

BID TABULATION FOR:

BID OPENING DATE:
BID OPENING LOCATION:
TABULATION BY:
TABULATION DATE:
LJA JOB NO.

CONSTRUCTION OF THE DETENTION AND GRADING
TO SERVE WATERMARK DETENTION PHASE I
BRAZORIA COUNTY MUNICIPAL UTILITY DISTRICT NO. 81
CITY OF ALVIN, BRAZORIA COUNTY, TEXAS
DECEMBER 1, 2021
LJA ENGINEERING, INC.
D. FORREST
DECEMBER 2, 2021
1931-7905 (9.2)

BIDDER'S NAME	TOTAL AMOUNT BID	ALTERNATE BID NO. 1 ITEMS	ALTERNATE BID NO. 2 ITEMS
1) ENVIRONMENTAL ALLIES	\$1,266,039.50	\$5,012,245.18	\$1,585,630.60
2) SONORA SWQM CO. DBA SONORA CONSTRUCTION	\$1,431,815.20	\$4,619,086.00	\$1,756,328.55
3) G & G CONTRACTORS LLC	\$1,524,989.90 *	\$3,729,206.50 *	\$1,969,166.90 *
4) R CONSTRUCTION	\$1,499,893.70	\$4,820,656.70 *	\$1,982,797.70
5) C.E. BARKER, LTD.	\$1,539,391.99	\$5,967,075.99	\$2,091,136.37
6) GW PHILLIPS CONCRETE CONSTRUCTION, INC.	\$1,720,376.00	\$4,319,234.00	\$2,039,287.00
7) TEXAS DEWATERING LLC	\$1,913,667.00 *	\$5,234,430.00 *	\$2,222,501.00 *

CALENDAR DAYS - 75/95

LJA Engineering, Inc.



12-02-2021

Kathleen Kinchen

I, Kathleen Kinchen, P.E., hereby certify these bid tabulations to be true and correct.

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ITEM	DESCRIPTION	UNIT	QTY	1) ENVIRONMENTAL ALLIES		2) SONORA SWQM CO. DBA SONORA CONSTRUCTION		3) G & G CONTRACTORS LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
DETENTION AND DRAINAGE ITEMS									
1.	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF LAKE A TO BE HAULED TO FILL AREAS, AS INDICATED ON PLANS (INCLUDES STOCKPILE LOCATIONS), COMPLETE IN PLACE	CY	171603	\$2.71	\$465,044.13	\$3.40	\$583,450.20	\$3.55	\$609,190.65
2.	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF LAKE C TO BE HAULED TO FILL AREAS, AS INDICATED ON PLANS (INCLUDES STOCKPILE LOCATIONS), COMPLETE IN PLACE	CY	20905	\$2.71	\$56,652.55	\$3.80	\$79,439.00	\$3.55	\$74,212.75
3.	CLAY FILL FOR LAKE A LINER, MATERIAL TO BE OBTAINED WITHIN LIMITS OF LAKE A, (FILLING IN A MAXIMUM 8" LIFTS UNTIL 2' THICK (MIN.), AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, (CONTRACTOR WILL ONLY BE PAID EXACT QUANTITY CONSTRUCTED), AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	CY	17200	\$1.91	\$32,852.00	\$1.00	\$17,200.00	\$2.00	\$34,400.00
4.	WATERING LAKE A CLAY LINER TO ENSURE THAT LINER MAINTAINS MOISTURE REQUIREMENTS AS DICTATED IN SPECS, INCLUDES WATERING TRUCK, TEMPORARY IRRIGATION SYSTEM, OR ANY MEANS NECESSARY TO KEEP CLAY MOIST, COMPLETE IN PLACE	DAY	1	\$700.00	\$700.00	\$1,800.00	\$1,800.00	\$2,500.00	\$2,500.00
5.	CLAY FILL FOR LAKE C LINER, MATERIAL TO BE OBTAINED WITHIN LIMITS OF LAKE C, (FILLING IN A MAXIMUM 8" LIFTS UNTIL 2' THICK (MIN.), AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, (CONTRACTOR WILL ONLY BE PAID EXACT QUANTITY CONSTRUCTED), AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	CY	2100	\$1.91	\$4,011.00	\$1.00	\$2,100.00	\$2.00	\$4,200.00
6.	WATERING LAKE C CLAY LINER TO ENSURE THAT LINER MAINTAINS MOISTURE REQUIREMENTS AS DICTATED IN SPECS, INCLUDES WATERING TRUCK, TEMPORARY IRRIGATION SYSTEM, OR ANY MEANS NECESSARY TO KEEP CLAY MOIST, COMPLETE IN PLACE	DAY	1	\$700.00	\$700.00	\$1,800.00	\$1,800.00	\$2,500.00	\$2,500.00
7.	36" R.C.P. STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	185	\$183.71	\$33,986.35	\$194.00	\$35,890.00	\$150.00	\$27,750.00
8.	48" R.C.P. STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	215	\$252.07	\$54,195.05	\$249.00	\$53,535.00	\$209.00	\$44,935.00
9.	6'X3' PRECAST REINFORCED CONCRETE BOX CULVERT, ASTM C-1433, ALL DEPTHS, INCLUDES RUBBER GASKETS AT ALL JOINTS AND BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	151	\$538.11	\$81,254.61	\$448.00	\$67,648.00	\$375.00	\$56,625.00
10.	8'X4' PRECAST REINFORCED CONCRETE BOX CULVERT, ASTM C-1433, ALL DEPTHS, INCLUDES RUBBER GASKETS AT ALL JOINTS AND BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	173	\$723.99	\$125,250.27	\$623.00	\$107,779.00	\$488.00	\$84,424.00
11.	4" CONCRETE SLOPE PAVING WITH 2' MINIMUM TOE WALLS ALL AROUND, 2' CLAY LINER BELOW ALL SLOPE PAVING, AND EXPANSION JOINTS, COMPLETE IN PLACE	SY	500	\$71.20	\$35,600.00	\$91.00	\$45,500.00	\$150.00	\$75,000.00
12.	RIP RAP (18" THICKNESS) GRADATION NO. 1, INCLUDING GEOTEXTILE FABRIC, ("MIRAFI-600" OR APPROVED EQUAL), FOR DRAINAGE SWALE OUTFALLS, COMPLETE IN PLACE	SY	130	\$63.42	\$8,244.60	\$95.00	\$12,350.00	\$150.00	\$19,500.00
13.	STORM SEWER UTILITY SPOIL TO BE USED FOR FILL IN PROPOSED FILL AREAS, INCLUDES EXCAVATION, HAULING, PLACING AND COMPACTION TO 95% STANDARD PROCTOR DENSITY WITH MAXIMUM 8" LIFTS, AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	CY	1,420	\$2.20	\$3,124.00	\$4.00	\$5,680.00	\$2.00	\$2,840.00

* MATHEMATICAL ERROR

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ITEM	DESCRIPTION	UNIT	QTY	1) ENVIRONMENTAL ALLIES		2) SONORA SWQM CO. DBA SONORA CONSTRUCTION		3) G & G CONTRACTORS LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
14.	BACKSLOPE DRAIN INTERCEPTOR STRUCTURES, INCLUDING ALL PIPES, SLOPE PAVING WITH REINFORCING STEEL AT INFLOW AND OUTFLOW, RIP RAP, NECESSARY ADAPTORS, JOINTS AND FITTINGS, ETC., SPOILS TO BE HAULED, PLACED, AND COMPACTED TO 95% STANDARD PROCTOR DENSITY WITH MAXIMUM 8" LIFTS IN FILL AREAS, TO BE APPROVED BY ENGINEER, COMPLETE IN PLACE	EA	5	\$13,816.06	\$69,080.30	\$10,450.00	\$52,250.00	\$4,500.00	\$22,500.00
15.	INTERCEPTOR SWALES, INCLUDES EXCAVATION AND GRADING, AND PLACEMENT OF MATERIAL AS PER PLANS, COMPLETE IN PLACE	LF	3,063	\$0.77	\$2,358.51	\$3.00	\$9,189.00	\$2.50	\$7,657.50
16.	V-BOTTOM SWALES TO PROMOTE DRAINAGE WITH 4:1 S.S., LOCATED INSIDE PROPOSED PHASE I FILL AREA, COMPLETE IN PLACE	LF	1,369	\$0.65	\$889.85	\$3.00	\$4,107.00	\$2.50	\$3,422.50
17.	SOD FOR EROSION CONTROL AROUND BACKSLOPE DRAIN INTERCEPTOR STRUCTURES AND MISCELLANEOUS AREAS, AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	SY	30	\$5.25	\$157.50	\$50.00	\$1,500.00	\$10.00	\$300.00
18.	BORE AND JACK OF PROPOSED 36" REINFORCED CONCRETE PIPE, INCLUDING BORE PITS, NOT INCLUDING LF OF PIPE, AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	LF	185	\$396.46	\$73,345.10	\$527.00	\$97,495.00	\$600.00	\$111,000.00
19.	DEWATERING PER LF OF PIPE (NO SEPARATE PAY FOR DOUBLE ROW IF NEEDED), (ALL DEPTHS, THIS IS AN ESTIMATED QUANTITY TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	724	\$20.00	\$14,480.00	\$10.00	\$7,240.00	\$25.00	\$18,100.00
20.	DEWATERING FOR GROUND WATER CONTROL, (INCLUDES CONVENTIONAL VACUUM TYPE WELL POINTS, INTERNAL SUMPS AND PUMPS, OR ANY TYPE OF PUMPING NECESSARY TO COMPLETE THE CONSTRUCTION OF THE PROJECT), COMPLETE IN PLACE	AC	10	\$6,000.00	\$60,000.00	\$6,000.00	\$60,000.00	\$6,000.00	\$60,000.00
21.	ADDITIONAL PUMPING, AS NEEDED AND ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	DAY	10	\$331.00	\$3,310.00	\$1,000.00	\$10,000.00	\$1,000.00	\$10,000.00
22.	DEMUCK, SCARIFY, AND FILL EXISTING DRAINAGE DITCH, COMPLETE IN PLACE	LF	1,100	\$7.40	\$8,140.00	\$6.00	\$6,600.00	\$10.00	\$11,000.00
23.	REBUILD EXISTING SIDE SLOPE OF EXISTING BRAZORIA-DRAINAGE DISTRICT NO. 3 DITCH TO EXISTING OR BETTER CONDITIONS, COMPLETE IN PLACE	LS	1	\$5,672.32	\$5,672.32	\$6,000.00	\$6,000.00	\$5,000.00	\$5,000.00
24.	PROPOSED DITCH PER GRADING PLAN, INCLUDES REGRADING OF EXISTING DITCH TO CONNECT INTO THE PROPOSED DITCH, COMPLETE IN PLACE	LF	506	\$0.90	\$455.40	\$22.00	\$11,132.00	\$10.00	\$5,060.00
25.	TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	724	\$2.10	\$1,520.40	\$2.00	\$1,448.00	\$2.00	\$1,448.00
SUBTOTAL DETENTION AND DRAINAGE ITEMS					\$1,141,023.94		\$1,281,132.20		\$1,293,565.40
MISCELLANEOUS AND GRADING IMPROVEMENT ITEMS									
1.	METHOD "A" CONSTRUCTION STAKING AS PER GBI PARTNERS, L.P. (CONTACT JON BORDOVSKY AT 281.499.4539), COMPLETE IN PLACE	LS	1	\$11,500.00	\$11,500.00	\$11,500.00	\$11,500.00	\$86,500.00	\$86,500.00
2.	AS-BUILT SURVEY OF ALL LAKES AND FILL AREAS (CONTACT JON BORDOVSKY AT 281.499.4539 TO PROVIDE CERTIFIED TOPOGRAPHIC SURVEY, GRID SPACING SHALL BE 200' MAXIMUM, INCLUDES 3D CAD FORMAT), COMPLETE IN PLACE	LS	1	\$5,500.00	\$5,500.00	\$5,500.00	\$5,500.00	\$5,500.00	\$5,500.00
3.	ADDITIONAL CEMENT STABILIZED SAND (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	CY	500	\$25.00	\$12,500.00	\$25.00	\$12,500.00	\$25.00	\$12,500.00
4.	TEMPORARY COFFER DAM ALONG LOCATIONS WHERE INSTALLING CULVERTS AND/OR ESTABLISHING POND HIGH BANK, INCLUDES PUMPING, INSTALLATION AND REMOVAL UPON COMPLETION, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	1	\$3,790.00	\$3,790.00	\$6,000.00	\$6,000.00	\$5,000.00	\$5,000.00

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ITEM	DESCRIPTION	UNIT	QTY	1) ENVIRONMENTAL ALLIES		2) SONORA SWQM CO. DBA SONORA CONSTRUCTION		3) G & G CONTRACTORS LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
5.	ADDITIONAL COST FOR STORM SEWER BEDDING AND BACKFILL FOR UNSATISFACTORY SOIL CONDITIONS, ALL SIZES AND DEPTHS, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	360	\$20.00	\$7,200.00	\$20.00	\$7,200.00	\$20.00	\$7,200.00
6.	MISCELLANEOUS SWALES TO PROMOTE POSITIVE DRAINAGE, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	500	\$0.25	\$125.00	\$3.00	\$1,500.00	\$2.50	\$1,250.00
7.	HYDRO-MULCH SEEDING OF LAKES, CHANNELS, MAINTENANCE BERMS, AND SIDE SLOPES, AT LEAST 95% TURF ESTABLISHMENT REQUIRED, COMPLETE IN PLACE	AC	16	\$250.00	\$4,000.00	\$2,400.00	\$38,400.00	\$1,800.00	\$28,800.00
8.	BROADCAST SEEDING OF FILL AREA, AT LEAST 80% TURF ESTABLISHMENT REQUIRED, COMPLETE IN PLACE	AC	23	\$100.00	\$2,300.00	\$300.00	\$6,900.00	\$1,250.00	\$28,750.00
9.	STORMWATER POLLUTION PREVENTION PLAN, COMPLETE IN PLACE	LS	1	\$1,825.00	\$1,825.00	\$1,200.00	\$1,200.00	\$1,000.00	\$1,000.00
10.	INSTALLATION, MAINTENANCE AND REMOVAL OF CONCRETE WASHOUT, COMPLETE IN PLACE	EA	1	\$2,756.94	\$2,756.94	\$500.00	\$500.00	\$500.00	\$500.00
11.	INSTALLATION, MAINTENANCE, AND REMOVAL OF STABILIZED CONSTRUCTION EXIT, SWMCA SPECIFICATION NO. 4711, INCLUDES INSTALLATION AND REMOVAL, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	1	\$4,135.42	\$4,135.42	\$2,400.00	\$2,400.00	\$5,000.00	\$5,000.00
12.	INSTALL AND MAINTAIN REINFORCED FILTER FABRIC FENCE (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	13,283	\$0.40	\$5,313.20	\$1.00	\$13,283.00	\$1.50	\$19,924.50
13.	PIPELINE CROSSINGS, PER INEOS, CHEVRON, PHILLIPS 66 AND ENTERPRISE TO INCLUDE MATS, AS NEEDED AND DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	EA	3	\$18,190.00	\$54,570.00	\$9,600.00	\$28,800.00	\$4,000.00	\$12,000.00
14.	OVER EXCAVATION AND UNDERCUTTING OF UNSUITABLE MATERIAL, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	CY	5,000	\$1.90	\$9,500.00	\$3.00	\$15,000.00	\$3.50	\$17,500.00
SUBTOTAL MISCELLANEOUS AND GRADING IMPROVEMENT ITEMS					\$125,015.56		\$150,683.00		\$231,424.50 *
ALTERNATE 1 BID ITEMS									
1.	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF LAKE A, AS INDICATED ON PLANS, TO BE HAULED AND DISPOSED OUTSIDE THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, IN LIEU OF DETENTION AND DETENTION & DRAINAGE ITEM NO. 1, COMPLETE IN PLACE	CY	171,603	\$22.17	\$3,804,438.51	\$20.00	\$3,432,060.00	\$15.00	\$2,574,045.00
2.	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF LAKE C, AS INDICATED ON PLANS, TO BE HAULED AND DISPOSED OUTSIDE THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, IN LIEU OF DETENTION AND DETENTION & DRAINAGE ITEM NO. 2, COMPLETE IN PLACE	CY	20,905	\$22.17	\$463,463.85	\$20.00	\$418,100.00	\$15.00	\$313,575.00
SUBTOTAL ALTERNATE 1 BID ITEMS					\$4,267,902.36		\$3,850,160.00		\$2,887,620.00
ALTERNATE 2 BID ITEMS									
1.	CLEARING AND GRUBBING, OF PROPOSED FILL AREAS - MATERIAL TO BE HAULED OFFSITE (INCLUDES REMOVAL OF TREES, ROOT RAKING, BACK DRAGGING, AND TRANSPORTING), TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	AC	45.05	\$3,750.00	\$168,937.50	\$4,435.00	\$199,796.75	\$6,500.00	\$292,825.00

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ITEM	DESCRIPTION	UNIT	QTY	1) ENVIRONMENTAL ALLIES		2) SONORA SWQM CO. DBA SONORA CONSTRUCTION		3) G & G CONTRACTORS LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
2.	CLEARING AND GRUBBING, OF PROPOSED EXCAVATION AREAS - MATERIAL TO BE HAULED OFFSITE (INCLUDES REMOVAL OF TREES, ROOT RAKING, BACK DRAGGING, AND TRANSPORTING), TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	AC	15.56	\$3,750.00	\$58,350.00	\$4,435.00	\$69,008.60	\$6,500.00	\$101,140.00
3.	REMOVE AND DISPOSE EXISTING BARBED WIRE FENCE AND GATES, COMPLETE IN PLACE	LF	5,000	\$3.04	\$15,200.00	\$2.00	\$10,000.00	\$2.00	\$10,000.00
4.	METHOD "A" CONSTRUCTION STAKING AS PER GBI PARTNERS, L.P. (CONTACT JON BORDOVSKY AT 281.499.4539.), COMPLETE IN PLACE	LS	1	\$4,500.00	\$4,500.00	\$4,500.00	\$4,500.00	\$4,500.00	\$4,500.00
5.	STORM WATER POLLUTION PREVENTION PLAN COMPLIANCE AND INSPECTIONS, COMPLETE IN PLACE	LS	1	\$1,530.00	\$1,530.00	\$1,200.00	\$1,200.00	\$2,500.00	\$2,500.00
6.	INSTALLATION, MAINTENANCE, AND REMOVAL OF STABILIZED CONSTRUCTION EXIT, SWMHCA SPECIFICATION NO. 4711, INCLUDES INSTALLATION AND REMOVAL, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	1	\$3,291.60	\$3,291.60	\$2,400.00	\$2,400.00	\$5,000.00	\$5,000.00
7.	INSTALL AND MAINTAIN REINFORCED FILTER FABRIC FENCE (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	8,808	\$1.50	\$13,212.00	\$1.00	\$8,808.00	\$1.50	\$13,212.00
8.	PIPELINE CROSSINGS, PER INEOS, CHEVRON, PHILLIPS 66 AND ENTERPRISE TO INCLUDE MATS, AS NEEDED AND DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	EA	3	\$18,190.00	\$54,570.00	\$9,600.00	\$28,800.00	\$5,000.00	\$15,000.00
SUBTOTAL ALTERNATE 2 BID ITEMS					\$319,591.10		\$324,513.35		\$444,177.00
BID SUMMARY									
SUBTOTAL DETENTION AND DRAINAGE ITEMS					\$1,141,023.94		\$1,281,132.20		\$1,293,565.40 *
SUBTOTAL MISCELLANEOUS AND GRADING IMPROVEMENT ITEMS					\$125,015.56		\$150,683.00		\$231,424.50 *
TOTAL AMOUNT BID					\$1,266,039.50		\$1,431,815.20		\$1,524,989.90 *
TOTAL AMOUNT BID					\$1,266,039.50		\$1,431,815.20		\$1,524,989.90 *
SUBTOTAL ALTERNATE 1 BID ITEMS					\$4,267,902.36		\$3,850,160.00		\$2,887,620.00
DEDUCT DETENTION AND DRAINAGE ITEMS 1 THROUGH 2					(\$521,696.68)		(\$662,889.20)		(\$683,403.40)
TOTAL AMOUNT BID INCLUDING ALTERNATE 1 BID ITEMS					\$5,012,245.18		\$4,619,086.00		\$3,729,206.50 *
TOTAL AMOUNT BID					\$1,266,039.50		\$1,431,815.20		\$1,524,989.90 *
SUBTOTAL ALTERNATE 2 BID ITEMS					\$319,591.10		\$324,513.35		\$444,177.00
TOTAL AMOUNT BID INCLUDING ALTERNATE 2 BID ITEMS					\$1,585,630.60		\$1,756,328.55		\$1,969,166.90 *

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4) R CONSTRUCTION

5) C.E. BARKER, LTD.

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DETENTION AND DRAINAGE ITEMS							
1.	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF LAKE A TO BE HAULED TO FILL AREAS, AS INDICATED ON PLANS (INCLUDES STOCKPILE LOCATIONS), COMPLETE IN PLACE	CY	171603	\$3.75	\$643,511.25	\$3.00	\$514,809.00
2.	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF LAKE C TO BE HAULED TO FILL AREAS, AS INDICATED ON PLANS (INCLUDES STOCKPILE LOCATIONS), COMPLETE IN PLACE	CY	20905	\$3.75	\$78,393.75	\$3.00	\$62,715.00
3.	CLAY FILL FOR LAKE A LINER, MATERIAL TO BE OBTAINED WITHIN LIMITS OF LAKE A, (FILLING IN A MAXIMUM 8" LIFTS UNTIL 2' THICK (MIN.), AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, (CONTRACTOR WILL ONLY BE PAID EXACT QUANTITY CONSTRUCTED), AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	CY	17200	\$4.00	\$68,800.00	\$7.75	\$133,300.00
4.	WATERING LAKE A CLAY LINER TO ENSURE THAT LINER MAINTAINS MOISTURE REQUIREMENTS AS DICTATED IN SPECS, INCLUDES WATERING TRUCK, TEMPORARY IRRIGATION SYSTEM, OR ANY MEANS NECESSARY TO KEEP CLAY MOIST, COMPLETE IN PLACE	DAY	1	\$6,100.00	\$6,100.00	\$1,913.00	\$1,913.00
5.	CLAY FILL FOR LAKE C LINER, MATERIAL TO BE OBTAINED WITHIN LIMITS OF LAKE C, (FILLING IN A MAXIMUM 8" LIFTS UNTIL 2' THICK (MIN.), AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, (CONTRACTOR WILL ONLY BE PAID EXACT QUANTITY CONSTRUCTED), AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	CY	2100	\$4.00	\$8,400.00	\$7.75	\$16,275.00
6.	WATERING LAKE C CLAY LINER TO ENSURE THAT LINER MAINTAINS MOISTURE REQUIREMENTS AS DICTATED IN SPECS, INCLUDES WATERING TRUCK, TEMPORARY IRRIGATION SYSTEM, OR ANY MEANS NECESSARY TO KEEP CLAY MOIST, COMPLETE IN PLACE	DAY	1	\$6,100.00	\$6,100.00	\$1,913.00	\$1,913.00
7.	36" R.C.P. STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	185	\$143.00	\$26,455.00	\$166.00	\$30,710.00
8.	48" R.C.P. STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	215	\$210.00	\$45,150.00	\$278.00	\$59,770.00
9.	6'X3' PRECAST REINFORCED CONCRETE BOX CULVERT, ASTM C-1433, ALL DEPTHS, INCLUDES RUBBER GASKETS AT ALL JOINTS AND BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	151	\$485.00	\$73,235.00	\$546.00	\$82,446.00
10.	8'X4' PRECAST REINFORCED CONCRETE BOX CULVERT, ASTM C-1433, ALL DEPTHS, INCLUDES RUBBER GASKETS AT ALL JOINTS AND BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	173	\$690.00	\$119,370.00	\$766.00	\$132,518.00
11.	4" CONCRETE SLOPE PAVING WITH 2' MINIMUM TOE WALLS ALL AROUND, 2' CLAY LINER BELOW ALL SLOPE PAVING, AND EXPANSION JOINTS, COMPLETE IN PLACE	SY	500	\$110.00	\$55,000.00	\$105.00	\$52,500.00
12.	RIP RAP (18" THICKNESS) GRADATION NO. 1, INCLUDING GEOTEXTILE FABRIC, ("MIRAFI-600" OR APPROVED EQUAL), FOR DRAINAGE SWALE OUTFALLS, COMPLETE IN PLACE	SY	130	\$122.00	\$15,860.00	\$105.00	\$13,650.00
13.	STORM SEWER UTILITY SPOIL TO BE USED FOR FILL IN PROPOSED FILL AREAS, INCLUDES EXCAVATION, HAULING, PLACING AND COMPACTION TO 95% STANDARD PROCTOR DENSITY WITH MAXIMUM 8" LIFTS, AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	CY	1,420	\$2.25	\$3,195.00	\$3.00	\$4,260.00

* MATHEMATICAL ERROR

BID TABULATION FOR:

CONSTRUCTION OF THE DETENTION AND GRADING
 TO SERVE WATERMARK DETENTION PHASE I
 BRAZORIA COUNTY MUNICIPAL UTILITY DISTRICT NO. 81
 CITY OF ALVIN, BRAZORIA COUNTY, TEXAS
 DECEMBER 1, 2021
 LJA ENGINEERING, INC.
 D. FORREST
 DECEMBER 2, 2021
 1931-7905 (9.2)

BID OPENING DATE:
BID OPENING LOCATION:
TABULATION BY:
TABULATION DATE:
LJA JOB NO.

4) R CONSTRUCTION

5) C.E. BARKER, LTD.

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
14.	BACKSLOPE DRAIN INTERCEPTOR STRUCTURES, INCLUDING ALL PIPES, SLOPE PAVING WITH REINFORCING STEEL AT INFLOW AND OUTFLOW, RIP RAP, NECESSARY ADAPTORS, JOINTS AND FITTINGS, ETC., SPOILS TO BE HAULED, PLACED, AND COMPACTED TO 95% STANDARD PROCTOR DENSITY WITH MAXIMUM 8" LIFTS IN FILL AREAS, TO BE APPROVED BY ENGINEER, COMPLETE IN PLACE	EA	5	\$11,100.00	\$55,500.00	\$12,349.00	\$61,745.00
15.	INTERCEPTOR SWALES, INCLUDES EXCAVATION AND GRADING, AND PLACEMENT OF MATERIAL AS PER PLANS, COMPLETE IN PLACE	LF	3,063	\$3.40	\$10,414.20	\$4.00	\$12,252.00
16.	V-BOTTOM SWALES TO PROMOTE DRAINAGE WITH 4:1 S.S., LOCATED INSIDE PROPOSED PHASE I FILL AREA, COMPLETE IN PLACE	LF	1,369	\$3.40	\$4,654.60	\$4.00	\$5,476.00
17.	SOD FOR EROSION CONTROL AROUND BACKSLOPE DRAIN INTERCEPTOR STRUCTURES AND MISCELLANEOUS AREAS, AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	SY	30	\$4.50	\$135.00	\$7.00	\$210.00
18.	BORE AND JACK OF PROPOSED 36" REINFORCED CONCRETE PIPE, INCLUDING BORE PITS, NOT INCLUDING LF OF PIPE, AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	LF	185	\$370.00	\$68,450.00	\$431.00	\$79,735.00
19.	DEWATERING PER LF OF PIPE (NO SEPARATE PAY FOR DOUBLE ROW IF NEEDED), (ALL DEPTHS, THIS IS AN ESTIMATED QUANTITY TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	724	\$25.00	\$18,100.00	\$25.00	\$18,100.00
20.	DEWATERING FOR GROUND WATER CONTROL, (INCLUDES CONVENTIONAL VACUUM TYPE WELL POINTS, INTERNAL SUMPS AND PUMPS, OR ANY TYPE OF PUMPING NECESSARY TO COMPLETE THE CONSTRUCTION OF THE PROJECT), COMPLETE IN PLACE	AC	10	\$6,000.00	\$60,000.00	\$6,000.00	\$60,000.00
21.	ADDITIONAL PUMPING, AS NEEDED AND ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	DAY	10	\$340.00	\$3,400.00	\$829.00	\$8,290.00
22.	DEMUCK, SCARIFY, AND FILL EXISTING DRAINAGE DITCH, COMPLETE IN PLACE	LF	1,100	\$3.40	\$3,740.00	\$4.00	\$4,400.00
23.	REBUILD EXISTING SIDE SLOPE OF EXISTING BRAZORIA-DRAINAGE DISTRICT NO. 3 DITCH TO EXISTING OR BETTER CONDITIONS, COMPLETE IN PLACE	LS	1	\$4,700.00	\$4,700.00	\$3,188.00	\$3,188.00
24.	PROPOSED DITCH PER GRADING PLAN, INCLUDES REGRADING OF EXISTING DITCH TO CONNECT INTO THE PROPOSED DITCH, COMPLETE IN PLACE	LF	506	\$5.50	\$2,783.00	\$4.00	\$2,024.00
25.	TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	724	\$0.10	\$72.40	\$0.01	\$7.24
SUBTOTAL DETENTION AND DRAINAGE ITEMS					\$1,381,519.20		\$1,362,206.24
MISCELLANEOUS AND GRADING IMPROVEMENT ITEMS							
1.	METHOD "A" CONSTRUCTION STAKING AS PER GBI PARTNERS, L.P. (CONTACT JON BORDOVSKY AT 281.499.4539), COMPLETE IN PLACE	LS	1	\$11,500.00	\$11,500.00	\$11,500.00	\$11,500.00
2.	AS-BUILT SURVEY OF ALL LAKES AND FILL AREAS (CONTACT JON BORDOVSKY AT 281.499.4539 TO PROVIDE CERTIFIED TOPOGRAPHIC SURVEY, GRID SPACING SHALL BE 200' MAXIMUM, INCLUDES 3D CAD FORMAT), COMPLETE IN PLACE	LS	1	\$5,500.00	\$5,500.00	\$5,500.00	\$5,500.00
3.	ADDITIONAL CEMENT STABILIZED SAND (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	CY	500	\$25.00	\$12,500.00	\$25.00	\$12,500.00
4.	TEMPORARY COFFER DAM ALONG LOCATIONS WHERE INSTALLING CULVERTS AND/OR ESTABLISHING POND HIGH BANK, INCLUDES PUMPING, INSTALLATION AND REMOVEAL UPON COMPLETION, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	1	\$50.00	\$50.00	\$10,838.00	\$10,838.00

* MATHEMATICAL ERROR

BID TABULATION FOR:

CONSTRUCTION OF THE DETENTION AND GRADING
 TO SERVE WATERMARK DETENTION PHASE I
 BRAZORIA COUNTY MUNICIPAL UTILITY DISTRICT NO. 81
 CITY OF ALVIN, BRAZORIA COUNTY, TEXAS
 DECEMBER 1, 2021
 LJA ENGINEERING, INC.
 D. FORREST
 DECEMBER 2, 2021
 1931-7905 (9.2)

BID OPENING DATE:
BID OPENING LOCATION:
TABULATION BY:
TABULATION DATE:
LJA JOB NO.

4) R CONSTRUCTION

5) C.E. BARKER, LTD.

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
5.	ADDITIONAL COST FOR STORM SEWER BEDDING AND BACKFILL FOR UNSATISFACTORY SOIL CONDITIONS, ALL SIZES AND DEPTHS, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	360	\$20.00	\$7,200.00	\$20.00	\$7,200.00
6.	MISCELLANEOUS SWALES TO PROMOTE POSITIVE DRAINAGE, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	500	\$3.40	\$1,700.00	\$3.00	\$1,500.00
7.	HYDRO-MULCH SEEDING OF LAKES, CHANNELS, MAINTENANCE BERMS, AND SIDE SLOPES, AT LEAST 95% TURF ESTABLISHMENT REQUIRED, COMPLETE IN PLACE	AC	16	\$1,000.00	\$16,000.00	\$1,977.00	\$31,632.00
8.	BROADCAST SEEDING OF FILL AREA, AT LEAST 80% TURF ESTABLISHMENT REQUIRED, COMPLETE IN PLACE	AC	23	\$400.00	\$9,200.00	\$957.00	\$22,011.00
9.	STORMWATER POLLUTION PREVENTION PLAN, COMPLETE IN PLACE	LS	1	\$1,400.00	\$1,400.00	\$1,084.00	\$1,084.00
10.	INSTALLATION, MAINTENANCE AND REMOVAL OF CONCRETE WASHOUT, COMPLETE IN PLACE	EA	1	\$500.00	\$500.00	\$1,722.00	\$1,722.00
11.	INSTALLATION, MAINTENANCE, AND REMOVAL OF STABILIZED CONSTRUCTION EXIT, SWMHCA SPECIFICATION NO. 4711, INCLUDES INSTALLATION AND REMOVAL, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	1	\$2,400.00	\$2,400.00	\$3,838.00	\$3,838.00
12.	INSTALL AND MAINTAIN REINFORCED FILTER FABRIC FENCE (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	13,283	\$1.50	\$19,924.50	\$1.25	\$16,603.75
13.	PIPELINE CROSSINGS, PER INEOS, CHEVRON, PHILLIPS 66 AND ENTERPRISE TO INCLUDE MATS, AS NEEDED AND DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	EA	3	\$4,500.00	\$13,500.00	\$5,419.00	\$16,257.00
14.	OVER EXCAVATION AND UNDERCUTTING OF UNSUITABLE MATERIAL, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	CY	5,000	\$3.40	\$17,000.00	\$7.00	\$35,000.00
SUBTOTAL MISCELLANEOUS AND GRADING IMPROVEMENT ITEMS					\$118,374.50		\$177,185.75
ALTERNATE 1 BID ITEMS							
1.	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF LAKE A, AS INDICATED ON PLANS, TO BE HAULED AND DISPOSED OUTSIDE THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, IN LIEU OF DETENTION AND DETENTION & DRAINAGE ITEM NO. 1, COMPLETE IN PLACE	CY	171,603	\$21.00	\$3,603,663.00	\$26.00	\$4,461,678.00
2.	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF LAKE C, AS INDICATED ON PLANS, TO BE HAULED AND DISPOSED OUTSIDE THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, IN LIEU OF DETENTION AND DETENTION & DRAINAGE ITEM NO. 2, COMPLETE IN PLACE	CY	20,905	\$21.00	\$439,005.00	\$26.00	\$543,530.00
SUBTOTAL ALTERNATE 1 BID ITEMS					\$4,042,668.00		\$5,005,208.00
ALTERNATE 2 BID ITEMS							
1.	CLEARING AND GRUBBING, OF PROPOSED FILL AREAS - MATERIAL TO BE HAULED OFFSITE (INCLUDES REMOVAL OF TREES, ROOT RAKING, BACK DRAGGING, AND TRANSPORTING), TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	AC	45.05	\$7,200.00	\$324,360.00	\$8,287.50	\$373,351.88

BID TABULATION FOR:

CONSTRUCTION OF THE DETENTION AND GRADING
 TO SERVE WATERMARK DETENTION PHASE I
 BRAZORIA COUNTY MUNICIPAL UTILITY DISTRICT NO. 81
 CITY OF ALVIN, BRAZORIA COUNTY, TEXAS
 DECEMBER 1, 2021
 LJA ENGINEERING, INC.
 D. FORREST
 DECEMBER 2, 2021
 1931-7905 (9.2)

BID OPENING DATE:
BID OPENING LOCATION:
TABULATION BY:
TABULATION DATE:
LJA JOB NO.

4) R CONSTRUCTION

5) C.E. BARKER, LTD.

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
2.	CLEARING AND GRUBBING, OF PROPOSED EXCAVATION AREAS - MATERIAL TO BE HAULED OFFSITE (INCLUDES REMOVAL OF TREES, ROOT RAKING, BACK DRAGGING, AND TRANSPORTING), TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	AC	15.56	\$7,200.00	\$112,032.00	\$8,287.50	\$128,953.50
3.	REMOVE AND DISPOSE EXISTING BARBED WIRE FENCE AND GATES, COMPLETE IN PLACE	LF	5,000	\$2.00	\$10,000.00	\$2.55	\$12,750.00
4.	METHOD "A" CONSTRUCTION STAKING AS PER GBI PARTNERS, L.P. (CONTACT JON BORDOVSKY AT 281.499.4539.), COMPLETE IN PLACE	LS	1	\$4,500.00	\$4,500.00	\$4,500.00	\$4,500.00
5.	STORM WATER POLLUTION PREVENTION PLAN COMPLIANCE AND INSPECTIONS, COMPLETE IN PLACE	LS	1	\$2,800.00	\$2,800.00	\$1,084.00	\$1,084.00
6.	INSTALLATION, MAINTENANCE, AND REMOVAL OF STABILIZED CONSTRUCTION EXIT, SWMHCA SPECIFICATION NO. 4711, INCLUDES INSTALLATION AND REMOVAL, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	1	\$2,500.00	\$2,500.00	\$3,838.00	\$3,838.00
7.	INSTALL AND MAINTAIN REINFORCED FILTER FABRIC FENCE (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	8,808	\$1.50	\$13,212.00	\$1.25	\$11,010.00
8.	PIPELINE CROSSINGS, PER INEOS, CHEVRON, PHILLIPS 66 AND ENTERPRISE TO INCLUDE MATS, AS NEEDED AND DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	EA	3	\$4,500.00	\$13,500.00	\$5,419.00	\$16,257.00
SUBTOTAL ALTERNATE 2 BID ITEMS					\$482,904.00		\$551,744.38
BID SUMMARY							
SUBTOTAL DETENTION AND DRAINAGE ITEMS					\$1,381,519.20		\$1,362,206.24
SUBTOTAL MISCELLANEOUS AND GRADING IMPROVEMENT ITEMS					\$118,374.50		\$177,185.75
TOTAL AMOUNT BID					\$1,499,893.70		\$1,539,391.99
TOTAL AMOUNT BID					\$1,499,893.70		\$1,539,391.99
SUBTOTAL ALTERNATE 1 BID ITEMS					\$4,042,668.00		\$5,005,208.00
DEDUCT DETENTION AND DRAINAGE ITEMS 1 THROUGH 2					(\$721,905.00)		(\$577,524.00)
TOTAL AMOUNT BID INCLUDING ALTERNATE 1 BID ITEMS					\$4,820,656.70		\$5,967,075.99
TOTAL AMOUNT BID					\$1,499,893.70		\$1,539,391.99
SUBTOTAL ALTERNATE 2 BID ITEMS					\$482,904.00		\$551,744.38
TOTAL AMOUNT BID INCLUDING ALTERNATE 2 BID ITEMS					\$1,982,797.70		\$2,091,136.37

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CONSTRUCTION OF THE DETENTION AND GRADING
 TO SERVE WATERMARK DETENTION PHASE I
 BRAZORIA COUNTY MUNICIPAL UTILITY DISTRICT NO. 81
 CITY OF ALVIN, BRAZORIA COUNTY, TEXAS
 DECEMBER 1, 2021
 LJA ENGINEERING, INC.
 D. FORREST
 DECEMBER 2, 2021
 1931-7905 (9.2)

6) GW PHILLIPS CONCRETE
 CONSTRUCTION, INC.

7) TEXAS DEWATERING LLC

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
DETENTION AND DRAINAGE ITEMS							
1.	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF LAKE A TO BE HAULED TO FILL AREAS, AS INDICATED ON PLANS (INCLUDES STOCKPILE LOCATIONS), COMPLETE IN PLACE	CY	171603	\$4.50	\$772,213.50	\$3.75	\$643,511.25
2.	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF LAKE C TO BE HAULED TO FILL AREAS, AS INDICATED ON PLANS (INCLUDES STOCKPILE LOCATIONS), COMPLETE IN PLACE	CY	20905	\$4.50	\$94,072.50	\$3.75	\$78,393.75
3.	CLAY FILL FOR LAKE A LINER, MATERIAL TO BE OBTAINED WITHIN LIMITS OF LAKE A, (FILLING IN A MAXIMUM 8" LIFTS UNTIL 2' THICK (MIN.), AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, (CONTRACTOR WILL ONLY BE PAID EXACT QUANTITY CONSTRUCTED), AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	CY	17200	\$3.50	\$60,200.00	\$3.50	\$60,200.00
4.	WATERING LAKE A CLAY LINER TO ENSURE THAT LINER MAINTAINS MOISTURE REQUIREMENTS AS DICTATED IN SPECS, INCLUDES WATERING TRUCK, TEMPORARY IRRIGATION SYSTEM, OR ANY MEANS NECESSARY TO KEEP CLAY MOIST, COMPLETE IN PLACE	DAY	1	\$800.00	\$800.00	\$2,400.00	\$2,400.00
5.	CLAY FILL FOR LAKE C LINER, MATERIAL TO BE OBTAINED WITHIN LIMITS OF LAKE C, (FILLING IN A MAXIMUM 8" LIFTS UNTIL 2' THICK (MIN.), AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, (CONTRACTOR WILL ONLY BE PAID EXACT QUANTITY CONSTRUCTED), AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	CY	2100	\$3.50	\$7,350.00	\$3.50	\$7,350.00
6.	WATERING LAKE C CLAY LINER TO ENSURE THAT LINER MAINTAINS MOISTURE REQUIREMENTS AS DICTATED IN SPECS, INCLUDES WATERING TRUCK, TEMPORARY IRRIGATION SYSTEM, OR ANY MEANS NECESSARY TO KEEP CLAY MOIST, COMPLETE IN PLACE	DAY	1	\$500.00	\$500.00	\$2,400.00	\$2,400.00
7.	36" R.C.P. STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	185	\$180.00	\$33,300.00	\$350.00	\$64,750.00
8.	48" R.C.P. STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	215	\$240.00	\$51,600.00	\$300.00	\$64,500.00
9.	6'X3' PRECAST REINFORCED CONCRETE BOX CULVERT, ASTM C-1433, ALL DEPTHS, INCLUDES RUBBER GASKETS AT ALL JOINTS AND BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	151	\$480.00	\$72,480.00	\$700.00	\$105,700.00
10.	8'X4' PRECAST REINFORCED CONCRETE BOX CULVERT, ASTM C-1433, ALL DEPTHS, INCLUDES RUBBER GASKETS AT ALL JOINTS AND BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	173	\$680.00	\$117,640.00	\$1,200.00	\$207,600.00
11.	4" CONCRETE SLOPE PAVING WITH 2' MINIMUM TOE WALLS ALL AROUND, 2' CLAY LINER BELOW ALL SLOPE PAVING, AND EXPANSION JOINTS, COMPLETE IN PLACE	SY	500	\$94.00	\$47,000.00	\$85.00	\$42,500.00
12.	RIP RAP (18" THICKNESS) GRADATION NO. 1, INCLUDING GEOTEXTILE FABRIC, ("MIRAFI-600" OR APPROVED EQUAL), FOR DRAINAGE SWALE OUTFALLS, COMPLETE IN PLACE	SY	130	\$85.00	\$11,050.00	\$95.00	\$12,350.00
13.	STORM SEWER UTILITY SPOIL TO BE USED FOR FILL IN PROPOSED FILL AREAS, INCLUDES EXCAVATION, HAULING, PLACING AND COMPACTION TO 95% STANDARD PROCTOR DENSITY WITH MAXIMUM 8" LIFTS, AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	CY	1,420	\$3.50	\$4,970.00	\$5.00	\$7,100.00

BID TABULATION FOR:

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CONSTRUCTION OF THE DETENTION AND GRADING
 TO SERVE WATERMARK DETENTION PHASE I
 BRAZORIA COUNTY MUNICIPAL UTILITY DISTRICT NO. 81
 CITY OF ALVIN, BRAZORIA COUNTY, TEXAS
 DECEMBER 1, 2021
 LJA ENGINEERING, INC.
 D. FORREST
 DECEMBER 2, 2021
 1931-7905 (9.2)

6) GW PHILLIPS CONCRETE
 CONSTRUCTION, INC.

7) TEXAS DEWATERING LLC

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
14.	BACKSLOPE DRAIN INTERCEPTOR STRUCTURES, INCLUDING ALL PIPES, SLOPE PAVING WITH REINFORCING STEEL AT INFLOW AND OUTFLOW, RIP RAP, NECESSARY ADAPTORS, JOINTS AND FITTINGS, ETC., SPOILS TO BE HAULED, PLACED, AND COMPACTED TO 95% STANDARD PROCTOR DENSITY WITH MAXIMUM 8" LIFTS IN FILL AREAS, TO BE APPROVED BY ENGINEER, COMPLETE IN PLACE	EA	5	\$11,000.00	\$55,000.00	\$9,500.00	\$47,500.00
15.	INTERCEPTOR SWALES, INCLUDES EXCAVATION AND GRADING, AND PLACEMENT OF MATERIAL AS PER PLANS, COMPLETE IN PLACE	LF	3,063	\$4.00	\$12,252.00	\$4.00	\$12,252.00
16.	V-BOTTOM SWALES TO PROMOTE DRAINAGE WITH 4:1 S.S., LOCATED INSIDE PROPOSED PHASE I FILL AREA, COMPLETE IN PLACE	LF	1,369	\$3.00	\$4,107.00	\$4.00	\$5,476.00
17.	SOD FOR EROSION CONTROL AROUND BACKSLOPE DRAIN INTERCEPTOR STRUCTURES AND MISCELLANEOUS AREAS, AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	SY	30	\$6.00	\$180.00	\$8.00	\$240.00
18.	BORE AND JACK OF PROPOSED 36" REINFORCED CONCRETE PIPE, INCLUDING BORE PITS, NOT INCLUDING LF OF PIPE, AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	LF	185	\$525.00	\$97,125.00	\$1,200.00	\$222,000.00
19.	DEWATERING PER LF OF PIPE (NO SEPARATE PAY FOR DOUBLE ROW IF NEEDED), (ALL DEPTHS, THIS IS AN ESTIMATED QUANTITY TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	724	\$25.00	\$18,100.00	\$43.00	\$31,132.00
20.	DEWATERING FOR GROUND WATER CONTROL, (INCLUDES CONVENTIONAL VACUUM TYPE WELL POINTS, INTERNAL SUMPS AND PUMPS, OR ANY TYPE OF PUMPING NECESSARY TO COMPLETE THE CONSTRUCTION OF THE PROJECT), COMPLETE IN PLACE	AC	10	\$6,000.00	\$60,000.00	\$6,000.00	\$60,000.00
21.	ADDITIONAL PUMPING, AS NEEDED AND ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	DAY	10	\$1,500.00	\$15,000.00	\$580.00	\$5,800.00
22.	DEMUCK, SCARIFY, AND FILL EXISTING DRAINAGE DITCH, COMPLETE IN PLACE	LF	1,100	\$8.00	\$8,800.00	\$9.00	\$9,900.00
23.	REBUILD EXISTING SIDE SLOPE OF EXISTING BRAZORIA-DRAINAGE DISTRICT NO. 3 DITCH TO EXISTING OR BETTER CONDITIONS, COMPLETE IN PLACE	LS	1	\$8,000.00	\$8,000.00	\$10,000.00	\$10,000.00
24.	PROPOSED DITCH PER GRADING PLAN, INCLUDES REGRADING OF EXISTING DITCH TO CONNECT INTO THE PROPOSED DITCH, COMPLETE IN PLACE	LF	506	\$8.00	\$4,048.00	\$15.00	\$7,590.00
25.	TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	724	\$3.00	\$2,172.00	\$1.50	\$1,086.00
SUBTOTAL DETENTION AND DRAINAGE ITEMS					\$1,557,960.00		\$1,711,731.00
MISCELLANEOUS AND GRADING IMPROVEMENT ITEMS							
1.	METHOD "A" CONSTRUCTION STAKING AS PER GBI PARTNERS, L.P. (CONTACT JON BORDOVSKY AT 281.499.4539), COMPLETE IN PLACE	LS	1	\$11,500.00	\$11,500.00	\$11,500.00	\$11,500.00
2.	AS-BUILT SURVEY OF ALL LAKES AND FILL AREAS (CONTACT JON BORDOVSKY AT 281.499.4539 TO PROVIDE CERTIFIED TOPOGRAPHIC SURVEY, GRID SPACING SHALL BE 200' MAXIMUM, INCLUDES 3D CAD FORMAT), COMPLETE IN PLACE	LS	1	\$5,500.00	\$5,500.00	\$5,500.00	\$5,500.00
3.	ADDITIONAL CEMENT STABILIZED SAND (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	CY	500	\$25.00	\$12,500.00	\$25.00	\$12,500.00
4.	TEMPORARY COFFER DAM ALONG LOCATIONS WHERE INSTALLING CULVERTS AND/OR ESTABLISHING POND HIGH BANK, INCLUDES PUMPING, INSTALLATION AND REMOVEAL UPON COMPLETION, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	1	\$3,000.00	\$3,000.00	\$1.00	\$1.00 *

* MATHEMATICAL ERROR

BID TABULATION FOR:

BID OPENING DATE:
BID OPENING LOCATION:
TABULATION BY:
TABULATION DATE:
LJA JOB NO.

CONSTRUCTION OF THE DETENTION AND GRADING
 TO SERVE WATERMARK DETENTION PHASE I
 BRAZORIA COUNTY MUNICIPAL UTILITY DISTRICT NO. 81
 CITY OF ALVIN, BRAZORIA COUNTY, TEXAS
 DECEMBER 1, 2021
 LJA ENGINEERING, INC.
 D. FORREST
 DECEMBER 2, 2021
 1931-7905 (9.2)

ITEM	DESCRIPTION	UNIT	QTY	6) GW PHILLIPS CONCRETE CONSTRUCTION, INC.		7) TEXAS DEWATERING LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
5.	ADDITIONAL COST FOR STORM SEWER BEDDING AND BACKFILL FOR UNSATISFACTORY SOIL CONDITIONS, ALL SIZES AND DEPTHS, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	360	\$20.00	\$7,200.00	\$20.00	\$7,200.00
6.	MISCELLANEOUS SWALES TO PROMOTE POSITIVE DRAINAGE, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	500	\$4.00	\$2,000.00	\$4.00	\$2,000.00
7.	HYDRO-MULCH SEEDING OF LAKES, CHANNELS, MAINTENANCE BERMS, AND SIDE SLOPES, AT LEAST 95% TURF ESTABLISHMENT REQUIRED, COMPLETE IN PLACE	AC	16	\$2,250.00	\$36,000.00	\$2,200.00	\$35,200.00
8.	BROADCAST SEEDING OF FILL AREA, AT LEAST 80% TURF ESTABLISHMENT REQUIRED, COMPLETE IN PLACE	AC	23	\$950.00	\$21,850.00	\$1,000.00	\$23,000.00
9.	STORMWATER POLLUTION PREVENTION PLAN, COMPLETE IN PLACE	LS	1	\$4,000.00	\$4,000.00	\$2,500.00	\$2,500.00
10.	INSTALLATION, MAINTENANCE AND REMOVAL OF CONCRETE WASHOUT, COMPLETE IN PLACE	EA	1	\$800.00	\$800.00	\$2,000.00	\$2,000.00
11.	INSTALLATION, MAINTENANCE, AND REMOVAL OF STABILIZED CONSTRUCTION EXIT, SWMHCA SPECIFICATION NO. 4711, INCLUDES INSTALLATION AND REMOVAL, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	1	\$4,500.00	\$4,500.00	\$8,600.00	\$8,600.00
12.	INSTALL AND MAINTAIN REINFORCED FILTER FABRIC FENCE (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	13,283	\$2.00	\$26,566.00	\$3.00	\$39,849.00
13.	PIPELINE CROSSINGS, PER INEOS, CHEVRON, PHILLIPS 66 AND ENTERPRISE TO INCLUDE MATS, AS NEEDED AND DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	EA	3	\$4,000.00	\$12,000.00	\$12,362.00	\$37,086.00
14.	OVER EXCAVATION AND UNDERCUTTING OF UNSUITABLE MATERIAL, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	CY	5,000	\$3.00	\$15,000.00	\$3.00	\$15,000.00
SUBTOTAL MISCELLANEOUS AND GRADING IMPROVEMENT ITEMS					\$162,416.00	\$201,936.00 *	
ALTERNATE 1 BID ITEMS							
1.	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF LAKE A, AS INDICATED ON PLANS, TO BE HAULED AND DISPOSED OUTSIDE THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, IN LIEU OF DETENTION AND DETENTION & DRAINAGE ITEM NO. 1, COMPLETE IN PLACE	CY	171,603	\$18.00	\$3,088,854.00	\$21.00	\$3,603,663.00
2.	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF LAKE C, AS INDICATED ON PLANS, TO BE HAULED AND DISPOSED OUTSIDE THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, IN LIEU OF DETENTION AND DETENTION & DRAINAGE ITEM NO. 2, COMPLETE IN PLACE	CY	20,905	\$18.00	\$376,290.00	\$21.00	\$439,005.00
SUBTOTAL ALTERNATE 1 BID ITEMS					\$3,465,144.00	\$4,042,668.00	
ALTERNATE 2 BID ITEMS							
1.	CLEARING AND GRUBBING, OF PROPOSED FILL AREAS - MATERIAL TO BE HAULED OFFSITE (INCLUDES REMOVAL OF TREES, ROOT RAKING, BACK DRAGGING, AND TRANSPORTING), TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	AC	45.05	\$4,500.00	\$202,725.00	\$3,600.00	\$162,180.00

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CONSTRUCTION OF THE DETENTION AND GRADING
 TO SERVE WATERMARK DETENTION PHASE I
 BRAZORIA COUNTY MUNICIPAL UTILITY DISTRICT NO. 81
 CITY OF ALVIN, BRAZORIA COUNTY, TEXAS
 DECEMBER 1, 2021
 LJA ENGINEERING, INC.
 D. FORREST
 DECEMBER 2, 2021
 1931-7905 (9.2)

ITEM	DESCRIPTION	UNIT	QTY	6) GW PHILLIPS CONCRETE CONSTRUCTION, INC.		7) TEXAS DEWATERING LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
2.	CLEARING AND GRUBBING, OF PROPOSED EXCAVATION AREAS - MATERIAL TO BE HAULED OFFSITE (INCLUDES REMOVAL OF TREES, ROOT RAKING, BACK DRAGGING, AND TRANSPORTING), TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	AC	15.56	\$4,500.00	\$70,020.00	\$3,600.00	\$56,016.00
3.	REMOVE AND DISPOSE EXISTING BARBED WIRE FENCE AND GATES, COMPLETE IN PLACE	LF	5,000	\$1.25	\$6,250.00	\$2.00	\$10,000.00
4.	METHOD "A" CONSTRUCTION STAKING AS PER GBI PARTNERS, L.P. (CONTACT JON BORDOVSKY AT 281.499.4539.), COMPLETE IN PLACE	LS	1	\$4,500.00	\$4,500.00	\$4,500.00	\$4,500.00
5.	STORM WATER POLLUTION PREVENTION PLAN COMPLIANCE AND INSPECTIONS, COMPLETE IN PLACE	LS	1	\$2,000.00	\$2,000.00	\$3,636.00	\$3,636.00
6.	INSTALLATION, MAINTENANCE, AND REMOVAL OF STABILIZED CONSTRUCTION EXIT, SWMHCA SPECIFICATION NO. 4711, INCLUDES INSTALLATION AND REMOVAL, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	1	\$3,800.00	\$3,800.00	\$8,992.00	\$8,992.00
7.	INSTALL AND MAINTAIN REINFORCED FILTER FABRIC FENCE (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	8,808	\$2.00	\$17,616.00	\$3.00	\$26,424.00
8.	PIPELINE CROSSINGS, PER INEOS, CHEVRON, PHILLIPS 66 AND ENTERPRISE TO INCLUDE MATS, AS NEEDED AND DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	EA	3	\$4,000.00	\$12,000.00	\$12,362.00	\$37,086.00
SUBTOTAL ALTERNATE 2 BID ITEMS					\$318,911.00		\$308,834.00 *
BID SUMMARY							
SUBTOTAL DETENTION AND DRAINAGE ITEMS					\$1,557,960.00		\$1,711,731.00
SUBTOTAL MISCELLANEOUS AND GRADING IMPROVEMENT ITEMS					\$162,416.00		\$201,936.00 *
TOTAL AMOUNT BID					\$1,720,376.00		\$1,913,667.00 *
TOTAL AMOUNT BID					\$1,720,376.00		\$1,913,667.00 *
SUBTOTAL ALTERNATE 1 BID ITEMS					\$3,465,144.00		\$4,042,668.00
DEDUCT DETENTION AND DRAINAGE ITEMS 1 THROUGH 2					(\$866,286.00)		(\$721,905.00)
TOTAL AMOUNT BID INCLUDING ALTERNATE 1 BID ITEMS					\$4,319,234.00		\$5,234,430.00 *
TOTAL AMOUNT BID					\$1,720,376.00		\$1,913,667.00 *
SUBTOTAL ALTERNATE 2 BID ITEMS					\$318,911.00		\$308,834.00
TOTAL AMOUNT BID INCLUDING ALTERNATE 2 BID ITEMS					\$2,039,287.00		\$2,222,501.00 *