



SSO SSDP Project Fact Sheet



SSO Project Number: S_FF_BT_NB01_S_09A_C_A

Project Name: Lucas Ln. PS Inline Storage

Modeled Area: Berrytown

Branch or SSO ID: NB01

Project Type: Inline Storage

Receiving Stream: Goose Creek

Project Description: This alternative includes installing two 90 LF long 54" wide parallel storage pipes that branch off the gravity main prior to the Lucas Lane PS. The invert must be lowered and upgraded to a 36" pipe.

Reason for Overflow: Pump station capacity

Design Parameters / Assumptions: This solution is based on a 1.82 inch cloudburst rain event

Project Constraints: None at this time

Estimated Capital Cost (2008 dollars): \$183,000

Weighted Benefit/Cost Ratio (Present Worth): 112.86

Overflow Points Addressed:

<u>SSO</u>	<u>SSO Name</u>	<u>Service Area</u>	<u>Overflow Type</u>	<u>Discharge To</u>	<u>Average Overflow / Incident (gallons)</u>
MSD0199-LS	Lucas Lane	Berrytown	Lift Station	Stream	5,000

Integrated Overflow Abatement Plan

Vol. 3 - Sanitary Sewer Discharge Plan

Berrytown Sewershed

Solution ID # S_FF_BT_NB01_S_09A_C_A

Lucas Ln. PS Inline Storage

Preliminary - For Budget Development Only

Legend

- Documented SSO
- Suspected SSO
- Haul Operation
- Proposed Pump Station Solution
- Pump Station
- WWTP
- Proposed Pipe Solution
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Proposed Off-line Storage
- Road
- Streams
- Floodway
- Small WWTP Service Area
- Large WWTP Service Area
- CSO Area
- Metro Parks

Replace 90 LF of 8" pipe upstream of the Lucas Lane Pump Station with a 54" pipe and install an additional 90 LF of 54" pipe parallel to it to provide inline storage. Lower the invert of the influent 8" pipe to PS and replace with a 36" pipe.

General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.

1 inch equals 100 feet
Scalable when printed on 11" X 17" paper



Some boundaries are uniquely symbolized within the map.

Map Revision
May 7, 2009

Aerial Date: 2006



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SSO SSDP Project Fact Sheet



SSO Project Number: S_HC_HN_NB01_S_03_C_A

Project Name: Riding Ridge PS Improvements

Modeled Area: Hunting Creek North

Branch or SSO ID: NB01

Project Type: Pump Station Upgrades

Receiving Stream: Harrods Creek

Project Description: This alternative includes upgrading pumps at Riding Ridge PS from 17 GPM to 26 GPM. This will give the PS a peak pumping rate capacity of 0.075 MGD.

Reason for Overflow: Pump station capacity

Design Parameters / Assumptions: This solution is based on a 1.82 inch cloudburst rain event

Project Constraints: None at this time

Estimated Capital Cost (2008 dollars): \$27,000

Weighted Benefit/Cost Ratio (Present Worth): 52.02

Overflow Points Addressed:

<u>SSO</u>	<u>SSO Name</u>	<u>Service Area</u>	<u>Overflow Type</u>	<u>Discharge To</u>	<u>Average Overflow / Incident (gallons)</u>
MSD1060-LS	Riding Ridge	Hunting Creek North	Pumped	Ditch	4,700

Integrated Overflow Abatement Plan

Vol. 3 - Sanitary Sewer Discharge Plan




















Hunting Creek North Sewershed

Solution ID # S_HC_HN_NB01_S_03_C_A

Riding Ridge PS Improvements

Preliminary - For Budget Development Only

Legend

-  Documented SSO
-  Suspected SSO
-  Haul Operation
-  Proposed Pump Station Solution
-  Pump Station
-  WWTP
-  Proposed Pipe Solution
-  Force Main
-  Collector < 12"
-  Interceptor => 12"
-  Combined Sewer Pipe
-  Proposed Off-line Storage
-  Road
-  Streams
-  Floodway
-  Small WWTP Service Area
-  Large WWTP Service Area
-  CSO Area
-  Metro Parks

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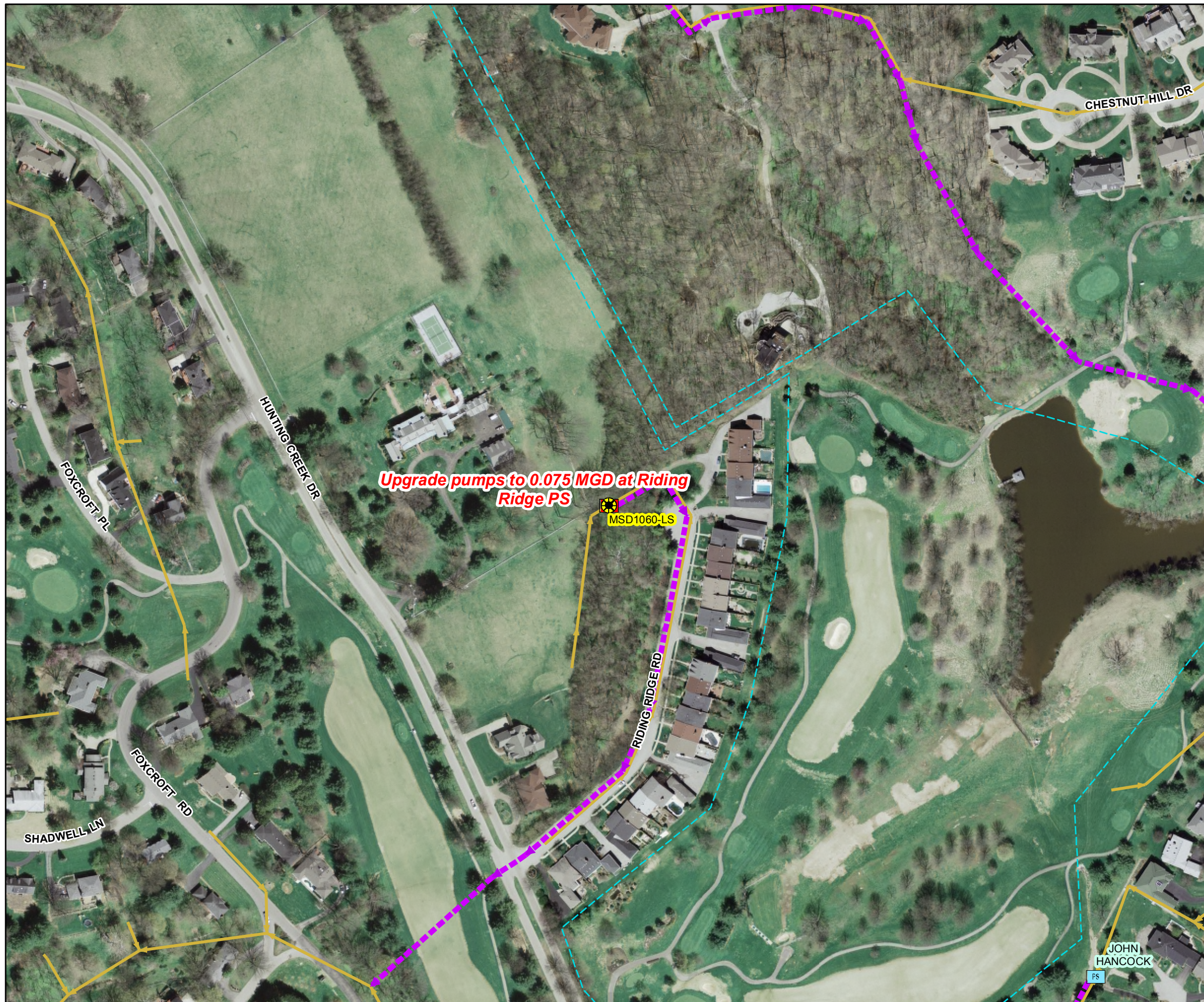
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SSO SSDP Project Fact Sheet



SSO Project Number: S_HC_HN_NB02_S_09A_C_B

Project Name: Gunpowder PS Inline Storage

Modeled Area: Hunting Creek North

Branch or SSO ID: NB02

Project Type: Inline Storage

Receiving Stream: Harrods Creek

Project Description: This alternative includes replacing 120 LF of 8" with 60" in-line storage pipe. In addition, 28 LF of pipe upgrades will be needed.

Reason for Overflow: Pump station capacity

Design Parameters / Assumptions: This solution is based on a 1.82 inch cloudburst rain event

Project Constraints: None at this time

Estimated Capital Cost (2008 dollars): \$176,000




















Weighted Benefit/Cost Ratio (Present Worth): 78.71

Overflow Points Addressed:

<u>SSO</u>	<u>SSO Name</u>	<u>Service Area</u>	<u>Overflow Type</u>	<u>Discharge To</u>	<u>Average Overflow / Incident (gallons)</u>
MSD1055-LS	Gunpowder	Hunting Creek North	Pumped	Ditch	17,199

Integrated Overflow Abatement Plan
Vol. 3 - Sanitary Sewer Discharge Plan
 Hunting Creek North Sewershed
 Solution ID # S_HC_HN_NB02_S_09A_C_B
 Gunpowder PS Inline Storage

Preliminary - For Budget Development Only
Legend

-  Documented SSO
-  Suspected SSO
-  Haul Operation
-  Proposed Pump Station Solution
-  Pump Station
-  WWTP
-  Proposed Pipe Solution
-  Force Main
-  Collector < 12"
-  Interceptor => 12"
-  Combined Sewer Pipe
-  Proposed Off-line Storage
-  Road
-  Streams
-  Floodway
-  Small WWTP Service Area
-  Large WWTP Service Area
-  CSO Area
-  Metro Parks

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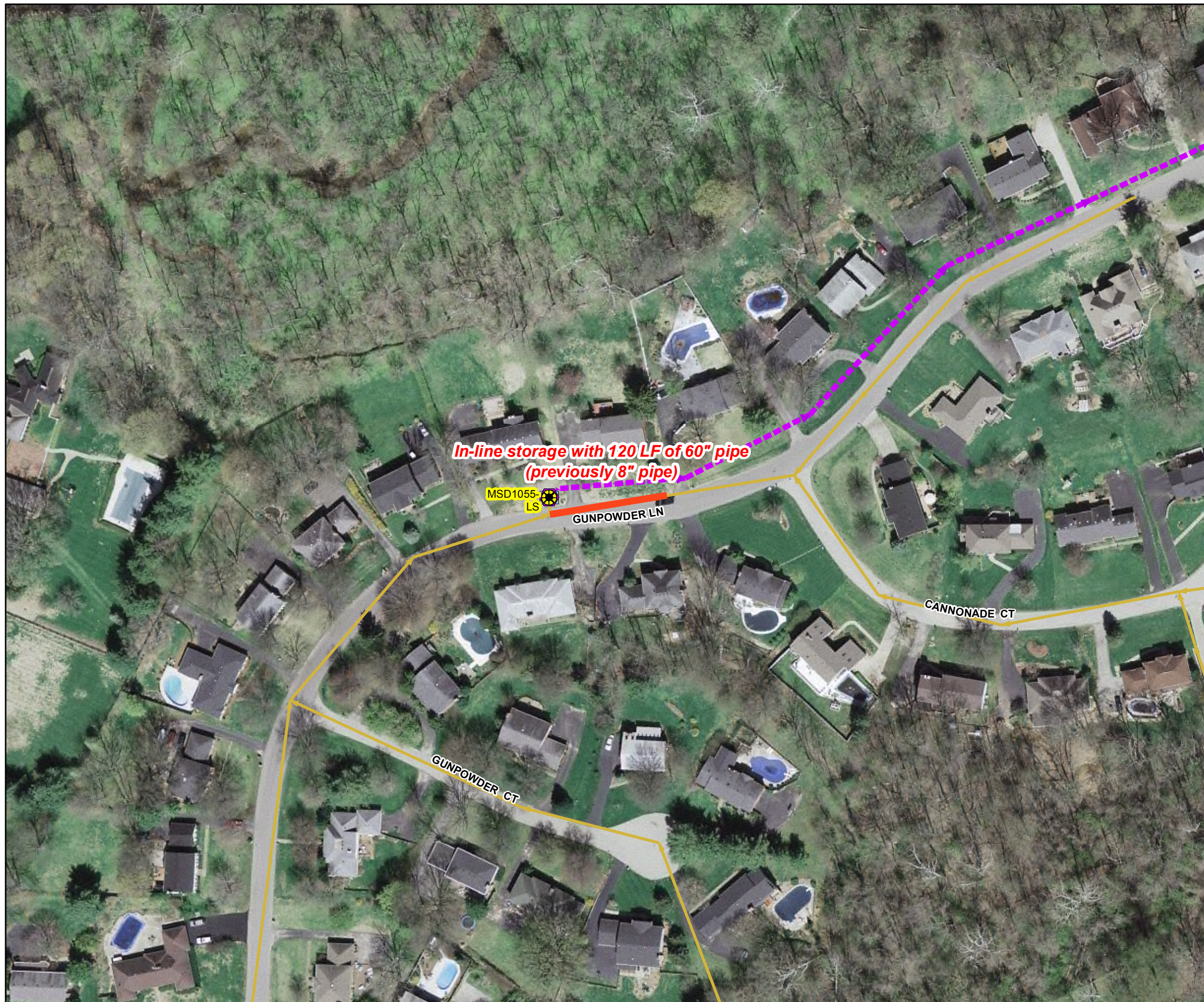
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SSO SSDP Project Fact Sheet



SSO Project Number: S_HC_HN_NB03_S_09A_A_A

Project Name: Fox Harbor Inline Storage

Modeled Area: Hunting Creek North

Branch or SSO ID: NB03

Project Type: Inline Storage

Receiving Stream: Harrods Creek

Project Description: This alternative includes replacing two 8" (total 133 LF) pipes upstream and east of the Fox Harbor #2 LS with 24" and 60" pipes respectively. For Fox Harbor #1: Install (194 LF of 24" to 54") parallel storage pipes upstream of the lift station and lower the upstream invert of that pipe (which will require a new drop manhole).

Reason for Overflow: Pump station capacities

Design Parameters / Assumptions: This solution is based on a 2.60 inch cloudburst rain event

Project Constraints: None at this time

Estimated Capital Cost (2008 dollars): \$328,000

Weighted Benefit/Cost Ratio (Present Worth): 87.55

Overflow Points Addressed:


<u>SSO</u>	<u>SSO Name</u>	<u>Service Area</u>	<u>Overflow Type</u>	<u>Discharge To</u>	<u>Average Overflow / Incident (gallons)</u>
62769	Fox Hill Road/ Fox Hunt Court	Hunting Creek North	Constructed	Ground	No data

Preliminary - For Budget Development Only
Legend





- Documented SSO
- Suspected SSO
- Haul Operation
- Proposed Pump Station Solution
- Pump Station
- WWTP
- Proposed Pipe Solution
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Proposed Off-line Storage
- Road
- Streams
- Floodway
- Small WWTP Service Area
- Large WWTP Service Area
- CSO Area
- Metro Parks

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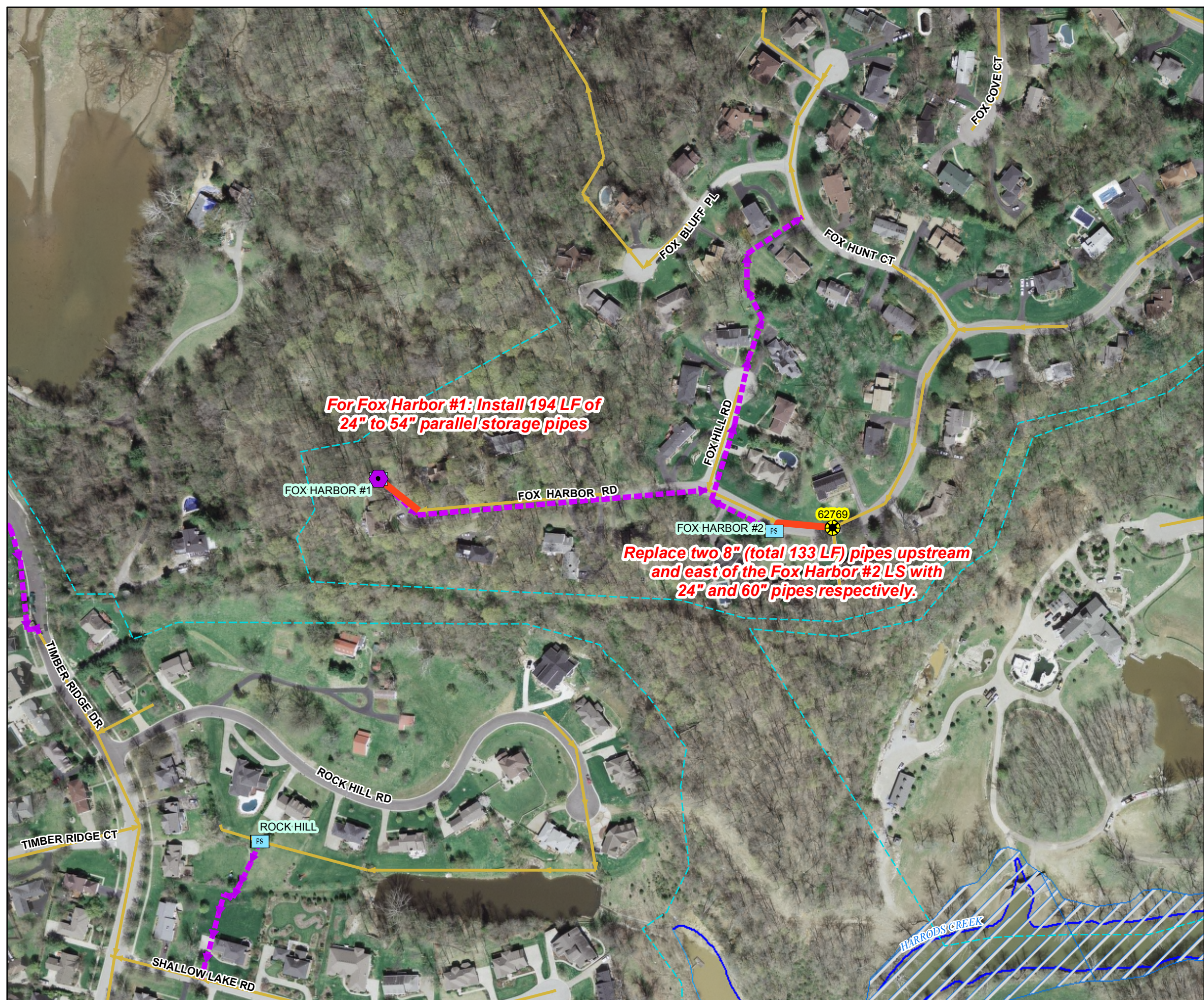
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For Fox Harbor #1: Install 194 LF of 24" to 54" parallel storage pipes

Replace two 8" (total 133 LF) pipes upstream and east of the Fox Harbor #2 LS with 24" and 60" pipes respectively.