**Standard Items and Item Descriptions for Geotechnical and Materials firms**

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| --- | --- | --- | --- |
| **Item #** | **Item Description** | **Unit** | **Unit Price** |
| 100 | Aggregate Acid Insol Retained 200 Sieve FM 5-510 | Test |  |
| 101 | Aggregate Carbonates & Organic Matter FM 5-514 | Test |  |
| 102 | Aggregate Org. Impurities S& for Concrete AASHTO T21 | Test |  |
| 103 | Aggregate Shell Content of Coarse Aggregate FM 5-555 | Test |  |
| 104 | Aggregate Sieve Anlsys of Fine & Coarse AASHTO T27 | Test |  |
| 105 | Aggregate Soundness AASHTO T104 | Test |  |
| 106 | Aggregate Specific Gravity/Absorption Coarse AASHTO T85 | Test |  |
| 107 | Aggregate Total Moisture Content by Drying AASHTO T255 | Test |  |
| 108 | Aggregate Unit Mass & Voids AASHTO T19 | Test |  |
| 109 | Aggregate Specific Gravity/Absorption Fine AASHTO T84 | Test |  |
| 200 | Asphalt Bulk Specific Gravity FM 1-T166 | Test |  |
| 201 | Asphalt Content FM 5-563 | Test |  |
| 202 | Asphalt Friction Panel | Test |  |
| 203 | Asphalt Gradation & Content FM 1-T030 & FM 5-563 | Test |  |
| 204 | Asphalt Gradation FM 1-T030 | Test |  |
| 205 | Asphalt Gyratory Compaction 3 Specimens AASHTO T312 | Test |  |
| 206 | Asphalt Los Angeles (LA) Abrasion Coarse Agg FM 3-C535 | Test |  |
| 207 | Asphalt Los Angeles (LA) Abrasion Small Agg FM 1-T096 | Test |  |
| 208 | Asphalt Max Specific Gravity FM 1-T209 | Test |  |
| 209 | Asphalt Pavement Coring - 4in dia with Base Depth Check | Each |  |
| 210 | Asphalt Pvmt. Coring - 4in dia without Base Depth Check | Each |  |
| 211 | Asphalt Pavement Coring - 6in dia with Base Depth Check | Each |  |
| 212 | Asphalt Pvmnt Coring - 6in dia without Base Depth Check | Each |  |
| 213 | Asphalt Structural Panel (See Long Description) | Test |  |
| 300 | Concrete Beam Flexural Testing ASTM C78 | Test |  |
| 301 | Concrete Compressive Strength of Grout\Mortar ASTM C109 | Test |  |
| 302 | Concrete Cylinder Curing, Capping & Breaking ASTM C39 | Test |  |
| 303 | Concrete Drilled Cores & Sawed Beams ASTM C42 | Test |  |
| 304 | Concrete Masonry Unit Sampling & Testing ASTM C140 | Test |  |
| 305 | Concrete Pavement Coring - 4in Dia | Each |  |
| 306 | Concrete Pavement Coring - 6in Dia | Each |  |
| 307 | Concrete Resistivity FM 5-578 | Test |  |
| 400 | Geo 3D Thermal Modeling | Hour |  |
| 401 | Geo Auger Borings-H& & Truck/Mud Bug | LF |  |
| 401Vend | Geo Auger Borings-H& & Truck/Mud Bug | LF |  |
| 401P | Geo Auger Borings-H& & Truck/Mud Bug | LF |  |
| 402 | Geo Auger Borings-Track | LF |  |
| 402Vend | Geo Auger Borings-Track | LF |  |
| 402P | Geo Auger Borings-Track | LF |  |
| 403 | Geo Backhoe (Owned) | Day |  |
| 404 | Geo Backhoe (Rental without labor) | Day |  |
| 405 | Geo Barge (Owned) | Day |  |
| 406 | Geo Barge (Rental without labor) | Day |  |
| 407 | Geo Chainsaw (Owned) | Day |  |
| 408 | Geo Concrete Pad & Cover for Monitoring Wells | Each |  |
| 409 | Geo CPT Truck/Mud Bug 0-50 Ft | LF |  |
| 410 | Geo CPT Truck/Mud Bug 50-100 Ft | LF |  |
| 411 | Geo CPT Truck/Mud Bug 100-150 Ft | LF |  |
| 412 | Geo CPT Truck/Mud Bug 150-200 Ft | LF |  |
| 413 | Geo Crosshole Sonic Logging (CSL)\* | Day | \*See Negotiation Handbook, Attach L for Approved Rate |
| 414 | Geo Dilatometer Sounding | Hour |  |
| 415 | Geo Double Ring Infiltration ASTM D3385 | Each |  |
| 416 | Geo Dozer (Owned) | Day |  |
| 417 | Geo Dozer (Rental without labor) | Day |  |
| 418 | Geo Drill Crew Support Vehicle | Day |  |
| 421 | Geo Dynamic Pile Testing/Pile Driving Analyzer\* | Day | \*See Negotiation Handbook, Attach L for Approved Rate |
| 422 | Geo Extra SPT Samples-Barge/Track/Amphib 0-50 Ft | Each |  |
| 422Vend | Geo Extra SPT Samples-Barge/Track/Amphib 0-50 Ft | Each |  |
| 422P | Geo Extra SPT Samples-Barge/Track/Amphib 0-50 Ft | Each |  |
| 423 | Geo Extra SPT Samples-Barge/Track/Amphib 50-100 Ft | Each |  |
| 423Vend | Geo Extra SPT Samples-Barge/Track/Amphib 50-100 Ft | Each |  |
| 423P | Geo Extra SPT Samples-Barge/Track/Amphib 50-100 Ft | Each |  |
| 424 | Geo Extra SPT Samples-Barge/Track/Amphib 100-150 Ft | Each |  |
| 424Vend | Geo Extra SPT Samples-Barge/Track/Amphib 100-150 Ft | Each |  |
| 424P | Geo Extra SPT Samples-Barge/Track/Amphib 100-150 Ft | Each |  |
| 425 | Geo Extra SPT Samples-Barge/Track/Amphib 150-200 Ft | Each |  |
| 425Vend | Geo Extra SPT Samples-Barge/Track/Amphib 150-200 Ft | Each |  |
| 425P | Geo Extra SPT Samples-Barge/Track/Amphib 150-200 Ft | Each |  |
| 426 | Geo Extra SPT Samples-Barge/Track/Amphib 200-250 Ft | Each |  |
| 426Vend | Geo Extra SPT Samples-Barge/Track/Amphib 200-250 Ft | Each |  |
| 426P | Geo Extra SPT Samples-Barge/Track/Amphib 200-250 Ft | Each |  |
| 427 | Geo Extra SPT Samples-Truck/Mud Bug 0-50 Ft | Each |  |
| 427Vend | Geo Extra SPT Samples-Truck/Mud Bug 0-50 Ft | Each |  |
| 427P | Geo Extra SPT Samples-Truck/Mud Bug 0-50 Ft | Each |  |
| 428 | Geo Extra SPT Samples-Truck/Mud Bug 50-100 Ft | Each |  |
| 428Vend | Geo Extra SPT Samples-Truck/Mud Bug 50-100 Ft | Each |  |
| 428P | Geo Extra SPT Samples-Truck/Mud Bug 50-100 Ft | Each |  |
| 429 | Geo Extra SPT Samples-Truck/Mud Bug 100-150 Ft | Each |  |
| 429Vend | Geo Extra SPT Samples-Truck/Mud Bug 100-150 Ft | Each |  |
| 429P | Geo Extra SPT Samples-Truck/Mud Bug 100-150 Ft | Each |  |
| 430 | Geo Extra SPT Samples-Truck/Mud Bug 150-200 Ft | Each |  |
| 430Vend | Geo Extra SPT Samples-Truck/Mud Bug 150-200 Ft | Each |  |
| 430P | Geo Extra SPT Samples-Truck/Mud Bug 150-200 Ft | Each |  |
| 431 | Geo Extra SPT Samples-Truck/Mud Bug 200-250 Ft | Each |  |
| 431Vend | Geo Extra SPT Samples-Truck/Mud Bug 200-250 Ft | Each |  |
| 431P | Geo Extra SPT Samples-Truck/Mud Bug 200-250 Ft | Each |  |
| 432 | Geo Field Perm 0-10 Ft Open-End Borehole Method | Each |  |
| 432Vend | Geo Field Perm 0-10 Ft Open-End Borehole Method | Each |  |
| 432P | Geo Field Perm 0-10 Ft Open-End Borehole Method | Each |  |
| 433 | Geo Field Perm 10-25Ft Open-End Borehole Method | Each |  |
| 433Vend | Geo Field Perm 10-25Ft Open-End Borehole Method | Each |  |
| 433P | Geo Field Perm 10-25Ft Open-End Borehole Method | Each |  |
| 434 | Geo Ground Penetrating Radar (GPR) | Hour |  |
| 435 | Geo Grout Boreholes- Barge/Track/Amphib 0-50 Ft | LF |  |
| 435Vend | Geo Grout Boreholes- Barge/Track/Amphib 0-50 Ft | LF |  |
| 435P | Geo Grout Boreholes- Barge/Track/Amphib 0-50 Ft | LF |  |
| 436 | Geo Grout Boreholes- Barge/Track/Amphib 50-100 Ft | LF |  |
| 436Vend | Geo Grout Boreholes- Barge/Track/Amphib 50-100 Ft | LF |  |
| 436P | Geo Grout Boreholes- Barge/Track/Amphib 50-100 Ft | LF |  |
| 437 | Geo Grout Boreholes- Barge/Track/Amphib 100-150 Ft | LF |  |
| 437Vend | Geo Grout Boreholes- Barge/Track/Amphib 100-150 Ft | LF |  |
| 437P | Geo Grout Boreholes- Barge/Track/Amphib 100-150 Ft | LF |  |
| 438 | Geo Grout Boreholes- Barge/Track/Amphib 150-200 Ft | LF |  |
| 438Vend | Geo Grout Boreholes- Barge/Track/Amphib 150-200 Ft | LF |  |
| 438P | Geo Grout Boreholes- Barge/Track/Amphib 150-200 Ft | LF |  |
| 439 | Geo Grout Boreholes- Barge/Track/Amphib 200-250 Ft | LF |  |
| 439Vend | Geo Grout Boreholes- Barge/Track/Amphib 200-250 Ft | LF |  |
| 439P | Geo Grout Boreholes- Barge/Track/Amphib 200-250 Ft | LF |  |
| 440 | Geo Grout Boreholes- Truck/Mud Bug 0-50 Ft | LF |  |
| 440Vend | Geo Grout Boreholes- Truck/Mud Bug 0-50 Ft | LF |  |
| 440P | Geo Grout Boreholes- Truck/Mud Bug 0-50 Ft | LF |  |
| 441 | Geo Grout Boreholes- Truck/Mud Bug 50-100 Ft | LF |  |
| 441Vend | Geo Grout Boreholes- Truck/Mud Bug 50-100 Ft | LF |  |
| 441P | Geo Grout Boreholes- Truck/Mud Bug 50-100 Ft | LF |  |
| 442 | Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft | LF |  |
| 442Vend | Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft | LF |  |
| 442P | Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft | LF |  |
| 443 | Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft | LF |  |
| 443Vend | Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft | LF |  |
| 443P | Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft | LF |  |
| 444 | Geo Grout Boreholes- Truck/Mud Bug 200-250 Ft | LF |  |
| 444Vend | Geo Grout Boreholes- Truck/Mud Bug 200-250 Ft | LF |  |
| 444P | Geo Grout Boreholes- Truck/Mud Bug 200-250 Ft | LF |  |
| 445 | Geo Grouted Monitor Well 2in 0-50 Ft | LF |  |
| 446 | Geo H& Auger with DCP (0-50 ft) ASTM D1452 | LF |  |
| 447 | Geo H& Auger with SCP (0-50 ft) ASTM D1453 | LF |  |
| 448 | Geo Mini Shaft Inspection | Hour |  |
| 449 | Geo Noise Monitoring | Hour |  |
| 450 | Geo Piezometer 2in 0-50 Ft | LF |  |
| 451 | Geo Pile Integrity Testing\* | Day | \*See Negotiation Handbook, Attach L for Approved Rate |
| 452 | Geo Rock Coring Brg/Track/Amph 0-50 Ft 4in ID & over | LF |  |
| 452Vend | Geo Rock Coring Brg/Track/Amph 0-50 Ft 4in ID & over | LF |  |
| 452P | Geo Rock Coring Brg/Track/Amph 0-50 Ft 4in ID & over | LF |  |
| 453 | GeoRocCoring Brg/Track/Amp 0-50 Ft les than 4in ID | LF |  |
| 453Vend | GeoRocCoring Brg/Track/Amp 0-50 Ft les than 4in ID | LF |  |
| 453P | GeoRocCoring Brg/Track/Amp 0-50 Ft les than 4in ID | LF |  |
| 454 | GeoRocCoring Brg/Track/Amph 50-100 Ft 4in ID & over | LF |  |
| 454Vend | GeoRocCoring Brg/Track/Amph 50-100 Ft 4in ID & over | LF |  |
| 454P | GeoRocCoring Brg/Track/Amph 50-100 Ft 4in ID & over | LF |  |
| 455 | GeoRocCoring Brg/Track/Amp 50-100Ft les than 4in ID | LF |  |
| 455Vend | GeoRocCoring Brg/Track/Amp 50-100Ft les than 4in ID | LF |  |
| 455P | GeoRocCoring Brg/Track/Amp 50-100Ft les than 4in ID | LF |  |
| 456 | GeoRocCoring Brg/Track/Amph 100-150 Ft 4in ID & over | LF |  |
| 456Vend | GeoRocCoring Brg/Track/Amph 100-150 Ft 4in ID & over | LF |  |
| 456P | GeoRocCoring Brg/Track/Amph 100-150 Ft 4in ID & over | LF |  |
| 457 | GeoRocCoring Brg/Track/Amp 100-150Ft les than 4in ID | LF |  |
| 457Vend | GeoRocCoring Brg/Track/Amp 100-150Ft les than 4in ID | LF |  |
| 457P | GeoRocCoring Brg/Track/Amp 100-150Ft les than 4in ID | LF |  |
| 458 | GeoRocCoring Brg/Track/Amph 150-200 Ft 4in ID & over | LF |  |
| 458Vend | GeoRocCoring Brg/Track/Amph 150-200 Ft 4in ID & over | LF |  |
| 458P | GeoRocCoring Brg/Track/Amph 150-200 Ft 4in ID & over | LF |  |
| 459 | GeoRocCoring Brg/Track/Amp 150-200Ft les than 4in ID | LF |  |
| 459Vend | GeoRocCoring Brg/Track/Amp 150-200Ft les than 4in ID | LF |  |
| 459P | GeoRocCoring Brg/Track/Amp 150-200Ft les than 4in ID | LF |  |
| 460 | GeoRocCoring Brg/Track/Amph 200-250 Ft 4in ID & over | LF |  |
| 460Vend | GeoRocCoring Brg/Track/Amph 200-250 Ft 4in ID & over | LF |  |
| 460P | GeoRocCoring Brg/Track/Amph 200-250 Ft 4in ID & over | LF |  |
| 461 | GeoRocCoring Brg/Track/Amp 200-250Ft les than 4in ID | LF |  |
| 461Vend | GeoRocCoring Brg/Track/Amp 200-250Ft les than 4in ID | LF |  |
| 461P | GeoRocCoring Brg/Track/Amp 200-250Ft les than 4in ID | LF |  |
| 462 | Geo Rock Coring Truck/Mud Bug 0-50 Ft 4in ID & over | LF |  |
| 462Vend | Geo Rock Coring Truck/Mud Bug 0-50 Ft 4in ID & over | LF |  |
| 462P | Geo Rock Coring Truck/Mud Bug 0-50 Ft 4in ID & over | LF |  |
| 463 | GeoRocCoring Truck/MudBug 0-50 Ft less than 4in ID | LF |  |
| 463Vend | GeoRocCoring Truck/MudBug 0-50 Ft less than 4in ID | LF |  |
| 463P | GeoRocCoring Truck/MudBug 0-50 Ft less than 4in ID | LF |  |
| 464 | Geo Rock Coring Truck/Mud Bug 50-100 Ft 4in ID over | LF |  |
| 464Vend | Geo Rock Coring Truck/Mud Bug 50-100 Ft 4in ID over | LF |  |
| 464P | Geo Rock Coring Truck/Mud Bug 50-100 Ft 4in ID over | LF |  |
| 465 | GeoRocCoring Truck/MudBug 50-100 Ft les than 4in ID | LF |  |
| 465Vend | GeoRocCoring Truck/MudBug 50-100 Ft les than 4in ID | LF |  |
| 465P | GeoRocCoring Truck/MudBug 50-100 Ft les than 4in ID | LF |  |
| 466 | GeoRocCoring Truck/MudBug 100-150 Ft 4in ID & over | LF |  |
| 466Vend | GeoRocCoring Truck/MudBug 100-150 Ft 4in ID & over | LF |  |
| 466P | GeoRocCoring Truck/MudBug 100-150 Ft 4in ID & over | LF |  |
| 467 | GeoRocCoring Truck/MudBug 100-150 Ft les than 4in ID | LF |  |
| 467Vend | GeoRocCoring Truck/MudBug 100-150 Ft les than 4in ID | LF |  |
| 467P | GeoRocCoring Truck/MudBug 100-150 Ft les than 4in ID | LF |  |
| 468 | GeoRocCoring Truck/MudBug 150-200 Ft 4in ID & over | LF |  |
| 468Vend | GeoRocCoring Truck/MudBug 150-200 Ft 4in ID & over | LF |  |
| 468P | GeoRocCoring Truck/MudBug 150-200 Ft 4in ID & over | LF |  |
| 469 | GeoRocCoring Truck/MudBug 150-200 Ft les than 4in ID | LF |  |
| 469Vend | GeoRocCoring Truck/MudBug 150-200 Ft les than 4in ID | LF |  |
| 469P | GeoRocCoring Truck/MudBug 150-200 Ft les than 4in ID | LF |  |
| 470 | GeoRocCoring Truck/MudBug 200-250 Ft 4in ID & over | LF |  |
| 470Vend | GeoRocCoring Truck/MudBug 200-250 Ft 4in ID & over | LF |  |
| 470P | GeoRocCoring Truck/MudBug 200-250 Ft 4in ID & over | LF |  |
| 471 | GeoRocCoring Truck/MudBug 200-250 Ft les than 4in ID | LF |  |
| 471Vend | GeoRocCoring Truck/MudBug 200-250 Ft les than 4in ID | LF |  |
| 471P | GeoRocCoring Truck/MudBug 200-250 Ft les than 4in ID | LF |  |
| 472 | Geo Saximeter Testing | Hour |  |
| 473 | Geo SPT Barge/Track/Amphib 0-50 Ft | LF |  |
| 473Vend | Geo SPT Barge/Track/Amphib 0-50 Ft | LF |  |
| 473P | Geo SPT Barge/Track/Amphib 0-50 Ft | LF |  |
| 474 | Geo SPT Barge/Track/Amphib 50-100 Ft | LF |  |
| 474Vend | Geo SPT Barge/Track/Amphib 50-100 Ft | LF |  |
| 474P | Geo SPT Barge/Track/Amphib 50-100 Ft | LF |  |
| 475 | Geo SPT Barge/Track/Amphib 100-150 Ft | LF |  |
| 475Vend | Geo SPT Barge/Track/Amphib 100-150 Ft | LF |  |
| 475P | Geo SPT Barge/Track/Amphib 100-150 Ft | LF |  |
| 476 | Geo SPT Barge/Track/Amphib 150-200 Ft | LF |  |
| 476Vend | Geo SPT Barge/Track/Amphib 150-200 Ft | LF |  |
| 476P | Geo SPT Barge/Track/Amphib 150-200 Ft | LF |  |
| 477 | Geo SPT Barge/Track/Amphib 200-250 Ft | LF |  |
| 477Vend | Geo SPT Barge/Track/Amphib 200-250 Ft | LF |  |
| 477P | Geo SPT Barge/Track/Amphib 200-250 Ft | LF |  |
| 478 | Geo SPT Truck/Mud Bug 0-50 Ft | LF |  |
| 478Vend | Geo SPT Truck/Mud Bug 0-50 Ft | LF |  |
| 478P | Geo SPT Truck/Mud Bug 0-50 Ft | LF |  |
| 479 | Geo SPT Truck/Mud Bug 50-100 Ft | LF |  |
| 479Vend | Geo SPT Truck/Mud Bug 50-100 Ft | LF |  |
| 479P | Geo SPT Truck/Mud Bug 50-100 Ft | LF |  |
| 480 | Geo SPT Truck/Mud Bug 100-150 Ft | LF |  |
| 480Vend | Geo SPT Truck/Mud Bug 100-150 Ft | LF |  |
| 480P | Geo SPT Truck/Mud Bug 100-150 Ft | LF |  |
| 481 | Geo SPT Truck/Mud Bug 150-200 Ft | LF |  |
| 481Vend | Geo SPT Truck/Mud Bug 150-200 Ft | LF |  |
| 481P | Geo SPT Truck/Mud Bug 150-200 Ft | LF |  |
| 482 | Geo SPT Truck/Mud Bug 200-250 Ft | LF |  |
| 482Vend | Geo SPT Truck/Mud Bug 200-250 Ft | LF |  |
| 482P | Geo SPT Truck/Mud Bug 200-250 Ft | LF |  |
| 483 | Geo Temp Casing 3in Barge/Track/Amphib 0-50 Ft | LF |  |
| 483Vend | Geo Temp Casing 3in Barge/Track/Amphib 0-50 Ft | LF |  |
| 483P | Geo Temp Casing 3in Barge/Track/Amphib 0-50 Ft | LF |  |
| 484 | Geo Temp Casing 3in Barge/Track/Amphib 50-100 Ft | LF |  |
| 484Vend | Geo Temp Casing 3in Barge/Track/Amphib 50-100 Ft | LF |  |
| 484P | Geo Temp Casing 3in Barge/Track/Amphib 50-100 Ft | LF |  |
| 485 | Geo Temp Casing 3in Barge/Track/Amphib 100-150 Ft | LF |  |
| 485Vend | Geo Temp Casing 3in Barge/Track/Amphib 100-150 Ft | LF |  |
| 485P | Geo Temp Casing 3in Barge/Track/Amphib 100-150 Ft | LF |  |
| 486 | Geo Temp Casing 3in Barge/Track/Amphib 150-200 Ft | LF |  |
| 486Vend | Geo Temp Casing 3in Barge/Track/Amphib 150-200 Ft | LF |  |
| 486P | Geo Temp Casing 3in Barge/Track/Amphib 150-200 Ft | LF |  |
| 487 | Geo Temp Casing 3in Barge/Track/Amphib 200-250 Ft | LF |  |
| 487Vend | Geo Temp Casing 3in Barge/Track/Amphib 200-250 Ft | LF |  |
| 487P | Geo Temp Casing 3in Barge/Track/Amphib 200-250 Ft | LF |  |
| 488 | Geo Temp Casing 3in Truck/Mud Bug 0-50 Ft | LF |  |
| 488Vend | Geo Temp Casing 3in Truck/Mud Bug 0-50 Ft | LF |  |
| 488P | Geo Temp Casing 3in Truck/Mud Bug 0-50 Ft | LF |  |
| 489 | Geo Temp Casing 3in Truck/Mud Bug 50-100 Ft | LF |  |
| 489Vend | Geo Temp Casing 3in Truck/Mud Bug 50-100 Ft | LF |  |
| 489P | Geo Temp Casing 3in Truck/Mud Bug 50-100 Ft | LF |  |
| 490 | Geo Temp Casing 3in Truck/Mud Bug 100-150 Ft | LF |  |
| 490Vend | Geo Temp Casing 3in Truck/Mud Bug 100-150 Ft | LF |  |
| 490P | Geo Temp Casing 3in Truck/Mud Bug 100-150 Ft | LF |  |
| 491 | Geo Temp Casing 3in Truck/Mud Bug 150-200 Ft | LF |  |
| 491Vend | Geo Temp Casing 3in Truck/Mud Bug 150-200 Ft | LF |  |
| 491P | Geo Temp Casing 3in Truck/Mud Bug 150-200 Ft | LF |  |
| 492 | Geo Temp Casing 3in Truck/Mud Bug 200-250 Ft | LF |  |
| 492Vend | Geo Temp Casing 3in Truck/Mud Bug 200-250 Ft | LF |  |
| 492P | Geo Temp Casing 3in Truck/Mud Bug 200-250 Ft | LF |  |
| 493 | Geo Temp Casing 4in Barge/Track/Amphib 0-50 Ft | LF |  |
| 493Vend | Geo Temp Casing 4in Barge/Track/Amphib 0-50 Ft | LF |  |
| 493P | Geo Temp Casing 4in Barge/Track/Amphib 0-50 Ft | LF |  |
| 494 | Geo Temp Casing 4in Barge/Track/Amphib 50-100 Ft | LF |  |
| 494Vend | Geo Temp Casing 4in Barge/Track/Amphib 50-100 Ft | LF |  |
| 494P | Geo Temp Casing 4in Barge/Track/Amphib 50-100 Ft | LF |  |
| 495 | Geo Temp Casing 4in Barge/Track/Amphib 100-150 Ft | LF |  |
| 495Vend | Geo Temp Casing 4in Barge/Track/Amphib 100-150 Ft | LF |  |
| 495P | Geo Temp Casing 4in Barge/Track/Amphib 100-150 Ft | LF |  |
| 496 | Geo Temp Casing 4in Barge/Track/Amphib 150-200 Ft | LF |  |
| 496Vend | Geo Temp Casing 4in Barge/Track/Amphib 150-200 Ft | LF |  |
| 496P | Geo Temp Casing 4in Barge/Track/Amphib 150-200 Ft | LF |  |
| 497 | Geo Temp Casing 4in Barge/Track/Amphib 200-250 Ft | LF |  |
| 497Vend | Geo Temp Casing 4in Barge/Track/Amphib 200-250 Ft | LF |  |
| 497P | Geo Temp Casing 4in Barge/Track/Amphib 200-250 Ft | LF |  |
| 498 | Geo Temp Casing 4in Truck/Mud Bug 0-50 Ft | LF |  |
| 498Vend | Geo Temp Casing 4in Truck/Mud Bug 0-50 Ft | LF |  |
| 498P | Geo Temp Casing 4in Truck/Mud Bug 0-50 Ft | LF |  |
| 499 | Geo Temp Casing 4in Truck/Mud Bug 50-100 Ft | LF |  |
| 499Vend | Geo Temp Casing 4in Truck/Mud Bug 50-100 Ft | LF |  |
| 499P | Geo Temp Casing 4in Truck/Mud Bug 50-100 Ft | LF |  |
| 500 | Geo Temp Casing 4in Truck/Mud Bug 100-150 Ft | LF |  |
| 500Vend | Geo Temp Casing 4in Truck/Mud Bug 100-150 Ft | LF |  |
| 500P | Geo Temp Casing 4in Truck/Mud Bug 100-150 Ft | LF |  |
| 501 | Geo Temp Casing 4in Truck/Mud Bug 150-200 Ft | LF |  |
| 501Vend | Geo Temp Casing 4in Truck/Mud Bug 150-200 Ft | LF |  |
| 501P | Geo Temp Casing 4in Truck/Mud Bug 150-200 Ft | LF |  |
| 502 | Geo Temp Casing 4in Truck/Mud Bug 200-250 Ft | LF |  |
| 502Vend | Geo Temp Casing 4in Truck/Mud Bug 200-250 Ft | LF |  |
| 502P | Geo Temp Casing 4in Truck/Mud Bug 200-250 Ft | LF |  |
| 503 | Geo Temp Casing 6in Barge/Track/Amphib 150-200 Ft | LF |  |
| 503Vend | Geo Temp Casing 6in Barge/Track/Amphib 150-200 Ft | LF |  |
| 503P | Geo Temp Casing 6in Barge/Track/Amphib 150-200 Ft | LF |  |
| 504 | Geo Temp Casing 6in Barge/Track/Amphib 200-250 Ft | LF |  |
| 504Vend | Geo Temp Casing 6in Barge/Track/Amphib 200-250 Ft | LF |  |
| 504P | Geo Temp Casing 6in Barge/Track/Amphib 200-250 Ft | LF |  |
| 505 | Geo Temp Casing 6in Barge/Track/Amphib 0-50 Ft | LF |  |
| 505Vend | Geo Temp Casing 6in Barge/Track/Amphib 0-50 Ft | LF |  |
| 505P | Geo Temp Casing 6in Barge/Track/Amphib 0-50 Ft | LF |  |
| 506 | Geo Temp Casing 6in Barge/Track/Amphib 50-100 Ft | LF |  |
| 506Vend | Geo Temp Casing 6in Barge/Track/Amphib 50-100 Ft | LF |  |
| 506P | Geo Temp Casing 6in Barge/Track/Amphib 50-100 Ft | LF |  |
| 507 | Geo Temp Casing 6in Barge/Track/Amphib 100-150 Ft | LF |  |
| 507Vend | Geo Temp Casing 6in Barge/Track/Amphib 100-150 Ft | LF |  |
| 507P | Geo Temp Casing 6in Barge/Track/Amphib 100-150 Ft | LF |  |
| 508 | Geo Temp Casing 6in Truck/Mud Bug 0-50 Ft | LF |  |
| 508Vend | Geo Temp Casing 6in Truck/Mud Bug 0-50 Ft | LF |  |
| 508P | Geo Temp Casing 6in Truck/Mud Bug 0-50 Ft | LF |  |
| 509 | Geo Temp Casing 6in Truck/Mud Bug 50-100 Ft | LF |  |
| 509Vend | Geo Temp Casing 6in Truck/Mud Bug 50-100 Ft | LF |  |
| 509P | Geo Temp Casing 6in Truck/Mud Bug 50-100 Ft | LF |  |
| 510 | Geo Temp Casing 6in Truck/Mud Bug 100-150 Ft | LF |  |
| 510Vend | Geo Temp Casing 6in Truck/Mud Bug 100-150 Ft | LF |  |
| 510P | Geo Temp Casing 6in Truck/Mud Bug 100-150 Ft | LF |  |
| 511 | Geo Temp Casing 6in Truck/Mud Bug 150-200 Ft | LF |  |
| 511Vend | Geo Temp Casing 6in Truck/Mud Bug 150-200 Ft | LF |  |
| 511P | Geo Temp Casing 6in Truck/Mud Bug 150-200 Ft | LF |  |
| 512 | Geo Temp Casing 6in Truck/Mud Bug 200-250 Ft | LF |  |
| 512Vend | Geo Temp Casing 6in Truck/Mud Bug 200-250 Ft | LF |  |
| 512P | Geo Temp Casing 6in Truck/Mud Bug 200-250 Ft | LF |  |
| 513 | Geo Thermal Integrity Tester (TI)\* | Day | \*See Negotiation Handbook, Attach L for Approved Rate |
| 514 | Geo Truck/Mud Bug Mobil (30 miles straightline distance) | Each |  |
| 515 | Geo Undisturbed Samples Barge/Track/Amphib 0-50 Ft | Each |  |
| 515Vend | Geo Undisturbed Samples Barge/Track/Amphib 0-50 Ft | Each |  |
| 515P | Geo Undisturbed Samples Barge/Track/Amphib 0-50 Ft | Each |  |
| 516 | Geo Undisturbed Samples Barge/Track/Amphib 50-100Ft | Each |  |
| 516Vend | Geo Undisturbed Samples Barge/Track/Amphib 50-100Ft | Each |  |
| 516P | Geo Undisturbed Samples Barge/Track/Amphib 50-100Ft | Each |  |
| 517 | Geo Undisturbed Samples Brg/Track/Amph 100-150 Ft | Each |  |
| 517Vend | Geo Undisturbed Samples Brg/Track/Amph 100-150 Ft | Each |  |
| 517P | Geo Undisturbed Samples Brg/Track/Amph 100-150 Ft | Each |  |
| 518 | Geo Undisturbed Samples Brg/Track/Amph 150-200 Ft | Each |  |
| 518Vend | Geo Undisturbed Samples Brg/Track/Amph 150-200 Ft | Each |  |
| 518P | Geo Undisturbed Samples Brg/Track/Amph 150-200 Ft | Each |  |
| 519 | Geo Undisturbed Samples Truck/Mud Bug 0-50 Ft | Each |  |
| 519Vend | Geo Undisturbed Samples Truck/Mud Bug 0-50 Ft | Each |  |
| 519P | Geo Undisturbed Samples Truck/Mud Bug 0-50 Ft | Each |  |
| 520 | Geo Undisturbed Samples Truck/Mud Bug 50-100 Ft | Each |  |
| 520Vend | Geo Undisturbed Samples Truck/Mud Bug 50-100 Ft | Each |  |
| 520P | Geo Undisturbed Samples Truck/Mud Bug 50-100 Ft | Each |  |
| 521 | Geo Undisturbed Samples Truck/Mud Bug 100-150 Ft | Each |  |
| 521Vend | Geo Undisturbed Samples Truck/Mud Bug 100-150 Ft | Each |  |
| 521P | Geo Undisturbed Samples Truck/Mud Bug 100-150 Ft | Each |  |
| 522 | Geo Undisturbed Samples Truck/Mud Bug 150-200 Ft | Each |  |
| 522Vend | Geo Undisturbed Samples Truck/Mud Bug 150-200 Ft | Each |  |
| 522P | Geo Undisturbed Samples Truck/Mud Bug 150-200 Ft | Each |  |
| 523 | Geo Noise Monitoring\* | Day | \*See Negotiation Handbook, Attach L for Approved Rate |
| 524 | Geo Vibration Monitoring\* | Day | \*See Negotiation Handbook, Attach L for Approved Rate |
| 525 | Geo Well Development | Hour |  |
| 526 | Geo Dynamic Pile Testing/Embedded Data Collector\* | Day | \*See Negotiation Handbook, Attach L for Approved Rate |
| 527 | Goble Pile Check (GPC) Dynamic Load Testing\* | Day | \*See Negotiation Handbook, Attach L for Approved Rate |
| 528 | Embedded Data Collector Data Acquisition Viewer | Each |  |
| 531 | Geo Truck/Mudbug Drill Rig and Crew (2-person) | Hour |  |
| 531Vend | Geo Truck/Mudbug Drill Rig and Crew (2-person) | Hour |  |
| 531P | Geo Truck/Mudbug Drill Rig and Crew (2-person) | Hour |  |
| 532 | Geo Truck/Mudbug Drill Rig and Crew (3-person) | Hour |  |
| 532Vend | Geo Truck/Mudbug Drill Rig and Crew (3-person) | Hour |  |
| 532P | Geo Truck/Mudbug Drill Rig and Crew (3-person) | Hour |  |
| 533 | Geo Track/Barge Drill Rig and Crew (2-person)  | Hour |  |
| 533Vend | Geo Track/Barge Drill Rig and Crew (2-person)  | Hour |  |
| 533P | Geo Track/Barge Drill Rig and Crew (2-person)  | Hour |  |
| 534 | Geo Track/Barge Drill Rig and Crew (3-person)  | Hour |  |
| 534Vend | Geo Track/Barge Drill Rig and Crew (3-person) | Hour |  |
| 534P | Geo Track/Barge Drill Rig and Crew (3-person)  | Hour |  |
| 535 | Geo Clearing Equip- Tractor, Bush Hog Attachment | Day |  |
| 536 | Geo Clearing Equip-Skid Steer/ASV, ForestMulching Attach | Day |  |
| 537 | Geo Clearing Equip-Skid Steer/ASV, Brush Cutter Attach | Day |  |
| 538 | Geo Clearing Equipment | Day |  |
| 539 | Geo Wash Boring, 0-50 Ft | LF |  |
| 540 | Geo Wash Boring, 50-100 Ft | LF |  |
| 541 | Geo Wash Boring, 100-150 Ft | LF |  |
| 542 | Geo Wash Boring, 150-200 Ft | LF |  |
| 543 | Geo Wash Boring, 200-250 Ft | LF |  |
| 544 | Falling Weight Deflectometer (FWD)\* | Day |  |
| 600 | Mobilization - Crosshole Sonic Logging (CSL) Equipment | Each |  |
| 601 | Mobilization - Tugboat | Each |  |
| 602 | Mobilization - Vibration Monitoring Equipment | Each |  |
| 603 | Mobilization Asphalt Coring Equipment | Each |  |
| 604 | Mob Barge Large w/o Crane (permit required) | Each |  |
| 605 | Mob Barge Small w/o Crane (permit not required) | Each |  |
| 606 | Mobilization Concrete Coring | Each |  |
| 607 | Mobilization Cone Penetrometer Test Rig | Each |  |
| 608 | Mobilization Drill Rig Amphibious | Each |  |
| 609 | Mobilization Drill Rig Barge Mount | Each |  |
| 610 | Mobilization Drill Rig Track Mount | Each |  |
| 611 | Mobilization Drill Rig Trailer Mount | Each |  |
| 612 | Mobilization Drill Rig Truck Mount | Each |  |
| 613 | Mobilization Mini-Shaft Inspection Device | Each |  |
| 614 | Mobilization Mudbug/All Terrain Vehicle | Each |  |
| 617 | Mobilization Skid Rig | Each |  |
| 618 | Mobilization Support Boat | Each |  |
| 619 | Mobilization Tri-Pod | Each |  |
| 620 | Mobilization of Clearing Equipment | Each |  |
| 621 | Mob Barge Large w/ Crane (permit required) | Each |  |
| 622 | Mob Barge Small w/ Crane (permit not required) | Each |  |
| 700 | MOT Arrow Board | Each |  |
| 701 | MOT Attenuator Truck | Hour |  |
| 702 | MOT Channelizing Devices - Type I, II, VP, Drum (each) | Each |  |
| 703 | MOT Light Tower | Each |  |
| 704 | MOT Portable Changeable Message Sign (PCMS) | Each |  |
| 705 | MOT Portable Lighting | Each |  |
| 706 | MOT Portable Sign | Each |  |
| 707 | MOT Post Mounted Sign | Each |  |
| 708 | MOT Provide Channelizing Devices - Cone | Each |  |
| 709 | MOT Radar Speed Display Unit (RDSU) | Each |  |
| 710 | MOT Shadow Vhcle w/ Adv. Warning Arrow & Attenuator | Hour |  |
| 711 | MOT Shadow Vhcle w/ Advanced Warning Arrow Board (AWA) | Hour |  |
| 712 | MOT Support Vehicle | Hour |  |
| 800 | Soils Chloride Soil or Water FM 5-552 | Test |  |
| 801 | Soils Consol-Addtl Incrmnts AASHTO T216 (13 to 24 Loads) | Each |  |
| 802 | Soils Consol-Addtl Incrmnts AASHTO T216 (up to 12 Loads) | Each |  |
| 803 | Soils Consolidation - Constant Strain ASTM D4186 | Test |  |
| 804 | Soils Consol-Extend Load Incrmnts AASHTO T216 | Day |  |
| 805 | Soils Corrosion Series FM 5-550 through 5-553 | Test |  |
| 806 | Soils Direct Shear Consolid Drained/ Point FM 3-D3080 | Test |  |
| 807 | Soils Field Vane Shear Test ASTM D2573 | Test |  |
| 808 | Soils Flexible Wall Permeability ASTM D5084 | Test |  |
| 809 | Soils Hydrometer Only AASHTO T88 | Test |  |
| 810 | Soils Limerock Bearing Ratio (LBR) FM 5-515 | Test |  |
| 811 | Soils Liquid Limit AASHTO T89 | Test |  |
| 812 | Soils Materials Finer than 200 Sieve FM 1-T011 | Test |  |
| 813 | Soils Maximum Density ASTM D4254 | Test |  |
| 814 | Soils Miniature Vane Shear Test ASTM D4648 | Test |  |
| 815 | Soils Minimum Density ASTM D4253 | Test |  |
| 817 | Soils Moisture Content Laboratory AASHTO T265 | Test |  |
| 818 | Soils Moisture Content Microwave AASHTO D4643 | Test |  |
| 819 | Soils Organic Content Ignition FM 1 T-267 | Test |  |
| 820 | Soils Organic Content Wet Combustion AASHTO T194 | Test |  |
| 821 | Soils Particle Size Anlys AASHTO T88 (Incl. Hydrometer) | Test |  |
| 822 | Soils Particle Size Anlys AASHTO T88 (No Hydrometer) | Test |  |
| 823 | Soils Permeability Constant Head AASHTO T215 | Test |  |
| 824 | Soils Permeability Falling Head FM 5-513 | Test |  |
| 825 | Soils pH Soil or Water FM 5-550 | Test |  |
| 826 | Soils Plastic Limit & Plasticity Index AASHTO T90 | Test |  |
| 827 | Soils Proctor Modified FM 1-T180 | Test |  |
| 828 | Soils Proctor Standard AASHTO T99 | Test |  |
| 829 | Soils Resistivity Soil or Water FM 5-551 | Test |  |
| 830 | Soils Shrinkage Factor AASHTO T92 | Test |  |
| 831 | Soils Specific Gravity AASHTO T100 | Test |  |
| 832 | Soils Split Tensile Strgth of Rock Cores ASTM D3967 | Test |  |
| 833 | Soils Sulfate Soil or Water FM 5-553 | Test |  |
| 834 | Soils Swell Potential ASTM D4546 | Test |  |
| 835 | Soils Triaxl Consl-Drain (CD) Per Point\Cell ASTM D7181 | Test |  |
| 836 | Soils Tri Cnsl-Undrn (CU) Pt\Cell AASHTO T297/ASTM D4767 | Test |  |
| 837 | Soil Tri Uncsl-Undrn (UU) Pt\Cell AASHTO T296/ASTM D2850 | Test |  |
| 838 | Soils Unconfined Compression - Rock ASTM D7012, Method C | Test |  |
| 839 | Soils Unconfined Compress - Soil AASHTO T208/ASTM D2166 | Test |  |
| \*Pay items with a rate in the “Approved Rate” column have been supported by a CO Procurement Office detailed review and analysis of actual costs. The “Approved Rate” shall be used on all contracts that require the asterisked pay items. |