



SSO SSDP Project Fact Sheet



SSO Project Number: S_PO_WC_PC03_M_01_C

Project Name: Charleswood Interceptor Extension

Modeled Area: Pond Creek

Branch or SSO ID: PC03

Project Type: Pipe Upgrades

Receiving Stream: Fishpool Creek

Project Description: This alternative includes upsizing 1,846 LF of open cut sewer (mostly in rock) downstream. This estimate does not include the Cooper Chapel PS elimination but the Charleswood Subdivision Interceptor will eliminate Cooper Chapel PS and require capacity increases downstream.

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

Capital Projects: C94103 ~ Charleswood Subdivision Interceptor - Under Design

Estimated Capital Cost (2008 dollars): \$603,000

Weighted Benefit/Cost Ratio (Present Worth): 62.84

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>
25477	EA 35' E	West County	Manhole	Ground	Suspected-no data
25478	EA 35' E	West County	Manhole	Ground	Suspected-no data
25480	6112 Cooper Chapel Rd	West County	Manhole	Ground	6,500
MSD0130-PS	Cooper Chapel	West County	Constructed	Ditch	4,442

Integrated Overflow Abatement Plan

Vol. 3 - Sanitary Sewer Discharge Plan




















Pond Creek Sewershed

Solution ID # S_PO_WC_PC03_M_01_C

Charleswood Interceptor Extension

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

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

1 inch = 400 feet
Scalable when printed on 11" X 17" paper



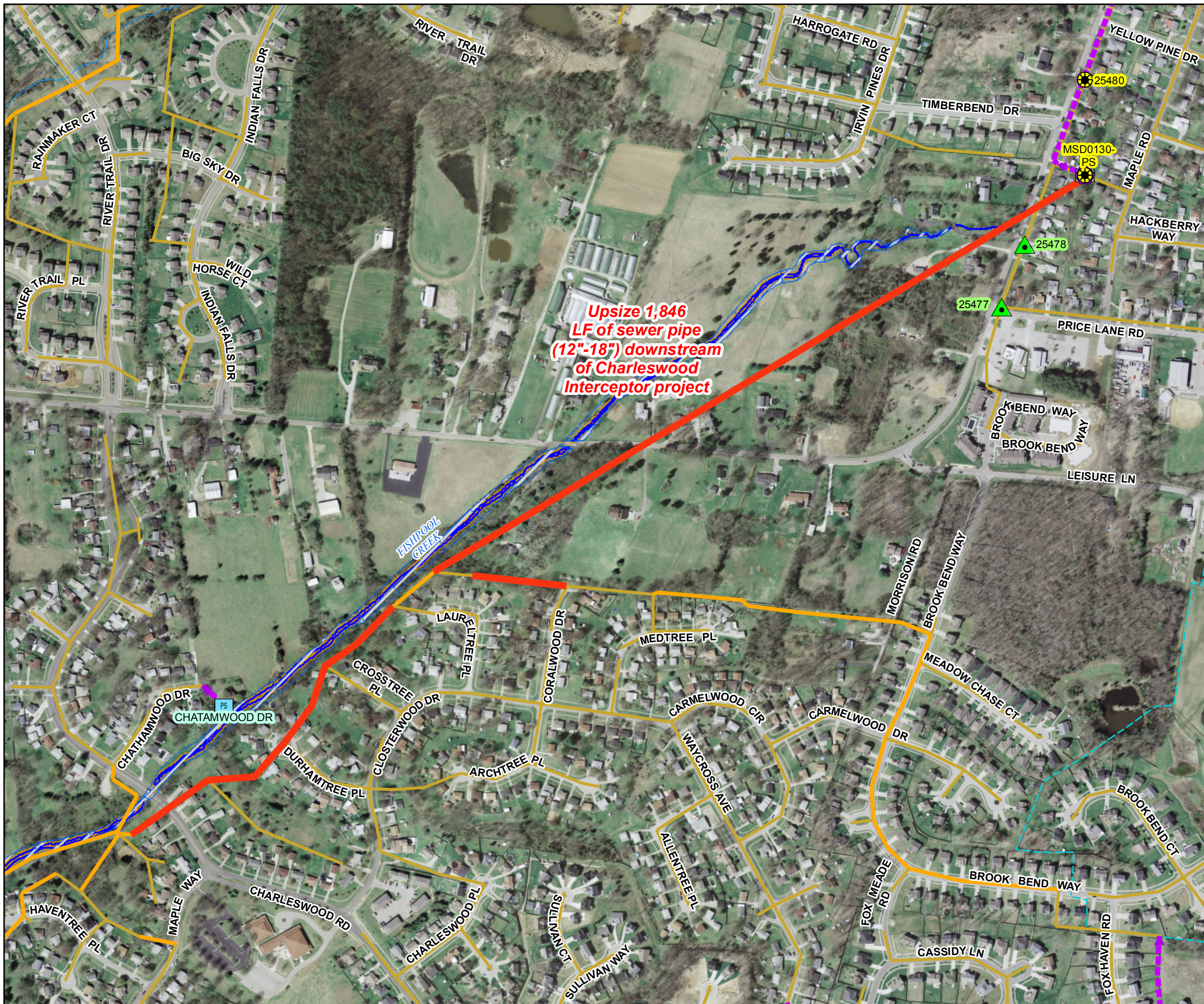
Some boundaries are uniquely symbolized within the map.

Map Revision
May 07, 2009

Aerial Date: 2006



Copyright © 2008 LOUISVILLE AND JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT (MSD), LOUISVILLE WATER COMPANY, LOUISVILLE METRO GOVERNMENT, and JEFFERSON COUNTY PROPERTY VALUATION ADMINISTRATOR (PVA). All Rights Reserved.





SSO SSDP Project Fact Sheet



SSO Project Number: S_PO_WC_PC04_M_01_C

Project Name: Cinderella PS Elimination

Modeled Area: Pond Creek

Branch or SSO ID: PC04

Project Type: Diversion

Receiving Stream: Fishpool Creek and Manslick Branch

Project Description: This alternative eliminates Cinderella PS by constructing 2,250 LF of 10" pipe. 208 LF of tunneling under I-265.

Reason for Overflow: Pump station and system capacity

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

Project Constraints: None

Estimated Capital Cost (2008 dollars): \$2,205,000

Weighted Benefit/Cost Ratio (Present Worth): 22.14

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>
35309	Marjorie Drive	West County	Manhole	Ground	10,825
60679	Manhole Adjacent to Cinderella PS	West County	Manhole	Ditch	8,100
MSD1013-PS	Cinderella	West County	Lift Station	Ditch	71,356

Integrated Overflow Abatement Plan

Vol. 3 - Sanitary Sewer Discharge Plan

Pond Creek Sewershed

Solution ID # S_PO_WC_PC04_M_01_C

Cinderella PS Elimination

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

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

1 inch = 300 feet
Scalable when printed on 11" X 17" paper



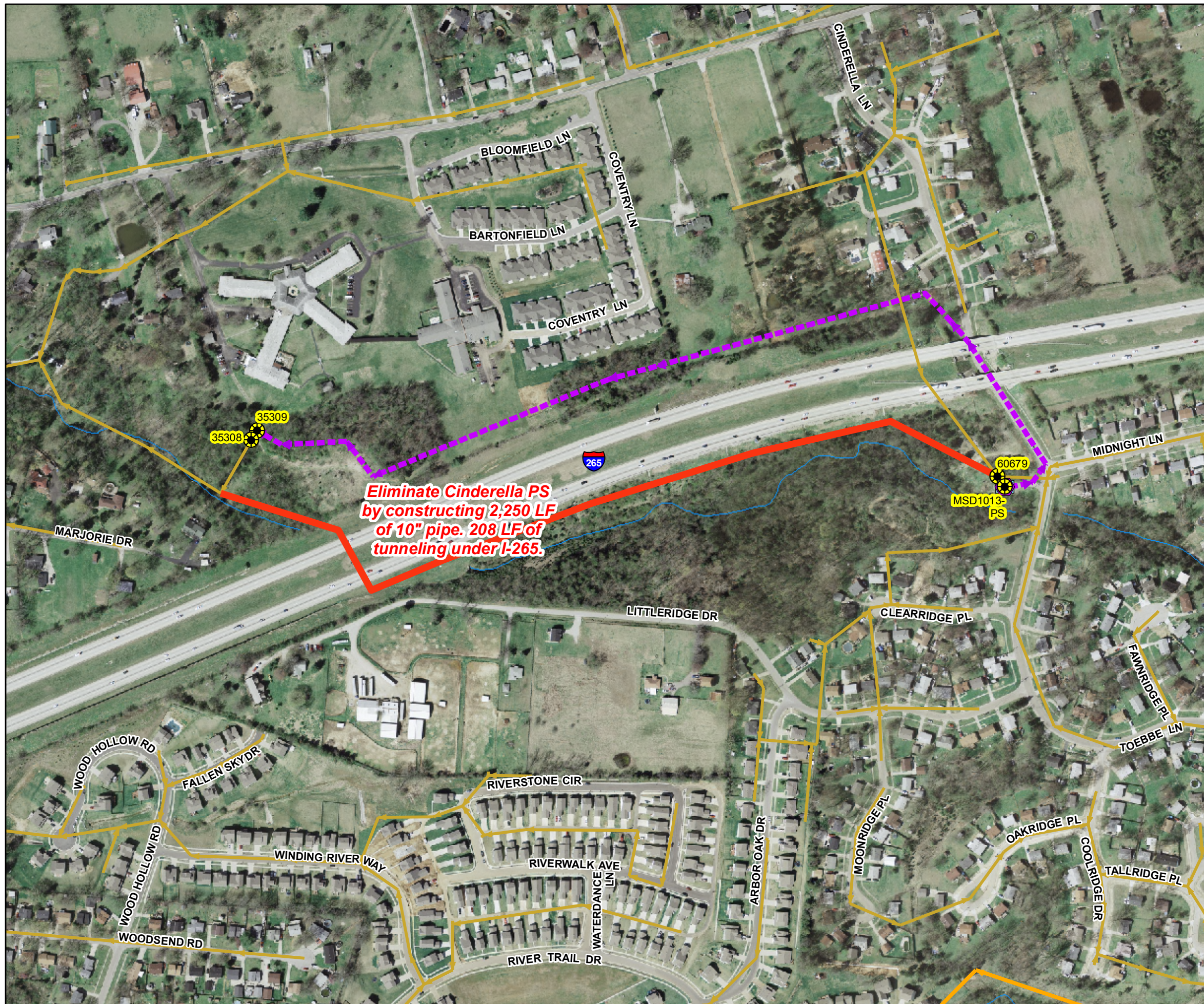
Some boundaries are uniquely symbolized within the map.

Map Revision
May 07, 2009

Aerial Date: 2006



Copyright © 2008 LOUISVILLE AND JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT (MSD), LOUISVILLE WATER COMPANY, LOUISVILLE METRO GOVERNMENT, and JEFFERSON COUNTY PROPERTY VALUATION ADMINISTRATOR (PVA). All Rights Reserved.





SSO SSDP Project Fact Sheet



SSO Project Number: S_PO_WC_PC05_M_07_C

Project Name: Lantana #1 PS I/I Investigation and Rehabilitation

Modeled Area: Pond Creek

Branch or SSO ID: PC05

Project Type: I/I Reduction

Receiving Stream: Pennsylvania Run

Project Description: This location will be targeted for I/I source control (I/I Rehab and private property program.) A full SSES will be performed upstream of this PS. If I/I reduction is deemed unsuccessful in eliminating the SSO, the next best alternative will be implemented, which is Offline Storage.

Reason for Overflow: Pump station and system capacity

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

Project Constraints: None

Estimated Capital Cost (2008 dollars): \$20,000 (Cost is for SSES only; rehabilitation will be performed under Annual I/I Rehab contracts and the private property program)

Weighted Benefit/Cost Ratio (Present Worth): Only cost calculated for SSES, no benefits are calculated.

Overflow Points Addressed:

SSO	SSO Name	Service Area	Overflow Type	Discharge To	Average Overflow / Incident (gallons)
25484	Near Lantana PS	West County	Manhole	Stream	180,875
93719	Wet Well for Lantana PS	West County	Manhole	Ditch	5,625
MSD0101-PS	Lantana Drive PS #1	West County	Lift Station	Ditch	22,300

Integrated Overflow Abatement Plan
Vol. 3 - Sanitary Sewer Discharge Plan
 Pond Creek Sewershed
 Solution ID # S_PO_WC_PC05_M_07_C
 Lantana #1 PS I/I Investigation & Rehabilitation

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

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

1 inch = 120 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



Copyright © 2008 LOUISVILLE AND JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT (MSD), LOUISVILLE WATER COMPANY, LOUISVILLE METRO GOVERNMENT, and JEFFERSON COUNTY PROPERTY VALUATION ADMINISTRATOR (PVA). All Rights Reserved.





SSO SSDP Project Fact Sheet



SSO Project Number: S_PO_WC_PC06_M_01_C

Project Name: Government Center PS Elimination

Modeled Area: Pond Creek

Branch or SSO ID: PC06

Project Type: Diversion

Receiving Stream: Pennsylvania Run

Project Description: This alternative eliminates Government Center PS by constructing 1,324 LF of 10" pipe. 50 LF of tunneling is required.

Reason for Overflow: Pump station and system capacity

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

Project Constraints: None

Estimated Capital Cost (2008 dollars): \$1,225,000

Weighted Benefit/Cost Ratio (Present Worth): 44.91

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>
MSD0180-PS	Government Center	West County	Lift Station	Ditch	12,381

Integrated Overflow Abatement Plan

Vol. 3 - Sanitary Sewer Discharge Plan




















Pond Creek Sewershed

Solution ID # S_PO_WC_PC06_M_01_C

Government Center PS Elimination

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

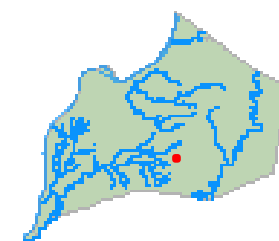
General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.

1 inch = 200 feet
Scalable when printed on 11" X 17" paper

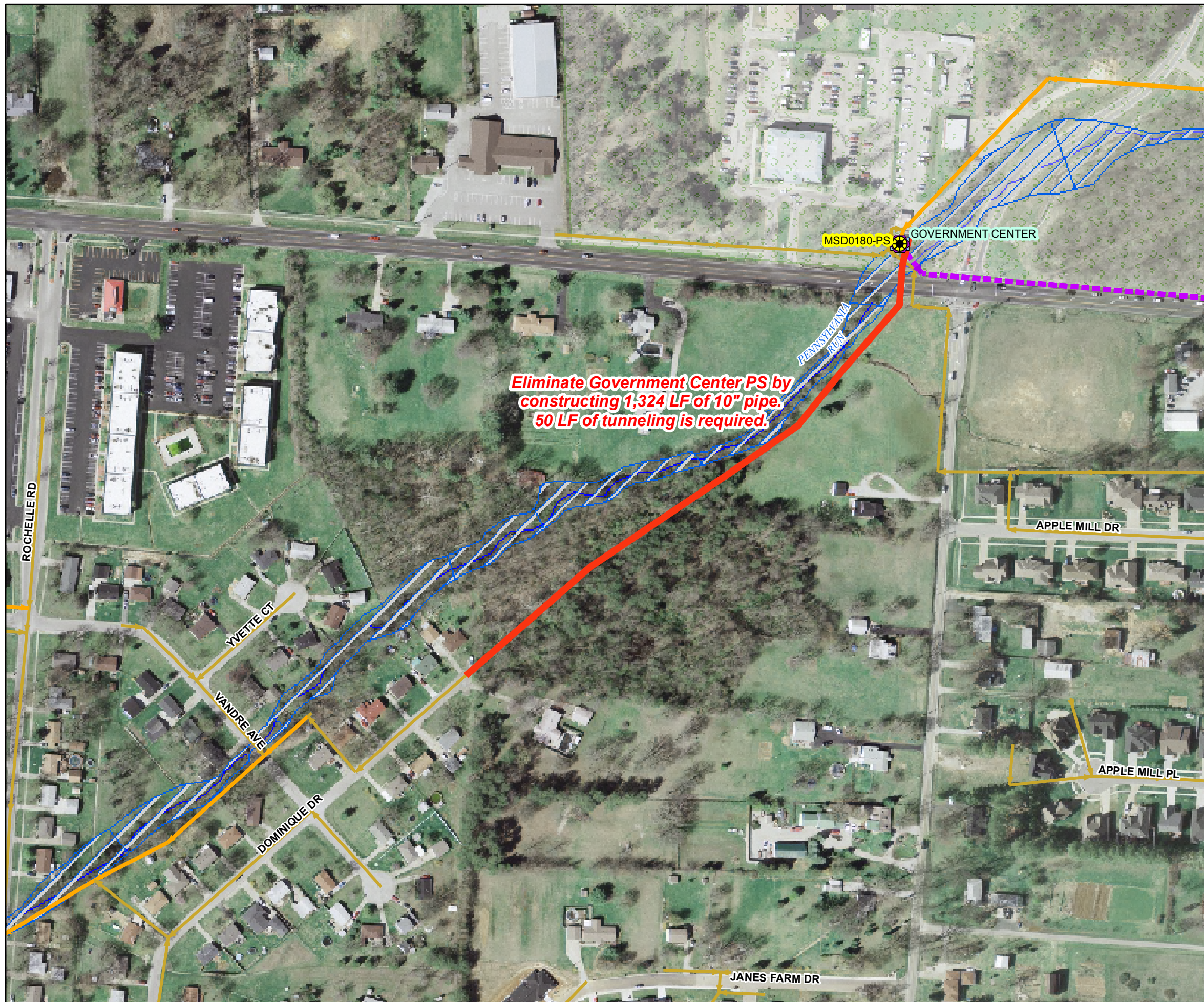
Some boundaries are uniquely symbolized within the map.

Map Revision
May 07, 2009

Aerial Date: 2006



Copyright © 2008 LOUISVILLE AND JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT (MSD), LOUISVILLE WATER COMPANY, LOUISVILLE METRO GOVERNMENT, and JEFFERSON COUNTY PROPERTY VALUATION ADMINISTRATOR (PVA). All Rights Reserved.





SSO SSDP Project Fact Sheet



SSO Project Number: S_PO_WC_PC07_M_01_A

Project Name: Avanti PS Elimination

Modeled Area: Pond Creek

Branch or SSO ID: PC07

Project Type: Diversion

Receiving Stream: Little Cedar Creek

Project Description: This alternative eliminates Avanti PS by constructing 150 LF of 8" pipe.

Reason for Overflow: Pump station capacity

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

Project Constraints: None

Estimated Capital Cost (2008 dollars): \$31,000

Weighted Benefit/Cost Ratio (Present Worth): 1000.48




















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>
21229-W	Avanti Way at Fernview Road	No plant	Constructed	Ditch	No Data

Integrated Overflow Abatement Plan
Vol. 3 - Sanitary Sewer Discharge Plan
 Pond Creek Sewershed
 Solution ID # S_PO_WC_PC07_M_01_C
 Avanti PS Elimination

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

Eliminate Avanti PS by constructing 150 LF of 8" pipe.

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

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



Some boundaries are uniquely symbolized within the map.

Map Revision
 May 07, 2009
 Aerial Date: 2006



Copyright © 2008 LOUISVILLE AND JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT (MSD), LOUISVILLE WATER COMPANY, LOUISVILLE METRO GOVERNMENT, and JEFFERSON COUNTY PROPERTY VALUATION ADMINISTRATOR (PVA). All Rights Reserved.

