

SECTION 02315

EXCAVATION

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Excavating for curb and gutter.
 - 2. Excavating for paving, roads, and parking areas.
 - 3. Excavating for slabs-on-grade, including cross-pans.
 - 4. Excavating for site structures.
 - 5. Excavating for sidewalks.

- B. Related Sections:
 - 1. Section 02721 - Aggregate Base Course.
 - 2. Section 02740 - Flexible Pavement.
 - 3. Section 02750 - Rigid Pavement.
 - 4. Section 03300 - Cast-in-Place Concrete.

1.2 QUALITY ASSURANCE

- A. Perform Work in accordance with City of Cañon City Standards.
- B. Maintain one copy of each document on site.
- C. Perform work to local utility standards when working within 6 inches of utility lines.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

3.1 PREPARATION

- A. Notify affected utility companies before starting work and comply with their requirements.
- B. Mark location of utilities.
- C. Identify required lines, levels, contours, and datum.
- D. Notify utility company to remove and relocate utilities.
- E. Protect utilities indicated to remain from damage.
- F. Protect plant life, lawns, landscaping, driveways, and other features that are to remain.
- G. Protect bench marks, survey control points, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.

3.2 EXCAVATION

- A. Excavate subsoil to accommodate slabs-on-grade, paving, sidewalks, curb and gutter, cross-pans, culvert, drain inlets and construction operations.
- B. Remove old concrete, pavement, and related debris and dispose of in an approved disposal site. Interior sections to be removed shall be saw-cut at sufficient depth at control joints, or where designated, to avoid breaking, disturbing, or chipping adjacent concrete or pavement. Saw-cut, remove, and replace the existing asphalt pavement a minimum of 1-foot from the curb and gutter unless the pavement is determined to be in "sound" condition as determined by the Engineer.
- C. Exposed edges of existing sidewalk shall be ramped as necessary to provide a reasonably safe and accessible walkway if excavation is to be left open for any length of time prior to reconstruction.
- D. Remove all disturbed load bearing soil, which no longer has its original bearing capacity.
- E. Grade top perimeter of excavation to prevent surface water from draining into excavation.
- F. Trim excavation. Remove loose matter.
- G. Remove lumped subsoil, roots, stumps, loose dirt, broken asphalt or concrete, boulders, and large rock.
- H. Notify Engineer of unexpected subsurface conditions.

- I. Correct areas over-excavated with material as directed by Engineer.
- J. Remove excess and unsuitable material from site.
- K. Repair or replace items indicated to remain damaged by excavation.

3.3 FIELD QUALITY CONTROL

- A. Request visual inspection of bearing surfaces by Engineer or Public Works Inspector before installing subsequent work.

3.4 PROTECTION

- A. Prevent displacement or loose soil from falling into excavation; maintain soil stability.
- B. Protect bottom of excavations and soil adjacent to and beneath foundation from freezing.
- C. Protect structures, utilities and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth operations.

END OF SECTION