

- A. **General Statement and Extent of Work-** The City of Flagstaff (City) Cinder Lake Landfill (CLL) is a 343-acre site that accepts municipal solid waste from a 70-mile radius surrounding Flagstaff. Future landfill cells are being planned to accommodate future disposal needs. Sequence-D consists of a 33-acre portion of the site, located on the southern portion of the Facility.

The work to be performed under a proposed contract (Contract) with the City of Flagstaff (City) consists of furnishing all labor, materials, tools, and equipment necessary for the construction of the following phases of work:

- Phase I-Preliminary Construction and Infrastructure

Phase I is herein referred to as the Construction Project. The project site is located at 6770 East Landfill Road Flagstaff, AZ 86004. Project location maps and limits of construction are shown on the construction plans (Drawings).

The work shall be performed in a workmanlike manner, complete and usable as required by the Drawings and these specifications:

Phase I-Preliminary Construction and Infrastructure

The general work in Phase I includes the following major items:

Preliminary Construction

- Clearing and Grubbing
 - Sequence D-Approximately 32 acres of mostly rabbit brush and small diameter (less than 9-in at the base) Ponderosa Pine Trees.
 - One large diameter Juniper Tree (36" base)

Infrastructure

- Construction of a 306,000-gallon lined reservoir
 - Sheet 14 of Drawings
 - Construction area and volumes shown on Table 1 below.
 - Install a reservoir with dimension of 139.5-ft by 89.5-ft with 9-ft high berms with a keyed-in 60-mil HDPE impermeable liner.
 - The Contractor shall be responsible for confirming measurements through the City’s professional surveyor at his own costs.
 - The remaining balance of soil (468 yd³) shall be screened and crushed according to the specifications noted above.

Table 1-Phase I-Reservoir Construction Area and Volumes

Soil Type	Excavation (yd ³)	Embankment (yd ³)
0.4 acres	1,175	918

- Construction of the Sequence D haul road-Approximately 3.5 acres
 - Sheets 25 thru 30 of Drawings
 - Construction area and volumes shown in Table 3 below.
 - The haul road is intended to serve as a secondary access to Sequence D
 - Soil shall be excavated from Sequence D (Phase I-Preliminary Cell).
 - Install one 24-in reinforced concrete pipe (approximately 45 ft) with 1

headwall on each end (total 2 headwalls) and approximately 200-ft² of 2-ft diameter basalt boulders as rip rap on the downstream end. Sixteen ounce per square yard (16-oz/yd²) non-woven filter fabric shall be installed, and anchored prior to laying down riprap.

- Inventory all quantities of soil placement with at least one aerial survey subcontracted through the City’s professional surveyor at the City’s expense.

Table 2-Phase I-Sequence D haul road Construction Area and Volumes

Sequence D haul road Construction Area	Excavation (yd³)	Embankment (yd³)
4 acres	175	10,555

The Contractor shall maintain Sequence D and the inbound/outbound haul roads with application and maintenance of dust suppressant (water) per the existing CLL Air Quality Permit. If water proves not to be an effective measure, the Contractor may be required to use an ADEQ approved dust palliative shall applied be in conformance with MAG Section 230 or approved equal.

- Construction of the Preliminary Cell in Sequence D
 - Volume and handling Specifications
 - The total excavation quantity for the Preliminary Cell is 35,000 yd³.
 - Excavated soil less than 36-in diameter (36-in minus) shall be screened and crushed to a diameter of 3-in minus.
 - The product shall be used primarily for the construction of the Cell D Haul Road (approximately 10,555-yd³ fill). The remaining balance of 3-in minus soil (approximately 24,445-yd³) shall be used to fill portions of the Phase I cell to the design elevation(s).
 - Logistics
 - Within Phase I, the Contractor shall excavate to within 6-in of the design elevations on a 25-ft grid. Elevations will be surveyed with regularly scheduled aerial surveys. Subsequently, the Contractor and Project Manager will adjust the volumes accordingly throughout the project.
 - While the Preliminary Cell is being prepared, the crushed soil can be placed in the Phase I Stockpile (northeast of the site). The Phase I Stockpiles can accommodate up to 31,000-yd³ of crushed material.
 - Subsequent to excavation of the Preliminary cell, the Phase II Stockpiles will be sited in the central portion of Sequence D (Sheet 3 of the Drawings). The potential volumes of the stockpiles are as follows:
 - North Pile-69,000-yd³
 - South Pile-66,000-yd³
 - The Contractor shall inventory all quantities of soil placement with at least one aerial survey subcontracted through the City’s professional surveyor at the City’s expense.