

PORT ST. LUCIE CITY COUNCIL  
AGENDA ITEM REQUEST

Meeting Date: January 23, 2012

Public Hearing \_\_\_\_\_ Ordinance \_\_\_\_\_ Resolution \_\_\_\_\_ Motion X

Item: #20070008, City Wide Culvert Replacements & Sidewalk Construction, **Amendment #21, Change Order #4**, Melvin Bush Construction, E-8 Canal Drainage Improvements, Natural Resources Conservation Service (NRCS), Watershed Protection Program Project, \$295,122.16 cost increase for necessary additional work and additional thirty (30) days for project completion.

Recommended Action:

Approval of contract Change Order #4, Contract # 20070008, Amendment #21, with Melvin Bush Construction for E-8 Canal Drainage Improvements for additional work and materials to complete this project and an adjustment to quantities previously approved. The contract amount will increase by \$295,122.16 for a new total of \$1,895,475.08. Thirty (30) additional calendar days are requested for completion of project for a new total of calendar days of 231. Approval of contract change order document is also requested.

Vendor/Contractor has indicated that they do have a Drug-Free Workplace Program in place.

Exhibits: Department memo attached [ x ] yes [ ] no

- Copy of the Amendment #21, **Change Order #4** document.
- Copy of correspondence from Captec Engineering, Inc. with City including Contractor's proposal.

Summary Explanation/Background Information:

Change Order #4 to Amendment #21 of the City's existing contract is for an increase in needed work and materials for an increase of \$295,122.16 for a new contract amount of \$1,895,475.08. The changes in the scope of work and materials include various E-8 Canal locations. The number of days allowed for project completion is changed to 231 calendar days for a new completion date of 3/1/2012. This is a 75% Natural Resources Conservation Service (NRCS) and 25% City funded project.

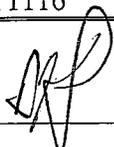
Purchase (x) is ( ) is not a replacement

This project has been budgeted.

Total Expenditure  
Including all change orders to date: \$1,895,475.08

Department requests expenditure from the following:

Fund	401	Stormwater Utility Fund
Cost Center	4126	Street & Drainage
Object Code	534000	Other contractual services
Project	Y1116	NRCS Grant-Emergency Watershed

Director of **RECEIVED** ~~City~~ concurs with award:  City Manager concurs with award: 

JAN 17 2012

Submitted by: Patricia Roebling Date Submitted: 1/13/2012

Title: City Engineer City Manager's Office



"A City for All Ages"

# CITY OF PORT ST. LUCIE

Engineering Department

Accredited Agency – American Public Works Association

**To:** Cheryl Shanaberger, OMB Deputy Director  
Barbara Moquin, Contract Specialist

**Thru:** James E. Angstadt, P.E. JEA

**From:** Larry Nadeau, Project Manager LN

**Date:** January 13, 2012

**Re:** Melvin Bush Construction, Inc. Contract #20070008 Amendment #21, CO#4  
E-8 Canal Repairs - Natural Resources Conservation Service EWP Program

Attached please find a change order form, department memo, along with CAPTEC Engineering, Inc. support documentation for the Melvin Bush Construction, Inc. Change Order #4 through Contract #20070008 Amendment #21 for additional work, extension of completion date, and quantity adjustments associated with the E-8 Canal drainage improvements. The Engineering Department is requesting authorization by the City Council for the City Manager to execute the necessary change order as referenced above and further described below.

Highlights of this change order are as follows and further described in the attachments:

- December 2011 rain events required the contractor to remove earthen dams to prevent upstream flooding during the storms. The removal and reconstruction of the earthen dams required additional time and expense;
- Final quantity adjustments of completed projects;
- NRCS approved additional improvements within the E-8 Canal drainage basin.

The Engineering Department recommends approval of Change Order #4 as presented. Please schedule for presentation at the next available City Council meeting for their review and consideration. Three (3) original signed change order forms will be forwarded to your office once they have been signed by the contractor and engineer. If you have any questions or require additional information, please do not hesitate to contact me.

/ln

Attachments

cc: Jesus Merejo – Utility Systems Director  
Patricia Roebing, P.E. – City Engineer  
Kimberly Graham, P.E. – Assistant City Engineer  
Dave Pollard - OMB Director  
Susan Walsh, Manager-Operations



January 12, 2012  
801.5.4

Mr. Larry Nadeau  
City of Port St. Lucie  
900 SE Ogden Lane  
Port St. Lucie, Florida 34984  
(772) 871-5100  
Fax: (772) 871-7397

**RE: City of Port St. Lucie –  
Contract No. 20070008/Amendment No. 21 – E-8 Waterway NRCS EWP Repairs  
PO # 20112657-00  
Melvin Bush Construction, Inc.  
ADDITIONAL COST & TIME EXTENSION – CHANGE ORDER NO. 4**

Dear Larry:

Melvin Bush Construction, the Prime Contractor on the E-8 Waterway NRCS EWP Repairs Contract and their subcontractor, Blazer Construction are continuing to progress with the completion of the original eight (8) projects in the above referenced contract. The completion of several projects has required additional work that was not originally specified, as well as some final quantities exceeded original estimated quantities resulting in project overruns.

The contractor is currently on schedule to complete the original 8 projects within the allowable contract time. As there is currently sufficient funding within the NRCS approved budget to address the next section of E-8 canal, previously identified and approved by NRCS for repairs, the contractor has provided a proposal to complete this next section. This section picks up at the end of the B-15 Control Structure section and continues to the bridge at Savage Blvd. This additional work along with some other minor repairs at various locations within the E-8 canals system will require an additional 30 days to complete. NRCS has indicated that additional time was available if needed.

Therefore, please find attached Change Order No. 4 for the above referenced Contract. This Change Order will increase the Contract amount \$295,122.16 and will add 30 days to the Contract duration. The new Contract Completion Date will be March 1, 2012.

The breakdown on this Change Order is as follows:

Original Contract Amount:	\$ 1,354,587.43	111 Days
Previous Change Order #1, #2 & #3:	\$ 245,765.49	90 Days

Mr. Larry Nadeau  
January 12, 2012  
Page Two

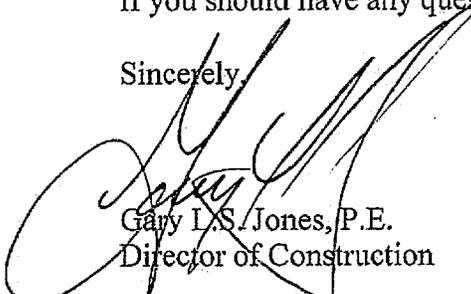
Adjusted Contract Amount:	\$ 1,600,352.92	201 Days
Changes this Change Order:	\$ 295,122.16	30 Days
<b>Total</b>	<b>\$ 1,895,475.08</b>	<b>231 Days</b>

All other provisions of the Original Contract / Addendum remain in full force and effect.

CAPTEC has reviewed the cost associated with the above work and has found them to be fair, reasonable and in line with terms of the Contract. Therefore, CAPTEC recommends approval of this Change Order and request the City's review and approval to proceed with processing. Please review the attached documentation and advise if acceptable. Three (3) copies of this Change Order will be submitted to the contractor for signatures if acceptable and will be forwarded to the City for further processing upon receipt by this office.

If you should have any questions, or require any additional information, please feel free to contact me.

Sincerely,



Gary L.S. Jones, P.E.  
Director of Construction

CC: File

P:\800\801.5.4\Construction\Larry CO #4 011212.doc

**CHANGE ORDER**

No.: Change Order # 4

<b>PROJECT:</b>	E-8 Waterway NRCS EWP Repairs	<b>DATE OF ISSUANCE:</b>	_____
<b>OWNER:</b>	City of Port St. Lucie 121 SW Port St. Lucie Boulevard Port St. Lucie, Florida 34984		
<b>CONTRACTOR:</b>	Melvin Bush Construction, Inc. 2748 SW Casella Street Port St. Lucie, Florida 34953-2762	<b>OWNER's Project No.:</b>	<u>20070008/Amend #21</u>
		<b>ENGINEER:</b>	CAPTEC Engineering Inc.
<b>CONTRACT FOR:</b>	Contract #20070008 - Admendment #21 E-8 WW NRCS EWP Repairs	<b>ENGINEER's Project #</b>	<u>801.5.4</u>

You are directed to make the following changes in the Contract Documents.

**Description:** City of Port St. Lucie Contract No. 20070008 / Amendment #21  
Purchase Order No.: 20112657-00

**Purpose of Change Order:**

- 1) Provides for a true up of final quantities on projects completed of \$12,141.90.
- 2) Provides for an increase of \$40,469.95 to add additional rip rap rubble to stabilize the toe of slope at Import Drive.
- 3) Provides for an increase of \$1,789.81 to extend the wingwalls and the 72" CAP pipe at Logwood to replace damaged pipe ends.
- 4) Provides for and increase of \$220,720.50 for restoration and regrading of the E-8 Canal from the west end of Schedule No. 7 project to Savage Blvd. Bridge, the final section of the E-8 Canal.
- 5) Extend the Contract Time by thirty (30) calendar days making March 1, 2012, the Contract completion date. The time extension is required to provide sufficient time to complete additional work on the E-8 canal located between Control Structure B-24 and the project recently completed at B-15 as well as some slope repairs on isolated areas of the E-8 canal caused by the high water rapid draw downs.
- 6) All other provisions of the Original Contract / Addendum remain in full force and effect.

**Contract Time:**

All work shall be completed by March 1, 2012 the Final Contract Completion Date.

Attachments: Exhibit B

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIME:
Original Contract Price <u>\$1,354,587.43</u>	Original Contract Time <u>111</u> date
Previous Change Orders 1, 2 & 3 <u>\$245,765.49</u>	Net change from previous Change Orders 1, 2 & 3 <u>90</u> days
Contract Price prior to this Change Order <u>\$1,600,352.92</u>	Contract Time prior to this Change Order <u>201</u> date
Increase this Change Order <u>\$295,122.16</u>	Net Increase of this Change Order <u>30</u> days
Contract Price with all approved Change Orders <u>\$1,895,475.08</u>	Contract Time with all approved Change Orders <u>231</u> date

RECOMMENDED:

By \_\_\_\_\_  
Engineer

APPROVED:

by \_\_\_\_\_  
Owner

APPROVED:

by \_\_\_\_\_  
Contractor

**Schedule 1 -E-8 Canal Repairs @ E-48 Canal**

1/12/2012

Description	Unit	Original Quantity	Original Unit Price	New Unit Price	New Quantity	Adjustement This CO	Amount	
<b>General Items</b>								
<b>Subtotal General Items</b>							\$0.00	
<b>Roadway &amp; Drainage Items:</b>								
Channel Restoration Regrading	HR	37.0	\$588.50	\$588.50	26.15293	-10.8	(\$6,383.50)	
Fill Material - Furnish and Install	CY	0.0	\$13.00	\$13.00	1494	1494.0	\$19,422.00	
Rip Rap	TN	630.0	\$168.00	\$168.00	583	-47.0	(\$7,896.00)	
<b>Subtotal Roadway and Drainage Items</b>							\$5,142.50	
<b>Planting &amp; Grassing Items</b>								
<b>Subtotal Planting and Grassing Items</b>							\$0.00	
<b>SUBTOTAL SCHEDULE 1 CHANGES</b>								\$5,142.50

**Schedule 2 E-8 Canal Repairs @ Import Drive**

Description	Unit	Original Quantity	Original Unit Price	New Unit Price	New Quantity	Adjustement This CO	Amount	
<b>General Items</b>								
<b>Subtotal General Items</b>							\$0.00	
<b>Roadway and Drainage Items</b>								
Rip Rap Rubble	TN	0.0	\$168.00	\$168.00	199.3	199.3	\$33,482.40	
Excavator	HR	38.0	\$125.00	\$125.00	46.5	8.5	\$1,062.50	
Loader	HR	38.0	\$90.00	\$90.00	46.5	8.5	\$765.00	
Dump Truck	HR	38.0	\$65.00	\$65.00	39.5	1.5	\$97.50	
Labor Crew	HR	38.0	\$341.00	\$341.00	46.5	8.5	\$2,898.50	
<b>Subtotal Roadway and Drainage Items</b>							\$38,305.90	
<b>Planting &amp; Grassing Items:</b>								
Performance Turf	SY	1730.0	\$3.15	\$3.15	2417	687.0	\$2,164.05	
<b>Subtotal Planting and Grassing Items</b>							\$2,164.05	
<b>SUBTOTAL SCHEDULE 2 CHANGES</b>								\$40,469.95

### Schedule 3 E-8 Canal Repairs @ Kensington Drive

General Items																						
Subtotal General Items																					\$0.00	
Roadway and Drainage Items																						
Inlet Riser																						
Type E Inlet (0'-7' deep)	EA	0.0	\$588.00	\$588.00	\$588.00					1	1.0									\$588.00		
Type C Inlet (0' - 7' deep)	EA	2.0	\$1,858.00	\$1,858.00	\$1,858.00					0	-2.0										(\$3,716.00)	
	EA	0.0	\$1,285.00	\$1,285.00	\$1,285.00					2	2.0										\$2,570.00	
Subtotal Roadway and Drainage Items																					(\$558.00)	
Planting and Grassing Items																						
Subtotal Planting and Grassing Items																					\$0.00	
SUBTOTAL SCHEDULE 3 CHANGES																						(\$558.00)

### Schedule 4 E-8 Canal Repairs @ Logwood Road

General Items																					
Subtotal General Items																					\$0.00
Roadway and Drainage Items:																					
Embankment																					
Class I Concrete	CY	0.0	\$13.00	\$13.00	\$13.00						0.0										\$0.00
Pipe Culvert CAP 72"	CY	0.0	\$1,016.10	\$1,016.10	\$1,016.10					12.1	12.1										\$12,284.81
Transporting 72" CAP from Kensington to Logwood - Loader	LF	40.0	\$301.00	\$301.00	\$301.00					70	30.0										\$9,030.00
Transporting 72" CAP from Kensington to Logwood - Dump Truck	HR	0.0	\$90.00	\$90.00	\$90.00					3	3.0										\$270.00
	HR	0.0	\$65.00	\$65.00	\$65.00					3	3.0										\$195.00
Subtotal Roadway and Drainage Items																					\$21,789.81
Planting & Grassing Items																					
Subtotal Planting and Grassing Items																					\$0.00
SUBTOTAL SCHEDULE 4 CHANGES																					\$21,789.81



## Schedule 8 -E-8 Canal Repairs @ B-24 Control Structure

General Items									
Subtotal General Items									
\$0.00									
Roadway & Drainage Items:									
Subtotal Roadway and Drainage Items									
\$0.00									
Planting & Grassing Items									
Subtotal Planting and Grassing Items									
\$0.00									
<b>SUBTOTAL SCHEDULE 8 CHANGES</b>									
<b>\$0.00</b>									

## Schedule 9 -E-8 Canal Repairs @ Port St. Lucie Blvd.

General Items									
Subtotal General Items									
\$0.00									
Roadway & Drainage Items:									
Excavator @ 125.00/hour	HR	5.0	\$125.00	\$125.00	11	6.0	\$750.00		\$750.00
Loader @ 90.00/hour	HR	10.0	\$90.00	\$90.00	11	1.0	\$90.00		\$90.00
Dump Truck @ \$65.00/hour	HR	10.0	\$65.00	\$65.00	8	-2.0	(\$130.00)		(\$130.00)
labor Crew @ \$341.00/hour	HR	10.0	\$341.00	\$341.00	11	1.0	\$341.00		\$341.00
Excavator @ \$110.00/hour	HR	5.0	\$110.00	\$110.00	0	-5.0	(\$550.00)		(\$550.00)
18" RCP	LF	8.0	\$101.00	\$101.00	14.5	6.5	\$656.50		\$656.50
30" RCP	LF	13.0	\$155.50	\$155.50	19	6.0	\$933.00		\$933.00
Fill Material	CY	60.0	\$5.90	\$5.90	126	66.0	\$389.40		\$389.40
4" Thick Sidewalk	SY	0.0	\$51.00	\$51.00	28.5	28.5	\$1,453.50		\$1,453.50
Remove and Dispose of Concrete	SY	0.0	\$10.00	\$10.00	28.5	28.5	\$285.00		\$285.00
Subtotal Roadway and Drainage Items									
\$4,218.40									

Planting & Grassing Items									
Performance Turf									
SY	420.0	\$3.15	\$3.15	1000	580.0	\$1,827.00		\$1,827.00	
Subtotal Planting and Grassing Items									
\$1,827.00									
<b>SUBTOTAL SCHEDULE 9 CHANGES</b>									
<b>\$6,045.40</b>									

# Schedule 10 -E-8 Canal Repairs @ West of B-15 Control Structure

General Items		LS	0.0	\$2,000.00	\$2,000.00	1	1.0	\$2,000.00
Mobilization		LS	130.0					
Floating Turbidity Barrier 130' included in Clearing and Grubbing		LS	0.0	\$1,000.00	\$1,000.00	1	1.0	\$1,000.00
Clearing and Grubbing		LS	0.0					
<b>Subtotal General Items</b>								<b>\$3,000.00</b>

Roadway & Drainage Items:		HR	0.0	\$125.00	\$125.00	218	218.0	\$27,250.00
Channel Restoration and Regrading 218 hours		HR	0.0	\$110.00	\$110.00	218	218.0	\$23,980.00
Excavator @ 125.00/hour		HR	0.0	\$90.00	\$90.00	218	218.0	\$19,620.00
Dozer @ \$110.00/hour		HR	0.0	\$65.00	\$65.00	218	218.0	\$14,170.00
Loader @ \$90.00/hour		HR	0.0	\$341.00	\$341.00	218	218.0	\$74,338.00
Dump Truck @ \$65.00/hour		HR	0.0	\$475.00	\$475.00	1	1.0	\$475.00
labor Crew @ \$341.00/hour		EA	0.0	\$700.00	\$700.00	1	1.0	\$700.00
24" Mitered End Section		EA	0.0	\$168.00	\$168.00	22	22.0	\$3,696.00
30" Mitered End Section		CY	0.0	\$5.90	\$5.90	3060	3060.0	\$18,054.00
Rip Rap		CY	0.0					
Embankment (Furnish only)								
<b>Subtotal Roadway and Drainage Items</b>								<b>\$182,283.00</b>

Planting & Grassing Items		SY	0.0	\$3.15	\$3.15	11250	11250.0	\$35,437.50
Performance Turf		SY	0.0					
<b>Subtotal Planting and Grassing Items</b>								<b>\$35,437.50</b>
<b>SUBTOTAL SCHEDULE 9 CHANGES</b>								<b>\$220,720.50</b>

**TOTAL CHANGES CO #4 \$295,122.16**

**DEWATERING NOTE:**

- IT IS ANTICIPATED THIS WORK WILL REQUIRE LIMITED DEWATERING THAT WILL BE BELOW PERMIT THRESHOLDS.
- CONTRACTOR SHALL SUBMIT A DEWATERING PLAN PRIOR TO MOBILIZATION TO DESCRIBE PROPOSED CONSTRUCTION METHODS.

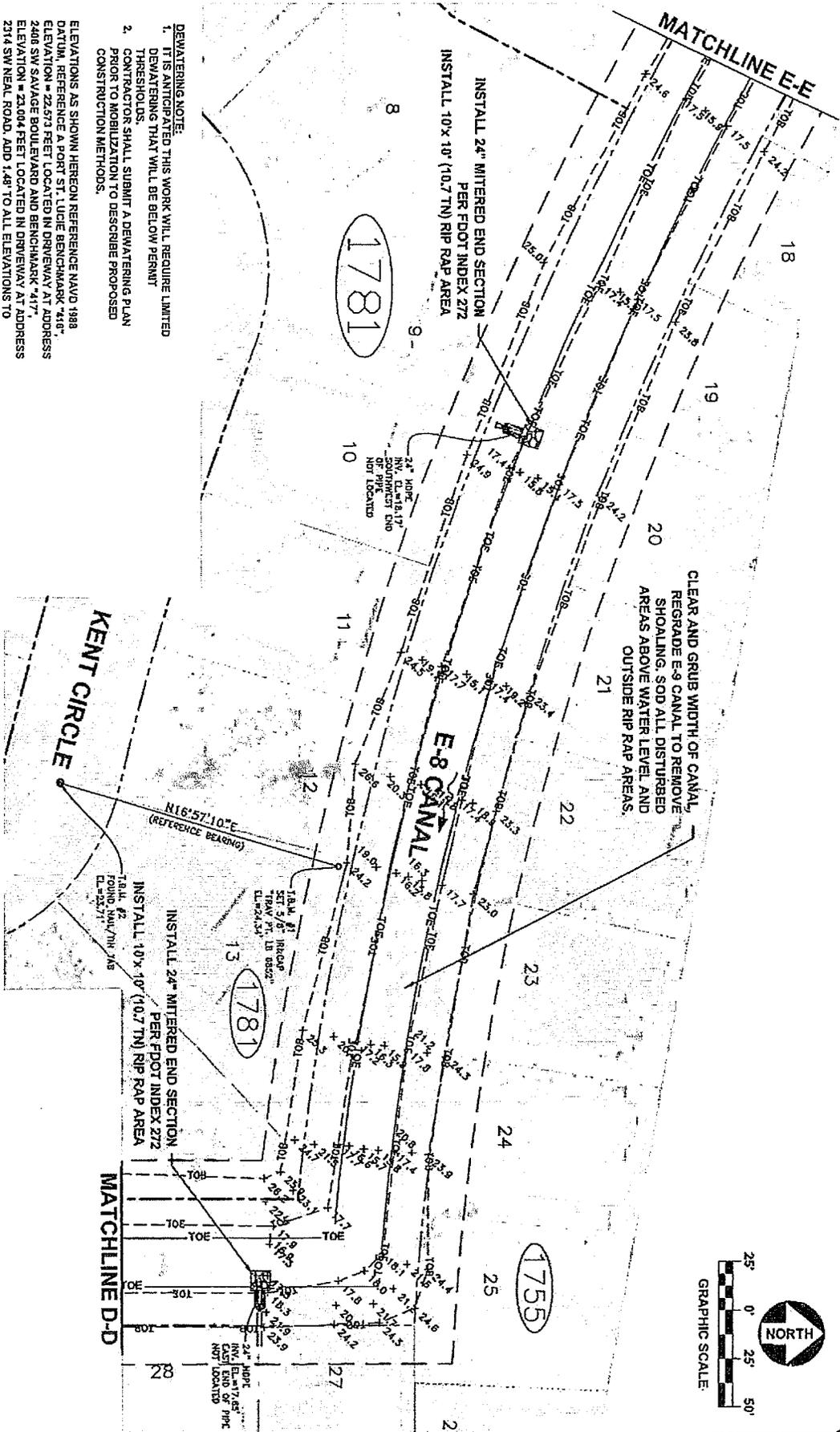
ELEVATIONS AS SHOWN HEREON REFERENCE NAVD 1988 DATUM. REFERENCE A PORT ST. LUCIE BENCHMARK "416" ELEVATION = 22.573 FEET LOCATED IN DRIVEWAY AT ADDRESS 2408 SW SAVAGE BOULEVARD AND BENCHMARK "417" ELEVATION = 23.004 FEET LOCATED IN DRIVEWAY AT ADDRESS 2314 SW NEAL ROAD. ADD 1.48' TO ALL ELEVATIONS TO CONVERT TO NGVD 29.

- LEGEND**
- EXISTING LOT LINE
  - EXISTING RIGHT OF WAY
  - EXISTING PAVEMENT
  - EXISTING SWALE
  - EXISTING PIPE
  - EXISTING WATER MAIN
  - EXISTING FORCE MAIN
  - EXISTING SANITARY
  - PROPOSED PIPE
  - PROPOSED MITERED END SECTION
  - PROPOSED RIP RAP
  - PROPOSED PAVEMENT RESTORATION

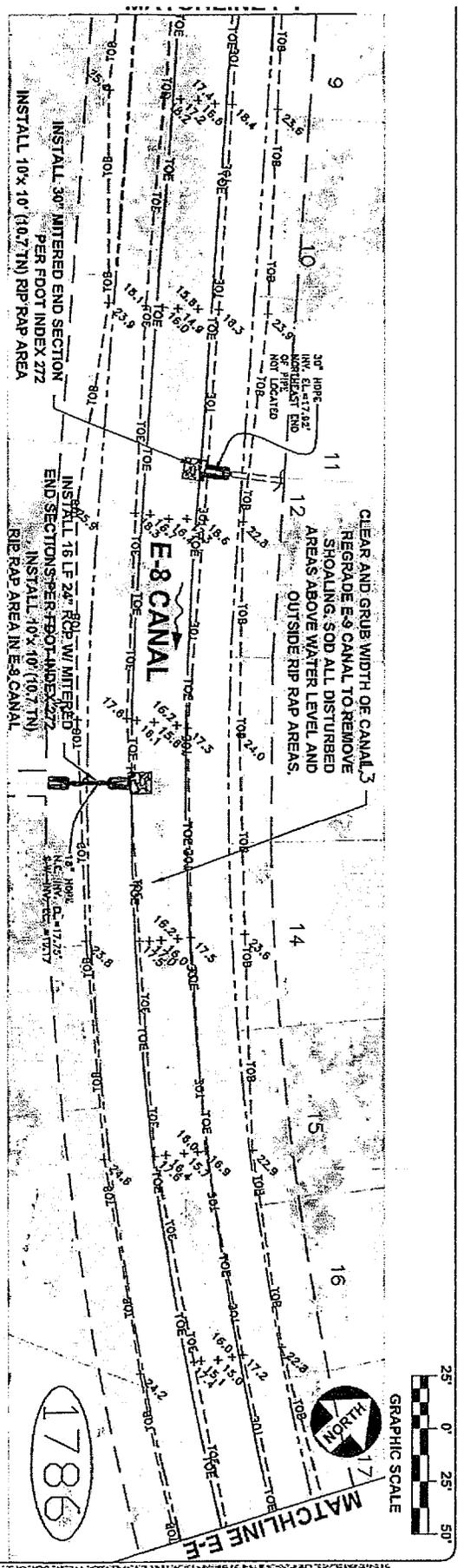
**NOTE:**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT'S MINIMUM TECHNICAL SPECIFICATIONS AND CONSTRUCTION STANDARDS, LATEST REVISION, AND WITH ALL APPLICABLE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION RULES AND REGULATIONS.
- HIGHLIGHT SWALE LINER AS NEEDED AND SLOPE FOR POSITIVE DRAINAGE INTO ROADSIDE SWALE/CULVERTS.

CALL 3 BUSINESS DAYS BEFORE YOU GO TO FLORIDA 1-800-432-4770 (TWO STATE CALLS REQUIRED FOR OUT-OF-STATE CALLS)



<p><b>E-8 WATERWAY NRCS EWP REPAIRS CITY OF PORT SAINT LUCIE, FLORIDA</b></p> <p><b>E-8 CANAL REPAIR @ B-15 CONTROL STRUCTURE</b></p>	<p><b>SCALE VERIFICATION</b></p> <p>ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.</p> <p>ACCEPTED</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REVISION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	BY	REVISION					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DATE</td> <td> </td> </tr> <tr> <td>DRAWN BY</td> <td> </td> </tr> <tr> <td>CHECKED BY</td> <td> </td> </tr> <tr> <td>PROJECT NO.</td> <td> </td> </tr> <tr> <td>SHEET NO.</td> <td> </td> </tr> <tr> <td>TITLE</td> <td> </td> </tr> <tr> <td>SCALE</td> <td> </td> </tr> <tr> <td>DATE</td> <td> </td> </tr> </table>	DATE		DRAWN BY		CHECKED BY		PROJECT NO.		SHEET NO.		TITLE		SCALE		DATE		<p><b>CAPTEC</b> Engineering, Inc.</p> <p>Civil Engineering Professionals</p> <p>1321 NE 15th Ave Tampa, Florida 33604 Phone: (813) 442-4214 Fax: (813) 442-4214</p>
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**SAVAGE BLVD.**

**E-8 CANAL**

**1786**

**1755**

**1786**

**MATCHLINE F-F**

INSTALL 30" MITERED END SECTION PER FOOT INDEX 272  
INSTALL 10'x 10' (10.7 IN) RIP RAP AREA

INSTALL 16 LF 24" RCB W MITERED END SECTIONS PER FOOT INDEX 272  
INSTALL 10'x 10' (10.7 IN) RIP RAP AREA IN E-8 CANAL

30" HOLE - 11' ELEV. 417' NOT LOCATED

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**MATCHLINE F-F**

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EXISTING LOT LINE  
EXISTING RIGHT OF WAY  
EXISTING PAVEMENT  
EXISTING SWALE

EXISTING WATER MAIN  
EXISTING FORCE MAIN  
EXISTING SANITARY

PROPOSED PIPE  
PROPOSED MITERED END SECTION  
PROPOSED RIP RAP  
PROPOSED PAVEMENT RESTORATION

NOTE:  
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF PORT ST. LUCIE UTILTY SYSTEMS DEPARTMENT'S MINIMUM TECHNICAL SPECIFICATIONS AND CONSTRUCTION STANDARDS, LATEST REVISION, AND WITH ALL APPLICABLE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION RULES AND REGULATIONS.  
2. EXISTING SWALE LINER AS NEEDED AND SLOPE FOR POSITIVE DRAINAGE INTO ROADSIDE SWALE CULVERTS.

CALL A BUSINESS DAY BEFORE YOU DO IN FLORIDA  
1-800-432-4770  
ON THE LINE SHIMMER STATE ONE CALL OR 888-888-8888

Scale Verification  
SOLID BAR IS EQUAL TO HALF AN INCH OF ORIGINAL DRAWING. ALL OTHER DIMENSIONS AS SHOWN.

E-8 WATERWAY NRCS EWP REPAIRS  
CITY OF PORT SAINT LUCIE, FLORIDA  
E-8 CANAL REPAIR @ B-15 CONTROL STRUCTURE

Scale Verification  
SOLID BAR IS EQUAL TO HALF AN INCH OF ORIGINAL DRAWING. ALL OTHER DIMENSIONS AS SHOWN.

DATE: 10/27/2011  
DRAWN BY: CAG  
CHECKED BY: NLS  
PROJECT NO.: 11-001  
SCALE: AS SHOWN  
DATE: 10/27/2011

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GRAPHIC SCALE  
0' 25' 50'

GRAPHIC SCALE  
0' 25' 50'