

# Drainage Report - Final\_V2.pdf Markup Summary

## Architect (2)



**Subject:** Architect  
**Page Label:** 14  
**Author:** EPC Stormwater - Glenn Reese  
**Date:** 12/13/2021 9:40:42 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

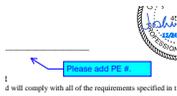
The drainage into the existing detention pond will increase but will be mitigated using a grass swale.



**Subject:** Architect  
**Page Label:** 15  
**Author:** EPC Stormwater - Glenn Reese  
**Date:** 12/13/2021 9:41:03 AM  
**Status:**  
**Color:** ■  
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**Space:**

The existing detention pond is lined with rip rap and has some vegetation, so stormwater will be lost to infiltration and will not be discharged from the pond.

## Callout (2)



**Subject:** Callout  
**Page Label:** 5  
**Author:** lpackman  
**Date:** 12/15/2021 9:14:09 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Please add PE #.



**Subject:** Callout  
**Page Label:** 45  
**Author:** lpackman  
**Date:** 12/16/2021 4:17:51 PM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Please sign across seal.

## Contractor (7)



**Subject:** Contractor  
**Page Label:** 13  
**Author:** EPC Stormwater - Glenn Reese  
**Date:** 12/13/2021 9:40:14 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Consider doing runoff reduction calcs to see what % of WQCV is infiltrated by grass buffer.



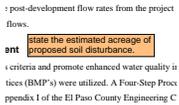
**Subject:** Contractor  
**Page Label:** 13  
**Author:** EPC Stormwater - Glenn Reese  
**Date:** 12/13/2021 9:40:14 AM  
**Status:**  
**Color:** ■  
**Layer:**  
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Note that any green infrastructure that would be used to meet the runoff reduction requirements is required to be in a drainage easement. And a maintenance agreement would also be required.



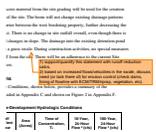
**Subject:** Contractor  
**Page Label:** 13  
**Author:** EPC Stormwater - Glenn Reese  
**Date:** 12/13/2021 9:40:14 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Per Step 3 of the 4-Step Process (ECM Appendix I.7.2, ECM Chap 3.2.5.E, and MS4 Section 4.a.vi.B) - "all applicable development sites must have operational permanent stormwater quality control measures at the completion of construction." Between runoff reduction of the grass buffer/swale, the detention pond, and the retention pond, is it possible to show that the WQCV is being treated? Otherwise you will need to add capabilities on the site to treat the WQCV of the proposed disturbed area.



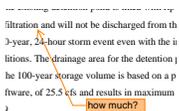
**Subject:** Contractor  
**Page Label:** 13  
**Author:** EPC Stormwater - Glenn Reese  
**Date:** 12/13/2021 9:40:14 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

state the estimated acreage of proposed soil disturbance.



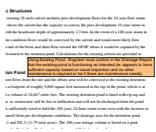
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**Page Label:** 14  
**Author:** EPC Stormwater - Glenn Reese  
**Date:** 12/13/2021 9:40:30 AM  
**Status:**  
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1) support/quantify this statement with runoff reduction calcs.  
 2) based on increased flows/velocities in the swale, discuss need (or lack there of) for erosion control (check dams, lining of flowline with ECM/TRM/riprap, vegetation, etc).



**Subject:** Contractor  
**Page Label:** 15  
**Author:** EPC Stormwater - Glenn Reese  
**Date:** 12/13/2021 9:40:53 AM  
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how much?



**Subject:** Contractor  
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**Author:** EPC Stormwater - Glenn Reese  
**Date:** 12/13/2021 9:40:53 AM  
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Using Existing Pond: Engineer must confirm in the Drainage Report that the existing pond is functioning as intended (ie: appears to have sufficient capacity based on visual inspection and no other maintenance is required or list if there are maintenance needs).

Text Box (2)



**Subject:** Text Box  
**Page Label:** 5  
**Author:** lpackman  
**Date:** 12/15/2021 9:12:34 AM  
**Status:**  
**Color:**    
**Layer:**  
**Space:**

Please replace with the following:

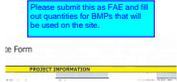
"El Paso County:

Filed in accordance with the requirements of the Drainage Criteria Manual, Volumes 1 and 2, El Paso County Engineering Criteria Manual and Land Development Code as amended.

---

Jennifer Irvine, P.E.  
Date  
County Engineer / ECM Administrator

Conditions: "



**Subject:** Text Box  
**Page Label:** 42  
**Author:** lpackman  
**Date:** 12/16/2021 4:17:16 PM  
**Status:**  
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Please submit this as FAE and fill out quantities for BMPs that will be used on the site.