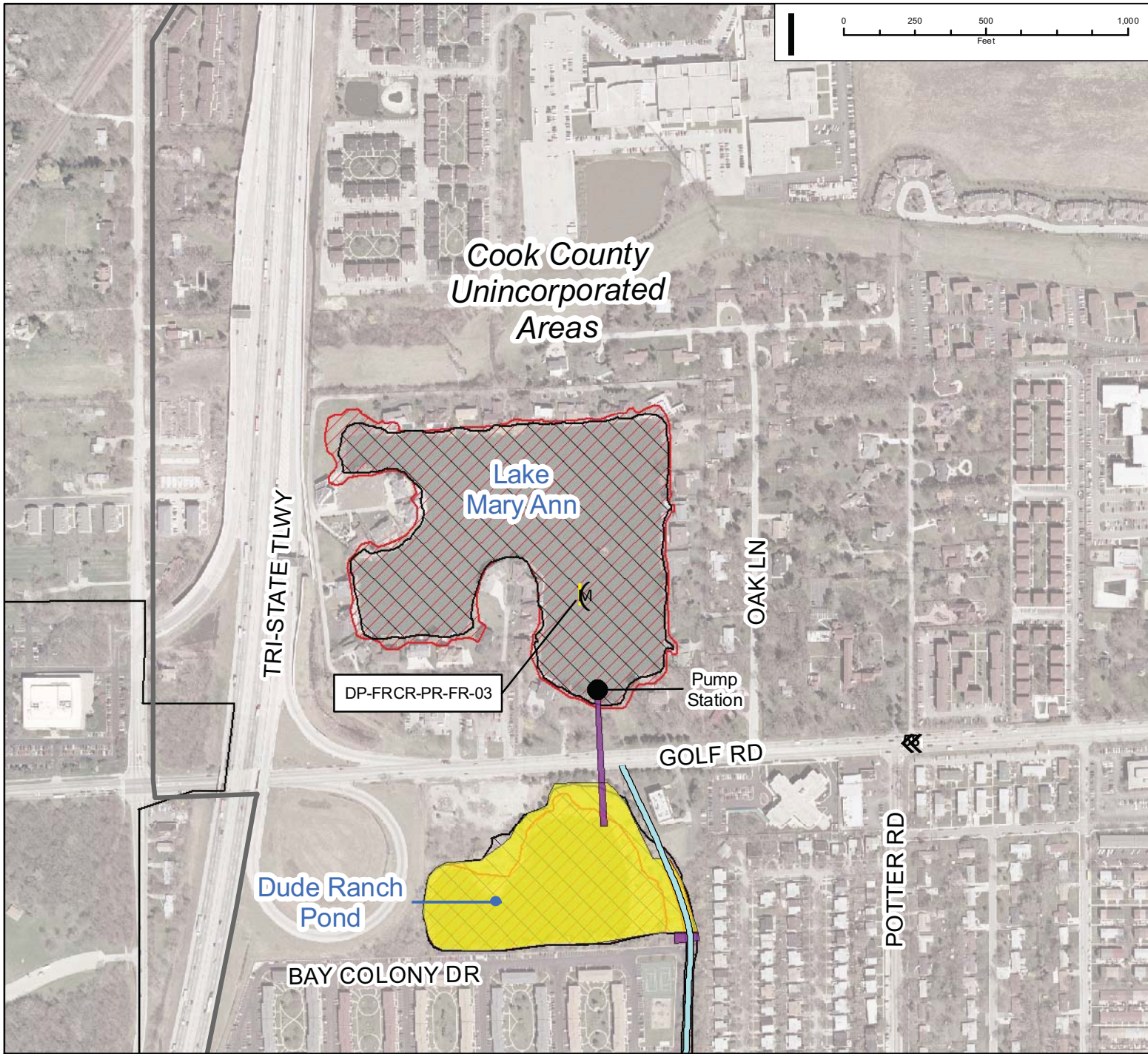


Legend 100-Year Storm Event Flood Inundation Without Project 100-Year Storm Event Flood Inundation With Project Reservoir Levee/Floodwall Culvert/Bridge Modification Channel Improvements Approximate Creek Channel Location Municipal Boundary Watershed Boundary Problem Areas Modeled Regional																		
CLIENT: METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO	TITLE: LOWER DES PLAINE RIVER DETAILED WATERSHED PLAN FARMERS PRAIRIE CREEK WATERSHED PROPOSED OVERALL	PROJ. NO. DATE: 02-17-2011 SHEET 1 OF 1 DRAWING NO.																
CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 • Rosemont, Illinois 60018 • (847) 823-0500	MOLLY O'TOOLE WWW.MOLLYOTOOLE.COM	<table border="1"> <tr> <td>DSGN.</td> <td></td> <td>SCALE</td> <td></td> </tr> <tr> <td>DWN.</td> <td></td> <td>GIS USER</td> <td></td> </tr> <tr> <td>CHKD.</td> <td></td> <td>PLOT DATE</td> <td></td> </tr> <tr> <td>FILE:</td> <td></td> <td></td> <td></td> </tr> </table>	DSGN.		SCALE		DWN.		GIS USER		CHKD.		PLOT DATE		FILE:			
DSGN.		SCALE																
DWN.		GIS USER																
CHKD.		PLOT DATE																
FILE:																		

FIGURE 3.9.1

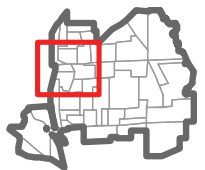


Subwatershed: Farmers Prairie Creek
 Alternative: FRCR-1
 Alternatives Description: - Force Main outlet for Lake Mary Ann
 - Farmers Creek Passive Control Structure
 - Add 10 A-F to Dude Ranch Pond

Concept Level Cost: \$3,077,059
 Benefits: \$2,179,672
 B/C Ratio: 0.7

Legend

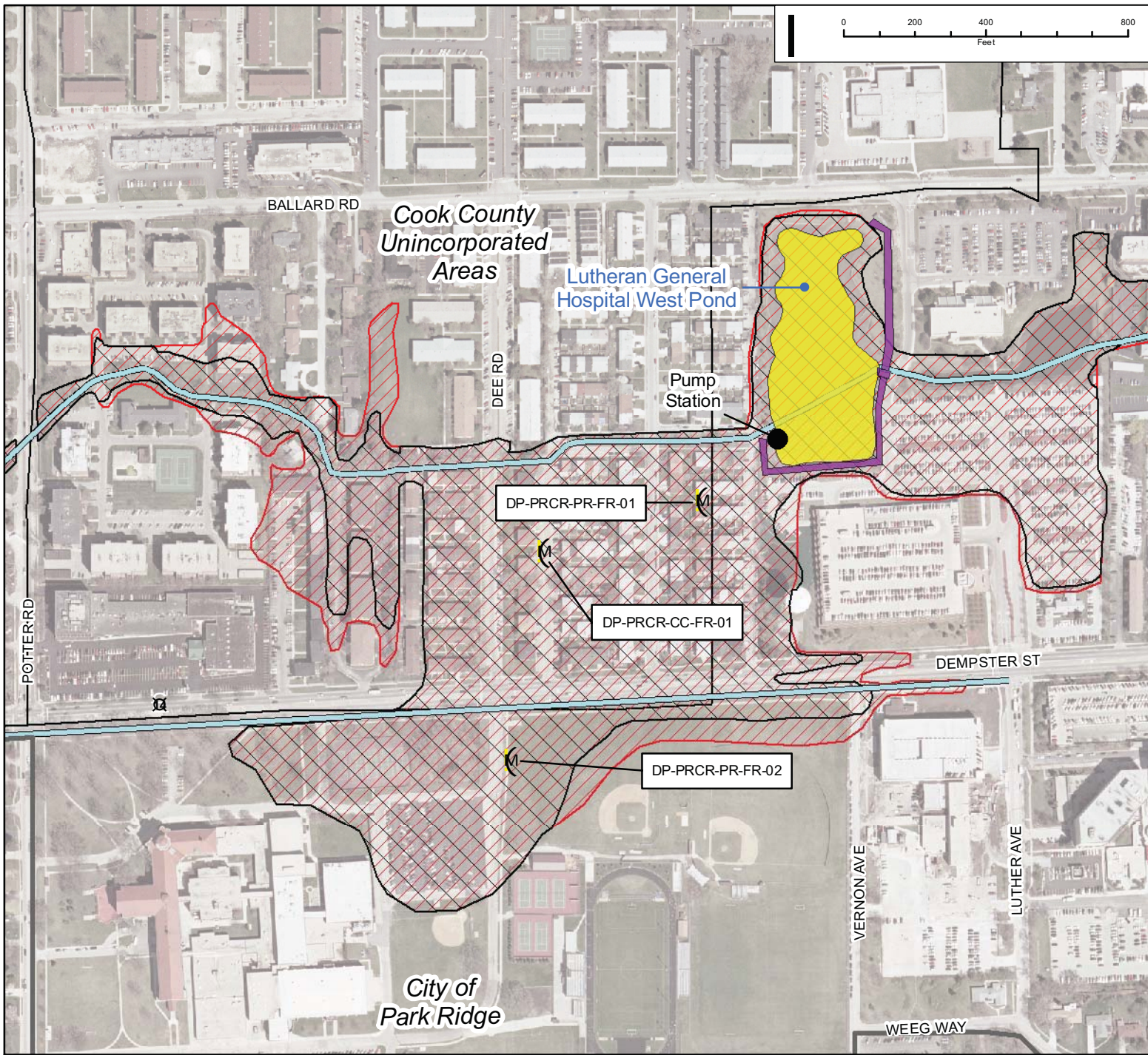
- 100-Year Storm Event Flood Inundation Without Project
- Reservoir
- Levee/Floodwall
- Approximate Creek Channel Location
- Municipal Boundary
- Culvert/Bridge Modification
- Channel Improvements
- Watershed Boundary
- Problem Areas Modeled Regional



CLIENT:
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TITLE:
LOWER DES PLAINES RIVER DETAILED WATERSHED PLAN FARMERS PRAIRIE CREEK WATERSHED PROPOSED ALTERNATIVE FRCR-1

PROJ. NO.
 DATE: 09-08-2010
 SHEET 1 OF 1
 DRAWING NO.



Subwatershed: Farmers Prairie Creek

Alternative: FRCR-4













- Alternatives Description:
- Pump Station
 - 2 - 60 inch Bypass Pipes
 - 24 inch Bypass for Ballard subwatershed
 - Lutheran General Hospital West Pond lowered 6ft to 627
 - Add a junction Box

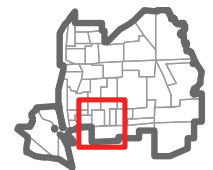
Concept Level Cost: \$6,635,011

Benefits: \$7,918,847

B/C Ratio: 1.2

Legend

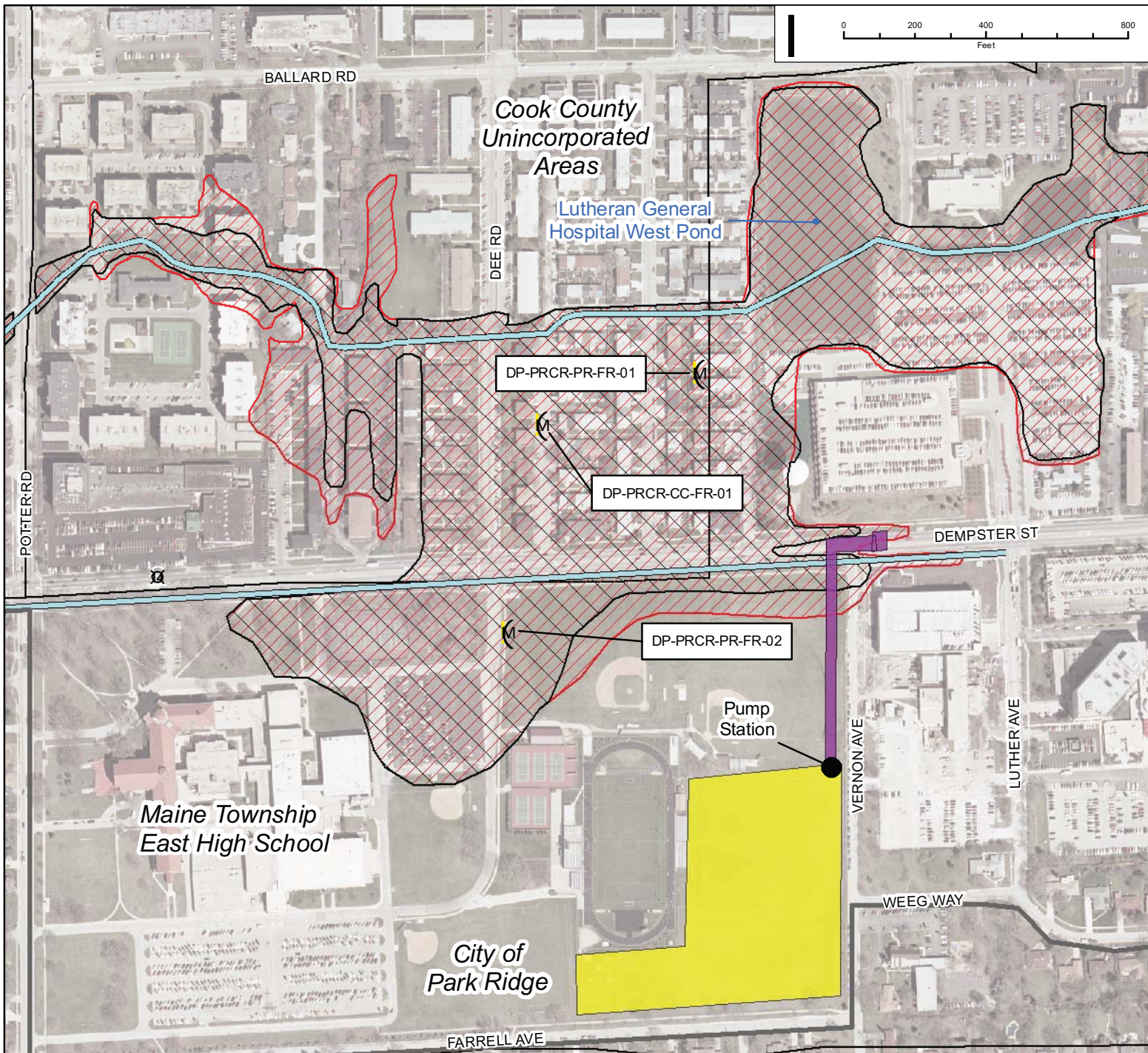
- | | | | | | | | |
|--|---|---|-----------------------------|---|------------------------------------|---|---|
|  | 100-Year Storm Event Flood Inundation Without Project |  | Reservoir |  | Approximate Creek Channel Location | Problem Areas | |
|  | 100-Year Storm Event Flood Inundation With Project |  | Levee/Floodwall |  | Municipal Boundary | |  |
|  | |  | Culvert/Bridge Modification |  | Watershed Boundary |  | Regional |
| | |  | Channel Improvements | | | | |



CLIENT:
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TITLE:
LOWER DES PLAINES RIVER DETAILED WATERSHED PLAN FARMERS PRAIRIE CREEK WATERSHED PROPOSED ALTERNATIVE FRCR-4

PROJ. NO.
DATE: 09-08-2010
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DRAWING NO.

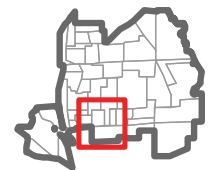


Subwatershed: Farmers Prairie Creek
 Alternative: FRCR-5
 Alternatives Description: - High School Reservoir
 - Junction Box connecting to existing drainage
 - Box culvert

Concept Level Cost: \$7,614,226
 Benefits: \$4,679,253
 B/C Ratio: 0.6

Legend

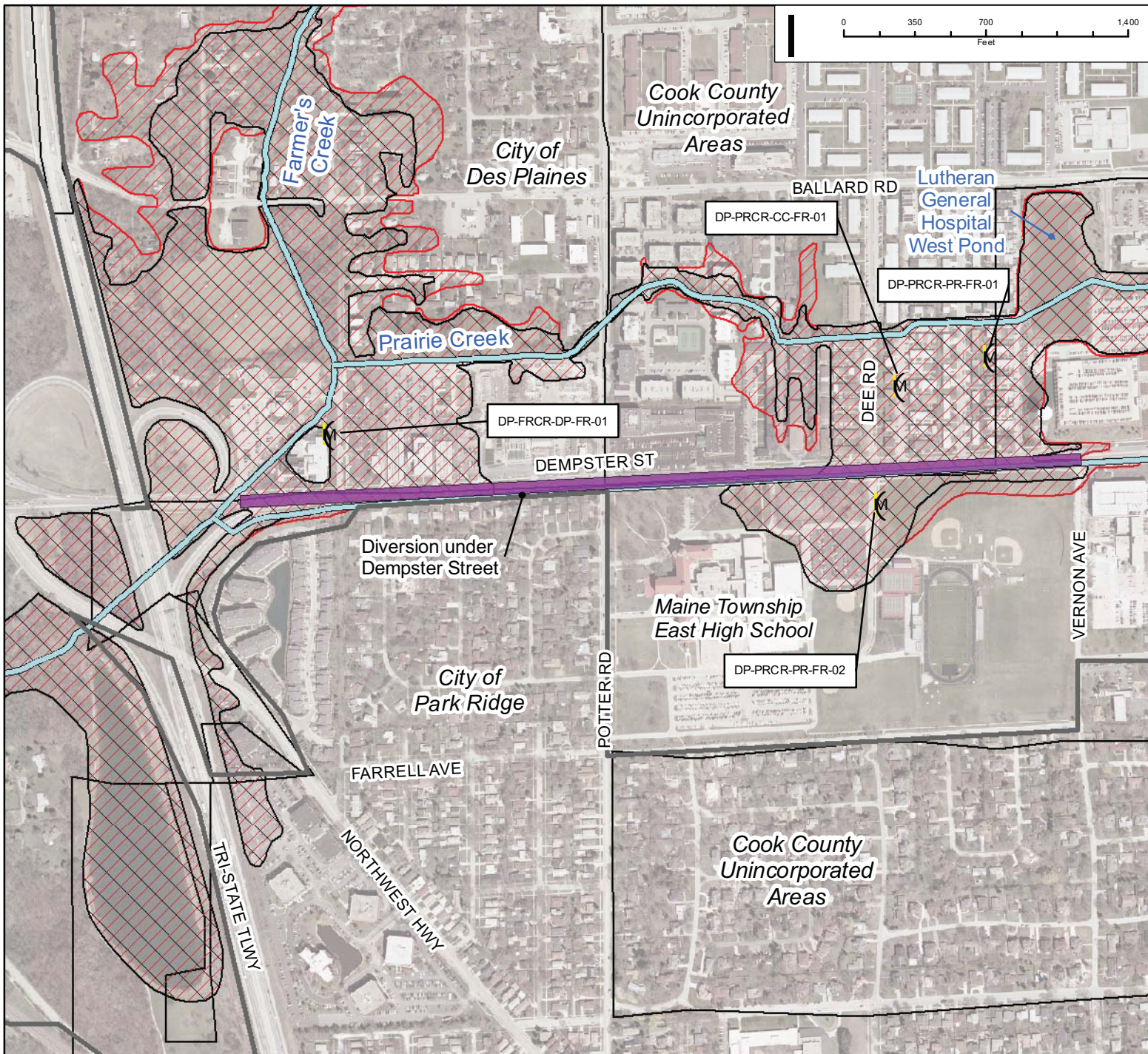
- 100-Year Storm Event Flood Inundation Without Project
- 100-Year Storm Event Flood Inundation With Project
- Reservoir
- Levee/Floodwall
- Culvert/Bridge Modification
- Channel Improvements
- Approximate Creek Channel Location
- Municipal Boundary
- Watershed Boundary
- Problem Areas Modeled Regional



CLIENT:
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TITLE:
LOWER DES PLAINES RIVER DETAILED WATERSHED PLAN FARMERS PRAIRIE CREEK WATERSHED PROPOSED ALTERNATIVE FRCR-5

PROJ. NO.
 DATE: 09-08-2010
 SHEET 1 OF 1
 DRAWING NO.

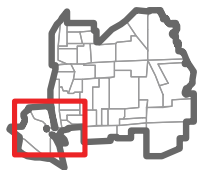


Subwatershed: Farmers Prairie Creek
 Alternative: FRCR-7
 Alternatives Description: Add 72 inch pipe from Farmers Creek to Dee Road & 60 inch pipe from Dee Road to Vernon Avenue under Dempster Street

Concept Level Cost: \$6,650,095
 Benefits: \$8,681,568
 B/C Ratio: 1.3

Legend

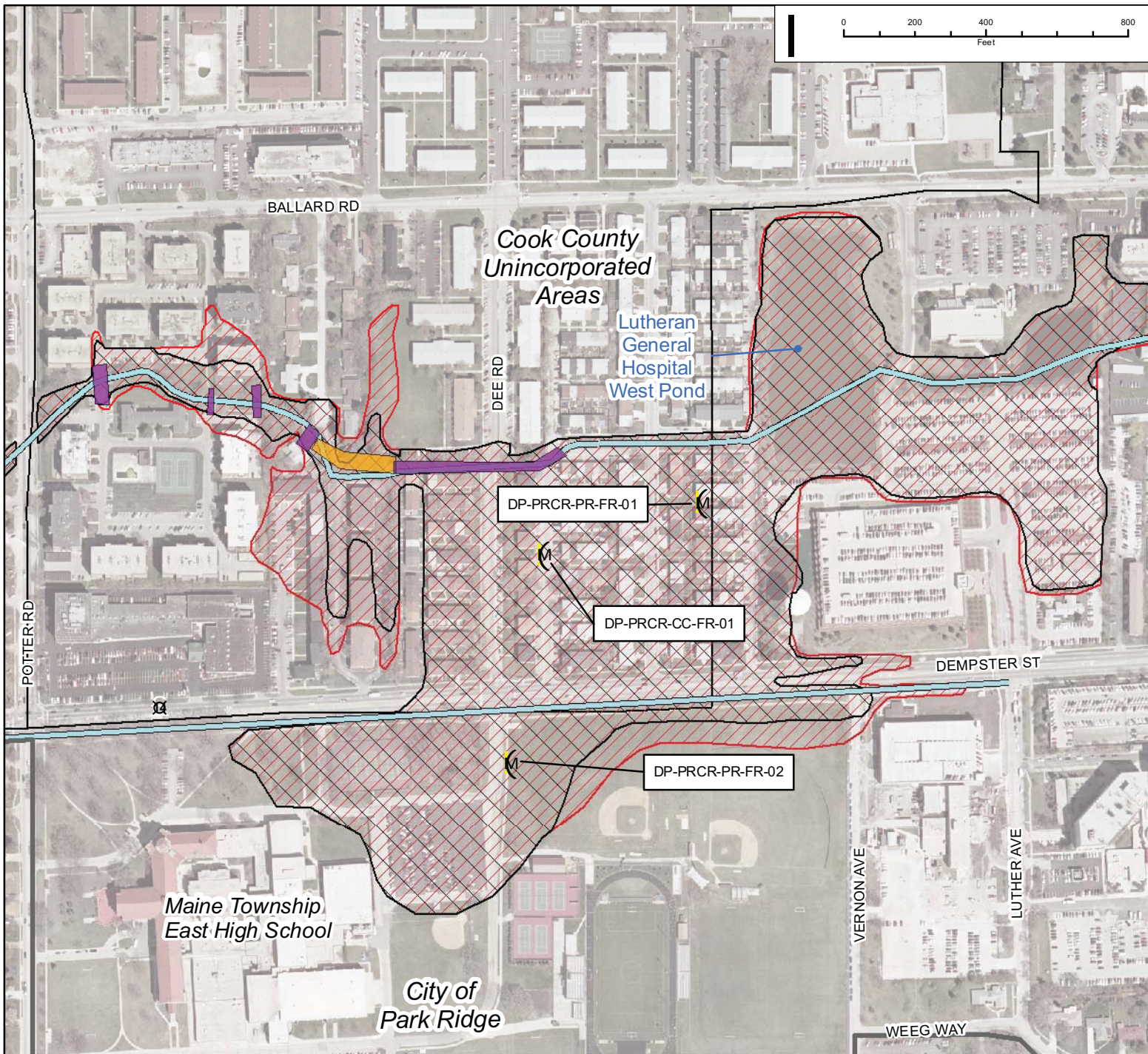
- 100-Year Storm Event Flood Inundation Without Project
- Reservoir
- Approximate Creek Channel Location
- Municipal Boundary
- Watershed Boundary
- Levee/Floodwall
- Culvert/Bridge Modification
- Channel Improvements
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CLIENT:
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TITLE:
LOWER DES PLAINES RIVER DETAILED WATERSHED PLAN FARMERS PRAIRIE CREEK WATERSHED PROPOSED ALTERNATIVE FRCR-7

PROJ. NO.
 DATE: 09-08-2010
 SHEET 1 OF 1
 DRAWING NO.



Subwatershed: Farmers Prairie Creek

Alternative: FRCR-8

- Alternatives Description:
- Channel Improvements
 - Remove fence
 - Replace Driveway with 9W x 4.5H Concrete Box
 - Replace 60 inch pipe with 11.5X8.5 Box
 - Replace Landings with Double 7.5W x 6H Concrete Boxes
 - Replace FootBridge

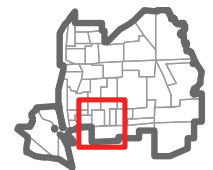
Concept Level Cost: \$2,389,090

Benefits: \$12,317,274

B/C Ratio: 5.2

Legend

- | | | | | | | | |
|--|---|--|-----------------------------|--|------------------------------------|----------------------|------------------|
| | 100-Year Storm Event Flood Inundation Without Project | | Reservoir | | Approximate Creek Channel Location | Problem Areas | |
| | 100-Year Storm Event Flood Inundation With Project | | Levee/Floodwall | | Municipal Boundary | | |
| | | | Culvert/Bridge Modification | | Watershed Boundary | | Modeled Regional |
| | | | Channel Improvements | | | | |



CLIENT:

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TITLE:

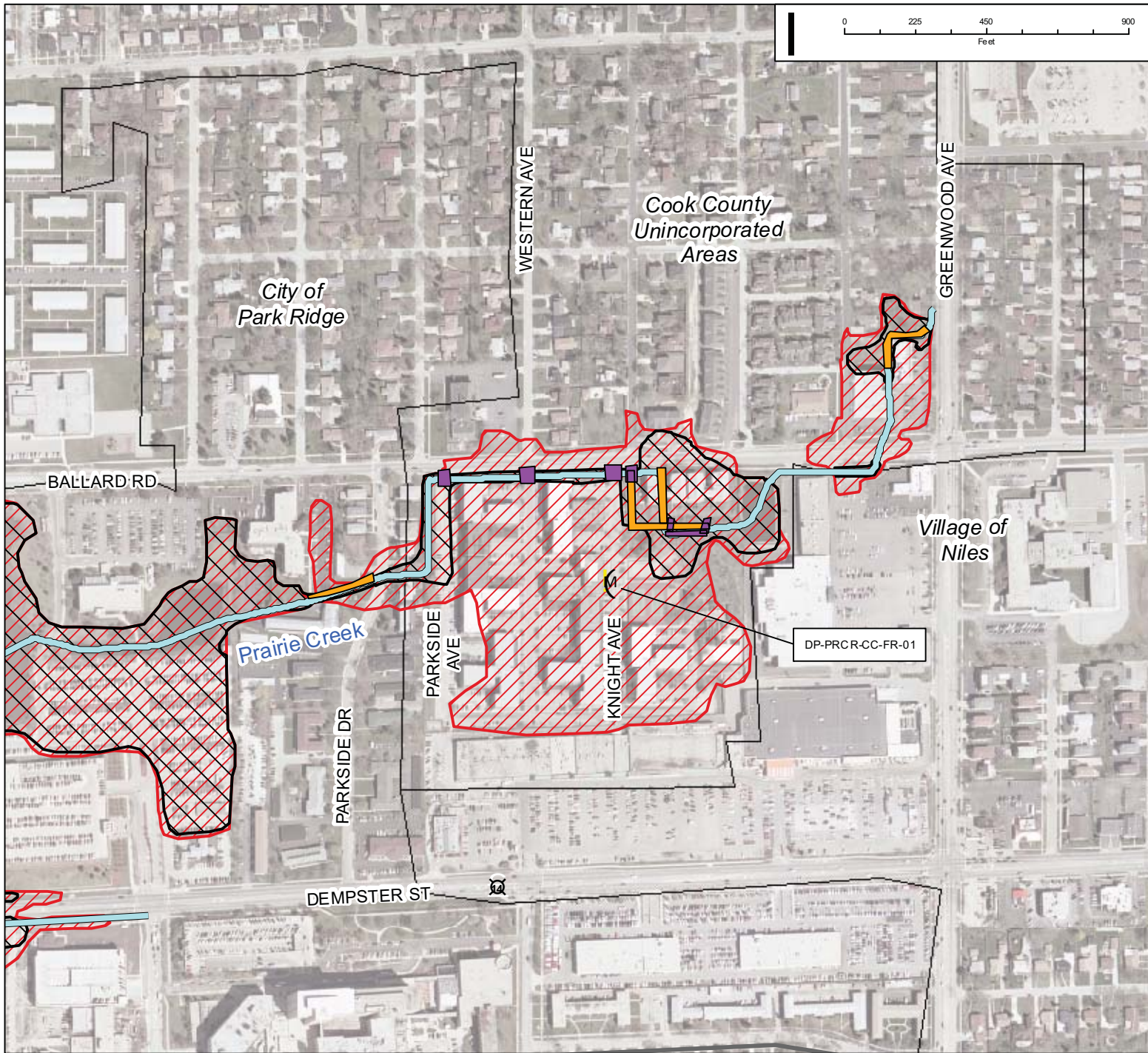
**LOWER DES PLAINES RIVER
DETAILED WATERSHED PLAN
FARMERS PRAIRIE CREEK WATERSHED
PROPOSED ALTERNATIVE FRCR-8**

PROJ. NO.

DATE: 09-08-2010

SHEET 1 OF 1

DRAWING NO.



Subwatershed: Farmers Prairie Creek

Alternative: FRCR-9

Alternatives Description:

- Daylight Channel (Remove 48 inch pipe)
- Remove Restrictor at Parkside
- Remove Restrictor at Western
- Remove Restrictor at Knight
- Remove Entrance Culvert
- Remove Channel beneath apartment
- Remove two footbridges
- New Channel along west side of apartment
- Install footpath along south side of new channel
- Streambank stabilization west of Greenwood Avenue

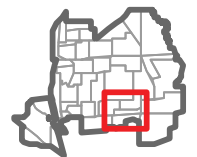
Concept Level Cost: \$7,671,620

Benefits: \$8,123,019

B/C Ratio: 1.1

Legend

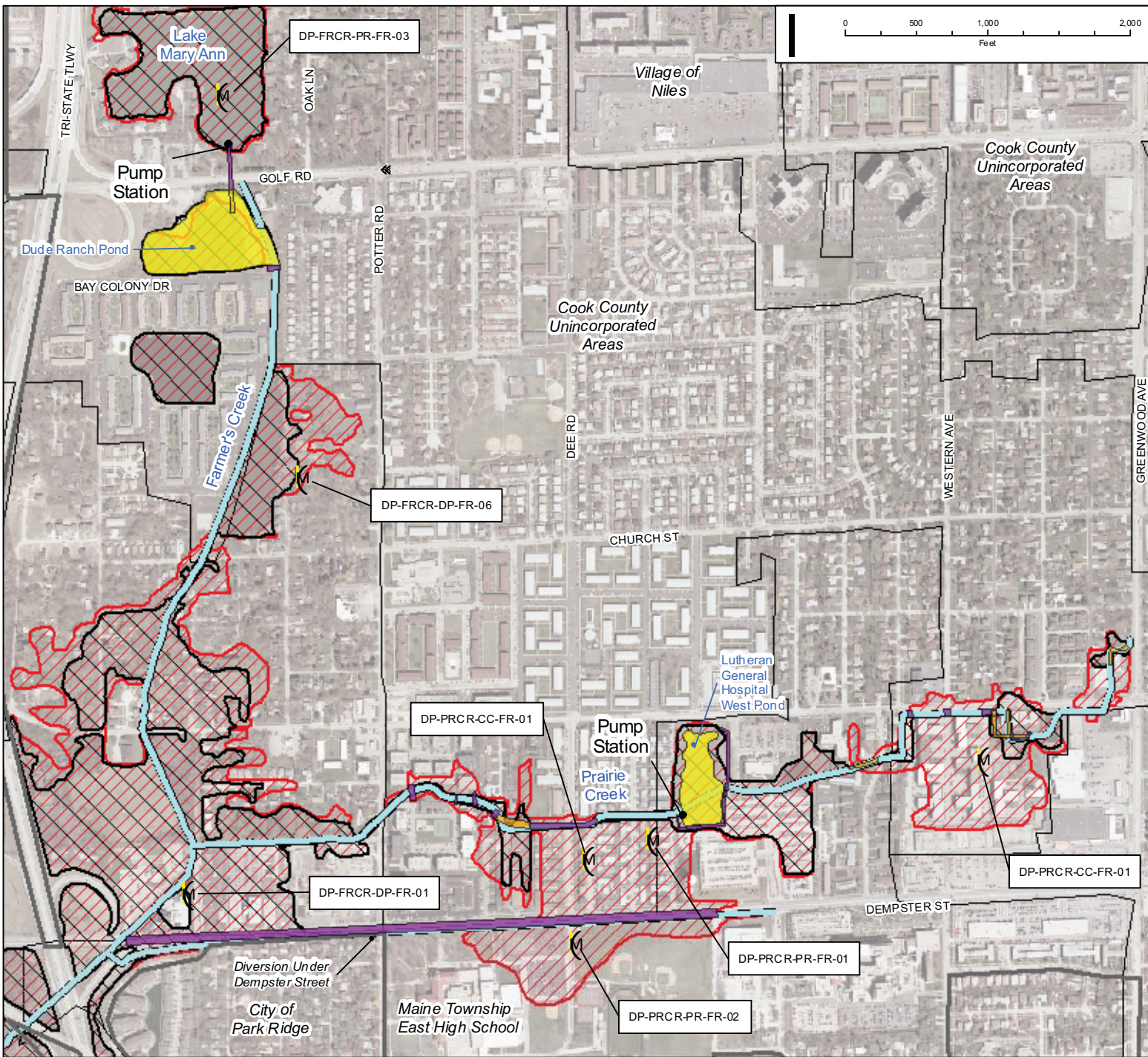
- | | | | | | | | |
|--|---|--|-----------------------------|--|------------------------------------|----------------------|------------------|
| | 100-Year Storm Event Flood Inundation Without Project | | Reservoir | | Approximate Creek Channel Location | Problem Areas | |
| | 100-Year Storm Event Flood Inundation With Project | | Levee/Floodwall | | Municipal Boundary | | |
| | | | Culvert/Bridge Modification | | Watershed Boundary | | Modeled Regional |
| | | | Channel Improvements | | | | |



CLIENT:
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TITLE:
LOWER DES PLAINES RIVER DETAILED WATERSHED PLAN FARMERS PRAIRIE CREEK WATERSHED PROPOSED ALTERNATIVE FRCR-9

PROJ. NO.
DATE: 02-17-2011
SHEET 1 OF 1
DRAWING NO.



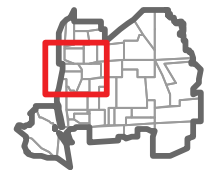
Subwatershed: Farmers Prairie Creek
 Alternative: FRCR-12
 Alternatives Description:

FRCR-1: Force Main outlet for Lake Mary Ann; Farmers Creek Passive Control Structure; Add 10 A-F to Dude Ranch Pond
 FRCR 4: Pump Station; 2 - 60 inch Bypass Pipes; 24 inch Bypass for Ballard subwatershed; Lutheran General Hospital West Pond lowered 6ft to 627; Add a junction Box
 FRCR 7: Add 72 inch pipe from Farmers Creek to Dee Road & 60 inch pipe from Dee Road to Vernon Avenue under Dempster Street
 FRCR 8: Channel Improvements; Replace Driveway with 9W x 4.5H Concrete Box; Replace Landings with Double 7.5W x 6H Concrete Boxes; Replace FootBridge; Remove fence; Replace 60 inch pipe with 11.5X8.5 Box
 FRCR 9: Daylight Channel (Remove 48 inch pipe); Remove Restrictor at Simmons; Remove Restrictor at Western; Remove Restrictor at Knight; Remove Entrance Culvert; Remove Channel beneath apartment; Remove two footbridges; New Channel along west side of apartment; Install footpath along south side of new channel; Streambank stabilization west of Greenwood Avenue

Concept Level Cost: \$19,787,864
 Benefits: \$18,876,571
 B/C Ratio: 1.0

Legend

- 100-Year Storm Event Flood Inundation Without Project
- 100-Year Storm Event Flood Inundation With Project
- Reservoir
- Levee/Floodwall
- Culvert/Bridge Modification
- Channel Improvements
- Approximate Creek Channel Location
- Municipal Boundary
- Watershed Boundary
- Modeled Regional
- Problem Areas



CLIENT:
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TITLE:
LOWER DES PLAINES RIVER DETAILED WATERSHED PLAN FARMERS PRAIRIE CREEK WATERSHED RECOMMENDED ALTERNATIVE FRCR-12

PROJ. NO.
 DATE: 02-17-2011
 SHEET 1 OF 1
 DRAWING NO.