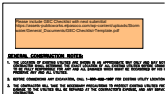


# ENG-SF21021-R1-CD-GEC.pdf Markup Summary

1 (9)



**Subject:** Stormwater Comments Color  
**Page Index:** 1  
**Date:** 7/1/2021 11:56:17 AM  
**Author:** CFurchak  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1



**Subject:** Engineer  
**Page Index:** 1  
**Date:** 7/1/2021 11:56:27 AM  
**Author:** CFurchak  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

Please include GEC Checklist with next submittal  
[https://assets-publicworks.elpasoco.com/wp-content/uploads/Stormwater/General\\_Documents/GEC-Checklist-Template.pdf](https://assets-publicworks.elpasoco.com/wp-content/uploads/Stormwater/General_Documents/GEC-Checklist-Template.pdf)



OR  
L, T,  
SPEC  
LORI

**Subject:** Engineer  
**Page Index:** 1  
**Date:** 7/1/2021 11:59:06 AM  
**Author:** CFurchak  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

replace with text from GEC Checklist Item ii



**Subject:** Engineer  
**Page Index:** 1  
**Date:** 7/1/2021 11:59:38 AM  
**Author:** CFurchak  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

021



**Subject:** Polygon  
**Page Index:** 1  
**Date:** 7/6/2021 12:56:18 PM  
**Author:** CFurchak  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1



**Subject:** EPC ENG Review  
**Page Index:** 1  
**Date:** 7/6/2021 8:21:07 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

**Subject:** Text Box  
**Page Index:** 1  
**Date:** 7/6/2021 8:21:20 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

See comment letter also

See comment letter also

**Subject:** PCD Comment Legend  
**Page Index:** 1  
**Date:** 7/6/2021 8:21:36 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

PCD-ENGINEERING REVIEW COMMENTS  
IN BLUE SQUARES WITH BLUE TEXT

**Subject:** Callout  
**Page Index:** 1  
**Date:** 7/6/2021 9:07:41 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

with watertight joints and Class IV concrete where called out.

CALL OUT WITH WATERTIGHT JOINTS AND CLASS IV CONCRETE WHERE CALLED OUT.  
CALL OUT WITH WATERTIGHT JOINTS AND CLASS IV CONCRETE WHERE CALLED OUT.  
CALL OUT WITH WATERTIGHT JOINTS AND CLASS IV CONCRETE WHERE CALLED OUT.  
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CALL OUT WITH WATERTIGHT JOINTS AND CLASS IV CONCRETE WHERE CALLED OUT.  
CALL OUT WITH WATERTIGHT JOINTS AND CLASS IV CONCRETE WHERE CALLED OUT.

3 (13)



**Subject:** Callout  
**Page Index:** 3  
**Date:** 7/1/2021 11:08:52 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] layout

TRM or permanent lining?

ALL ECB ON  
ED SLOPE


**Subject:**  
**Page Index:** 3  
**Date:** 7/1/2021 11:15:32 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] layout




**Subject:** Callout  
**Page Index:** 3  
**Date:** 7/6/2021 11:12:04 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] layout

Show and label wetlands

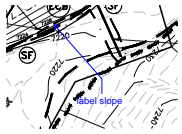
DISTURBANCE  
EX. PUBLIC 60"  
SEWER CULVERT


**Subject:**  
**Page Index:** 3  
**Date:** 7/6/2021 11:13:11 AM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** [1] layout



**Subject:** Callout  
**Page Index:** 3  
**Date:** 7/6/2021 11:13:33 AM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** [1] layout


Private?



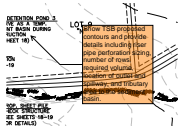
**Subject:** Callout  
**Page Index:** 3  
**Date:** 7/6/2021 11:32:13 AM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** [1] layout


label slope



**Subject:** Engineer  
**Page Index:** 3  
**Date:** 7/6/2021 1:40:21 PM  
**Author:** CFurchak  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** [1] layout


call out drainage easement and provide stormwater flow slopes in easement to determine if stabilization is required.



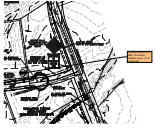
**Subject:** Engineer  
**Page Index:** 3  
**Date:** 7/6/2021 2:59:11 PM  
**Author:** CFurchak  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** [1] layout

Show TSB proposed contours and provide details including riser pipe perforation sizing, number of rows, required volume, location of outlet and spillway, and tributary area to the sediment basin.



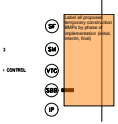
**Subject:** Engineer  
**Page Index:** 3  
**Date:** 7/6/2021 2:05:56 PM  
**Author:** CFurchak  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** [1] layout

Call out drainage easement and provide stormwater flow slopes in easement to determine if stabilization is required.



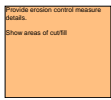
**Subject:** Engineer  
**Page Index:** 3  
**Date:** 7/6/2021 2:57:44 PM  
**Author:** CFurchak  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] layout

Increase frequency of SBB. Should be installed every 1.5' of vertical fall



**Subject:** Engineer  
**Page Index:** 3  
**Date:** 7/6/2021 2:56:00 PM  
**Author:** CFurchak  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] layout

Label all proposed temporary construction BMPs by phase of implementation (initial, interim, final)



**Subject:** Engineer  
**Page Index:** 3  
**Date:** 7/6/2021 3:03:41 PM  
**Author:** CFurchak  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] layout

Provide erosion control measure details.  
 Show areas of cut/fill



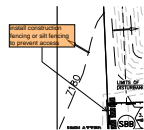
**Subject:** Engineer  
**Page Index:** 3  
**Date:** 7/6/2021 3:06:28 PM  
**Author:** CFurchak  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] layout

add a note about existing vegetation conditions and percent cover.

add a note stating there will be no batch plants onsite.

show staging area, storage areas, stock pile areas onsite.

4 (3)

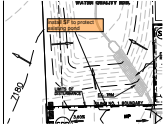


**Subject:** Engineer  
**Page Index:** 4  
**Date:** 7/6/2021 3:00:38 PM  
**Author:** CFurchak  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] layout

install construction fencing or silt fencing to prevent access



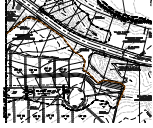
**Subject:** Line  
**Page Index:** 4  
**Date:** 7/6/2021 3:42:50 PM  
**Author:** CFurchak  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] layout



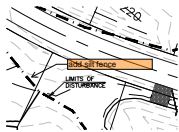
**Subject:** Engineer  
**Page Index:** 4  
**Date:** 7/6/2021 3:03:02 PM  
**Author:** CFurchak  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] layout

install SF to protect existing pond

5 (3)

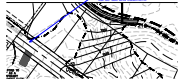


**Subject:** PolyLine  
**Page Index:** 5  
**Date:** 7/6/2021 3:42:56 PM  
**Author:** CFurchak  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] layout



**Subject:** Engineer  
**Page Index:** 5  
**Date:** 7/6/2021 3:43:26 PM  
**Author:** CFurchak  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] layout

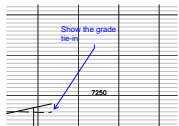
add silt fence



**Subject:** Callout  
**Page Index:** 5  
**Date:** 7/6/2021 7:17:06 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] layout

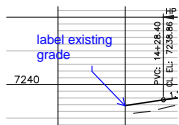
Show the temporary cul-de-sac and easement.

6 (2)



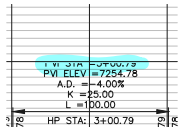
**Subject:** Callout  
**Page Index:** 6  
**Date:** 7/6/2021 7:18:14 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

Show the grade tie-in

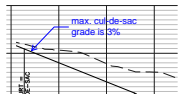


**Subject:** Callout  
**Page Index:** 6  
**Date:** 7/6/2021 7:21:49 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

label existing grade

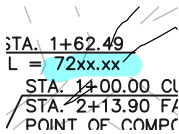


**Subject:**  
**Page Index:** 7  
**Date:** 7/6/2021 7:22:20 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

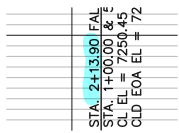


**Subject:** Callout  
**Page Index:** 7  
**Date:** 7/6/2021 7:23:47 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

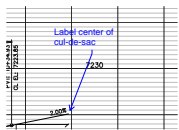
max. cul-de-sac grade is 3%



**Subject:**  
**Page Index:** 7  
**Date:** 7/6/2021 7:25:43 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

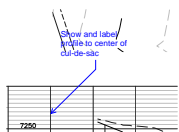


**Subject:**  
**Page Index:** 7  
**Date:** 7/6/2021 7:26:21 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1



**Subject:** Callout  
**Page Index:** 7  
**Date:** 7/6/2021 7:27:46 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

Label center of cul-de-sac



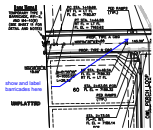
**Subject:** Callout  
**Page Index:** 7  
**Date:** 7/6/2021 7:29:58 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

Show and label profile to center of cul-de-sac



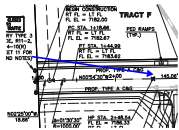
**Subject:** Callout  
**Page Index:** 8  
**Date:** 7/2/2021 2:48:10 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

Add curb chase for overflows from inlets?

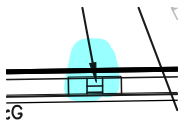


**Subject:** Callout  
**Page Index:** 8  
**Date:** 7/2/2021 2:48:54 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

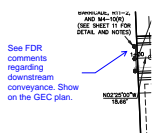
show and label barricades here



**Subject:** Arrow  
**Page Index:** 8  
**Date:** 7/2/2021 2:49:23 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

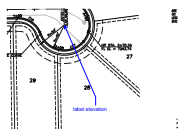


**Subject:**  
**Page Index:** 8  
**Date:** 7/2/2021 2:49:51 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1



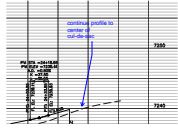
**Subject:** Callout  
**Page Index:** 8  
**Date:** 7/6/2021 7:33:44 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

See FDR comments regarding downstream conveyance. Show on the GEC plan.



**Subject:** Callout  
**Page Index:** 11  
**Date:** 7/6/2021 7:40:25 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

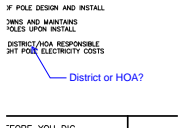
label elevation



**Subject:** Callout  
**Page Index:** 11  
**Date:** 7/6/2021 7:40:55 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

continue profile to center of cul-de-sac

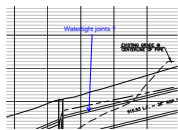
13 (1)



**Subject:** Callout  
**Page Index:** 13  
**Date:** 7/6/2021 7:45:49 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] layout

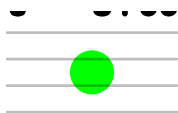
District or HOA?

14 (2)



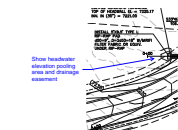
**Subject:** Callout  
**Page Index:** 14  
**Date:** 7/6/2021 7:48:09 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

Watertight joints ?



**Subject:** Highlight  
**Page Index:** 14  
**Date:** 7/6/2021 7:47:31 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

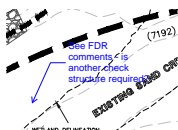
17 (1)



**Subject:** Callout  
**Page Index:** 17  
**Date:** 7/6/2021 8:10:26 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

Show headwater elevation pooling area and drainage easement

18 (1)



**Subject:** Callout  
**Page Index:** 18  
**Date:** 7/6/2021 8:12:17 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] CHANNEL 1

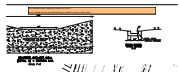
See FDR comments - is another check structure required?



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20 (1)

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**Subject:** Engineer  
**Page Index:** 20  
**Date:** 7/6/2021 2:24:06 PM  
**Author:** CFurchak  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

See comment letter regarding location of Pond 3.  
Pond 3 details will be reviewed following resolution of the pond location.

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22 (1)

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[Manhole lids per ECM SD\\_3-5](#)

**Subject:** Text Box  
**Page Index:** 22  
**Date:** 7/6/2021 8:20:41 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

Manhole lids per ECM SD\_3-5