

ENG-PUDSP21010-R3-PDR.pdf Markup Summary

1 (1)

Engineering Review
 4/20/2022 8:22:53 AM
 dsdrice
 dsdrice@pudsp.com
 (719) 530-7877
 EPC Planning & Community
 Development Department

Subject: EPC ENG Review
Page Index: 1
Date: 4/20/2022 8:22:57 AM
Author: dsdrice
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Page Label: 1

4 (1)

ary drainage report is the basis for approved MDDP for the site prepare lan", HR Green, November 2020 (M s 568 dwelling units.
 567?
 g soil types within the proposed site consist of Columbine gravelly sand (logic soil group B). See the soils m

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567?

5 (1)

Basin #1 (B-001) is located approximately 800 feet south of the proposed site to provide additional capacity for the proposed site. The basin is located on the east side of the site and is shown on the site plan. The basin is shown on the site plan and is shown on the site plan. The basin is shown on the site plan and is shown on the site plan.

Subject: Callout
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Author: dsdrice
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Address the offsite basins as well

6 (2)

Address the combined flows including flows from the west

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Author: dsdrice
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Address the combined flows including flows from the west

Main Stem Tributary #2?

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Main Stem Tributary #2?

storm sewer
he north side
or to being re

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north

It then be routed to the north where t
storm sewer piping, which will convey
to the north side of the MS and west of
r to being released at historic rates i
south?
SD facilities has been completed wit
35 ac-ft and 0.522 ac-ft of storage c
a Road crossing has been included

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south?



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Author: dsdrice
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The Rex Rd. TSB or SFB will need to be sized to function as a PBMP.

OW FROM TR
y (SFB) p
proposed r

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SFB

sed to have a land use of single family residential.
into 1/4 Acre and 1/3 Acre lots, public roadways,
ational sites. TSB?
s flows have been included in this analysis at a
he northwest corner of the site. East of Eastonville
It is assumed that the site will have a conservative
grosso an area of 1.23 Acre and proposed
be $Q_1 = 46.4$ cfs, $Q_{10} = 90.7$ cfs. However, in the
s, $Q_{10} = 25.9$ cfs will sheet flow from the northwest
tertion and water quality facility (SFB) positioned at
ad flows will be released to a proposed modified
valued (PMP 1). Flows will then be routed under

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TSB?

IN-1 (1.22 AC, $Q_5 = 4.2$ cfs, $Q_{100} =$
ains the proposed Phase 1 improv
way improvements within the proje
rtter along Rex Rd. The flows will th
osed Sand Filter Basin (SFB) whe
utary #2 channel.

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Sand Filter Basin (SFB)

in A-2a (4.21 AC, $Q_5 = 8.1$ cfs, Q_{10}
sists of residential lots. Tintaogel Tra

9 (1)

ublic) 5' CD
st **northeast**:

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north

10 (2)

and drive a
(public) CC
downstream

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(public)

Sanitation Reserve File No. 1 FOR
revision
Intersection of Perryway Circle & Spunkwell Street. Emergency use
roaded downstream via curb & gutter to proposed Pond A.
Basin No. 10 (DP 17a) - 15' CD. Run to 10' CD. Located east
of public already / park facilities. Runoff from this basin
will be routed via curb & gutter. Flows will then be routed to
CDOT Type 'R' man and area with storm sewer in
downstream to Orange Pond (DP 18). Located at the southwest
overflows will overflow curb and gutter and will sheet flow across
Basin No. 10 (DP 17) - 15' CD. Run to 10' CD. Located in the

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private?

12 (8)

d on the east
ds **O & R**. R
outed, via cu

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O & R

mainly discharge, in historic case, into the adjacent main drain.
10.5 (10) Located on the east portion of the site, this basin
is part of a portion of Salscombe Trail. Runoff from this basin will
initially sheet flow across the curb & gutter to a
proposed 15' CDOT Type 'R' man and area with storm sewer in
downstream to Orange Pond (DP 18). Located at the southwest
overflows will overflow curb and gutter and will sheet flow across
Basin No. 10 (DP 17) - 15' CD. Run to 10' CD. Located in the
11.4 (10) Located on the east portion of the site, this basin
is part of a portion of Salscombe Trail. Runoff from this basin will
initially sheet flow across the curb & gutter to a
proposed 15' CDOT Type 'R' man and area with storm sewer in
downstream to Orange Pond (DP 18). Located at the southwest
overflows will overflow curb and gutter and will sheet flow across
Basin No. 10 (DP 17) - 15' CD. Run to 10' CD. Located in the
12.7 (10) Located on the east portion of the site, this basin
is part of a portion of Salscombe Trail. Runoff from this basin will
initially sheet flow across the curb & gutter to a
proposed 15' CDOT

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Stoke Gabriel Way and Glampton Dr. and Totness
Terrace

Basin No. 12 (DP 17a) - 15' CD. Run to 10' CD. Located east
of public already / park facilities. Runoff from this basin
will be routed via curb & gutter. Flows will then be routed to
CDOT Type 'R' man and area with storm sewer in
downstream to Orange Pond (DP 18). Located at the southwest
overflows will overflow curb and gutter and will sheet flow across
Basin No. 10 (DP 17) - 15' CD. Run to 10' CD. Located in the
11.4 (10) Located on the east portion of the site, this basin
is part of a portion of Salscombe Trail. Runoff from this basin will
initially sheet flow across the curb & gutter to a
proposed 15' CDOT Type 'R' man and area with storm sewer in
downstream to Orange Pond (DP 18). Located at the southwest
overflows will overflow curb and gutter and will sheet flow across
Basin No. 10 (DP 17) - 15' CD. Run to 10' CD. Located in the
12.7 (10) Located on the east portion of the site, this basin
is part of a portion of Salscombe Trail. Runoff from this basin will
initially sheet flow across the curb & gutter to a
proposed 15' CDOT

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and the eastern half of Totness Terrace. Runoff
from this basin will sheet flow
to the adjacent roadway. Flows will then be routed,
via curb & gutter, to a proposed (public) 15' CDOT
Type 'R' at-grade inlet (DP 17a),



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This doesn't match the grading now

road (public) to
 ction of Stoke G
 r to **DP 17g.**

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DP 17g.

of the site, this h

3 cfs): Located i
 f of **Galmpton D**
 ed, via curb & gu
 t side of the int

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Galmpto

cfs, $Q_{100} = 26$.
 the **eastern** hal
 ill then be rout

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eastern

i proposed (p
 of **Totness T**
 18b.

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Totnes

13 (5)


the central port
 the **western** half
 will then be rou
 located on the

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western


Basin C-9a (3.5 AC, Q_c = 5.6 cfs, Q_s consists of residential lots, a portion from this basin will sheet flow to the proposed (public) 15' CDOT Type R

Basin C-9b (3.69 AC, Q_c = 5.9 cfs, C basin consists of residential lots and

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just north of Hope Cove Loop

inlet (DP 1/g), IO
s are conveyed dc
n of Galampton Dr
Galampton Drive.

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Galampton

sin will sheet
olic) 20'
f Hope Cov

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) 20'


= 7.2 cfs): L
he north ha
s will then t

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north


14 (8)

Basin C-9a (3.5 AC, Q_c = 5.6 cfs, Q_s consists of residential lots, a portion from this basin will sheet flow to the proposed (public) 15' CDOT Type R

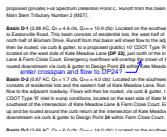
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and the
north half of Brixham Driv

15' CDOT Ty
just north of
op the crow

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north



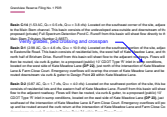
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enter crosspan and flow to DP24?



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overflows will ovetop the crown of Kate Meadow Lane and be routed downstream via curb & gutter to Design Point 23 within Kate Meadow Lane



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Verify grades, ped crossing and crosspan

cfs, $Q_{100} = 14.0$
 the eastern hal
 s will then be ro

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eastern

UDIIC) 15
 4), just so
 ovetop th

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just

isin will sh
 olic) 10' Cl
 iust south

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) 10'

storm channels.
AC, Q₁₀ = 0.3 cfs, Q₁₀₀ = 1.8 cfs) Located on the southeast
hannel. This basin consists of the undeveloped area outside
of Full Spectrum Detention Pond E. Runoff from this basin
will be directed to the 100-year storm and checked with a
sewer System and offsite to the south.
is anticipated to be urban and will include storm sewer &
sewer runoff and convey the water to the water quality facility
will be designed to the 100-year storm and checked with a

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and offsite to the south

Address the Eastonville Road
culvert crossings into Basins
D1, E1, and A-4a
= 6.5 cfs) Located on the southwest corner of the site, adjacent
to the back portion of residential lots and drainage is
from the residential lots, into the adjacent creek and will be via

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Address the Eastonville Road culvert crossings
into Basins D1, E1, and A-4a

Swales in A-1 and C-7 also?
The Final drainage report will include details concerning the swale locations, size
and spacing, and proposed construction. Preliminary swale sizes have been based
on the best fit to Appendix D. As mentioned, these swale sizes are preliminary -
they will be subject to change as the design progresses and will be subject to
approval by the relevant agencies.

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Swales in A-1 and C-7 also?

Describe the size and provide cross-sections on
the drainage plan.
The Final drainage report will include details concerning the swale locations, size
and spacing, and proposed construction. Preliminary swale sizes have been based
on the best fit to Appendix D. As mentioned, these swale sizes are preliminary -
they will be subject to change as the design progresses and will be subject to
approval by the relevant agencies.

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Describe the size and provide cross-sections on
the drainage plan.

QCV and EL
is 4.254 Ac

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4.254

imately margin
-Ft & 2.104 Ac

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& 2.104

s pond will di
it & 1.653 Ac

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1.653


CV and EUR
is 3.355 Ac

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3.355


respectively. The total required dete
Pond C: Located on the southeast ;
channels. This pond will discharge it
are 0.875 Ac-Ft & 2.405 Ac-F, resp

Pond D: Located centrally on the sit
the Main Stem channel. The require
respectively. The total required dete

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0.875 Ac-Ft & 2.405 Ac-F

WQCV and E
is 4.941 Ac

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4.941


the site, just west of the Main Stem channel. This pond will st
required volume WQCV and EURV are 0.291 Ac-Ft & 0.872 Ac
of detention basin volume is 1.404 Ac-Ft.
1 side of the site, just west of the Main Stem channel. This pond
channel. The required volume WQCV and EURV are 0.488 Ac-
required detention basin volume is 2.355 Ac-Ft.
Provide the volumes
calculated by the MHFD
routed hydrographs

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Provide the volumes calculated by the MHFD
routed hydrographs

17 (2)

16B. Location on the site, just west of the Main Stem channel. This pond will st
required volume WQCV and EURV are 0.291 Ac-Ft & 0.872 Ac
of detention basin volume is 1.404 Ac-Ft.
1 side of the site, just west of the Main Stem channel. This pond
channel. The required volume WQCV and EURV are 0.488 Ac-
required detention basin volume is 2.355 Ac-Ft.
Provide the volumes
calculated by the MHFD
routed hydrographs

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Address the other 2 for Eastonville Rd.

04/19/2022 02:08:00. Both scenarios, throughout the channel bed within the...
based and compared to one of the corresponding water quality and...
of the channel bed. The...
to be used and...
within the public Right of Way and to be covered and...
to be used and...
within the public Right of Way and to be covered and...

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not found; also provide HEC-RAS tables showing velocities, FR, shear, depths, etc.

18 (2)

incorporated with the two major channels, MS and MST. The...
with the...
provide final USACE determination

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provide final USACE determination

In Mitigation...
In Appendix? Provide report title and date

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In Appendix? Provide report title and date

40 (2)

Tables and cross-sections not cross-checked with plans on this review

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Author: dsdrice
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(Tables and cross-sections not cross-checked with plans on this review)

Provide for all existing offsite basins

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Provide for all existing offsite basins

42 (7)

the computed value needs to be used for existing conditions if it's higher than the Tc check (the area isn't urbanized yet)

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the computed value needs to be used for existing conditions if it's higher than the Tc check (the area isn't urbanized yet)

19.6
29.0

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19.6
29.0
33.7

Subject: 29.0
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29.0
33.7
14.2

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33.7
14.2
23.4

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14.2
23.4
19.9

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23.4
19.9

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43 (1)

Not checked on this review

division PDR

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Author: dsdrice
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Not checked on this review

50 (1)

Inlets not checked in detail with this review.

MHFD-2016, Version 2.0 (April 2021)
MILWAUKEE COUNTY
WILSON-HALP OPI STREET (Minor & Major)
Preliminary Report for Milwaukee Metropolitan Sewerage District

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Inlets not checked in detail with this review.

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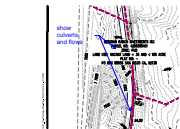
173 (1)

Also provide the MHFD calculation sheets for this design to verify drain times.

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Also provide the MHFD calculation sheets for this design to verify drain times.

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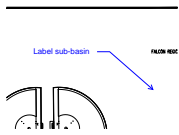
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show culverts and flows



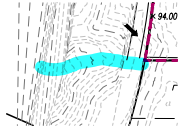
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Label flows

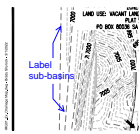


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Author: dsdrice
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Label sub-basin

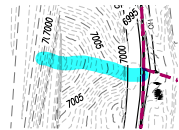


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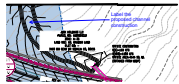
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Page Label: 176

Label sub-basins



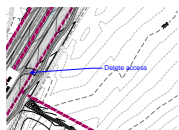
Subject:
Page Index: 176
Date: 4/18/2022 5:11:15 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 176

177 (14)



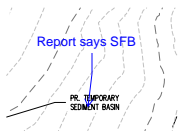
Subject: Callout
Page Index: 177
Date: 4/18/2022 10:27:07 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 177

Label the proposed channel construction



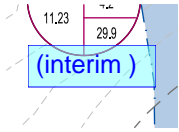
Subject: Callout
Page Index: 177
Date: 4/18/2022 3:18:00 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 177

Delete access



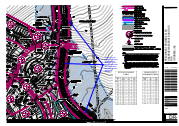
Subject: Callout
Page Index: 177
Date: 4/18/2022 3:40:53 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 177

Report says SFB



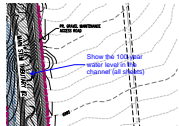
Subject: Text Box
Page Index: 177
Date: 4/18/2022 3:47:45 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 177

(interim)



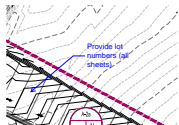
Subject: Callout
Page Index: 177
Date: 4/19/2022 1:25:26 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 177

A berm can't be used to control the 100-year flood elevation, Add a note that the entire area will be filled with development east of the channel.



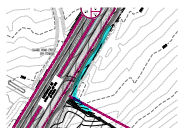
Subject: Callout
Page Index: 177
Date: 4/18/2022 4:52:06 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 177

Show the 100-year water level in the channel (all sheets)

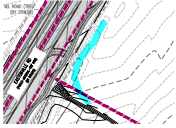


Subject: Callout
Page Index: 177
Date: 4/18/2022 4:52:29 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 177

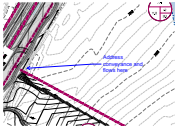
Provide lot numbers (all sheets)



Subject:
Page Index: 177
Date: 4/18/2022 4:59:06 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 177



Subject:
Page Index: 177
Date: 4/18/2022 4:59:13 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 177



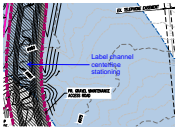
Subject: Callout
Page Index: 177
Date: 4/18/2022 4:59:34 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 177

Address conveyance and flows here



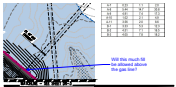
Subject: Callout
Page Index: 177
Date: 4/18/2022 5:01:24 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 177

Address where flows from here go, label culvert to be removed if that is the case



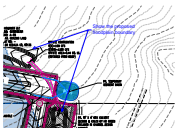
Subject: Callout
Page Index: 177
Date: 4/18/2022 6:06:51 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 177

Label channel centerline stationing



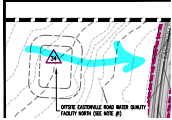
Subject: Callout
Page Index: 177
Date: 4/19/2022 1:15:06 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 177

Will this much fill be allowed above the gas line?

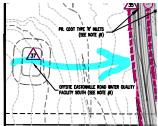


Subject: Callout
Page Index: 177
Date: 4/19/2022 1:22:01 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 177

Show the proposed floodplain boundary



Subject:
Page Index: 178
Date: 4/18/2022 3:20:00 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 178

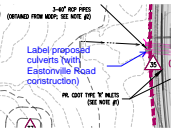


Subject:
Page Index: 178
Date: 4/18/2022 3:20:06 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 178



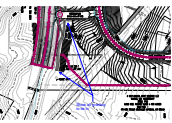
Subject: Callout
Page Index: 178
Date: 4/18/2022 3:20:39 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 178

Show latest Parks options



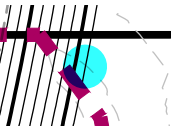
Subject: Callout
Page Index: 178
Date: 4/18/2022 3:23:06 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 178

Label proposed culverts (with Eastonville Road construction)

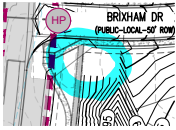


Subject: Callout
Page Index: 178
Date: 4/18/2022 4:57:40 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 178

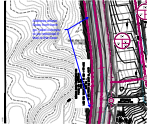
Show all grading to tie in



Subject:
Page Index: 178
Date: 4/18/2022 4:56:38 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 178

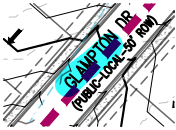


Subject:
Page Index: 178
Date: 4/18/2022 4:57:28 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 178



Subject: Callout
Page Index: 178
Date: 4/18/2022 5:05:53 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 178

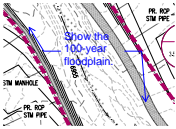
Address where flows from here go, label culverts to be removed if that is the case



Subject:
Page Index: 178
Date: 4/19/2022 7:43:54 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 178

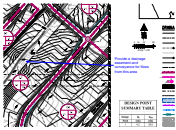


Subject:
Page Index: 178
Date: 4/19/2022 7:45:09 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 178



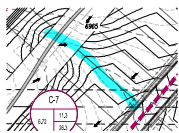
Subject: Callout
Page Index: 178
Date: 4/19/2022 7:56:02 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 178

Show the 100-year floodplain.



Subject: Callout
Page Index: 178
Date: 4/19/2022 1:31:04 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 178

Provide a drainage easement and conveyance for flows from this area



Subject:
 Page Index: 178
 Date: 4/19/2022 1:30:29 PM
 Author: dsdrice
 Color: ■
 Layer:
 Space:
 Page Label: 178

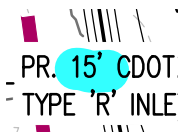


Subject: Highlight
 Page Index: 178
 Date: 4/19/2022 1:30:59 PM
 Author: dsdrice
 Color: ■
 Layer:
 Space:
 Page Label: 178

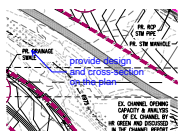


Subject: Callout
 Page Index: 178
 Date: 4/19/2022 2:29:12 PM
 Author: dsdrice
 Color: ■
 Layer:
 Space:
 Page Label: 178

If this will also be used for maintenance access label as such, or provide separate maintenance access roads.

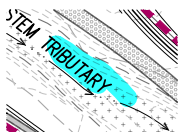


Subject:
 Page Index: 178
 Date: 4/19/2022 2:48:17 PM
 Author: dsdrice
 Color: ■
 Layer:
 Space:
 Page Label: 178

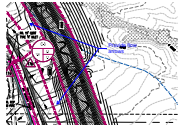


Subject: Callout
 Page Index: 178
 Date: 4/19/2022 2:50:32 PM
 Author: dsdrice
 Color: ■
 Layer:
 Space:
 Page Label: 178

provide design and cross-section on the plan

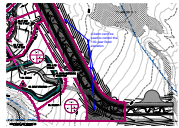


Subject:
 Page Index: 178
 Date: 4/19/2022 2:57:10 PM
 Author: dsdrice
 Color: ■
 Layer:
 Space:
 Page Label: 178



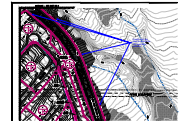
Subject: Callout
Page Index: 179
Date: 4/18/2022 4:49:39 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179

Provide flow arrows



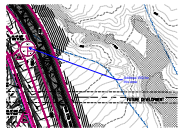
Subject: Callout
Page Index: 179
Date: 4/19/2022 11:56:14 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179

A berm can't be used to control the 100-year flood elevation



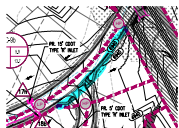
Subject: Callout
Page Index: 179
Date: 4/19/2022 12:01:02 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179

A berm can't be used to control the 100-year flood elevation

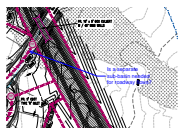


Subject: Callout
Page Index: 179
Date: 4/18/2022 5:52:21 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179

Address WQ for this area

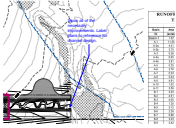


Subject:
Page Index: 179
Date: 4/18/2022 5:53:00 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179



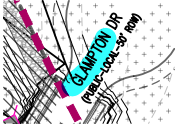
Subject: Callout
Page Index: 179
Date: 4/18/2022 5:53:27 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179

Is a separate sub-basin needed for roadway flows?

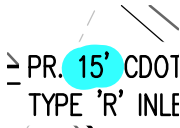


Subject: Callout
Page Index: 179
Date: 4/19/2022 2:32:25 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179

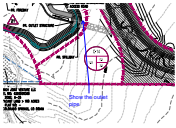
Show all of the necessary improvements. Label plans to reference for channel design.



Subject:
Page Index: 179
Date: 4/19/2022 7:49:18 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179

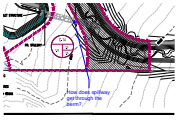


Subject:
Page Index: 179
Date: 4/19/2022 7:49:57 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179



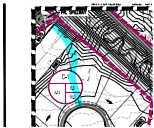
Subject: Callout
Page Index: 179
Date: 4/19/2022 7:53:23 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179

Show the outlet pipe

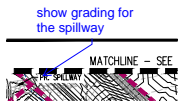


Subject: Callout
Page Index: 179
Date: 4/19/2022 7:54:16 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179

How does spillway get through the berm?

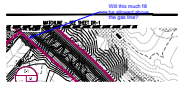


Subject:
Page Index: 179
Date: 4/19/2022 11:59:34 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179



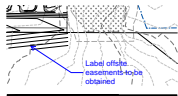
Subject: Callout
Page Index: 179
Date: 4/19/2022 12:00:15 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179

show grading for the spillway



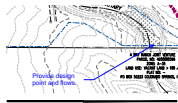
Subject: Callout
Page Index: 179
Date: 4/19/2022 1:14:42 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179

Will this much fill be allowed above the gas line?



Subject: Callout
Page Index: 179
Date: 4/19/2022 2:32:33 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179

Label offsite easements to be obtained



Subject: Callout
Page Index: 179
Date: 4/19/2022 2:34:41 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179

Provide design point and flows.



Subject: Callout
Page Index: 179
Date: 4/19/2022 2:35:48 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179

Label lots and tracts



Subject: Callout
Page Index: 179
Date: 4/19/2022 2:36:11 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 179

Provide grading for the cul-de-sac