Special Provisions for Pavement Open Cuts

1. All patches are to be replaced in accordance with the following requirements and as shown in Figure 1.

2. All Excavations or Open Cuts shall comply with OSHA Technical Manual, Chapter 2, Title Excavation: Hazard Recognition in Trenching and Shoring.

3. The permit proprietor will be required to replace the surface and base of the roads included under this permit in accordance with VDOT Road and Bridge Specifications, VDOT Road and Bridge Standards, and this Special Provision.

4. Backfill material shall include a minimum of four (4") inches bedding materials, sand or stone. The balance of the backfill shall be approved soil compacted to the bottom of subbase layer (Type I, Size 21 A, or 21 B). The entire backfill shall be free from wood, decaying material, asphalt, concrete, ice, frost, large clods, stone and debris.

5. Backfill material shall be compacted to a minimum of 95% of the theoretical maximum density at optimum moisture content, as determine by the Virginia Department of Transportation testing procedures (VTM1), use mechanical tamping throughout the depth of the trench in six (6") layers to ensure that adequate support is provided for the subbase layer (Type I, Size 21 A or 21 B).

6. It shall be the decision of the Resident Engineer to request and review the backfill compaction test results and/or authorize an inspector to monitor the compaction.

   Cuts in roads with Surface Course (SM) and Asphalt Concrete Base (BM) shall be replaced with ten (10") inches of Type I, Size 21 A or 21 B aggregate compacted to 100 percent of the theoretical maximum density at optimum moisture content covering the entire trench width in addition to a bench of six (6") inches minimum on each side.

   The asphalt base (BM-25d designed at 3% laboratory air void) having a thickness of 6 inches minimum or match the existing base thickness, shall be placed over the sub-base and match the elevation of the existing pavement surface. A surface asphalt concrete course (SM-9.5) of a minimum of 1.5" inches shall be placed on top of the base) covering the trench width and extending 25 feet on each side, or as determined by the VDOT Field Engineer. The permittee must schedule with the Field Engineer for the limits of the pavement overlay.

7. Cuts in surface treated roads with aggregate base course shall be replaced with the same layers as roads with asphalt base (BM) except the sub-base layer (Type I, Size 21 A or 21 B) is reduced to six (6") inches and the (BM) layer to four (4") inches but still keeping a six-inch bench. The surface course shall be a surface treatment matching the existing surface.

8. The cut to be back filled shall be made as dry as practicable at the time of back filling by pumping, bailing, draining, or other approved dewatering.

9. All sides shall be trimmed by saw cutting to neat straight lines and a tack coat shall be applied at a rate of 0.1 gallon per square yard of RC-250 before placing the plant mix.

10. Replacement of pavement shall be from edge of pavement to edge of pavement except when individual cuts are made and not covering the entire width of the pavement.

11. Replacement of all Asphalt Concrete and surface treated courses shall be rolled where possible with a unit having a manufacturer's rating of ten (10) tons, and rolled until the aggregate is keyed into the bitumen. Where rolling is not possible, a mechanical tamp will be used. In all cuts stone is to be placed in the trench daily up to maximum length of 500 feet, at which time the pavement shall be covered with a temporary or permanent asphalt patch. If the application of the bituminous layer is delayed for adverse weather conditions, the contractor shall provide and maintain a base course that is acceptable to the VDOT inspector until such time as the appropriate pavement patch can be applied. Contractor shall restore pavement in the manner prescribed on the VDOT permit within (10) days.

12. Contractor will be responsible for any depression grater than ¼" that occurs within three years of completion of patching. Correction shall consist of milling and replacing 1.5" of surface course mix (SM).

13. No steel plates will be allowed between November 1 and April 1. If working between April 2 and October 31 and using steel plates, they must be placed in accordance with VDOT standards and specifications.

14. Excavation is to be backfilled and patched with VDOT approved hot mix asphalt at the end of each work day, if working between November 1 and April 1.

15. All damages to existing road(s) will be restored to the satisfaction of VDOT.

16. Traffic shall be maintained at all times, in accordance with the approved MOT plan or the applicable TTC from the VA Work Area Protection Manual, while performing the open cut task.

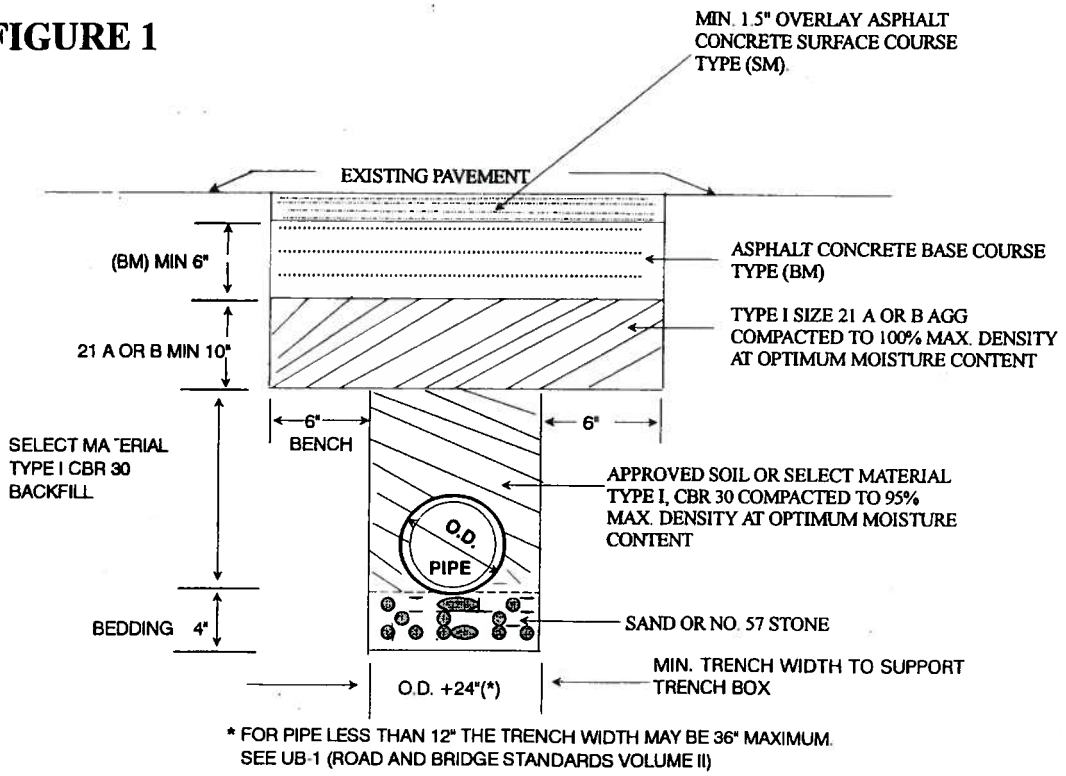
17. Permittee is to notify the VDOT Field Engineer 72 hours prior to performing open cut task. Permittee must call VDOT Regional Operations TOC at 703-877-3401 prior to setting up the work zone and removal of the work zone each day.

18. All backfill shall be compacted, tested, and approved by a geotechnical engineer licensed in Virginia. Compaction test results shall be submitted prior to completion of permit.

19. At no time shall the contractor park equipment to protect the excavation. Protection of an excavation is either by backfilling the hole or the use of steel plates.

NOTE: Pavement restoration is a minimum 25' each side of the trench width.

FIGURE 1



* FOR PIPE LESS THAN 12" THE TRENCH WIDTH MAY BE 36" MAXIMUM.
SEE UB-1 (ROAD AND BRIDGE STANDARDS VOLUME II)

CUT REPLACEMENT IN ROADS WITH ASPHALT CONCRETE BASE AND SURFACE

Instructions for Pavement Open Cut Request Form

1. The Permittee must complete and sign the form.

2. The form and attachments must be submitted in duplicate.

3. All utility and house service crossings and/or connections must be jacked or bored under the roadway. An open cut will not be permitted until all other means have been exhausted.

4. Photographs of the site showing the entire work area to be open cut must be included with the request. No more than six photos. Attach the photographs to 8 ½" x 11" white paper.

5. An approved traffic control plan must be included with all applications. Permittee must show the phasing of the work if more than one lane of traffic is affected.

6. A copy of the plan showing the work that is to be performed must be included.

7. A construction schedule of the work must be included with the following:
   - **a.** Proposed start date
   - **b.** Phasing of the work
   - **c.** Anticipated duration to complete the work within the roadway
   - **d.** Commitment date for the final restoration of the roadway (should be within 30 days of the start of the operation)

8. A pre-paid Federal Express shipping envelope and label, or a stamped, self addressed envelope must be included.

REQUEST FOR PAVEMENT OPEN CUT

Date: _____

Permit Number: _____

Permittee: _____ Tax Map Number: _____

Route: _____ Street Name: _____

Between Street: _____ And Street: _____

Contact Person: _____ 24-Hour Telephone: _____

Email Address: _____

JUSTIFICATION FOR OPEN CUT:

_____

_____

_____

_____

_____

I certify that I have read and will comply with the attached Special Provisions (LUP-OC NOVA).

_____
Signature of Permittee (not agent)/Date

RESTORATION REQUIRED: This section to be completed by VDOT Field Engineer.

_____

_____

_____

_____
Permit Inspector/Date

_____
Project Engineer/Date