://www.co.chelan.wa.us)



**UTILITY CROSSING**  
**OPEN CUT REPAIR STANDARD**

PLOT DATE: 4/9/2009

Sheet 1 of 1