

## **CHAPTER 11**

### **RESTORATION OF SURFACE IMPROVEMENTS**

#### **SECTION 11.01 GENERAL**

- A. The contractor shall be responsible for the protection and the restoration or replacement of any improvements existing on public or private property at the start of work or placed there during the progress of work. The contractor, subdivider or utility making the cut or trench shall be liable for any damage which may result to the pavement as a result of subsidence for a period of one year from the time that the backfilling is completed.
- B. Existing improvements shall include but are not limited to permanent surfacing, sidewalks, curbs and ditches, driveways, culverts, fences and walls. All improvements shall be reconstructed to equal or better, in all respects, the existing improvements removed.

#### **SECTION 11.02 GRAVEL ROAD REPAIR**

- A. Where trenches are excavated through existing graveled roads, shoulders, driveways, etc.; the gravel surface shall be restored and maintained as follows:
  - 1. The gravel shall be placed deep enough to provide a minimum of 4-inches of material or greater to match existing thickness unless directed otherwise by the City Engineer.
  - 2. The gravel shall be placed in the trench at the time it is backfilled. The surface shall be maintained by blading, sprinkling, rolling, adding gravel, etc., to maintain a safe uniform surface satisfactory to the City Engineer. Excess material shall be removed from the premises immediately.
  - 3. Material for restoring a gravel surface shall be obtained from sound, tough, durable gravel or rock meeting the following requirements for grading:

Passing 1-inch sieve	100%
Passing 3/4 inch sieve	85%-100%
Passing No. 4 sieve	45%-65%
Passing No. 10 sieve	30%-30%
Passing No. 200 sieve	5%-10%
  - 4. Subgrade shall be compacted to a density of 90% (8 inches deep). Compact gravel surface to a minimum of 90% maximum density.

#### **SECTION 11.03 ASPHALT SURFACE REPAIR**

- A. Where trenches are excavated though bituminous surfaced roads, driveways or parking areas, the surface shall be restored and maintained as follows:

1. Backfill trenches in compliance with Section 7.
2. Place road base in accordance with Section 6 to such depth as to provide a minimum of 6-inches below the pavement and, if the pavement is not to be restored immediately, shall be brought flush with the paved surface. Reshape the recompact periodically until asphalt is restored to maintain a smooth accessible road. Add water or dust pallative as required to prevent excessively dusty conditions.
3. Before any permanent resurfacing is placed, the Contractor shall cut the existing paving to clean, straight lines as nearly parallel to the centerline of the trench as practicable. Said straight lines (as defined by paint or chalk lines) shall be 30 feet minimum length and no deviations from such lines shall be made except as specifically permitted by the City Engineer or City Inspector.
4. Sawcuts or excavations within 3 feet of existing asphalt patches (or existing concrete appurtenances) shall necessitate the removal and replacement of said asphalt between the new and existing patch (or concrete appurtenance).
5. Existing bituminous paving shall be cut back as directed by the City beyond the limits of any excavation or cave-in along the trench so that the edges of the new paving will rest on undisturbed soil.
6. As soon as is practical, weather permitting, the bituminous surface shall be restored in compliance with Section 6 to a minimum thickness of 3 inches or to match existing pavement thickness plus 1 inch if greater, as directed by the Street Department Pavement Management Technician.

#### **SECTION 11.04 CONCRETE SURFACES**

- A. All concrete curbs, gutter, sidewalks and driveways shall be removed and replaced to the next joint or scoring lining beyond the actually damaged or broken sections; or in the even that joints or scoring lines do not exist or are three or more feet from the removed or damaged section, the damaged portions shall be removed and reconstructed to neat, plane faces. All new concrete shall match, as nearly as possible, the appearance of adjacent concrete improvements. Where necessary, lampblack or other pigments shall be added to the new concrete to obtain the desired results. All concrete work shall conform to Section 5 requirements.

#### **SECTION 11.05 IRRIGATION DITCHES**

- A. It shall be the responsibility of the Contractor to maintain all irrigation ditches in the construction area such that normal irrigation flows are not impeded. All costs related to maintaining the ditches shall be borne by the Contractor at no expense to the City. All ditches, structures, etc., shall be repaired and/or replaced to a condition equal to or better than that prior to construction.