

Howard N. Dashiell
DIRECTOR OF TRANSPORTATION

Road Commissioner
County Engineer, RCE 42001
County Surveyor, PLS 7148



FUNCTIONS

Administration & Business Services
Airports
Engineering
Land Improvement
Roads and Bridges
Solid Waste & Landfills
Water Agency

COUNTY OF MENDOCINO
DEPARTMENT OF TRANSPORTATION

340 LAKE MENDOCINO DRIVE
UKIAH, CALIFORNIA 95482-9432
VOICE (707) 463-4363 FAX (707) 463-5474

December 23, 2025

ADDENDUM NO. 1 ACKNOWLEDGEMENT

TO: Plan Holders and Bidders
FROM: Alex Straessle, Engineer II
RE: SOUTH COAST LANDFILL FINAL CLOSURE CONSTRUCTION PROJECT,
DOT CONTRACT NO. 250042

The attached Addendum No. 1 is hereby issued for the subject contract.

PLEASE ATTACH AN EXECUTED COPY OF THIS ADDENDUM NO. 1 ACKNOWLEDGEMENT TO THE CONTRACT PROPOSAL OF BOOK 2, SUBMITTED BY THE BIDDER.

All bidders must acknowledge receipt of Addendum No. 1 with their signature and return to the Department of Transportation with their bid to be considered for award.

If you have any questions, please contact Alex Straessle at (707) 234-2803.

cc: DOT Contract No. 250042

I hereby acknowledge receipt of Addendum No. 1 for South Coast Landfill Final Closure Construction Project, DOT Contract No. 250042 with my signature.

Company Name: _____

Name Printed: _____

Signature: _____

Dated: _____

1. PROJECT MANUAL & CONTRACT DOCUMENTS – BOOK 1, NOTICE TO BIDDERS

All questions must be submitted in writing and received by 12:00pm noon on January 5, 2026.

2. PROJECT MANUAL & CONTRACT DOCUMENTS – BOOK 2, PROPOSAL AND CONTRACT

Add new attachment to Book 2 Proposal and Contract, “Measurement and Payment”, to support the contractors Bid Form, that is attached to this Addendum #1.

3. PROJECT MANUAL & CONTRACT DOCUMENTS – BOOK 3, TECHNICAL SPECIFICATIONS, SECTION 96 GEOSYNTHETICS

Replace Subsection 96-2.02.06 Sand Infill with the following:

96-2.02.06(A) Description

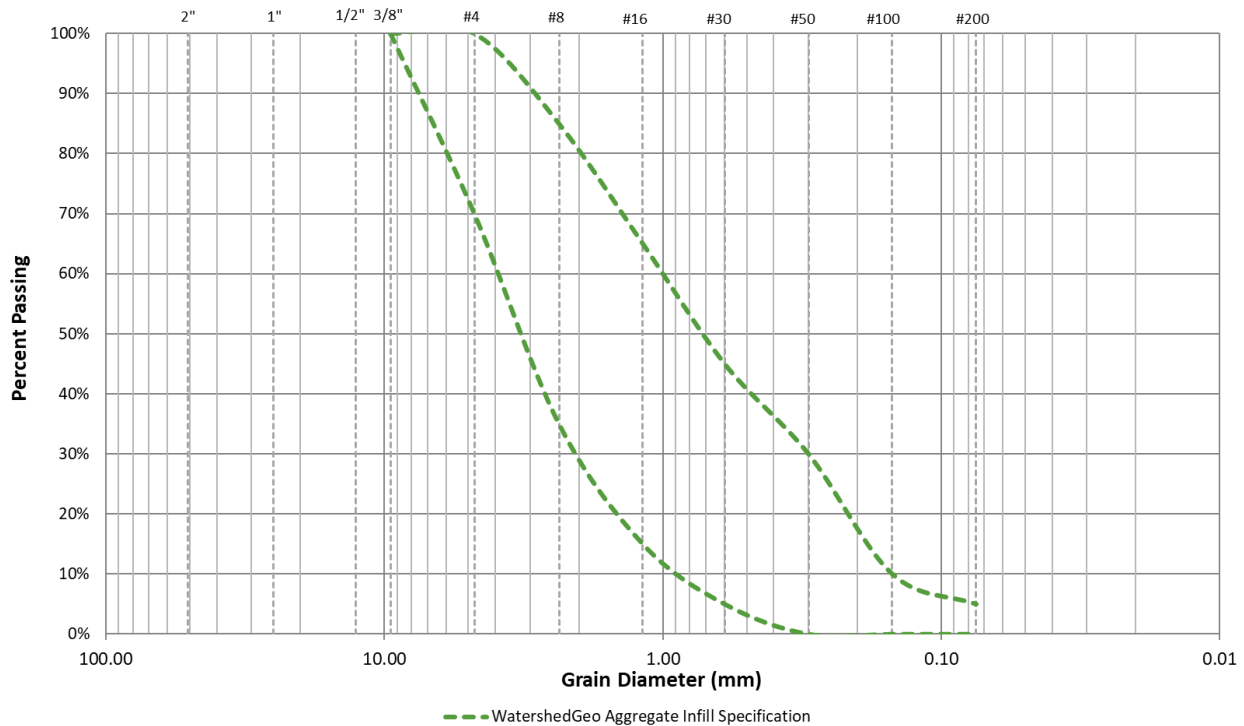
Sand Infill Component of the Closure Turf® System shall meet the fine aggregate angularity, specific gravity, and grain size distribution as specified by WatershedGeo and as described in this Specification.

1. Specified aggregate infill grain size distribution shall be tested in accordance with ASTM C 136 / AASHTO T 27, Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates. . The grain size distribution shall be as prescribed in Table 1 and shown in Figure 1.

Table 1. Specified Aggregate Infill Grain Size Distribution

| | | | | |
|-----|---|-----------------|---|------|
| | | 3/8" (9.5 mm) | ≤ | 100% |
| 70% | ≤ | #4 (4.75 mm) | ≤ | 100% |
| 35% | ≤ | #8 (2.36 mm) | ≤ | 85% |
| 15% | ≤ | #16 (1.18 mm) | ≤ | 65% |
| 5% | ≤ | #30 (0.60 mm) | ≤ | 45% |
| 0 | ≤ | #50 (0.30 mm) | ≤ | 30% |
| 0 | ≤ | #100 (0.15 mm) | ≤ | 10% |
| 0 | ≤ | #200 (0.075 mm) | ≤ | 5% |

2. Fine aggregate angularity shall be tested in accordance with ASTM C 1252 / AASHTO T 304, Standard Test Methods for Uncompacted Void Content of Fine Aggregate (as Influenced by Particle Shape, Surface Texture, and Grading). Method A. Method A uncompacted void content shall be greater than or equal to 40%.
3. Specified aggregate infill specific gravity shall be tested in accordance with ASTM C 128 / AASHTO T 84, Standard Test Method for Relative Density (Specific Gravity) and Absorption of Fine Aggregate. Bulk oven-dry specific gravity shall be greater than or equal to 2.40.



- C. Written certification shall be provided stating that the HydroBinder meets or exceeds the requirements outlined in the project specifications, including:
- i. Cement, except as otherwise specified herein, will be a brand of Portland Cement, meeting the requirements of ASTM C 150 (AASHTO M85) Type I or Type II or meeting the requirements of ASTM C595 (AASHTO M240) Type II, and
 - ii. That the cementitious infill mix shall have a minimum 28-day compressive strength of 5000 psi in accordance with ASTM C 387 as tested in accordance with ASTM C 109.

5. PROJECT MANUAL & CONTRACT DOCUMENTS – BOOK 3, TECHNICAL SPECIFICATIONS, SECTION 96 GEOSYNTHETICS

Replace Tables 96-1 and 96-2 in Section 96 of the Technical Specifications with tables that are attached to this Addendum #1.

6. PROJECT MANUAL & CONTRACT DOCUMENTS – BOOK 3, TECHNICAL SPECIFICATIONS, SECTION 96 GEOSYNTHETICS

Amend anywhere within this section of the technical specifications (and applicable sections of the project documents): Installation of Closure Turf material via the Sewn Seam method will not be permitted.

Remove these Subsection options for turf installation:

96-2.02.01(C) Sewing Equipment/Thread - ClosureTurf

Thread used to sew panels of ClosureTurf together shall be Polyester or equivalent thread with physical and chemical-resistance properties that equal or exceed those of the geotextile. The thread color shall contrast with the ClosureTurf color and shall be approved for use by the ClosureTurf manufacturer.

A single stitch prayer type seam is constructed using an American Newlong sewing machine or equivalent. Sewing will occur between the 1st and 2nd row of tufts from the edge.

96-2.03.02(A) Installation – Engineered Turf – Deployment & Field Seaming Installation – Engineered Turf – Sewn Seam Method

- A single stitch prayer type seam is constructed using an American Newlong sewing machine or equivalent.
- The thread will be Polyester or equivalent.
- Sewing will occur between the 1st and 2nd row of tufts from the edge

7. CONTRACTOR QUESTIONS AND CLAFIRICATIONS

Contractor Questions

1. Is there an Engineers Cost Opinion associated with the Project?

Response: The Engineers Cost Opinion is a range of \$3,900,000 to \$5,275,000.

The County has secured additional funding and anticipates sufficient available budget to meet or exceed the Engineer's Cost Opinion stated above.

2. Will the County post the historic site photo that was presented to the group during the 12.15.25 pre-bid conference?

Response: Yes, the site aerial photo was posted the Mendocino County's website and SWT Engineering's websites. The URLs are copied below:

<https://www.mendocinocounty.gov/Home/Components/RFP/RFP/2437/385>

<https://www.swteng.com/current-projects-bidding>

3. Are the previous Bids posted to the County's website?

Response: Yes, Mendocino County's website hosts previous bids received. The URL is copied below.

<https://www.mendocinocounty.gov/departments/transportation/rfps-rfqs-projects-to-bid>

2023 South Coast Landfill Final Closure Construction Project (found at bottom of webpage)

2022 South Coast Landfill Final Closure Construction Project (found at bottom of webpage)

Clarifications:

1. Stormwater Pollution Control requirements, as described under section 13-101D (6) that the Mendocino County Solid Waste Division will be the permit holder, however the contractor is to provide the required SWPPP and implementation/QSP during the contract. The SWPPP must be prepared for review and approval by the County or their CM/Engineer and uploaded to SMARTS for approval prior to the start of construction activities (not including material procurement or delivery of material to the site).
2. Amend anywhere within the Project Manual to remove the Disadvantaged Business Enterprise (DBE) participation requirement for this project. There is no DBE requirement for this project.

8. ATTACHMENTS

Attachment 1 – Tables 96-1 and 96-2

Attachment 2 – Measurement and Payment

ATTACHMENT 1
TABLES 96-1 AND 96-2

TABLE 96-1

| SUMMARY OF 60 mil Super Gripnet LLDPE GEOMEMBRANE MANUFACTURER'S QUALITY ASSURANCE (MQA) | | | | |
|--|----------------------------|---------------------------|----------------------|----------------------------|
| PHYSICAL PROPERTY | METHOD | UNIT | REQUIREMENT | FREQUENCY |
| Thickness (nominal, min. ave.) Thickness (min. ave.) Thickness (lowest individual – 8 out of 10) Thickness (lowest individual – 10 out of 10) | ASTM D 5994 | mils | 60 57 54 51 | Per Roll |
| Drainage Stud Height (min. ave.) | ASTM D 7466 | mils | 130 | Every 2 nd Roll |
| Spike Height mils (min ave.) | ASTM D 7466 | mils | 175 | Every 2 nd Roll |
| Formulated Density | ASTM D 792 Method B | g./cc. | 0.939 | Every 500,000 square feet |
| Tensile Properties (ave. both directions) ⁽¹⁾ • Break strength– lb/in. (2 in/min) • Break elongation - % | ASTM D 6693 Type IV | lb./in. % (GL=2.0 in.) | 126 300 | Every 50,000 square feet |
| 2% Modulus (max.) | ASTM D 5323 | lb./in. | 3600 | Per formulation |
| Tear Resistance (min. ave.) | ASTM D1004 | lb. | 40 | Every 100,000 square feet |
| Puncture Resistance (min. ave.) | ASTM D 4833 | lb. | 70 | Every 100,000 square feet |
| Carbon black content % | ASTM D 4218 ⁽²⁾ | % | 2.0 to 3.0 | Every 100,000 square feet |
| Carbon black dispersion (Category) | ASTM D 5596 | N/A | Note (3) | Every 100,000 square feet |
| Oxidative Induction Time (OIT) (min. ave.) ⁽⁴⁾ (a) Standard OIT | ASTM D 8117 | min. | 140 | Every 500,000 square feet |
| Oven Aging at 85°C ⁽⁵⁾ (b) High Pressure OIT (min. ave.) % retained after 90 days | ASTM D 5721 ASTM D 5885 | % | 60 | Per formulation |
| UV Resistance ⁽⁶⁾ (b) High Pressure OIT (min. ave.) - % retained after 1600 hrs ⁽⁷⁾ | ASTM D 5885 | % | 35 | Per formulation |

- (1) Machine Direction (MD) and cross machine direction (XMD) average values should be on the basis of 5 test specimens in each direction.
 - Break elongation is calculated using a gage length of 2.0in. at 2.0 in./min.
- (2) Other methods such as D1603 (tube furnace) or D 6370 (TGA) are acceptable if an appropriate correlation to D 4218 (muffle furnace) can be established.
- (3) Carbon black dispersion (only near spherical agglomerates) for 10 different views:
 - 9 in Categories 1 or 2 and 1 in Category 3
- (4) The manufacturer has the option to select either one of the OIT methods listed to evaluate the antioxidant content in the geomembrane.
- (5) It is also recommended to evaluate samples at 30 and 60 days to compare with the 90-day response.
- (6) The condition of the test should be 20 hr. UV cycle at 75°C followed by 4 hr. condensation at 60°C.
- (7) UV resistance is based on percent retained value regardless of the original HP-OIT value.

Table 96-2

| SUMMARY OF Engineered Turf Component (CT) MANUFACTURER'S QUALITY ASSURANCE (MQA) | | | | |
|---|--|----------------------------|---|---|
| PHYSICAL PROPERTY | METHOD | UNIT | REQUIREMENT | FREQUENCY |
| CRB Puncture | ASTMD D 6241 | lb. (MARV) | 1,500 | Every 300,000 square feet |
| Tensile Product Machine Direction (MD) Cross Machine Direction (XMD) | ASTM D 4595 | lb./ft. lb./ft. | 2,100 1,600 | Every 300,000 square feet |
| Rainfall Induced Erosion | ASTM D 6459 | % | 0.1 ⁽¹⁾ | Manufacturers Certification ⁽²⁾ |
| Aerodynamic Evaluation | GTRI Wind Tunnel | lb./sf. of uplift | 0.12 | Manufacturers Certification ⁽²⁾ |
| Engineered Turf Fiber Tuft UV Stability | ASTM G 147 | % | >60 (retained tensile strength) | Manufacturers Certification ⁽²⁾ |
| Backing System UV Stability Index Test (Single Geotextile Fully Exposed) | ASTM G 154 Modified Cycle 1., UVA340 | lb./ft. | 110 (retained tensile strength ⁽³⁾) | Manufacturers Certification ⁽²⁾ |
| Steady State Hydraulic Overtopping | ASTM D 7277 ASTM D 7276 | (Note 4) | (Note 4) | Manufacturers Certification ⁽²⁾ |
| Full Scale Wave Overtopping Test Cumulative Volume | Colorado State University Wave Simulator | cu. ft./ft. | 165,000 | Manufacturers Certification ⁽²⁾ |
| Full Scale Wave Overtopping Test Discharge | Colorado State University Wave Simulator | cu. ft./s./ft. | 4.0 | Manufacturers Certification ⁽²⁾ |
| Internal Friction of Combined Components | ASTM D 5321 | min. deg. | 35 | Manufacturers Certification ⁽²⁾ |
| Sand Infill | ASTM D 6931 | (Note 5) | (Note 5) | One Test every 2,000 tons (min.) |
| Hydrobinder Infill Mix | ASTM C387 ASTM C109 | ft ³ /s/ft | ¾ in. infill, 5,000 psi (at 28 days min.) | One Test every 2,000 tons (min.) |
| Yarn Weight Total Product Weight | ASTM D 5261 | oz./sq. yd. oz./sq. yd. | ≥20 ≥32 (1 yd ² sample size) | Every 300,000 square feet |
| Tensile Strength of Yarn (min.) | ASTM D 2256 | lbs. | 15 | Every 300,000 square feet |

(1) Infill Loss of 0.1% at rainfall intensities of 6 in./hr.

(2) Manufacturers Certification of these test results will be accepted.

(3) Retained tensile strength at 6500 hrs. (projected)

(4) 5 ft. overtopping resulting in 29 ft/s velocity and 8.8 psf. shear stress for manning's N value of 0.02.

(5) Particle Size distribution shall meet the parameters as described in Sand Infill section of the technical specifications.

ATTACHMENT 2
MEASUREMENT AND PAYMENT

**ATTACHEMNT TO SPECIAL PROVISION
MEASUREMENT AND PAYMENT**

Item No. 1 - Mobilization

- A. When 5 percent of the original contract amount is earned, 50 percent of the bid amount for mobilization, or 5 percent of the original contract amount, whichever is lesser, may be paid.
- B. When 10 percent of the original contract amount is earned, 75 percent of the bid amount for mobilization, or 7.55 percent of the original contract amount, whichever is lesser, may be paid.
- C. When 20 percent of the original contract amount is earned, 95 percent of the bid amount for mobilization, or 9.55 percent of the original contract amount, whichever is lesser, may be paid.
- D. When 50 percent of the original contract amount is earned, 100 percent of the bid amount for mobilization, or 10 percent of the original contract amount, whichever is lesser, may be paid.
- E. Upon completion of all work on the project, payment of any bid amount for mobilization in excess of 10 percent of the original contract amount will be paid.

Payment of the lump sum price for mobilization shall constitute full compensation for all labor, materials, equipment, and all other items necessary and incidental to completion of this item of work. The deletion of work or the addition of extra work as provided for herein shall not affect the price for mobilization.

Item No. 2 – Allocation

The intent of this bid item is to provide a budget to cover unforeseen site conditions that will be encountered at an old landfill during closure construction and that warrant additional work. The utilization of funds within this bid item shall be approved by the owner prior to any work being performed.

The Contractor shall provide a rate schedule for all labor (prevailing wage) and equipment (shall not exceed current Caltrans equipment rates) that may reasonably be anticipated for use authorized time-and-materials work during the project. Labor rates shall be consistent with those required by the prevailing wage rate requirements of the contract and shall reflect all benefits and employer costs. Once the labor and equipment rates have been approved by the engineer, they will become the basis for compensation for any Time and Material work requested by the Owner. The Contractor is advised, however, that there will be no compensation from the Time and Material Allocation unless the work has been authorized in writing by the engineer. Additionally, use of the Time and Material Allocation will be at the sole discretion of the Owner. All or any portion of the allocation amount may be deleted from the Contract.

Item No. 3A - Contractor-Supplied Biologist for CEQA Mitigation Requirements

The contract hourly price paid for Contractor Supplied Biologist includes conducting surveys listed in various permit conditions, full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in Contractor Supplied Biologist as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Item No. 3B - Construction Support Tasks – Submittals, Stormwater Compliance

To facilitate progress payments the Contractor shall submit for the approval of the Engineer, a “Schedule of Values” for costs associated with the applicable items reflected in Part 2, Construction Support Tasks. Final acceptance and approval of the cost allocation presented in the “Schedule of Values” will be at the sole discretion of the County. As an alternative, measurement for progress payments may be determined based on the percentage completion of the overall contract work.

Payment of the lump sum price for Construction Support Tasks shall constitute full compensation for all labor, material, equipment and all other items and arrangement necessary and incidental to comply with the requirements of this section and no additional payment shall be allowed.

Item No. 3C - Construction Support Tasks – Offsite Water Acquisition, Transportation, and Storage (as necessary)

Quantities of water at the landfill are not sufficient or unavailable to complete the work. Off-site water acquisition will be required. The Contractor may be required to furnish the Engineer with a water analysis performed by a laboratory acceptable to the Engineer.

Funds to pay for testing, purchasing loading and transporting and storing (as necessary) water from an offsite location to the landfill work will be born of this Bid item.

Bid item includes testing, purchasing, loading and transporting water from an offsite location to the landfill.

Payment of the lump sum price for Construction Support Tasks – Offsite Water Acquisition shall constitute full compensation for all labor, material, equipment, purchasing of water, and all other items and arrangement necessary and incidental to comply with the requirements of this section and no additional payment shall be allowed.

Item No. 4 - Project Survey

Full compensation for all labor, material, and equipment required for project survey as outlined above shall be included in the Contractor’s lump sum price for Survey.

Full compensation for all labor, material, and equipment required for preparation of Record Drawings as outlined above shall be included in the Contractor’s lump sum price for Record Drawings.

To facilitate progress payments, the Contractor may submit, for the review of the Engineer, a Schedule of Values, outlining those items included under the survey item. Approval of the Schedule of Values will be at the sole discretion of the Engineer. Alternately, the lump sum bid price will be paid uniformly, on a monthly basis during the projected life of the Contract

Item No. 5 - Clearing and Grubbing

The contract lump sum price paid for clearing, grubbing, and demolition shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all work involved in clearing, grubbing, and demolition, including all saw cutting and removal of AC pavement; removal or demolition of existing surface and sub-surface drainage improvements, piping, concrete improvements, chain link and litter fencing, and/or other operations incidental and required to complete clearing, grubbing, removal, and or demolition as required to complete the work shown on the Plans, as specified in the Standard Specifications and these Technical Specifications, and as directed by the Engineer

The final pay quantities will be determined by field verification that the work has been completed in accordance with the Plans and these Technical Specifications. Interim progress payments will be based on the Engineers evaluation of the estimated percentage of work completed during the subject period.

Item No. 6 - Refuse Excavation and Reconsolidation

The contract unit price for refuse excavation and reconsolidation shall include full compensation for furnishing all labor, tools, equipment, and incidentals required to excavate and transport waste material to the active area of the landfill, place daily cover material or tarps, and place and compact fill material in the resulting void.

Final pay quantities will be determined by comparing the volumetric difference between the pre-construction topographic survey and the post removal survey performed by the Contractor, or by field measurements approved by the Engineer. Excavation beyond required limits will not be compensated unless previously approved by the Engineer.

The Contractor is advised that the quantity of waste material may vary from that indicated in the bid schedule. Section 4-1.05 B(1) and 4-1.05 B(2) of the Standard Specifications referencing increases/decreases of more the 25-percent are not applicable for this item. The Contractor shall be compensated at the Unit Price, regardless of any increase or decrease in the volume of waste removed.

Item No. 7A - Unclassified Fill/Foundation Fill Soil Material

The Contract unit price per cubic yard for Unclassified Fill/Foundation Fill Soil Material shall include full compensation for all labor, material, and equipment required for excavation, transport, screening, placement, rock picking, and compaction of Unclassified Fills.

Final pay quantities will be paid on a unit price basis. Measurement for payment shall be the actual cubic yardage of material to be placed and compacted based on Foundation Fill Grades and topographic surveys of the placement area. Contractor shall be responsible to meet the gradient and foundation fill thickness indicated below the final cover section as shown on the Drawings, and shall be responsible for placement and compaction of all soil necessary to meet

the Design intent pursuant to Paragraph 1.2.2 Section 2C of the Technical Specifications.

Item No. 7B - Foundation Soil Layer Placement

The contract unit price for Foundation Soil Layer Placement shall include full compensation for all labor, materials, and equipment required to Develop Foundation Layer/Geomembrane Subgrade Surface Preparation (per Technical Specifications) screen, process, transport, moisture condition, place, compact, and finish grade the foundation soil layer in accordance with the Drawings and these Specifications.

Final pay quantities will be based on the actual square footage of foundation soil layer placed in accordance with these specifications, to the limits indicated on the drawings.

Material placed beyond the limits indicated on the drawings will not be compensated, unless those limits have been modified by the Engineer.

Item No. 7C - Unclassified Excavation

The Contract unit price for Unclassified Excavation shall include full compensation for all labor, material, and equipment required for excavating to grade the on-site borrow areas. Processing, screening, moisture conditioning, placement and compaction shall be per Item No. 7B above - Foundation Soil Layer Placement.

Final pay quantities will be based on the actual cubic yardage of material excavated based on before and after topographic surveys of the on-site borrow areas. Work performed outside of these limits will not be compensated unless the work has been authorized by the Engineer.

Item No. 7D - Import Soil Material

The contract price per cubic yard for Import Soil (based on cubic yard delivered per truck load) shall include full compensation for all labor, materials, and equipment required for purchase, loading, hauling/transport, receiving, knock down, stockpiling (if necessary based on operation), as required for the Import Soil in accordance with the Drawings and these Specifications. Processing, screening, moisture conditioning, placement and compaction shall be per Item No. 7B above - Foundation Soil Layer Placement.

Item No. 9A - 60 mil LLDPE Super Grip Net Geomembrane – Slope (Per Detail 1/D1)

The contract unit price paid per square foot for 60 mil LLDPE Geomembrane – Slope shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved with installation of 60 mil LLDPE Geomembrane - Slope, complete and in place, as shown on the Plans, as specified in the Standard Specifications and these Technical Specifications, and as directed by the Engineer/CQA Monitor

Final pay quantities will be determined by verifying the actual surface area, from approved Record Drawings of the 60 mil LLDPE Geomembrane - Slope placed to the limits indicated on the Plans (Overlap at seams and material in the anchor trench will not be measured separately for payment). All transitions are considered to be included in the contractor's unit price. Work performed outside the limits indicated on the Plans, or reflected in the Technical Specifications, will not be compensated unless previously approved by the Engineer/CQA Monitor. Interim

progress payments will be based on the Construction Manager's evaluation of the estimated percentage of work completed during the subject period.

Item No. 9B - 60 mil LLDPE Super Grip Net Geomembrane – Deck (Per Detail 2/D1)

The contract unit price paid per square foot for 60 mil LLDPE Geomembrane - Deck shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved with installation of 60 mil LLDPE Geomembrane - Deck, complete and in place, as shown on the Plans, as specified in the Standard Specifications and these Technical Specifications, and as directed by the Engineer/CQA Monitor

Final pay quantities will be determined by verifying the actual surface area, from approved Record Drawings of the 60 mil LLDPE Geomembrane - Deck placed to the limits indicated on the Plans (Overlap at seams and in anchor trenches will not be measured separately for payment). All transitions are considered to be included in the contractor's unit price. Work performed outside the limits indicated on the Plans, or reflected in the Technical Specifications, will not be compensated unless previously approved by the Engineer/CQA Monitor. Interim progress payments will be based on the Construction Manager's evaluation of the estimated percentage of work completed during the subject period.

Item No. 10 - Bentonite Plug/Edge Drain Outlet Per Detail 7/D1

The contract unit price paid per each Bentonite Plug/Edge Drain Outlet shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in Bentonite Plug/Edge Drain Outlet, complete in place, subgrade preparation, placement/compaction of bentonite plug around HDPE pipe, and other appurtenances as shown on the Plans, as specified in the Standard Specifications and these Technical Specifications, and as directed by the Engineer/CQA Monitor.

Final pay quantities shall be determined from the actual number of Bentonite Plug/Edge Drain Outlets placed as indicated on the Plans.

Item No. 11A - Closure Turf - Slope

The contract unit price for Closure Turf - Slope shall include full compensation for all labor, material, and equipment required to furnish and install the Closure Turf in accordance with the details and notes shown on the Plans, and as indicated in the Technical Specifications, and manufacturer's recommendations.

Final pay quantities shall be determined by computing the actual surface area of Closure Turf placed to the limits indicated on the Plans (Overlap at seams will not be measured for payment). Closure Turf placed beyond those limits will not be compensated unless previously authorized by the Engineer.

Item No. 11B - Closure Turf – Deck

The contract unit price for Closure Turf - Deck shall include full compensation for all labor, material, and equipment required to furnish and install the Closure Turf in accordance with the

details and notes shown on the Plans, and as indicated in the Technical Specifications, and manufacturer's recommendations.

Final pay quantities shall be determined by computing the actual surface area of Closure Turf placed to the limits indicated on the Plans (Overlap at seams will not be measured for payment). Closure Turf placed beyond those limits will not be compensated unless previously authorized by the Engineer.

Item No. 11C - Install Sand In-Fill Per Manufacture's Recommendations (Per Details 1/D1 and 2/D1)

The contract unit price for Sand In-Fill shall include full compensation for all labor, material, and equipment required to furnish and install the Sand In-Fill in accordance with the details and notes shown on the Plans, and as indicated in the Technical Specifications, and manufacturer's recommendations (Sand Infill should be measured for payment under item 11A above). All Costs for the written description of the sand infill deployment method and Sand Infill Application Demonstration Test Areas shall be included in the contract unit price for Sand In-Fill and no separate payment will be made for these items.

Final pay quantities shall be determined by computing the actual surface area of Sand In-Fill per plan. Sand In-Fill placed beyond those limits will not be compensated unless previously authorized by the Engineer.

Item No. 11D - Hydro Binder® Infill

The contract unit price for Hydro Binder® Infill shall include full compensation for all labor, material, and equipment required to furnish and install the Hydro Binder® Infill in accordance with the details and notes shown on the Plans, and as indicated in the Technical Specifications, and manufacturer's recommendations.

Item No. 12A - HDPE Edge Drain Collector – Access Road, Bench, and Slope (Below LLDPE Geomembrane) (Per Details 3/D1, 5/D1, 6D1, 4/D2, and 6/D3)

The contract unit price for HDPE Edge Drain – Access Road (Below LLDPE Geomembrane) shall include full compensation for all labor, material, and equipment required to construct the edge drain collector in accordance with the Contract Documents and manufacturer's recommendations.

All grading, excavation, Edge Drain, Edge Drain Fittings, transitions pipes, fittings, caps, and other appurtenances as shown on the Plans, as specified in the Standard Specifications and these Technical Specifications shall be considered as incidental to completing the Work and shall be included in the Contractor's unit price.

Final pay quantities shall be determined from the approved Record Drawings indicating the actual lineal footage installed to the limits indicated on the Plans. HDPE Edge Drain –Access Road (Below LLDPE Geomembrane) installed beyond those limits will not be compensated unless previously authorized by the Engineer.

Item No. 12B - 4-inch HDPE Pipe SDR 17 with Bentonite Plug at LLDPE Final Cover Limit (Per Detail 7/D1)

The contract unit price for 4-inch HDPE Pipe SDR 17 with Bentonite Plug at LLDPE Final Cover Limit shall include full compensation for all labor, material, and equipment required to construct the outlet in accordance with the Contract Documents and manufacturer's recommendations.

All grading, excavation, bentonite (including placement and hydration), pipes, fittings, caps, and other appurtenances as shown on the plans, as specified in the Standard Specifications and these Technical Specifications shall be considered as incidental to completing the Work and shall be included in the Contractor's unit price.

Final pay quantities shall be determined from the approved Record Drawings indicating the actual lineal footage installed to the limits indicated on the Plans. 4-inch HDPE Pipe SDR 17 with Bentonite Plug at LLDPE Final Cover Limit installed beyond those limits will not be compensated unless previously authorized by the Engineer.

Item No. 12C - Drainage Collector (Per Detail 4/D1)

The contract unit price per linear foot for Drainage Collector shall include full compensation for all labor, material, and equipment required to construct the Drainage Collector in accordance with the Contract Documents and manufacturer's recommendations.

All grading, excavation, drainage collector pipe, drainage collector fittings, transitions, caps, collector gravel, geotextile wrap, and other appurtenances as shown on the Plans, as specified in the Standard Specifications and these Technical Specifications shall be considered as incidental to completing the Work and shall be included in the Contractor's unit price.

Final pay quantities shall be determined from the approved Record Drawings indicating the actual lineal footage installed to the limits indicated on the Plans. Drainage Collector installed beyond those limits will not be compensated unless previously authorized by the Engineer.

Item No. 12D - Extend 4" Solid HDPE Pipe (SDR 17) and Join to Existing Leachate Outfall/Tank

The contract unit price per linear foot for Extend 4" Solid HDPE Pipe shall include full compensation for all labor, material, and equipment required to construct the Extend 4" Solid HDPE Pipe in accordance with the Contract Documents and manufacturer's recommendations.

All grading, excavation, drainage collector pipe, drainage collector fittings, transitions, caps, collector gravel, geotextile wrap, and other appurtenances as shown on the Plans, as specified in the Standard Specifications and these Technical Specifications shall be considered as incidental to completing the Work and shall be included in the Contractor's unit price.

Final pay quantities shall be determined from the approved Record Drawings indicating the actual lineal footage installed to the limits indicated on the Plans. Extension of 4" Solid HDPE Pipe installed beyond those limits will not be compensated unless previously authorized by the Engineer.

Item No. 13A - Protective Soil Cover – Northeast Road

The contract unit price paid per cubic yard for Protective Soil Cover – Northeast Road shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all the work involved in Protective Soil Cover – Northeast Road, including rock picking, raking, and screening as required to meet the material requirements pursuant to Section 2.0 Materials, transport, placement, distribution, grading, and compacting Protective Soil Cover as shown on the Plans, as specified in the Standard Specifications and these Technical Specifications, and as directed by the engineer.

Final pay quantities shall be determined by computing the neat volume of PSC – Northeast Road placed to the limits indicated on the Plans. PSC – Northeast Road placed beyond those limits will not be compensated unless previously authorized by the Engineer.

Item No. 13B - Protective Soil Cover – South and West Road

The contract unit price paid per cubic yard for Protective Soil Cover – South and West Road shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all the work involved in Protective Soil Cover - South and West Road, including rock picking, raking, and screening as required to meet the material requirements pursuant to Section 2.0 Materials, transport, placement, distribution, grading, and compacting Protective Soil Cover as shown on the Plans, as specified in the Standard Specifications and these Technical Specifications, and as directed by the engineer.

Final pay quantities shall be determined by computing neat volume of PSC - South and West Road placed to the limits indicated on the Plans. PSC - South and West Road placed beyond those limits will not be compensated unless previously authorized by the Engineer.

Item No. 13C - Protective Soil Cover – Deck Access Road

The contract unit price paid per cubic yard for Protective Soil Cover – Deck Access Road shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all the work involved in Protective Soil Cover – Deck Access Road, including rock picking, raking, and screening as required to meet the material requirements pursuant to Section 2.0 Materials, transport, placement, distribution, grading, and compacting Protective Soil Cover as shown on the Plans, as specified in the Standard Specifications and these Technical Specifications, and as directed by the engineer.

Final pay quantities shall be determined by computing the neat volume of PSC – Deck Access Road placed to the limits indicated on the Plans. PSC – Deck Access Road placed beyond those limits will not be compensated unless previously authorized by the Engineer.

Item No. 14A - Anchor Trench Excavation with Soil Backfill – (Final Cover Termination Slope - Detail 5/D1; Bench Liner Termination – Detail 6/D3)

The contract price paid per lineal foot for Anchor Trench Excavation with Soil Backfill shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in construction of Anchor Trench Excavation with Soil Backfill, complete in place, including and all excavation, grading, geosynthetic materials and seaming, backfill and compaction, and other appurtenances as shown on the Plans, as specified

in the Standard Specifications and these Technical Specifications, and as directed by the engineer.

Final pay quantities shall be determined by computing the actual lineal footage of Anchor Trench Excavation with Soil Backfill completed to the limits indicated on the Plans (Overlap at seams and material extended into the anchor trench will not be measured separately for payment). Anchor Trench Excavation with Soil Backfill placed beyond those limits will not be compensated unless previously authorized by the Engineer.

Item No. 14B - Anchor Trench Excavation with Concrete Backfill/Rock Placement – (Final Cover Termination Slope - Detail 11/D1; Final Cover Termination South and West Perimeter Road– Detail 4/D2)

The contract price paid per lineal foot for Anchor Trench Excavation with Concrete Backfill/Rock Placement shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in construction of Anchor Trench Excavation with Concrete Backfill/Rock Placement, complete in place, including and all excavation, grading, geosynthetic materials and seaming, backfill and compaction, and other appurtenances as shown on the Plans, as specified in the Standard Specifications and these Technical Specifications, and as directed by the engineer.

Final pay quantities shall be determined by computing the actual lineal footage of Anchor Trench Excavation with Concrete Backfill/Rock Placement completed to the limits indicated on the Plans (Overlap at seams and material extended into the anchor trench will not be measured separately for payment). Anchor Trench Excavation with Concrete Backfill/Rock Placement placed beyond those limits will not be compensated unless previously authorized by the Engineer.

Item No. 15 - Concrete Access Ramp to Basin with Integral Concrete Curb per Caltrans Std. Plan A87A Type A2-6 (Per Detail No. 4/D3)

The contract price paid per square foot for Concrete Access Ramp to Basin with Integral Concrete Curb per Caltrans Std. A87A Type A2-6, shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all the work involved in Concrete Access Ramp to Basin with Integral Concrete Curb per Caltrans Std. A87A Type A2-6, complete in place, including all excavation, grading, forming, reinforcement, concrete, finishing, curing compound tie-ins to existing drainage improvements, and other appurtenances as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the engineer.

Final pay quantities shall be determined from field verification of the actual square footage of Concrete Access Ramp to Basin with Integral Concrete Curb per Caltrans Std. A87A Type A2-6, installed in accordance with the Drawings.

Item No. 16A - Concrete Down Drain Inlet at Storm Water Basin (Per Detail 3/D3)

The contract price paid for Concrete Down drain Inlet at Storm water Basin shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all the

work involved in construction of the Concrete Down Drain Inlet at Storm water Basin, complete in place, including all excavation, construction of fill berm, grading, concrete, concrete cut-off, concrete slope paving through the berm and other appurtenances as required shall be considered as included in the Contractor's unit price.

Final pay quantities shall be determined from field verification of each Down Drain Inlet at Storm Water Basin completed in accordance with the Drawings.

Item No. 16B - Concrete Inlet to Down Drain (Per Detail 7/D3)

The contract price paid for Concrete Inlet to Down Drain shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all the work involved in construction of the Concrete Inlet to Down Drain, complete in place, including all excavation, grading, reinforcing, concrete, concrete cut-off wall at inlet side of structure, finishing, curing compound, and other appurtenances as required shall be considered as included in the Contractor's unit price.

Final pay quantities shall be determined from field verification of each Concrete Inlet to Down Drain completed in accordance with the Drawings.

Item No. 17 - Concrete Down Drain – b=1.0', D=1.5', Z=1 (Per Detail 1/D3)

The contract price paid per square foot for Concrete Down Drain/Trapezoidal Channel shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all the work involved in Concrete Down Drain/Trapezoidal Channel, complete in place, including all excavation, grading, concrete, curing compound, tie-ins to existing drainage improvements, and other appurtenances as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the engineer.

Final pay quantities shall be determined from field verification of the actual square footage of Concrete Down Drain /Trapezoidal Channel installed in accordance with the Drawings.

Item No. 18 - Rip-Rap Pad (Per Detail 1/D2)

The contract price paid per square foot for rip-rap pad shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in rip-rap pad including all excavation, grading, 16-ounce geotextile, rip-rap, and other appurtenances as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the engineer.

Final pay quantities shall be determined from field verification of the actual square footage installed in accordance with the Drawings. Rip-rap pad placed beyond those limits will not be compensated unless previously authorized by the Engineer.

Item No. 19 - Splash Wall – (Per Detail 5/D3)

The contract price paid per linear foot for Splash Wall shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all the work involved in Splash Wall, complete in place, including all excavation, grading, reinforcing steel, concrete footing, masonry, mortar, grout, and other appurtenances as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the engineer.

Final pay quantities shall be determined from field verification of the lineal footage of splash wall installed in accordance with the Drawings.

Item No. 20 - 3-inch AC over Protective Soil Cover Access Road - Compacted to 95% of ASTM D1557 – (Per Details 6/D1, 4/D2, and 9/D1)

The contract price paid per square foot of 3-inch AC over Protective Soil Cover access road shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all the work involved in construction of the 3-inch AC over Protective Soil Cover access road, complete in place, including all finish grading, asphalt concrete, and other appurtenances as required shall be considered as included in the Contractor's unit price.

Final pay quantities shall be determined from field verification of the actual square footage of 3-inch AC over Protective Soil Cover access road completed in accordance with the limits indicated on the Drawings.

Item No. 21 - Type A AC Dike (Per Cal Trans Std. No. A87B)

The contract price paid per linear foot for Type A AC Dike shall include full compensation for furnishing all materials, labor, tools, equipment, and incidentals and for doing all the work involved in Type A AC Dike, complete in place, including all excavation, backfill, grading, Asphalt Concrete and other appurtenances as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the engineer.

Final pay quantities shall be determined from field verification of the lineal footage of Type A AC Dike installed in accordance with the Drawings.

Item No. 22 - Post-Closure Settlement Monument (Per Detail 2/D3)

All grading, concrete, bollards, survey work, and other appurtenances as required, shall be considered as included in the Contractor's unit price.

Final pay quantities shall be determined from field verification that the monuments have been installed in accordance with the Construction Drawings and these specifications.

Item No. 23 - Cable Gate (Per Detail 5/D2)

Cable Gate shall include all excavation, concrete backfill, pipe bollards, concrete infill within pipe, eye bolt (weld nut to pipe), locks, ½” galvanized steel cable, Landfill Closed Sign, and all other operations, equipment, or materials incidental to completing the work as represented by the Drawings and Specifications.

All costs for Cable Gate shall be included in the Unit Price per each Cable Gate Installed.

Item No. 24 - Pipe Bollard (Per Detail 8/6)

Pipe Bollards shall include all excavation, concrete backfill, concrete infill within pipe, and all other operations, equipment, or materials incidental to completing the work as represented by the Drawings and Specifications.

All costs for Pipe Bollards shall be included in the Unit Price per each Pipe Bollard Installed.

Item No. 25 - South Basin Culvert and Spillway (Per Details 5/D4 and 6/D4)

The contract price shall be paid per lump sum for South Basin Culvert and Spillway shall include full for furnishing all labor, tools, equipment, and incidentals and for doing all the work involved in constructing the South Basin Culvert and complete in place, including all excavation, grading, and drawing details, and other fittings and appurtenances as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the engineer.

This bid item also includes:

- All labor, tools, equipment, materials, and incidentals necessary to complete the work as specified;
- Measures to fully comply with all applicable and customary practices required by regulatory agencies or relevant trade standards;
- Installation of CHDPE fittings and joints shall conform to manufacturer's recommendations;
- Supply and placement of 40 LF of 18-inch diameter Corrugated Smooth Interior-Wall HDPE Pipe per plan;
- Supply and placement of necessary pipe fittings and appurtenances;
- Testing as deemed necessary by Contractor for internal purposes and quality control in meeting the requirements of the Contract Documents throughout all work performed;
- Grade Control necessary to accurately place the pipe to designed minimum gradients;
- Installation of the Culvert Energy Dissipator (Approximately 264 SF, 2-foot thick of rock; Approximately 400 SF of RSP Filter Fabric), including all labor, tools, equipment, materials, and incidentals necessary to complete the work as specified;
- Installation of the Rock Channel Lining (Approximately 192 SF, 1-foot-thick of rock), including all labor, tools, equipment, materials, and incidentals necessary to complete the work as specified;
- Installation of the RSP Embankment Protection (Approximately 130 SF, 1-foot-thick of rock; Approximately 302 SF of RSP Filter Fabric), including all labor, tools, equipment, materials, and incidentals necessary to complete the work as specified;

- Includes all incidental materials and services in conjunction and correlation with other applicable bid items in order to properly and sufficiently complete the intent of this work; and
- Final Cleaning and all items required to close out the project for this bid item.

Final pay quantities shall be lump sum in accordance with the Contract Documents and Plans and shall include the items above. Partial payment in accordance with the schedule of values and completed progress of this bid item will be allowed once the Contractor has completed the work for the construction sequence and the work has been approved by the Owner's representative. Thereafter, payment of this bid item will be allowed in accordance with the schedule of values and completed progress for continuous completion of the work throughout the duration of the project.

Item No. 26 - Protection/Adjustment of LFG Monitoring Probe During Final Cover System Installation (Per Details 4/6 and 8/6)

The contract lump sum price paid for Protection Adjustment of LFG Monitoring Probes During Final Cover System Installation shall include all work associated with the Protection/Adjustment.

Final pay quantities shall be determined by field verification that the operation was completed in accordance with these specifications

Item No. 27A - Construct LFG Passive Vertical Well (Per Detail 3/6)

All layout, drilling, 4-inch solid and slotted HDPE SDR 17 pipe, fittings, drilling tip, fusion welding, gravel, backfill and compaction, per these specifications and/or all other operations, equipment, or materials incidental to completing the work as represented by the Drawings and Specifications shall be included in the Contractor's unit price.

Final pay quantities shall be determined by the actual vertical foot of LFG Passive Vertical Well installed. Quantities exceeding beyond the limits indicated on the Drawings will not be compensated, unless the additional work was authorized by the Engineer prior to the work being performed.

Item No. 27B - Pressure Relief Valve (Per Detail 4/D4)

The contract price paid per each Pressure Relief Valve, shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all the work involved in Pressure Relief Valve, complete in place, including all LLDPE Geomembrane, grinding of drainage stud, Extrusion welding to Final Cover Geomembrane, neoprene gasket, stainless steel straps and other appurtenances as shown on the plans (Detail 4/D4), as specified in the Standard Specifications and these Special Provisions, and as directed by the engineer.

Final pay quantities shall be determined from the approved Record Drawings indicating the actual number of Pressure Relief Valves installed.

Item No. 28A - LFG Passive Trench/Collection Gallery/Well/Vent (Per Detail 1/6)

The contract price paid per linear foot for LFG Passive Trench/Well/Vent shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all the work involved in LFG Passive Trench/Well Vent complete in place, including all trenching, geotextile, trench gravel, 4-Inch Slotted and Solid HDPE SDR 17 pipe, fittings, valves, caps, concrete collars and other appurtenances as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the engineer.

Final pay quantities shall be determined from the approved Record Drawings indicating the actual linear footage of LFG Passive Trench/Well/Vent installed – All cost for vents shall be included in the unit price per linear foot of LFG Passive Trench/Collection Gallery.

Item No. 28A - Anchor Trench/LFG Collection Trench (Per Detail 8/D1)

The contract price paid per linear foot for Anchor Trench/LFG Collection Trench shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all the work involved in Anchor Trench/LFG Collection Trench complete in place, including all trenching, geotextile, trench gravel, 4-Inch Slotted and Solid HDPE SDR 17 pipe, fittings, caps, and other appurtenances as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the engineer.

Final pay quantities shall be determined from the approved Record Drawings indicating the actual linear footage of Anchor Trench/LFG Collection Trench installed.

Item No. 28C - LFG/Seep Collector (Per Detail 10/D1)

The contract price paid per linear foot for LFG/Seep Collector shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all the work involved in LFG/Seep Collector complete in place, including all LLDPE Super Grip Net, geotextile, Heat Leistering and other appurtenances as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the engineer.

Final pay quantities shall be determined from the approved Record Drawings indicating the actual linear footage of LFG/Seep Collector installed.

Item No. 29 - LLDPE Skirt and Sleeve (Per Detail 7/6)

The contract price paid per each LLDPE Skirt and Sleeve, shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all the work involved in LLDPE Skirt and Sleeve, complete in place, including all LLDPE Geomembrane, grinding of drainage stud, Extrusion welding to Final Cover Geomembrane, neoprene gasket, stainless steel straps and other appurtenances as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the engineer.

Final pay quantities shall be determined from the approved Record Drawings indicating the actual number of LLDPE Skirt and Sleeves installed.

Item No. 30 - Hydroseeding

The Contract Unit Price for hydroseeding shall include full compensation for all labor, material, and equipment required to complete the hydroseeding as indicated on the Drawing and in accordance with these Specifications, and supplier's recommendations.

Final pay quantities will be determined by field verification of the actual surface area of hydroseed. No additional payment will be made for material placed beyond the limits indicated on the Drawings unless authorized by the Engineer.

Item No. 31 - Fiber Rolls (Per Details 2/D4 and 3/D4)

The Contract Unit Price to furnish and install fiber rolls shall include full compensation for all labor, material, and equipment required to complete the installations as indicated on the Drawing and in accordance with these Specifications.

Final pay quantities will be determined by field verification of the actual lineal footage of fiber rolls installed in accordance with the drawing. No additional payment will be made for material placed beyond the limits indicated on the Drawings unless authorized by the Engineer.

Item No. 32 - Gravel-bag Chevrons (Per Detail 1/D4)

The Contract Unit Price to furnish and install gravel-bag chevrons shall include full compensation for all labor, material, and equipment required to complete the installations as indicated on the Drawing and in accordance with these Specifications.

Final pay quantities will be determined by field verification of the length of gravel-bag chevrons installed in accordance with the drawing. No additional payment will be made for material placed beyond the limits indicated on the Drawings unless authorized by the Engineer.