

Trench Work Specifications

1. Existing City pavements are 7-inch (nominal) PCC and some have an additional 1.5- 2 inches of asphalt overlay. Our pavement replacement requirements are that trenches be filled with compacted (not jetted) granular backfill and that the pavements be replaced, in kind, to sawcut edges. The concrete pavement must be a minimum of 7" thick even if the existing pavement is less than 7" thick and shall match the existing if it happens to be more than 7" thick. The concrete patch must extend a minimum of 1 foot beyond each edge of the excavation and shall be doweled into the existing adjacent slabs on 24" centers with #5 dowel bars. The asphalt surface thickness (compacted) shall match the existing overlay thickness. When all pavement patching is complete the entire surface of the street (curb-curb) shall receive a slurry seal treatment to seal joints, cracks, gouges, etc., and to provide a uniform appearance through the disturbed area.
2. Temporary AC Pavement -- Temporary asphalt compacted to 2-inches thick shall be placed and maintained in a smooth and compacted condition at all locations where paving has been removed and before traffic is allowed to pass over areas of pavement removal. Temporary asphalt shall be removed for permanent repair.
3. Trench Pavement Repair-General -- Damaged pavement adjacent to the trench edges shall be sawcut and removed in rectangular sections. Remnant strips of pavement 2-feet wide or less shall be removed and such area(s) included in the pavement repair. Pavement shall be placed within thirty (30) days of completion of the subsurface installation. Areas to be joined with asphalt pavement shall be cleaned of all soil and foreign material and tacked with 100% coverage of asphaltic emulsion or paint binder. An asphalt tack coat for the surface course shall be emulsified asphalt Type SS-1 or approved alternate as described in Section 407 of the 2004 Missouri Standard Specifications for Highway Construction and related sections.
4. For trenches in excess of 100 linear feet: Full lane milling and resurfacing when existing AC pavement is greater than 4" For AC thickness 4" or less will require a full depth replacement. For trenches less than 300 linear feet, repair pavement utilizing a self-propelled vibrating screed paving machine (Barber-Green or equivalent) and may be subject to additional requirements.

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5. Excessive Pavement Removal -- Regardless of the trench method used, removal of six or more separate areas of pavement or the removal of 15% of the total area of a lane or shoulder by a Permittee within 300-foot length of street, shall require an overlay or reconstruction.
6. All concrete work shall be performed in accordance with the City of Florissant's applicable ordinances. Copies of the City's asphalt and concrete specifications are attached for your use along with the applicable quality control requirements for each. We will require copies of satisfactory test results from an independent laboratory before releasing the contractor's bond. Compaction of granular backfill must meet 90% of maximum density by ATSM D1557/AASHTO T180. Compaction tests must be taken in each 6" lift at not more than 100' intervals.
7. The City of Florissant requires that if there is a crack or a joint in the concrete pavement within (3) feet of the edge of the trench the pavement must be widened to include the joint or crack to avoid creating small unstable "lenses" of pavement that might later tilt under pressure from traffic. If the trench width or location is such that more than ½ the width of the slab is removed the entire slab must be removed and replaced. Note that the very fact that a street has been overlain with asphalt is indicative that the concrete is extensively cracked.
8. To minimize impact of street closures upon residents living in the construction area it will be necessary to severely limit the size if the area closed to traffic on any given day by only breaking out one days work in advance of the trench and promptly backfilling after the pipe is placed.
9. Contractor must notify the Florissant Police Department (314-831-7000) and the Florissant Valley Fire Protection District (314-837-4894) daily about the extent of that days street closures, if any, by address so those agencies will know which direction to approach from for a call at a given address.
10. The contractor shall coordinate all street work with Mr. Jason Timme, Superintendent of Streets, City of Florissant Street Department. Mr. Timme can be reached at 314-839-7653