



VEGETATION WITHIN THE ACTIVE AREAS OF RECYCLING OPERATIONS CONSIST OF GRASSES AND HERBS. NO SHRUBS OR TREES PRESENTLY LIE WITHIN THE AREA OF DISTURBANCE.

**SUMMARY OF EARTHWORK**

CUT	13,294 CY
FILL	13,717 CY
NET FILL	423 CY

QUANTITIES SUMMARIZED ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL INDEPENDENTLY VERIFY EARTHWORK QUANTITIES AS PART OF BIDDING THE GRADING WORK SHOWN ON THE DESIGN PLANS.

NOTE: DURING CONSTRUCTION AND UNTIL FINAL STABILIZATION, OPENINGS IN PERFORATED PLATE SHALL BE BLOCKED WITH 1" PLYWOOD TO ALLOW FOR SEDIMENT STORAGE.

**GRADING & EROSION CONTROL BMP PHASING**

BMP	PHASE
IP, SSA	INITIAL
IP, CWA	INTERIM
SM	INTERIM / FINAL

**EROSION CONTROL LEGEND**

- LIMITS OF CONSTRUCTION & DISTURBANCE
- PROPERTY LINE
- SM SEEDING & MULCHING
- VTC VEHICLE TRACKING CONTROL
- IP INLET PROTECTION
- CWA CONCRETE WASHOUT AREA
- SSA STABILIZED STAGING AREA
- SB SEDIMENT BASIN
- SF SILT FENCE
- FLOODZONE X
- FLOODZONE AE
- DRAINAGE FLOW PATH
- EXISTING CONTOUR
- PROPOSED CONTOUR

LIMIT OF EMBANKMENT COMPACTION PER GEOTECHNICAL EVALUATION

12" THICK CLASS 6 AGGREGATE BASE COURSE. PROPERLY COMPACTED NATIVE SUBGRADE OR UNDISTURBED EARTH. MAINTENANCE ACCESS TRAIL.

**PROJECT SPECIFIC GRADING AND EROSION CONTROL NOTES**

1. All earthwork required for this construction shall be completed in accordance with all applicable sections of the Project Specifications and Soil Investigation Report (Geotechnical Report).
2. Rubbish including timber, concrete rubble, trees, brush, and asphalt shall not be backfilled adjacent to any of the structures or be in the placement of any unclassified fill. The Contractor shall be responsible for the removal and hauling of such materials to a suitable spoil area. Costs associated with the removal of such materials shall be paid for as documented in the Project Specifications.
3. Excess excavation shall become the property of the Contractor and shall be disposed of at the Contractor's expense. The cost of haulage and spoiling of excess excavated materials shall be paid for as documented in the Project Specifications.
4. Water shall be used as a dust palliative as required and shall be included in the cost for earthwork item(s). No separate payment will be made for dust control associated with the site construction.
5. The road grades shall be cleared of vegetation and the topsoil stockpiled for later use.
6. All grading shall be in conformance with "Subsurface Investigation, 1755 East Las Vegas, Colorado Springs, Colorado", prepared by Entech Engineering, April 2019, Revised December 2019.
7. Placement of fill for roadway embankments shall be completed in conformance with the Geotechnical Report.
8. Grading contours shown on this plan are to final grade.
9. Compaction under filled areas, including roadway and detention basin embankments, shall be 95 percent of the maximum Standard Proctor Density (ASTM D698) at two (2) percent of optimum moisture content.
10. No rubble or debris shall be placed in the backfill under any of the proposed buildings, streets, curb & gutter, sidewalk and drainage structures or within five (5) feet of a building footprint. Properly graded rubble may be used in some locations as specified and verified by the Geotechnical Engineer.
11. Contractor is responsible for reviewing the site prior to bidding to verify site conditions.
12. Contractor is responsible for providing erosion control measures as approved by the El Paso County PCD Engineering Division and as may be required by the El Paso County Inspector.
13. All slopes equal to or greater than 3:1 shall require anchored soil retention blanket (SRB), Geocoir 700 or equal.
14. The Developer is responsible for maintaining erosion control measures until a mature stage of vegetation is established.
15. All soils used for fill must be approved by a representative of the Geotechnical Engineer.
16. All natural ground to receive fill must be properly scarified, watered and compacted prior to placing fill.
17. The Contractor is solely responsible for the design, maintenance and operation of any required dewatering system. The Contractor shall perform such independent investigation as he deems necessary to satisfy himself as to the subsurface groundwater conditions and unstable soil conditions to be encountered throughout the construction. Contractor shall coordinate the dewatering system with El Paso County when associated with public facilities.
18. No fill shall be placed, spread or rolled while it is frozen, thawing or during unfavorable weather conditions. When the work is interrupted by heavy rain, fill operations shall not be resumed until a representative of the Geotechnical Engineer indicates that the moisture content and density of the previously placed fill are as specified. Fill surfaces may be scarified and recompacted after rainfall if necessary, to obtain proper moisture density relation.
19. Additional erosion control structures and/or grading may be required at the time of construction.
20. Sediment removal for erosion control facilities shall be performed continuously for proper function.
21. Base mapping was provided by LDC, Inc, date Sept. 2018.
22. Proposed Construction Schedule:  
Begin Construction: April 1, 2020  
End Construction: January, 2021  
Total Site Area = 44.8 Acres
23. Area to be disturbed = 15.5 Acres (est.)  
Existing 100-year runoff coefficient = 0.65  
Proposed 100-year runoff coefficient = 0.65  
Existing Hydrologic Soil Groups: A/B  
(B Ustic Torrifluents)
24. Site is currently developed and covered with native grasses on moderate to steep slopes (2%-4%).
25. Site is located in the Spring Creek Drainage Basin.

**LEGEND**

<span style="background-color: #cccccc; width: 20px; height: 10px; display: inline-block;"></span>	CONCRETE PAVEMENT
<span style="background-color: #ffcc99; width: 20px; height: 10px; display: inline-block;"></span>	6" THICK RECYCLED ASPHALT

PLATE SHALL BE BLOCKED WITH 1" PLYWOOD TO ALLOW FOR SEDIMENT STORAGE.

SCALE: 1"=80'

Celebrating 30 years

# KIOWA

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## ROCKY TOP RESOURCES

### GRADING & EROSION CONTROL PLAN INITIAL & INTERIM PHASES

TRACT 7 VALLEY GARDEN SUBDIVISION  
1755 EAST LAS VEGAS STREET  
COLORADO SPRINGS, COLORADO

Project No.:	17066
Date:	2/2020
Design:	RNW
Drawn:	EAK
Check:	RNW
Revisions:	