

**SEMINOLE COUNTY GOVERNMENT
AGENDA MEMORANDUM**

SUBJECT: Fern Park Area Utilities Improvements Project

DEPARTMENT: Economic Development **DIVISION:** US 17-92 CRA

AUTHORIZED BY: William McDermott **CONTACT:** Kevin Fall **EXT.** 7133

Agenda Date <u>01/27/04</u> Regular <input type="checkbox"/> Consent <input type="checkbox"/> Work Session <input type="checkbox"/> Briefing <input checked="" type="checkbox"/>
Public Hearing – 1:30 <input type="checkbox"/> Public Hearing – 7:00 <input type="checkbox"/>

MOTION/RECOMMENDATION:

Request Board direction regarding the Fern Park Area Utilities Improvements Project

BACKGROUND:

To address one of the strategic objectives of the US 17-92 Corridor Redevelopment Plan, the Seminole County Environmental Services Department, working in coordination with staff from the cities of Altamonte Springs and Casselberry and from the US 17-92 CRA, has developed preliminary cost estimates for the proposed Fern Park Utilities Improvements Project.

Over the past several months, a project team has been meeting to develop a strategy and implementation plan to ensure that all areas within the Fern Park section of the US 17-92 CRA are equipped with centralized potable water and sanitary sewer services. There are several areas along both sides of US 17-92 where centralized potable water and/or sanitary sewer systems are deficient or non-existent. The utility providers in these areas are Seminole County, and the cities of Altamonte Springs and Casselberry.

The proposed strategy calls for the cities of Casselberry and Altamonte Springs to extend service to both the eastern and western sides of the US 17-92 corridor. The proposed financing plan calls for the use of Community Development Block Grant funds and US 17-92 CRA funds, to assist the respective utilities in covering the costs of constructing these improvements.

From a timing perspective, it is important that the implementation plan be developed in concurrence with the Fern Park Development Framework Study. This CRA study is presently underway and scheduled for completion in late

Reviewed by:
Co Atty: _____
DFS: _____
Other: _____
DCM: <u>[Signature]</u>
CM: <u>[Signature]</u>
File No. <u>BED-01</u>

March 2004. The Study's project team includes a utility consultant charged with developing conceptual designs to enable the incorporation of these utility improvements into the overall design of the State's Urban Reconstruct Road Project. The State's Urban Reconstruct Road Project will convert the existing rural section between the Orange/Seminole County line and Lake of the Woods Blvd. into an urban roadway design. There are significant costs savings available for this project if it is designed and constructed as a part of the State's roadway project.

The attached Project Summary provides mapping details of existing and proposed infrastructure, as well as a range of preliminary cost estimates. It is anticipated that a multi-party interlocal agreement will be necessary to formalize the commitments and timelines associated with the implementation plan and to establish utility customer service areas.

At their February 28, 2003 meeting, the US 17-92 Redevelopment Planning Agency directed staff to work with the County's utility to get the US 17-92 Fern Park area in their master planning efforts.

Attachments: Fern Park Area Utilities Improvements Project Summary

FERN PARK UTILITIES IMPROVEMENTS PROJECT Implementation Plan

Project:

Design and construct centralized potable water and sanitary sewer lines (or extensions of existing systems) in areas along US 17-92 where these facilities do not presently exist (see maps). It is anticipated that the installation/construction of the improvements can be accomplished through the State Urban Reconstruct Project.

Players:

Seminole County, City of Altamonte Springs, City of Casselberry, US 17-92 CRA, CDBG

Proposed Financing Plan:

Municipal Utility funds – respective utility to provide 1/3 of total cost of construction

CDBG funds – provides 1/3 of total cost of construction

CRA funds – provides 1/3 of total cost of construction

Key Events:

- Interlocal agreement – multi-party interlocal agreement will need to be executed between the cities, the County and the US 17-92 CRA to formalize commitments of each entity, confirm funding and schedule, and to address any utility service issues that need to be resolved
- CDBG funding – an application for funding a portion of the improvements is targeted for the FY04/05 CDBG grant allocation
- CRA funding – project funding (CRA share) will need to be adopted into the FY04/05 CRA budget
- Utility funding – project funding (municipal utility portion) will need to be included in the FY04/05 budget and confirmed within the Capital Improvements Element of each municipality
- Fern Park Development Framework Study – will provide the conceptual/preliminary design of the improvements funded by the US 17-92 CRA
- State Urban Reconstruct Project - convert the existing rural section between the Orange/Seminole County line and Lake of the Woods Blvd. into an urban roadway section/curb and gutter. The design phase is scheduled to begin in early 2004 and provides an opportunity for the inclusion of these utility improvements within the overall scope of the FDOT roadway project.

Schedule:

- Jan-March 2004 – preparation and consideration of multi party interlocal agreement
- March/April 2004 – completion of conceptual/preliminary utility designs as part of the Fern Park Development Framework Study
- April 2004 – incorporation of conceptual/preliminary utility designs into the design phase of the State Urban Reconstruct Project
- October 2004 – approve project funding within each entity's respective annual capital budget including CDBG and CRA approvals
- 2005 – Construction of utility improvements as part of State Urban Reconstruct Project

US 17/92 CRA Water & Sewer Expansion Study - TOTAL COST SUMMARY

**Seminole County Environmental Services Department: Opinion of Probable Construction Cost, Engineering & Design
Performed by Seminole County Staff**

Open Cut Method		Water & Sewer Estimate	
Description		Total Price	
Water & Sewer East		\$625,914	
Water & Sewer West		\$672,898	
TOTAL ESTIMATE		\$1,298,812	

"Directional Drill Method-Optional"			
Description			
Total Price			
Water & Sewer East		\$1,130,875	
Water & Sewer West		\$1,499,414	
TOTAL ESTIMATE		\$2,630,289	

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US 17/92 CRA Water & Sewer Expansion Study
 Opinion of Probable Engineering and Construction Cost
 Performed by Seminole County Staff

US 17/92 "WEST" - Opinion of Probable Cost

Water Distribution Estimate Open Cut				Option Water System Estimate Directional Drill				Sewer System Estimate - Open Cut			
Item Description	Quantity	Unit Price (1)	Total Price	Item Description	Quantity	Unit Price (1)	Total Price	Item Description	Quantity	Unit Price (1)	Total Price
Service Connections	12	\$334.00	\$4,008	Service Connections	12	\$334.00	\$4,008	Single Service	12	\$126.00	\$1,512
Dewatering	1 (LS)	\$30,000.00	\$30,000								
8" PVC C900 DR18 W. Main	3,000	\$15.00	\$45,000	8" HDPE Water Main	3,000	\$212.00	\$636,000	6" PVC DR14 Sewer FM	6,750	\$16.50	\$111,375
8" Gate Valve & Box	4	\$712.00	\$2,848	8" Gate Valve & Box	4	\$712.00	\$2,848	6' Dia. Lift Station & Force Main	1	\$68,580.00	\$68,580
Fire Hydrant Assembly	5	\$1,827.00	\$9,135	Fire Hydrant Assembly	5	\$1,827.00	\$9,135	6" Jack & Bore w/16" casing	250	\$100.00	\$25,000
8" Wet Tap Assembly	4	\$2,528.00	\$10,112	8" Wet Tap Assembly	4	\$2,528.00	\$10,112	Fittings	1	\$7,000.00	\$7,000
2" Blow off	2	\$275.00	\$550	2" Blow off	2	\$275.00	\$550	Connect to Existing Manhole	1	\$5,031.00	\$5,031
Driveway Crossings	100	\$130.00	\$13,000	Temporary Jumper Assembly	2	\$910.00	\$1,820	ROW Restoration	1	\$2,863.00	\$2,863
Temporary Jumper Assembly	2	\$910.00	\$1,820	Building Services	12	\$1,555.00	\$18,660	Maintenance of Traffic	1	\$10,000.00	\$10,000
Building Services	12	\$1,555.00	\$18,660	Mechanical Joint Fittings	1	\$8,842.00	\$8,842	ID Wire & Tape / Marker Balls	1	\$983.00	\$983
Mechanical Joint Fittings	1	\$7,074.00	\$7,074	Connect to Existing Water Main	3	\$6,900.00	\$20,700	Temp Fencing	1	\$2,830.00	\$2,830
Connect to Existing Water Main	4	\$6,900.00	\$27,600	Connect to Existing Water Main	3	\$6,900.00	\$20,700	Maintenance of Traffic	1	\$10,000.00	\$10,000
ID Wire & Tape /Marker Balls	1	\$983.00	\$983	ID Wire & Tape / Marker Balls	1	\$983.00	\$983	Testing	1	\$3,000.00	\$3,000
Geotechnical Testing	1	\$5,000.00	\$5,000	Geotechnical Testing	1	\$5,000.00	\$5,000	Subtotal			\$248,174
Maintenance of Traffic	1	\$10,000.00	\$10,000	Maintenance of Traffic	1	\$10,000.00	\$10,000	Subtotal plus 5% (mob./demo.)	0.05	\$214,796.00	\$10,740
Certified As-Builts	1	\$5,000.00	\$5,000	Certified As-Builts	1	\$5,000.00	\$5,000				\$258,914
Chlorination & Pressure Test	1	\$1,310.00	\$1,310	Chlorination & Pressure Test	1	\$1,310.00	\$1,310				
Subtotal			\$192,100	Subtotal			\$734,968				
Subtotal plus 5% (mob./demo.)	0.05	\$192,100	\$9,605	Subtotal plus 5% (mob./demo.)	0.05	\$734,968	\$36,748				
			\$201,705				\$771,716				

A. Subtotal - Water Construction	\$201,705	A. Subtotal - Water Construction	\$771,716
B. Subtotal - Sewer Construction	\$258,914	B. Subtotal - Sewer Construction	\$258,914
C. Subtotal -Water & Sewer	\$460,619	C. Subtotal -Water & Sewer	\$1,030,630

Design, Permitting and Construction Inspection/Administration Costs (CEI)		Design, Permitting and Construction Inspection/Administration Costs (CEI)	
Design	0.15 \$460,619 \$69,093	Design	0.15 \$1,030,630 \$154,595
Permitting	\$5,000	Permitting	\$5,000
CEI	0.1 \$460,619 \$46,062	CEI	0.1 \$1,030,630 \$103,063
Contingency	0.1 \$460,619 \$46,062	Contingency	0.1 \$1,030,630 \$103,063
B. Subtotal - Design, Permitting, CEI	\$166,217	B. Subtotal - Design, Permitting, CEI	\$365,721

A. Subtotal - Construction	\$460,619	A. Subtotal - Construction	\$1,030,630
B. Subtotal - Design, Permitting, CEI	\$166,217	B. Subtotal - Design, Permitting, CEI	\$365,721
C. Construction Contingency	0.1 \$460,619 \$46,062	C. Construction Contingency	0.1 \$1,030,630 \$103,063
C. Project Cost	\$672,898	C. Project Cost	\$1,499,414

(1) Construction unit prices based on average unit prices from local contractors
 (2) 25% of project: Engineering Design, Permitting and Construction Inspection/Administration Cost (CEI)

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US 17/92 CRA Water & Sewer Expansion Study

Opinion of Probable Engineering and Construction Cost

Performed by Seminole County Staff

US 17/92 "EAST" - Opinion of Probable Cost

Item Description	Water Distribution Estimate Open Cut			Item Description	Water System Estimate Directional Drill			Item Description	Sewer System Estimate - Open Cut		
	Quantity	Unit Price (1)	Total Price		Quantity	Unit Price (1)	Total Price		Quantity	Unit Price (1)	Total Price
Service Connections	9	\$334.00	\$3,006	Service Connections	9	\$334.00	\$3,006	Service Connections	9	\$126.00	\$1,134
Dewatering	1 (LS)	\$30,000.00	\$30,000								
10" PVC C900 DR18 W. Main	2,000	\$22.00	\$44,000	10" HDPE Water Main	2,000	\$212.00	\$424,000	6" PVC DR14 Sewer FM	4,750	\$16.50	\$78,375
10" Gate Valve & Box	4	\$1,000.00	\$4,000	10" Gate Valve & Box	4	\$712.00	\$2,848	6' Dia. Lift Station & Force Main	1	\$68,580.00	\$68,580
Fire Hydrant Assembly	5	\$1,827.00	\$9,135	Fire Hydrant Assembly	5	\$1,827.00	\$9,135	6" Jack & Bore w/16" casing	250	\$100.00	\$25,000
10" Wet Tap Assembly	4	\$3,165.00	\$12,660	10" Wet Tap Assembly	4	\$3,165.00	\$12,660	Fittings	1	\$7,000.00	\$7,000
2" Blow off	2	\$275.00	\$550	2" Blow off	2	\$275.00	\$550	Connect to Existing Manhole	1	\$5,031.00	\$5,031
Driveway Crossings	100	\$130.00	\$13,000					ROW Restoration	1	\$2,863.00	\$2,863
Temporary Jumper Assembly	2	\$1,000.00	\$2,000	Temporary Jumper Assembly	2	\$1,000.00	\$2,000	Maintenance of Traffic	1	\$10,000.00	\$10,000
Building Services	12	\$1,555.00	\$18,660	Building Services	12	\$1,555.00	\$18,660	ID Wire & Tape / Marker Balls	1	\$983.00	\$983
Mechanical Joint Fittings	1	\$8,842.00	\$8,842	Mechanical Joint Fittings	1	\$8,842.00	\$8,842	Temp Fencing	1	\$2,830.00	\$2,830
Connect to Existing Water Main	4	\$6,900.00	\$27,600	Connect to Existing Water Main	3	\$6,900.00	\$20,700	Maintenance of Traffic	1	\$10,000.00	\$10,000
ID Wire & Tape / Marker Balls	1	\$983.00	\$983	ID Wire & Tape / Marker Balls	1	\$983.00	\$983	Testing	1	\$3,000.00	\$3,000
Geotechnical Testing	1	\$5,000.00	\$5,000	Geotechnical Testing	1	\$5,000.00	\$5,000	Subtotal			\$214,796
Maintenance of Traffic	1	\$10,000.00	\$10,000	Maintenance of Traffic	1	\$10,000.00	\$10,000	Subtotal plus 5% (mob./demo.)	0.05	\$214,796.00	\$10,740
Certified As-Builts	1	\$5,000.00	\$5,000	Certified As-Builts	1	\$5,000.00	\$5,000				\$225,536
Chlorination & Pressure Test	1	\$1,310.00	\$1,310	Chlorination & Pressure Test	1	\$1,310.00	\$1,310				
Subtotal			\$195,746	Subtotal			\$524,694				
Subtotal plus 5% (mob./demo.)	0.05	\$195,746	\$9,787	Subtotal plus 5% (mob./demo.)	0.05	\$524,694	\$26,235				
			\$205,533				\$550,929				

A. Subtotal - Water Construction	\$205,553	A. Subtotal - Water Construction	\$550,929
B. Subtotal - Sewer Construction	\$225,536	B. Subtotal - Sewer Construction	\$225,536
C. Subtotal -Water & Sewer	\$431,089	C. Subtotal -Water & Sewer	\$776,465

Design, Permitting and Construction Inspection/Administration Costs (CEI)			
Design	0.15	\$431,089	\$64,663
Permitting			\$5,000
CEI	0.1	\$431,089	\$43,109
Contingency	0.1	\$431,089	\$43,109
B. Subtotal - Design, Permitting, CEI			\$155,881
A. Subtotal - Construction			\$426,924
B. Subtotal - Design, Permitting, CEI			\$155,881
C. Construction Contingency	0.1	\$431,089	\$43,109
C. Project Cost			\$625,914

Design, Permitting and Construction Inspection/Administration Costs (CEI)			
Design	0.15	\$776,465	\$116,470
Permitting			\$5,000
CEI	0.1	\$776,465	\$77,647
Contingency	0.1	\$776,465	\$77,647
B. Subtotal - Design, Permitting, CEI			\$276,763
A. Subtotal - Construction			\$776,465
B. Subtotal - Design, Permitting, CEI			\$276,763
C. Construction Contingency	0.1	\$776,465	\$77,647
C. Project Cost			\$1,130,875

(1) Construction unit prices based on average unit prices from local contractors
 (2) 25% of project: Engineering Design, Permitting and Construction Inspection/Administration Cost (CEI)