

# MEASUREMENT AND PAYMENT

## Deep Canyon Trailhead

**Item No. 1 : Mobilization:** The amount bid or identified in a schedule of values for Mobilization shall not exceed 10% of the total contract bid amount. The following payment schedule percentages shall be based on amount bid or identified in a schedule of values for Mobilization up to a maximum of 10% of the total contract bid. Any portion of the mobilization bid amount which exceeds 10% of the total contract bid amount, will be paid to the Contractor after final acceptance of the Work, with the last mobilization payment. (See “overage amount” in the payment schedule table below). Partial payments for Mobilization will be made in accordance with the payment schedule table below.

MOBILIZATION PAYMENT SCHEDULE

Payment	Amount	When Paid
1ST	25% of mobilization	With first partial payment after 3% of the original contract amount earned by the Contractor.
2ND	25% of mobilization	When amount earned by Contractor is 10% of the original contract price.
3RD	25% of mobilization	When amount earned by Contractor is 50% of the original contract price.
4TH (last)	25% of mobilization + “overage amount”	When project is complete and accepted.

**Item No. 2 : SWPPP and NOI:** Measured by lump sum. Payment covers the Contractor in providing and maintaining a storm water pollution prevention plan as outlined by the State of Utah DEQ. Visit <https://deq.utah.gov> for the required steps for preparing and maintaining the SWPPP, and to view guidelines, examples, templates, BMP specifications, etc. The CONTRACTOR will be listed as an operator along with the OWNER. Payment also covers all erosion control that is not listed as separate bid items, which includes; construction fencing, Inlet protection, silt fence or other perimeter controls, inlet clean-out (if necessary), and stabilized roadway entrances.

**Item No. 3 : Construction Survey:** Measured by lump sum. Payment includes all costs incidental with project surveying and staking including mobilization.

**Item No. 4 : Granular Borrow (Plan Quantity):** Measured by tons, the quantity in the Bid Schedule is the quantity for which payment will be made. Payment includes all costs incidental to the placement of granular borrow in its final position including but not limited to labor, providing material, and equipment to provide and install, compact, and grade material as specified. Measurement shall be for material compacted in place in preparation for placement of base course material. An adjustment to the final quantity for payment may be made if an error is discovered in the calculated quantity by either the Owner or the Contractor. Provide all computations and supporting documentation necessary for the Owner to verify the error and determine the final quantity for payment.

**Item No. 5 : Unclassified Excavation (Haul):** Measured by cubic yard, the quantity in the Bid Schedule is the quantity for which payment will be made. Payment includes all costs incidental to unclassified excavation, removal of all items within the proposed roadway area including, but not limited to landscaping, tree roots and stumps, walls and asphalt. Includes the disposal of excavated material. Excavation completed for CONTRACTOR'S benefit or excavation error, dewatering of excavation slough or overbreak is incidental work. For material ordered removed and replaced (authorized extra excavation and backfill), measurement of quantities for payment shall be made to the following pay limits.

- i. Upper limit of excavation is the proposed excavation limit.
- ii. Lower and lateral limits are as authorized by ENGINEER.
- iii. Volumes of open spaces (e.g. manholes, pipes, dipstones, inlets etc.) will not be measured in backfill calculations.

An adjustment to the final quantity for payment may be made if an error is discovered in the calculated quantity by either the Owner or the Contractor. Provide all computations and supporting documentation necessary for the Owner to verify the error and determine the final quantity for payment.

**Item No. 6 : HMA – 1/2”:** Measured by tons. Payment includes all costs, labor, material, and equipment to provide, install and compact incidental to the placement of HMA – 1/2” PG 58-28 in its final position as specified. Includes aggregate, binder, prime coat and tack coat. A maximum of 15% Recycled Asphalt Pavement (RAP) is allowed in the job mix formula. Weigh tickets shall be provided to the Engineer daily. Sub-grade and Base Course shall be compacted, proof rolled prior to installation of asphalt.

**Item No. 7 : Flatwork, 4” Thick:** Measured by square foot. Payment includes all costs incidental to the placement of 4 inch thick concrete flatwork. Includes providing any necessary material and placement of untreated base course and any necessary excavation/fill, necessary hauling and disposal for correct placement of concrete flatwork and untreated base course.

**Item No. 8 : 8’ Waterway:** Measured by square foot. Payment includes all costs incidental to the placement of 8’ wide concrete waterway per APWA standard drawings. Includes providing material and placement of untreated base course and any necessary excavation/fill, necessary hauling and disposal for correct placement of concrete flatwork and untreated base course.

**Item No. 9 : Untreated Base Course (Plan Quantity):** Measured by tons. Payment includes all costs incidental to the placement of untreated base course in its final position including but not limited to labor, material, and equipment to provide and install, compact, and grade base course material as specified. Measurement shall be for material compacted in place. An adjustment to the final quantity for payment may be made if an error is discovered in the calculated quantity by either the Owner or the Contractor. Provide all computations and supporting documentation necessary for the Owner to verify the error and determine the final quantity for payment.

**Item No. 10 : Gravel:** Measured by tons. Payment includes all costs incidental to the placement of gravel (3/4” nominal size) in its final position including but not limited to labor, material, and equipment to provide and install and grade material as specified. Measurement shall be for material compacted in place. An adjustment to the final quantity for payment may be made if an error is discovered in the calculated quantity by either the Owner or the Contractor.

Provide all computations and supporting documentation necessary for the Owner to verify the error and determine the final quantity for payment.

**Item No. 11 : Sign and Post:** Measured by each. Payment includes all work incidental to the installation of a sign and post, including but not limited to providing the sign and mounting hardware.

**Item No. 12 : Pavement Marking Paint:** Measured by lump sum. Payment includes providing all materials and labor. Quantities using wet mil thickness in specifications. Apply pavement marking paint at 20-25 wet mils. Inspector must be present during application to verify wet mil thickness. Markings made without the inspector present, accidental or excess paint will not be paid for.

**Item No. 13 : Bench:** Measured by each. Payment includes all labor, providing materials, and equipment to install bench. Type of bench as defined in the landscaping plan sheets or approved equal. Item includes installation per manufacturer's recommendations and any additional materials required.

**Item No. 14 : Trash Receptacle:** Measured by each. Payment includes all labor, providing materials, and equipment to install trash receptacle. Item includes installation per manufacturer's recommendations and any additional materials required.

**Item No. 15 : Picnic Table:** Measured by each. Payment includes all labor, providing materials, and equipment to install picnic table. Type of picnic table as defined in the landscaping plan sheet or approved equal. Item includes installation per manufacturer's recommendations and any additional materials required.

**Item No. 16 : Vault Toilet:** Measured by each. Payment includes excavation required for vault toilet installation, backfill and grading after installation is complete and coordination with Owner and supplier for a complete installation of the vault toilet. Vault toilet will provided by Owner and installed by supplier.

**Item No. 17 : Trailhead Sign:** Measured by each. Payment includes all labor, providing materials, and equipment to install trailhead sign.

**Item No. 18 : Hitching Post:** Measured by each. Payment includes all labor, providing materials, and equipment to install hitching post. Item includes 2-3/4" dia. 1/4" thick galvanized steel post (installed at 3' high), concrete foundation, and any additional materials required.

**Item No. 19 : Landscape Boulder:** Measured by each. Payment includes all labor, providing materials, and equipment to install landscape boulder.

**Item No. 20 : Hydroseed (Installed):** Measured by lump sum. Payment includes all labor, materials, and equipment to install seeding as shown on the landscaping plans. Installation of this item must occur between October 1<sup>st</sup> and October 31<sup>st</sup>.

**Item No. 21 : 18" ADS Pipe:** Measured by linear foot. Payment covers the cost of providing the size and type of pipe indicated, with installation per APWA Plan No. 381 and surface restoration not identified as separate pay items in the price schedule. Payment includes

excavation and bedding material in the pipe zone. Payment covers the cost of incidental work such as, fittings, couplings, joint lubricants; selective clearing and tree removal; removal and disposal of interfering structures and obstructions; concrete rings, frame and lid as applicable; grout; jackhammer work; trench shoring or trench boxes as applicable; underground line markers; cleaning of invert covers; removal and disposal of waste materials; restoration of all utilities damaged as a result of operations; site dewatering; pipe line cleaning; main repair or replacement if damaged by CONTRACTOR; and similar work to complete the installation of the pipe.

**Item No. 22 : 18” Flared End Section:** Measured by each. Payment includes all labor, providing materials, and equipment to install flared end section.

**Item No. 24 : 21” Orifice Plate with 2.8” Opening:** Measured by each. Payment includes all labor, providing materials, and equipment to install orifice plate.

**Item No. 25 : Riprap:** Measured by cubic yards. Payment includes all costs, providing labor, material, and equipment to install loose-placed riprap (D50=6IN). Includes any necessary excavation and drainage geotextile. Includes Riprap around flared end sections and Emergency overflow.

**Item No. 26 : Model 24F Snout:** Measured by each. Payment includes all labor, providing materials, and equipment to install snout. Item includes a BMP, Inc. drainage snout #24F or approved equal, installed per manufacturer’s recommendations.

**Item No. 27 : 4’x4’ Storm Catch Basin:** Measured by each. Payment covers the cost of providing and installing size and type as necessary for the indicated pipe sizes as shown in the plans and per APWA Plan No. 332. Concrete box, and grate & frame to meet HS-20 loading requirements when located within a vehicular travel path. Work includes delivery, excavation, subgrade preparation, foundation gravel, placement, compaction, bicycle safe grate and frame, backfilling, compaction, and setting the frame to the designated grade, connecting to existing pipe or culvert, and/or new pipe or culvert, and protection of existing utilities and all other work associated with this item. No compensation for restocking fees caused by utility conflicts. The connection to any pipe culvert or other drainage feature will be incidental to construction and no separate payment will be made for this work.

\*\*\* END OF SECTION \*\*\*