ACCEPTED for FILE Engineering Review

01/18/2022 3:18:16 PM dsdnijkamp EPC Planning & Community Development Department

APPENDIX 9

Glen at Widefield Filing No. 11 - SWMP Amendment

PCD File No. SF204

Glen at Widefield Filing No. 11 SWMP Amendment

An Objective of the Stormwater Management Plan (SWMP) is to function as a living document which can be updated and modified to suit current conditions over the life of a project's improvements. For this purpose, an amendment is provided herein to address improvements specific to Filing No. 11.

Checklist Items are carried forward below from the EPC 'STORMWATER MANAGEMENT PLAN CHECKLIST' to clarify impacts related to Filing No 11:

1. STORMWATER MANAGEMENT PLAN (SWMP)

- 5. EDB for Basin 'D' is planned for construction (with Filing 10) ahead of this project. The EDB will be updated with 2 presedimentation forebays, and the outlet plates at the outlet structure will be modified to accommodate Filing 11 Development. The limits of the filing are reflected on Sheet 22. There is no additional phasing planned.
- 6. Construction Schedule is indicated on the Filing 11 SWMP Exhibit. The anticipated date of Final Stabilization is expected to be Spring 2022.
- 7. Estimates of Disturbance and Limits for Filing 11 are reflected on SWMP Exhibit.
- 9. Ground Cover is mostly-bare ground based on physical inspection. Most of the site is in an overlot graded condition.
- 12. Spill Prevention will be provided in the event batch plants are used.
- 13. Spoils Areas are identified on Sheet 22 for Filing 11 improvements.
- 16. There are No Stream Crossings within Filing 11.
- 17. Construction Site Boundaries for Filing No. 11 are provided with this amendment.
- 17d. Areas of Cut and Fill for Filing 11 Improvements are reflected on the SWMP Map
- 17e. Refer to SWMP Map for waste and spoils location(s).
- 17f. There are no asphalt batch plants planned for this project.
- 17i. There are no streams or wetlands impacted by this development.
- 18. Structural Controls for Filing 11 consist of surface flow captured within new curb and gutter along with new crosspan conveyance which release to a storm pipe collection network that releases into EDB 'D'. The EDB is updated and modified with this Filing from existing condition.
- 21. SWMP Updating is accomplished by the inclusion of individual appendices for each filing which provide a summary of relevant declarations along with a SWMP Plan Map

Exhibit. This exhibit is provided as a basis for procedure, and is intended to be updateable if/when site conditions require changes (i.e. Filing 10 was Appendix 8, and Filing 11 will be Appendix 9).

2. ADDITIONAL REPORTS/PERMITS/DOCUMENTS

a) Appendix 9 has been added to this current and active SWMP to reflect Filing No 11 Specific Information (See SWMP Exhibit for Filing No. 11 & Sheet 22 of Construction Drawings as part of this addendum's Appendix).

Operations and Maintenance Manual For

Extended Detention Basin

The Glen at Widefield Filing No. 11 Colorado Springs, Colorado

Prepared for:

Glen Development Company c/o Widefield Investment Group 3 Widefield Boulevard Colorado Springs, CO 80911 Phone: (719) 392-0194

Prepared by:



1604 South 21st Street Colorado Springs, Colorado 80904 (719) 630-7342

Kiowa Project No. 19016

January 2020

Extended Detention Basin

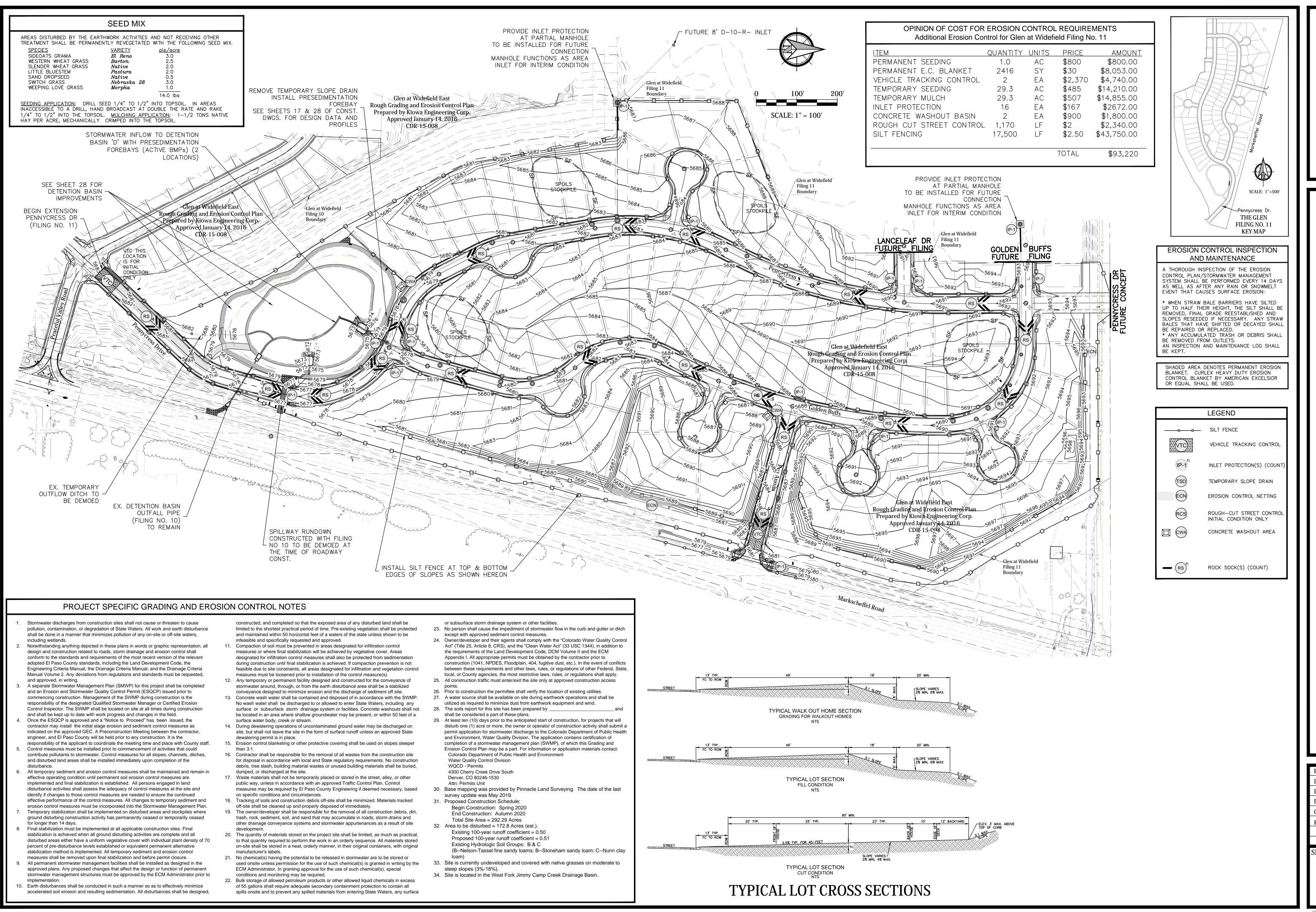
Maintenance Recommendations

An Extended Detention Basin (EDB) is a sedimentation basin designed to totally empty out sometime after stormwater runoff ends. Compared to a flood control detention basin, the extended basin uses a much smaller outlet that extends the emptying time for the more frequently occurring runoff events to facilitate pollutant removal. The basins are considered to be "dry" because they are designed not to have a significant permanent pool of water remaining between storm runoff events. However, EDBs may develop wetland vegetation and sometimes shallow pools in the bottom portions of the facilities.

Extended detention basins have low to moderate maintenance requirements. Routine and nonroutine maintenance is necessary to assure performance, enhance aesthetics, and protect structural integrity. The dry basins can result in nuisance complaints if not properly designed or maintained. Bio-degradable pesticides may be required to limit insect problems. Frequent debris removal and grass-mowing can reduce aesthetic complaints. If a shallow wetland or marshy area is included, mosquito breeding and nuisance odors could occur if the water becomes stagnant. Access to critical elements of the pond (inlet, outlet, spillway, and sediment collection areas) must be provided. The basic elements of the maintenance requirements are presented in Table EDB-1.

Table EDB-1Extended Detention Basin Maintenance Considerations

Required Action	Maintenance Objective	Frequency of Action
Mowing	Occasional mowing to limit unwanted Vegetation. Maintain irrigated turf grass As 2 to 4 inches tall and nonirrigated native Turf grasses at 4 to 6 inches.	Routine – Depending on aesthetic requirements.
Debris and litter removal	Remove debris and litter from the entire Pond to minimize outlet clogging and And improve aesthetics. Outlet structure Trash racks should be clear of any blockage.	Routine – including just before annual storm seasons (that is, April and May) and Following significant rainfall Events.
Erosion and sediment control	Repair and revegetate eroded areas on slopes.	Nonroutine – Periodic and Repair as necessary based on Inspection.
Structural	Repair pond inlets, outlets, forebays, Low flow channel liners, and energy Dissipators whenever damage is discovered.	Nonroutine- Repair as needed based on regular inspections.
Inspections	Inspect basins to insure that the basin Continues to function as initially intended. Examine the outlet for clogging, erosion, Slumping, excessive sedimentation Levels, overgrowth, embankment and Spillway integrity, and damage to any Structural element.	Routine – Annual inspection Hydraulic and structural facilities. Also check for obvious problems during routine maintenance visits, especially for plugging of Outlets.
Nuisance control	Address odor, insects, and overgrowth Issues associated with stagnant or Standing water in the bottom zone.	Nonroutine- Handle as necessary per inspection Or local complaints.



Engineering Corporation



SLEN AT WIDEFIELD NO. 11
Strading & Erosion Control Plan
Sverall
St. PASO, COUNTY, COLORADO

Project No.: 19016

Date: Dec 31, 2020

Design: MJK

Drawn: MJK

Check: AWMc

Revisions:

22

19016-GW11-22-EC.dwg/Jan 06, 2



Memorandum

To: El Paso County

From: Kiowa Engineering

Date: 01-07-2020

Project: The Glen Filing No 11.

Subject: SWMP Checklist – Summarized as Appendix

The checklist items specific to Filing 11 have been declared in summary form and included into a new Appendix Addendum (Appendix 9) to continue forward with the existing permit acquired with Filing No 7.

Please refer to the SWMP Appendix 9 for values related to Filing 11.