



# Agenda Report

2725 Judge Fran Jamieson  
Way  
Viera, FL 32940

## Consent

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F.10.

9/12/2023

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### **Subject:**

Phase VII Sideslope Closure CDF Slurry Wall Landfill Change Order No. 2

### **Fiscal Impact:**

Increase in Contract Price of \$1,315,958.81, from original \$9,388,500.00 to \$10,704,458.81.

### **Dept/Office:**

Solid Waste Management Department

### **Requested Action:**

It is requested that the Board of County Commissioners approve Change Order No. 2 for the Phase VII Sideslope Closure project currently in construction on the Slurry Wall Landfill at the Central Disposal Facility and authorize the Chair to sign the Change Order.

### **Summary Explanation and Background:**

The Phase VIII sequential closure of the Slurry Wall Landfill at the Central Disposal Facility is currently under construction. This includes the closure of approximately 18 acres on the north, east, and south side slopes of the landfill from elevation 150 to 190, including the installation of a 40-mil geomembrane cover system overlain by a composite drainage net and tied into the previous Phase V and Phase VI closure cover systems, and 24-inches of clean granular fill and sod as a protective cover. The project also includes the construction and tie-in of stormwater collection and control structures and the expansion of the active landfill gas collection system with the installation of 34 landfill gas collection wells and associated piping. The approved budget for FY22-23 was \$15,000,000 with funding coming from a closure escrow fund. The Engineer of Record is Ron Beladi of Neel-Schaffer, Inc. and Southeast Environmental Contracting, Inc. was selected as the lowest responsible qualified bidder at \$9,388,500.00. The FY22-23 CIP budget, project bid tabulation, and Notice of Award are attached.

During construction, it was determined that ending the closure at elevation 190 would leave the Phase VII closure area vulnerable to stormwater erosion from the area above the 190 elevation, resulting in washout of intermediate cover soil and solid waste onto the closed portion of the landfill. To avoid the potential for environmental violations and recurring costs of maintenance, repair, and cleanup it was agreed to extend the closure to the outside edges of the top deck of the landfill, elevation 215. This increases the closure area by approximately 3.5 acres and increases the amount of liner, piping, and granular fill necessary for completion of the project. The total change in contract is an additional \$1,315,958.81 in Contract Price and an additional 28 days in Contract Time. Further, the additional closure work for this portion of the landfill would eventually have been required to finalize all closure activity for the CDF, were it not included at this time.

### **Attachments:**

- Budget, Bid Tabulation, and Notice of Award
- Change Order No. 2

**Clerk to the Board Instructions:**

Please return one (1) signed and attested copy to Solid Waste



Kimberly Powell, Clerk to the Board, 400 South Street • P.O. Box 999, Titusville, Florida 32781-0999

Telephone: (321) 637-2001  
Fax: (321) 264-6972  
Kimberly.Powell@brevardclerk.us

September 13, 2023

**M E M O R A N D U M**

**TO:** Tom Mulligan, Solid Waste Management Director

**RE:** Item F.10., Phase VII Sideslope Closure CDF Slurry Wall Landfill Change Order No. 2

The Board of County Commissioners, in regular session on September 12, 2023, approved and executed Change Order No. 2 for the Phase VII Sideslope Closure Project currently in construction on the Slurry Wall Landfill at the Central Disposal Facility. Enclosed is a fully-executed Change Order.

Your continued cooperation is always appreciated.

Sincerely,

**BOARD OF COUNTY COMMISSIONERS  
RACHEL M. SADOFF, CLERK**

*Kimberly Powell*  
Kimberly Powell, Clerk to the Board

/sm

Encl. (1)

cc: Finance  
Budget

## Fiscal Year 2022-2023 Capital Improvements Program

Program Name	Description	Funding Source	Total Cost
Disposal	U.S. 192	Assessments	\$1,000,000
Disposal	Titusville Transfer Station	Assessments	\$500,000
Disposal	South Landfill Expansion Cell 2	Impact Fees	\$1,100,000
Disposal	CDF Cell 1 Gas System	Assessments	\$500,000
Disposal	CDF Cell 3	Assessments	\$500,000
Disposal	CDF Closure	Escrow	\$15,000,000
Disposal	Sarno Landfill Closure	Escrow	\$16,000,000
Disposal	South Landfill Cell 1 Closure	Escrow	\$6,157,321
Total Funded For Department			\$34,600,000



## BID TABULATION SHEET: AWARD RECOMMENDATION

**Bid No: B-6-23-19**

**OPENING DATE & TIME: 1/18/2023 @ 11:00 AM**

**POSTING TIME/DATE:** January 24, 2023

**THROUGH:** January 30, 2023 @ 5:00 pm

**POSTED BY: James Norris**

VENDOR	VENDOR CITY/STATE	BID PRICE
Southeast Environmental Construction	Hahira, GA	\$9,388,500.00
Belair	New Brighton, MN	\$11,079,813.40
Thalle Construction	Hillsborough, NC	\$20,156,000.00

**Intended Award: Southeast Environmental Construction**

Bid tabulations with award recommendations are posted to VendorLink at [www.myvendorlink.com](http://www.myvendorlink.com) or DemandStar at [www.demandstar.com](http://www.demandstar.com). Brevard County encourages prompt and fair handling of all complaints and disputes with the business community. Filing of any disputes and appeals shall be in accordance with procedures specified in bid documents.

Approval initials



**Purchasing Services**  
2725 Judge Fran Jamieson Way  
Building C, Room 303  
Viera, Florida 32940

**NOTICE OF AWARD**

**DATE: 2/9/2023**

**B-6-23-19 Phase VII Sideslope Closure CDF Slurry Wall Landfill**

PROCUREMENT ANALYST: James Norris

<u>VENDOR</u>	<u>VENDOR CITY AND STATE</u>	<u>ITEMS AWARDED</u>	<u>AWARD AMOUNT</u>
<b>Southeast Environmental Contracting, Inc.</b>	<b>Hahira, GA</b>	<b>ALL</b>	<b>\$9,388,500.00</b>

☐ BOARD AWARD--AGENDA ATTACHED

☒ **APPROVED AWARD (NON-BOARD AGENDA):** \_\_\_\_\_  
(Per Sections III.E. & III.I. & J., BCC-25, PROCUREMENT) **Mary Bowers, Purchasing Manager**

AWARDED BY A COMMITTEE CONSISTING OF: John Denninghoff, Asst County Manager; Edward Fontanin, Utility Services Department Director; and Tom Mulligan, Solid Waste Department Director

FOR PURCHASING USE ONLY:

☒ ONE-TIME PURCHASE

☐ ANNUAL BID:

EFFECTIVE DATE: \_\_\_\_\_ ENDING DATE: \_\_\_\_\_

RENEWAL OPTION ☐ One year ☐ Other (fill in) \_\_\_\_\_

- ☐ Prompt Payment Discount Offered ☐ Yes \_\_\_\_\_ (Terms) ☒ NO
- ☐ Performance and payment bonds received with construction contract documents.
- ☐ Release Cashier's or Certified Check Received for Bid Deposit on Bids

SPECIAL INSTRUCTIONS TO AWARDED VENDOR:

- ☒ Please provide certificate of insurance.
- ☒ Please provide performance and payment bonds as required.
- ☐ OTHER:

## CHANGE ORDER FORM



NO. Two (2)

DATE: August 28, 2023

PROJECT BID NUMBER: B-6-23-19

PROJECT NAME: CDF Slurry Wall Landfill Phase VII Sideslope Closure

CONTRACTOR NAME: Southeast Environmental Contracting, Inc. (SEC)

AGREEMENT DATE: March 13, 2023

The following changes are hereby made to the CONTRACT DOCUMENTS:

### CONTRACT PRICE SUMMARY:

ORIGINAL Contract Price: \$ 9,388,500.00

CURRENT Contract Price as Adjusted by Previous Change Orders: \$ 9,388,500.00

NET INCREASE/(DECREASE) in Price Resulting from this Change Order: \$1,315,958.81

FINAL Contract Price Incorporating Above Changes: \$10,704,458.81

### CONTRACT TIME SUMMARY:

ORIGINAL Contract Time (days): 300 days

CURRENT Contract Time as Adjusted by Previous Change Orders (days): 322 days

NET INCREASE/(DECREASE) in Time Resulting from this Change Order (days): 28 days

FINAL Contract Time Incorporating Above Changes (days): 350 days

NEW DATE FOR SUBSTANTIAL COMPLETION January 25, 2024

NEW DATE FOR FINAL COMPLETION March 25, 2024

### CHANGES ORDERED:

#### I. GENERAL

This Change Order is necessary to cover changes in the Work and Time to be performed under this Contract. The GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, SPECIFICATIONS and all parts of the Project Manual listed in Article 1, Definitions, of the GENERAL CONDITIONS apply to and govern all Work under this Change Order.

## II.

See attached documents and related correspondence. The changes are necessary to stabilize the side slopes above the limits of final closure. The changes included in this Change Order No. 1 are described below:

- A. The additional work will include grading of the solid waste above the current construction limit (elevation 190 NAVD) to top deck area elevation 215 NAVD, which will result in installation of an additional 3.5-acre final closure final cover (leveling course, 40-mil LLDPE geomembrane, installation of composite drainage net and 24-inches of clean cover soil with sod), extension of stormwater letdown pipes and installation of four new inlets, and extension of landfill gas collection pipes to the new limits of closure. Please include in your proposal to extend the letdown pipes and landfill gas header piping to the proposed anchor trench locations.**
- B. The project requires exposure of the existing stub-outs up slope of the existing stormwater inlets and connect the new letdown pipes to the limits of construction. The excavation at a few of the inlets shows the pipe trench was not previously installed after the stub-outs. This requires the previous closure cover along the alignment of the new letdown pipe be opened and build a trench for installation of the letdown piping. Reference CCIR-6 Response. Please prepare a detailed proposal for cutting the pipe trench in areas where needed in order to extend the letdown piping. The proposal should detail the work required to excavate the waste along the proposed trench, install new liner and CDN for the letdown pipe to be installed as shown in the attached detail A. The pipe and connections to the existing stub-outs were previously included in the contract. The proposal should include all cost to the Contractor for filling, grading and restoring the previously closed area and sodding the affected area.**

Change Order Requested By:

X  
Brevard County

X

Contractor

Engineer

### III.

- An updated topographic survey of the Slurry Wall Landfill (SWL) indicated an area on top of the contract closure construction area will be vulnerable to erosion and washouts and will require to be stabilized and closed as part of this project. The adjustments to the closure cover system and final grading plan are based on site conditions at the time of construction. Adjustments to the final closure cover area are intended to prevent erosion and washout of solid waste on the newly closed side slope areas. In addition, extension of the stormwater letdown pipes, inlets and landfill gas piping are included in the new limits of closure.
- Increase in Contract Time for construction of new 3.5-acre closure areas.

## IV.



Contract Value adjustments are based on unit costs in bid and Contractor's schedule of values.  
Contract Time adjustments are based on the General Conditions of the Contract Documents.

V. RECOMMENDATIONS, ACCEPTANCE, AND APPROVAL

The aforementioned change, and work affected thereby, is subject to all provisions of the original Contract not specifically changed by this Change Order; and,

This change order includes not only all direct costs of contractor such as labor, material, job overhead, and profit markup but also includes any costs for modifications or changes in sequence of work to be performed, delays, rescheduling, disruptions, extended direct overhead or general overhead, acceleration, material or other escalation which includes wages, and other impact costs. It is expressly understood and agreed that the approval of the Change Order shall have no effect on the original Contract other than matters expressly provided herein.

By signing this change order agreement, the Contractor hereby releases the County, its agents, and employees from any and all liabilities under this Contract for further equitable adjustments and /or claims associated with this change order.

ENGINEER'S RECOMMENDATION

CONTRACTOR'S ACCEPTANCE



Authorized Signature



Authorized Signature

Ron Beladi, P.E.

Name

Earl Holmes

Name

Vice President

Title

President, SEC

Title

August 28, 2023

Date

August 28, 2023

Date

OWNER'S APPROVAL

BREVARD COUNTY, FLORIDA

Attest:



Solid Waste Management Department or Board Chair if  
requires Board approval

This 12th day of September, 2023

\*\*\* END OF CHANGE ORDER FORM \*\*\*

Central Disposal Facility Slurry Wall Landfill Phase VII Closure  
Brevard County Solid Waste Management Department  
**PROJECT NO. P-6-23-19**  
Closure Extension



**PART A**

DESCRIPTION	UNIT	QTY	UNIT PRICE (\$)	VALUE (\$)
<b>1. General</b>				
c. Field Survey	LS	1	\$ 5,000.00	\$ 5,000.00
d. Laboratory Testing and Reporting Services	LS	1	\$ 9,950.00	\$ 9,950.00
e. Administration/ O&P and Direct Expense				
1. Bonds	LS	1	\$ 20,565.25	\$ 20,565.25
2. Insurance	LS	1	\$ 26,419.77	\$ 26,419.77
4. Temporary Facilities	LS	1	\$ 4,000.00	\$ 4,000.00
5. Health and Safety and Other Requirements	LS	1	\$ 4,000.00	\$ 4,000.00
6. Project Record Documents	LS	1	\$ 3,980.00	\$ 3,980.00
General Subtotal				\$ 73,915.02
<b>2. Earthwork</b>				
a. Subgrade Preparation and General Grading	ac	3.545	\$ 33,000.00	\$ 116,985.00
<b>3. Gas Piping</b>				
a. Landfill Gas Header 16" materials	LF	300	\$ 65.00	\$ 19,500.00
b. Landfill Gas Header 16" installation	LF	300	\$ 124.00	\$ 37,200.00
c. Landfill Gas Header 12" materials	LF	40	\$ 55.00	\$ 2,200.00
d. Landfill Gas Header 12" installation	LF	40	\$ 100.00	\$ 4,000.00
e. LFG pipe 6"	LF	160	\$ 40.00	\$ 6,400.00
f. LFG pipe 4"	LF	120	\$ 30.00	\$ 3,600.00
Gas Piping Subtotal				\$ 72,900.00
<b>4. Stormwater</b>				
d. 24" Stormwater Letdown piping and Connections	LF	480	\$ 185.00	\$ 88,800.00
Stormwater Subtotal				\$ 88,800.00
<b>5. Liner System</b>				
a. HDPE Geomembrane material	SF	154,420	\$ 0.45	\$ 69,489.09
b. HDPE Geomembrane installation	SF	154,420	\$ 0.31	\$ 47,870.26
c. Composite Drainage Net (CDN) material	SF	154,420	\$ 0.90	\$ 138,978.18
d. Composite Drainage Net (CDN) installation	SF	154,420	\$ 0.40	\$ 61,768.08
Liner System Subtotal				\$ 318,105.61
<b>6. Final Grade Treatment</b>				
a. Sodding	SF	154,420	\$ 0.30	\$ 46,326.06
b. erosion control	MO	1	\$ 2,488.89	\$ 2,488.89
Final Grade Treatment Subtotal				\$ 48,814.95
<b>7. UNIT PRICE PORTION</b>				
1. Granular Fill from Offsite Sources- In Place	CY	14,299	\$ 28.00	\$ 400,372.00
2. Solid Waste Grading	CY	6,264	\$ 7.00	\$ 43,848.00
<b>8. ADDED ITEM</b>				
1. Landfill Gas Well Boots	EA	7	\$ 1,290.00	\$ 9,030.00
Unit Price Subtotal				\$ 453,250.00
<b>TOTAL</b>				\$ 1,172,770.58

Earl Holmes, President  
Southeast Environmental Contracting, Inc.  
1810 Lee Road  
Orlando, FL 32810



## PART B

### Inlet pipe trench correction at 8 inlets

1. Removal of the protective cover to expose the geosynthetics. 40'x60' 5 each	16	exc crew hours	\$ 1,070.50	\$ 17,128.00
2. Cut and peel back the geosynthetics.	8	liner crew hours	\$ 338.75	\$ 2,710.00
3. Excavate waste.	16	exc crew hours	\$ 1,070.50	\$ 17,128.00
4. Grade and place granular fill pipe bedding.	8	exc crew hours	\$ 1,070.50	\$ 8,564.00
5. Add 30" pipe for stub outs.	18	lf	\$ 200.00	\$ 3,600.00
6. Backfill	8	exc crew hours	\$ 1,070.50	\$ 8,564.00
7. Replace and add geosynthetics.	16	liner crew hours	\$ 338.75	\$ 5,420.00
8. Replace and add protective cover.	16	exc crew hours	\$ 1,070.50	\$ 17,128.00
9. Sodding.	12,000	sf	\$ 0.30	\$ 3,600.00
10. Add 24" pipe to top anchor trench	250	lf	\$ 185.00	\$ 46,250.00
11. 30" ADS 11.25 degree fittings plus allowed mark up	8	ea	\$ 784.72	\$ 6,277.74
		total	\$	136,369.74
		allowed mark up 5%	\$	6,818.49
		<b>total</b>	<b>\$</b>	<b>143,188.23</b>

### Excavation crew breakdown

excavator	1	hour	\$ 98.00	\$ 98.00
dozer	1	hour	\$ 112.50	\$ 112.50
operator- 2 each	1	hour	\$ 100.00	\$ 300.00
labor - 2 each	1	hour	\$ 87.50	\$ 87.50
per diem / housing - 4 each	1	hour	\$ 120.00	\$ 360.00
dozer	1	hour	\$ 112.50	\$ 112.50
		total	\$	1,070.50

### Liner crew breakdown

labor - 5 each	1	hour	\$ 218.75	\$ 218.75
per diem / housing - 5 each	1	hour	\$ 120.00	\$ 120.00
		total	\$	338.75

Earl Holmes, President  
Southeast Environmental Contracting, Inc.  
1810 Lee Road  
Orlando, FL 32810

## REQUEST FOR PROPOSAL

REQUEST FOR PROPOSAL (RFP) NO.

2

RFP Prepared By:

Ron Beladi

(Name)

Project Manager

(Title)

Date Prepared:

August 17, 2023

PROJECT DATA	CONTRACT DATA
Name: <b>CDF-SWL Phase VII Sequential Closure</b>	Contract Document Page Number:
Location: <b>Central Disposal Facility, Brevard County</b>	Drawing Number:
Owner's Bid Number:	Specification Section/Number:

RFP DISTRIBUTION BY ENGINEER:				
Owner's Home Office:	No. Copies		Date Sent:	
Attn.: Tom Mulligan				
Contractor's Home Office:	No. Copies		Date Sent:	
Attn.: Reinaldo Gonzales				
Owner's Field Office:	No. Copies		Date Sent:	
Engineer's Field Office:	No. Copies		Date Sent:	
Contractor's Field Office:	No. Copies		Date Sent:	
Other:	No. Copies		Date Sent:	
Attn.:				

Please provide the undersigned a proposal for the following change in the work within ten (10) calendar days from the above date of this request. The written proposal must clearly delineate the scope of the proposed change in work and lump sum price by providing an itemized estimate of time and costs broken down by materials, labor (by trade), subcontracts, overhead costs, and profit. Any amount included for subcontracted work must be similarly supported in detail. If this proposal is accepted and approved by the Owner, a change order will be issued for changes in the work of the Contract in accordance with the Contract Documents.

Type of Change

Proposed:

(Deletion of Work)

**X**

(Addition of Work)

(Revision of Work)

(Other)

Please see reverse side for a detailed description of the proposed change in Work.

**DESCRIPTION OF PROPOSED CHANGE IN WORK:**

An updated topographic survey of the Slurry Wall Landfill (SWL) indicated an area on top of the contracted closure construction area will be vulnerable to erosion and washouts and will require to be stabilized or closed as part of this project. The adjustments to the closure cover system and final grading plan are based on site conditions at the time of construction. Adjustments to the final closure cover area are intended to prevent erosion and washout of solid waste on the newly closed side slope areas. In addition, extension of the stormwater letdown pipes, inlets and landfill gas piping are included to the new limits of closure.

Please prepare a detailed proposal for extension of the closure construction area to the limits shown on the attached drawing. The additional work includes, but not limited to, solid waste grading and preparation of the new areas for installation of the Leveling Course, 40-mil LLDPE liner, CDN and 24-inches of protective cover with sod. The LFG laterals and collection pipes are to be extended to new limits, new stormwater inlets installed at the 210-ft terrace and letdown pipes extended and capped.

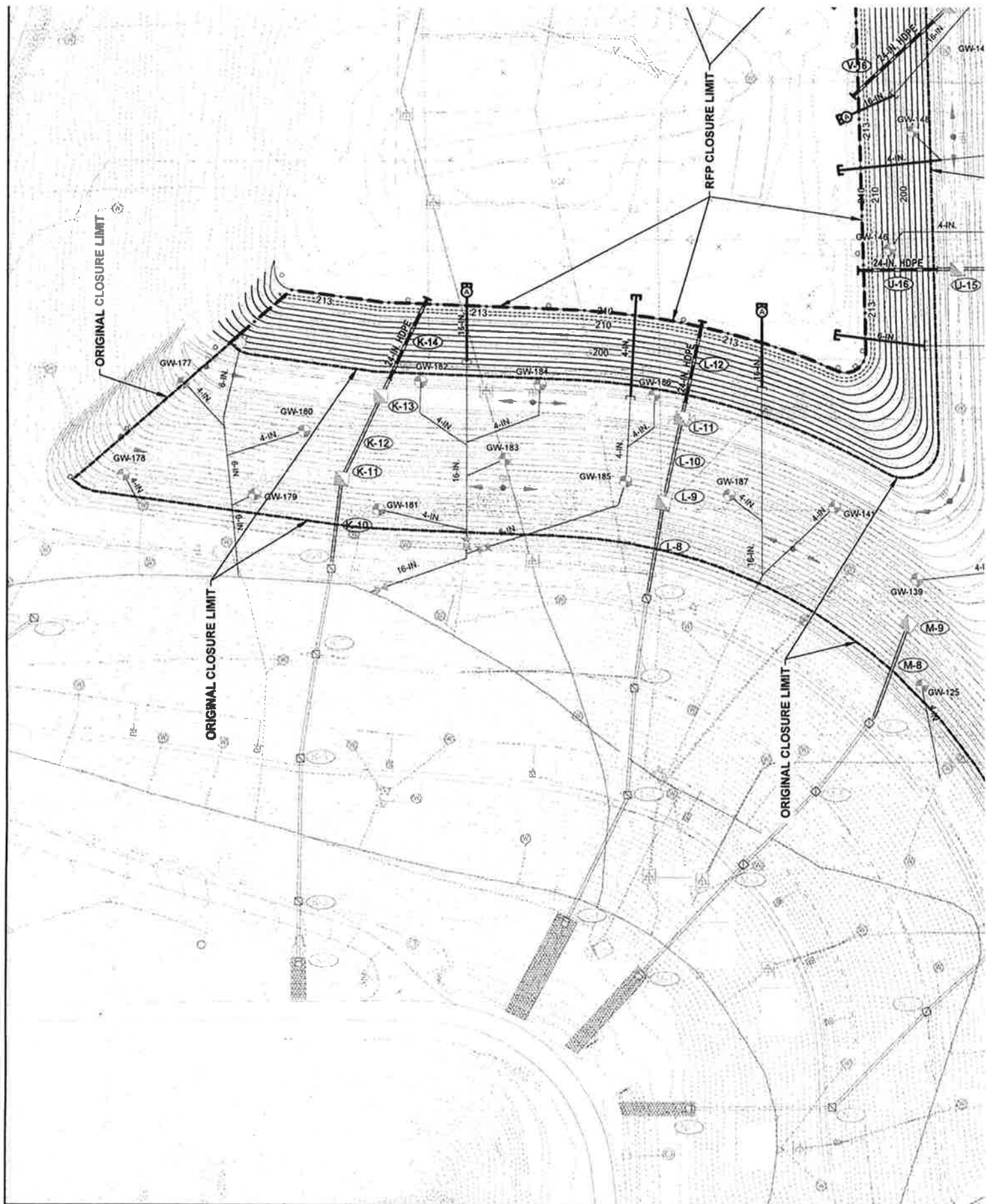
The proposal should include all cost to the Contractor that is outside of his current contract for filling, grading and restoring the previously closed area and sodding the affected area.

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**ATTACHMENTS:**

Description of Item Attached		No. of Copies
1.		
2.		
3.		
4.		
5.		

**END OF REQUEST FOR PROPOSAL FORM**



## REQUEST FOR PROPOSAL

REQUEST FOR PROPOSAL (RFP) FOR PROPOSED CHANGE NO.

**1**

RFP Prepared By: Ron Beladi  
(Name)

Project Manager  
(Title)

Date Prepared: July 16, 2023

PROJECT DATA	CONTRACT DATA
Name: <b>CDF-SWL Phase VII Sequential Closure</b>	Contract Document Page Number:
Location: <b>Central Disposal Facility, Brevard County</b>	Drawing Number:
Owner's Bid Number:	Specification Section/Number:

RFP DISTRIBUTION BY ENGINEER:				
Owner's Home Office:	No. Copies		Date Sent:	
Attn.: Tom Mulligan				
Contractor's Home Office:	No. Copies		Date Sent:	
Attn.: Reinaldo Gonzales				
Owner's Field Office:	No. Copies		Date Sent:	
Engineer's Field Office:	No. Copies		Date Sent:	
Contractor's Field Office:	No. Copies		Date Sent:	
Other:	No. Copies		Date Sent:	
Attn.:				

Please provide the undersigned a proposal for the following change in the work within ten (10) calendar days from the above date of this request. The written proposal must clearly delineate the scope of the proposed change in work and lump sum price by providing an itemized estimate of time and costs broken down by materials, labor (by trade), subcontracts, overhead costs, and profit. Any amount included for subcontracted work must be similarly supported in detail. If this proposal is accepted and approved by the Owner, a change order will be issued for changes in the work of the Contract in accordance with the Contract Documents.

**Type of Change Proposed:**

	X		
(Deletion of Work)	(Addition of Work)	(Revision of Work)	(Other)

Please see reverse side for a detailed description of the proposed change in Work.

**DESCRIPTION OF PROPOSED CHANGE IN WORK:**

The project requires exposure of the existing stub-outs up slope of the existing stormwater inlets and connect the new letdown pipes to the limits of construction. The excavation at a few of the inlets shows the pipe trench was not installed after the stub-outs. This requires the previous closure cover along the alignment of the new letdown pipe be opened and build a trench for installation of the letdown piping. Reference CCIR-6 Response.

Please prepare a detailed proposal for cutting the pipe trench in areas where needed in order to extend the letdown piping. The proposal should detail the work required to excavate the waste along the proposed trench, install new liner and CDN for the letdown pipe to be installed as shown in the attached detail A. The pipe and connections to the existing stub-outs were previously included in the contract.

In addition, please include in your proposal detailed cost breakdown to extend the letdown pipe to the proposed anchor trench as shown in the attached drawing B.

The proposal should include all cost to the Contractor that is outside of his current contract for filling, grading and restoring the previously closed area and sodding the affected area.

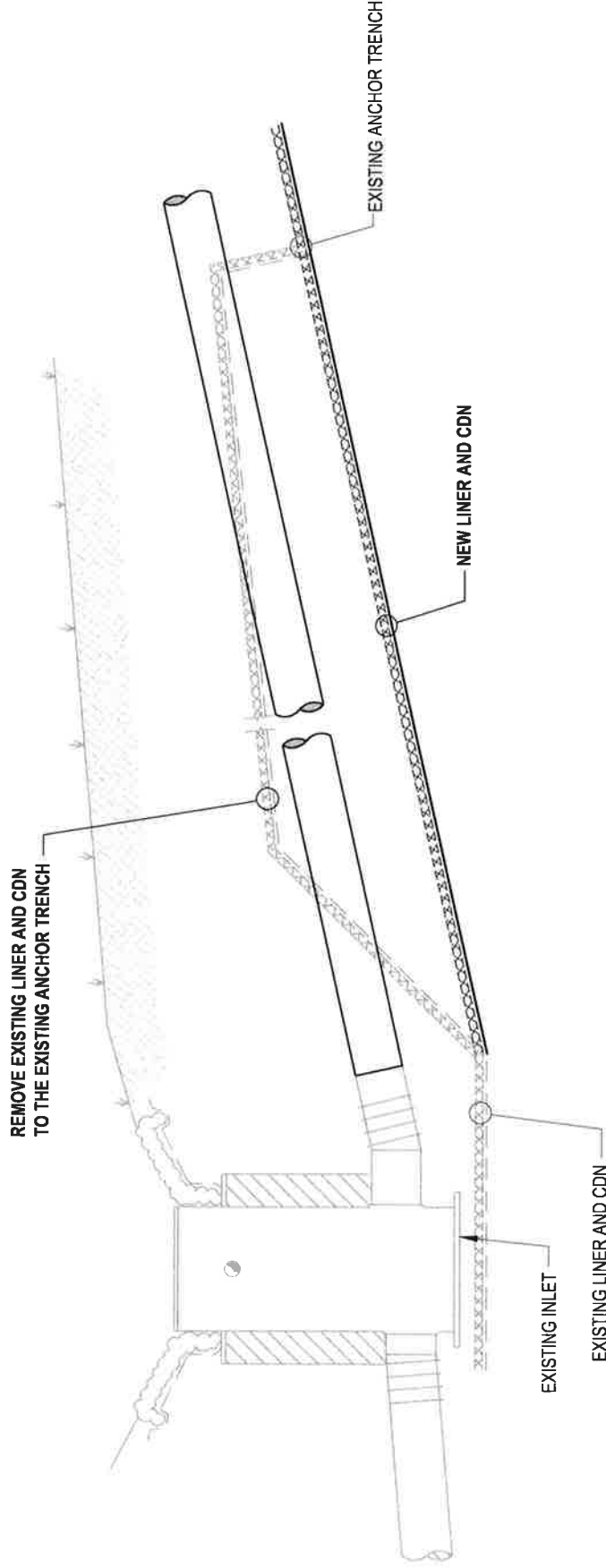
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**ATTACHMENTS:**

	Description of Item Attached	No. of Copies
1.	<u>Detail A- CCIR No. 6 Response</u>	<u></u>
2.	<u>Detail B- CCIR No. 6 Response</u>	<u></u>
3.	<u></u>	<u></u>
4.	<u></u>	<u></u>
5.	<u></u>	<u></u>

**END OF REQUEST FOR PROPOSAL FORM**





# **STUB OUT EXTENSION NOTES:**

1. EXPOSE THE UPSLOPE STUB OUT ON EXISTING INLET STRUCTURES. CLEAN AND PREPARE AROUND THE EXISTING STUBOUT FOR CONNECTION TO THE NEW PIPE. PROTECT THE FABRIFORM FROM DAMAGE.
2. EXCAVATE A PIPE TRENCH (DETAIL-30) UPSLOPE FROM STRUCTURES B-9, A-9, V-11, U-11, T-11, M-7, L-7, AND K-9 TO THE EXISTING ANCHOR TRENCH.
3. INSTALL LINER SYSTEM FOR THE ENTIRE OPEN UP TRENCH AND WELD TO THE EXISTING LINER.
4. CONNECT THE NEW LETDOWNPIPE TO THE STUB-OUT USING SPLIT COUPLER (DETAIL 32)
5. BACKFILL, COVER AND SOD TO MATCH THE PREVIOUSLY CLOSED AREA AS REQUIRED.

**A** **RESPONSE TO CCIR - 6**  
N.T.S.

