

**ST. CHARLES PARISH
EIGHTY ARPENT PUMP STATION IMPROVEMENTS
P080801**

CHANGE ORDER

No. 1 (FINAL)

DATE OF ISSUANCE 5/15/12

EFFECTIVE DATE _____

OWNER St. Charles Parish

CONTRACTOR BLD Services, LLC

Contract: Eighty Arpent Pump Station Improvements

Project: Eighty Arpent Pump Station Improvements

OWNER's Contract No. P080801

ENGINEER's Contract No. 10710

ENGINEER Professional Engineering Consultants Corporation

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

Description:

1. Delete the Following Work Items:

- a. Contract Item 10-PS: Compacted Clay Fill Material Above Discharge Pipe
Delete item in its entirety. (-\$4,800.00)
- b. Contract Item 51-PS: Miscellaneous Electrical Work (Deletion of the Manual Transfer Switch)
Credit for item in the amount of (-\$4,087.50)
- c. Contract Item 63-PS: Relocation Of Infrastructure Items
Delete item in its entirety. (-\$150,000.00)
- d. Contract Item 63-SC: Relocation Of Infrastructure Items
Delete item in its entirety. (-\$150,000.00)

Total of Deducted Items = (-\$308,887.50)

2. Add the Following Work Items:

- a. New Contract Item X-1: Bar Screen Motor And Gear Assembly
Addition of +\$14,420.00
- b. New Contract Item X-2: Generator Conduit
Addition of +\$557.00
- c. New Contract Item X-3: Electrical Modifications
Addition of +\$39,163.00
- d. New Contract Item X-4: Fuel System Modifications
Addition of +\$2,515.00
- e. New Contract Item X-5: Remove Sheet Piles/Rip Rap (Intake Channel)
Addition of +\$11,316.00
- f. New Contract Item X-6: Disposal Of Excavated Material
Addition of +\$11,130.00
- g. New Contract Item X-7: Remove Concrete Piles/Tie Backs For Pump Station Addition
Addition of +\$20,176.00
- h. New Contract Item X-8: Grout New Flanges On Existing Discharge Pipes
Addition of +\$1,421.00
- i. New Contract Item X-9: Gusset Plates For Building Modifications
Addition of +\$14,246.00
- j. New Contract Item X-10: Concrete Curb For Fuel System
Addition of +\$10,763.00
- k. New Contract Item X-11: Security Fence Rail
Addition of +\$796.00
- l. New Contract Item X-12: High Capacity Fuel Separator
Addition of +\$4,897.00

- m. New Contract Item X-13: Overhead Door Modifications
Addition of +\$4,133.00
- n. New Contract Item X-14: 4-Foot Wide Chain Link Access Gates With Anti Climb Top And Locking Mechanism (quantity is eight)
Addition of +\$14,500.00

Total of Added Work Items = +\$150,033.00

3. Revise the Following Work Item Quantities:

- a. Contract Item 9-PS: Compacted Sand Embankment At Discharge Pipes
The quantity is to be changed to 8000 CY +\$24,000.00
- b. Contract Item 11-PS: Cast-In-Place Reinforced Concrete Discharge Basin Extension
The quantity is to be changed to 120 CY (-\$2000.00)
- c. Contract Item 18-PS: Cast-In-Place Reinforced Concrete Slab, Beams, And Supports For The New Pump Station Addition
The quantity is to be changed to 52 CY (-\$7,200.00)
- d. Contract Item 20-PS: Steel Sheet Piles Under The New Pump Station Addition (Sump Area)
The quantity is to be changed to 2,130 SF +\$9,200.00
- e. Contract Item 21-PS: Cast-In-Place Reinforced Sump Slab Concrete And Intake Channel Lining
The quantity is to be changed to 118 CY (-\$13,200.00)
- f. Contract Item 26-PS: 6-Foot High Chain Link Fence With Anti Climb Top At The New Pump Station Addition
The quantity is to be changed to 825 LF +\$14,375.00
- g. Contract Item 37-PS: Underground Diesel Fuel Supply/Return Piping Encased In Red Concrete
The quantity is to be changed to 80 LF (-\$12,000.00)
- h. Contract Item 38-PS: Above Ground Galvanized Steel Diesel Fuel Supply/Return Piping Including Valves, Fitting, And Connections
The quantity is to be changed to 325 LF +\$12,000.00
- i. Contract Item 40-PS: 12" Thick Compacted Limestone Roadway With Geotextile Fabric
The quantity is to be changed to 805 SY +\$2,520.00
- j. Contract Item 54-PS: Miscellaneous Excavation, Backfill, And Compaction
The quantity is to be changed to 3,500 CY +\$24,000
- k. Contract Item 56-PS: Rip Rap (For Downstream Bank Protection)
The quantity is to be changed to 920 TN (-\$93,600.00)
- l. Contract Item 57-PS: Geotextile Fabric For Downstream Bank Protection
The quantity is to be changed to 2,390 SY (-\$4,020.00)
- m. Contract Item 64-PS: Furnish And Install Temporary Electrical Power Generator
The quantity is to be changed to 225 Days +\$7,550.00
- n. Contract Item 40-SC: 12" Thick Compacted Limestone Roadway With Geotextile Fabric
The quantity is to be changed to 802 SY +\$2,478.00
- o. Contract Item 46-SC: Steel Sheet Piles (Channel Bulkhead)
The quantity is to be changed to 10,500.00 SF +\$19,250.00
- p. Contract Item 47-SC: 6-Foot High Chain Link Fence At The Canal And Bar Screen Structure
The quantity is to be changed to 175 LF +\$375.00

Total of Change in Work Items Quantity = (-\$16,272.00)

Reason for Change Order:

- 1. Deleted Work Items
 - a. The Compacted Clay Fill Material Above Discharge Pipe Item was removed from the project and replaced with Compacted Sand.

- b. The Manual Transfer Switch was deleted from the project based on the Project Engineer's recommendation resulting in a credit to the Owner.
 - c. The Relocation of Infrastructure Items Allowance for the Pump Station (63-PS) was removed from the project due to the absence of expected conflicts with site utilities.
 - d. The Relocation of Infrastructure Items Allowance for the Bar Screens (63-SC) was removed from the project due to the absence of expected conflicts with site utilities.
2. Add Work Items
- a. The Bar Screen Motor and Gear Box Assembly spare parts were provided as per the Manufacturers recommendation.
 - b. Additional Generator Conduits were added for the utilization of St. Charles Parish telemetry system.
 - c. Electrical Modifications provided code required clearances in the existing Pump Station Building.
 - d. The Fuel System modifications were necessary to provide increasing flow of fuel to the day tank and spill preventative measures by increasing the height of the vent to prevent any spillage of fuel from the vent in the day tank.
 - e. Due to unknown site conditions additional Sheet Piles and Rip Rap were removed to allow for the construction of the Bar Screen Facilities.
 - f. The removal of excavated materials was required as a condition of the Coastal Zone and Dept. of the Army Corps of Engineers permits.
 - g. Removal of Existing and Unknown Concrete Piles and Tie Backs were necessary to install the new Pump Station Addition.
 - h. Grouting of the flanges was necessary to install new flap gates on existing discharge pipes and to stop the leakage problem associated with the existing flap gates.
 - i. Gusset Plates were installed in the Existing Pump Station Building Structure as per the Engineer's recommendation.
 - j. A concrete curb containment system was installed around the new Fuel Tanks to prevent fuel contamination of the surrounding environment.
 - k. An additional Security Fence Rail was necessary to secure the Pump Station Building Improvements.
 - l. A High Capacity Fuel Separator was installed to provide for the increased flow of fuel to the Day Tank.
 - m. Modification of the Overhead Door was required to allow for the maneuverability of the 10 ton crane hoist system.
 - n. Additional 4-Foot Wide Chain Link Access Gates (quantity is eight) with Anti Climb Top and Locking Mechanisms were added for safety and security, to allow access and provide emergency exits to the remote areas of the Existing Pump Station, New Pump Station Building Addition, Fuel System area, Generator area and access points for the Bar Screen Cleaners.
3. Revise Work Item Quantities
- a. Additional Compacted Sand Embankment at the discharge pipes was used as backfill in lieu of utilizing Item for the Compacted Clay Fill Material and for additional backfilling behind the channel bulkhead and to fill the void under the existing Pump Station building.
 - b. Less Cast-In-Place Reinforced Concrete for the Discharge Basin was needed than estimated which resulted in this credit.
 - c. Less Cast-In-Place Reinforced Concrete Slab for the new pump station addition was needed than estimated which resulted in this credit.
 - d. Additional Steel Sheet Piles under the new pump station addition were needed for the new configuration of the inlet sump area due to structural supports at the existing pump station necessitating a modified inlet structure.
 - e. Less Cast-In-Place Reinforced Sump Slab Concrete and Intake Channel Lining was needed than estimated which resulted in this credit.
 - f. Additional 6-Foot High Chain Link Fence for the new pump station improvements was needed to provide for security of the pump station.
 - g. Less Underground Diesel Fuel Supply/Return Piping Encased In Red Concrete was needed in order to facilitate future testing, inspection, and maintenance of the fuel piping system.
 - h. Additional Above Ground Galvanized Steel Diesel Fuel Supply/Return Piping Including Valves, Fitting, And Connections were needed in order to facilitate future testing, inspection, and maintenance of the fuel piping system.

- i. Additional 12" Thick Compacted Limestone Roadway was added to provide additional surfacing for turnaround/maneuverability of vehicles access and ingress to the new pump station improvements project and to provide a foundation for on-site storage of spare parts and equipment.
 - j. Additional Miscellaneous Excavation, Backfill, And Compaction was needed in order to excavate the downstream channel per project specifications and eliminate the bottom lined rip rap channel.
 - k. Less Rip Rap for Downstream Bank Protection was needed than estimated which resulted in this credit.
 - l. Less Geotextile Fabric for Downstream Bank Protection was needed than estimated which resulted in this credit.
 - m. Additional Days were needed to Furnish and Install Temporary Electrical Power Generator due to the early termination of Entergy electrical power for safety reasons and the additional days added to the contract required to complete construction until permanent Entergy electrical power could be restored.
 - n. Additional 12" Thick Compacted Limestone Roadway was added to provide additional surfacing for turnaround/maneuverability of vehicles access and ingress to the new pump station improvements project and to provide a foundation for on-site storage of spare parts and equipment.
 - o. Additional Steel Sheet Piles for the Channel Bulkhead at the new bar screen structure was needed to improve erosion control.
 - p. Additional 6-Foot High Chain Link Fence at the Canal and Bar Screen Structure was needed to provide for security of the new Bar Screens.
4. Contract Time
- a. Additional seventy eight (78) contract days was justified due to rain days incurred during the project and late delivery of the Pumps, Right Angle Gear Drive, and Engines.

Attachments: Cost of extras and spreadsheet of actual values for each item. (2 pages)

CHANGE IN CONTRACT PRICE:
Original Contract Price \$ <u>6,965,925.00</u>
Net Increase (Decrease) from previous Change Orders No. <u> </u> to <u> </u> : \$ <u>N/A</u>
Contract Price prior to this Change Order: \$ <u>6,965,925.00</u>
Net increase (decrease) of this Change Order: \$ <u>(-175,126.50)</u>
Contract Price with all approved Change Orders: \$ <u>6,790,798.50</u>

CHANGE IN CONTRACT TIMES:
Original Contract Times: Substantial Completion: <u>January 24, 2012</u> Ready for final payment: <u>March 9, 2012</u> (days or dates)
Net change from previous Change Orders No. <u>N/A</u> to No. <u>N/A</u> : Substantial Completion: <u>N/A</u> Ready for final payment: <u>N/A</u> (days)
Contract Times prior to this Change Order: Substantial Completion: <u>January 24, 2012</u> Ready for final payment: <u>March 9, 2012</u> (days or dates)
Net increase (decrease) this Change Order: Substantial Completion: <u>April 11, 2012 (+78 Days)</u> Ready for final payment: <u>May 26, 2012</u> (days)
Contract Times with all approved Change Orders: Substantial Completion: <u>April 11, 2012</u> Ready for final payment: <u>May 26, 2012</u> (days or dates)

RECOMMENDED:

By: [Signature]
ENGINEER (Authorized Signature)

APPROVED:

By: [Signature]
OWNER (Authorized Signature)

ACCEPTED:

By: [Signature]
CONTRACTOR (Authorized Signature)

Date: 5/15/12

Date: 6/7/12

Date: 5/15/12

EJCDC 1910-8-B (1996 Edition)

Prepared by the Engineers Joint Contract Documents Committee and endorsed by The Associated General Contractors of America and the Construction Specifications Institute.

ITEM #	DESCRIPTION OF WORK	QTY	UoM	UNIT \$\$\$	Bid Value	ACT QTY	UoM	UNIT \$\$\$	ACT Value
9	9-PS Compacted Sand Embankment At Discharge Pipes (Vehicular Measurement)	2,000.00	CY	4.00	8,000.00	8,000.00	CY	4.00	32,000.00
10	10-PS Compacted Clay Fill Material Above Discharge Pipe (Vehicular Measurement)	800.00	CY	6.00	4,800.00	0.00	CY	6.00	-
11	11-PS Cast-In-Place Reinforced Concrete Discharge Basin Extension	125.00	CY	400.00	50,000.00	120.00	CY	400.00	48,000.00
18	18-PS Cast-In-Place Reinforced Concrete Slab, Beams, And Supports For The New Pump Station Addition	60.00	CY	900.00	54,000.00	52.00	CY	900.00	46,800.00
20	20-PS Steel Sheet Piles Under The New Pump Station Addition (Sump Area)	1,900.00	SF	40.00	76,000.00	2,130.00	SF	40.00	85,200.00
21	21-PS Cast-In-Place Reinforced Sump Slab Concrete And Intake Channel Lining	140.00	CY	600.00	84,000.00	118.00	CY	600.00	70,800.00
26	26-PS 6-Foot High Chain Link Fence With Anti Climb Top At The New Pump Station Addition	250.00	LF	25.00	6,250.00	825.00	LF	25.00	20,625.00
37	37-PS Underground Diesel Fuel Supply/Return Piping Encased In Red Concrete	200.00	LF	100.00	20,000.00	80.00	LF	100.00	8,000.00
38	38-PS Above Ground Galvanized Steel Diesel Fuel Supply/Return Piping Including Valves, Fitting, And Connections	125.00	LF	60.00	7,500.00	325.00	LF	60.00	19,500.00
40	40-PS 12" Thick Compacted Limestone Roadway With Geotextile Fabric	625.00	SY	14.00	8,750.00	805.00	SY	14.00	11,270.00
43	43-PS Miscellaneous Electrical Work Including Panels, Conduit, Wires, Disconnects, Cables, Lighting, Grounding, Supporting Devices, And Appurtenance	0.50	LS	100,000.00	50,000.00	0.46	LS	100,000.00	45,912.50
46	46-PS Miscellaneous Excavation, Backfill, And Compaction	1,500.00	CY	12.00	18,000.00	3,500.00	CY	12.00	42,000.00
48	48-PS Rip Rap (For Downstream Bank Protection)	3,000.00	TN	45.00	135,000.00	920.00	TN	45.00	41,400.00
49	49-PS Geotextile Fabric For Downstream Bank Protection	4,400.00	SY	2.00	8,800.00	2,390.00	SY	2.00	4,780.00
54	54-PS Relocation Of Infrastructure Items (As Directed By The Engineer)	0.50	LS	300,000.00	150,000.00		LS	300,000.00	-
55	55-PS Furnish And Install Temporary Electrical Power Generator With 48-Hour Fuel Tank Capacity to Power Station During Construction Electrical Outage. Fuel For Operating the Generator Shall Be Provided By St. Charles Parish	74.00	Days	50.00	3,700.00	225.00	Days	50.00	11,250.00
57	57-PS 12" Thick Compacted Limestone Roadway With Geotextile Fabric	625.00	SY	14.00	8,750.00	802.00	SY	14.00	11,228.00
63	63-PS Steel Sheet Piles (Channel Bulkhead)	10,150.00	SF	55.00	558,250.00	10,500.00	SF	55.00	577,500.00
64	64-PS 6-Foot High Chain Link Fence At The Canal And Bar Screen Structure	160.00	LF	25.00	4,000.00	175.00	LF	25.00	4,375.00
74	74-PS Relocation Of Infrastructure Items (As Directed By The Engineer)	0.50	LS	300,000.00	150,000.00		LS	300,000.00	-
X-1	X-1 Bar Screen Motor and Gear Assembly					1.00	LS	14,420.00	14,420.00
X-2	X-2 Generator Conduit					1.00	LS	557.00	557.00
X-3	X-3 Electrical Modifications					1.00	LS	39,163.00	39,163.00
X-4	X-4 Fuel System Modifications					1.00	LS	2,515.00	2,515.00
X-5	X-5 Remove Sheetpile/Rip Rap					1.00	LS	11,316.00	11,316.00
X-6	X-6 Remove Rip Rap					1.00	LS	11,130.00	11,130.00
X-7	X-7 Remove concrete piles/tie backs					1.00	LS	20,176.00	20,176.00
X-8	X-8 Grout Flanges for Existing					1.00	LS	1,421.00	1,421.00

ITEM #	DESCRIPTION OF WORK	QTY	UoM	UNIT \$\$\$	Bid Value	ACT QTY	UoM	UNIT \$\$\$	ACT Value	
X-9	Gusset Plates for Buildingt Modifications					1.00	LS	14,246.00	14,246.00	14,246.00
X-10	Concrete Curb for Fuel					1.00	LS	10,763.00	10,763.00	10,763.00
X-11	Fence Rail					1.00	LS	796.00	796.00	796.00
X-12	Fuel Sperator					1.00	LS	4,897.00	4,897.00	4,897.00
X-13	Overhead Door Modifications					1.00	LS	4,133.00	4,133.00	4,133.00
X-14	4-Feet Wide Chain Link Access Gates with Anti Climb Top					8.00	EA	1,812.50	14,500.00	14,500.00