APPENDIX M: ENGINEERING REPORTS

Volume 4 of 4

Contents:

Basis of Design Report -15% Design Appendices as follows:

- 12. F Rough Order of Magnitude Cost Estimate
- 13. G Utility Disposition Report
- 14. H Shapefiles Supplied for WVA

It should be noted that the Engineering Reports were provided by CPRA as standalone documents and in some cases the terminology within may not match the terminology used in the SEIS (e.g. MSP vs. MSA-2 for the selected alternative).



Construction Cost Estimate

RIVER REINTRODUCTION INTO MAUREPAS SWAMP AND WEST SHORE LAKE PONTCHARTRAIN FLOOD RISK REDUCTION PROJECT

Design Level: 15%

CPRA Project Number: PO-0029

AECOM Project Number: 60632162

Prepared For:

Louisiana Coastal Protection and Restoration Authority (CPRA) Coastal Engineering Division



Prepared by:

AECOM Cost Estimating, Scheduling, And Claims Group 7650 W. Courtney Campbell Causeway Tampa, FL 33607-1462 813.286.1711



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COST ESTIMATE NARRATIVE

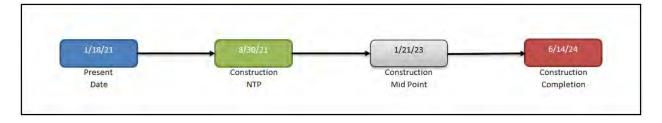
EXECUTIVE SUMMARY

AECOM has been contracted by CPRA to establish an expected construction budget for the River Reintroduction into Maurepas Swamp and West Shore Lake Pontchartrain Flood Risk Reduction Project. The construction cost for this project has been estimated and organized at a unit price level by major work items. The intent of this construction cost estimate is to establish a project budget based on expected construction activities and sequencing. The construction cost estimate has been developed by using 15% plans and certain assumptions to establish the expected project cost. This estimate is an AACEI class 3 estimate and includes an estimate uncertainty contingency of 35% to account for design development. Referencing the USACE EM 110-2-1304 Civil Works Construction Cost Index System an escalation percentage of 2.9% per year has been applied from present day dollars to the midpoint of the construction schedule. All unit cost presented in this estimate includes contractor markups and burdens. Below is a summary of the project cost and the summary of the project schedule.

Summary of Project Cost

			% Maure pas Proj Cost	% WSLP Proj Cost	MAUREPAS PRICE	WSLP PRICE
Subtotal		\$155,735,981	70%	30%	\$108,695,758	\$47,040,223
Project Escalation 2.9%/yr =	5.90%	\$9,188,423	70%	30%	\$6,413,050	\$2,775,373
Subtotal		\$164,924,404	70%	30%	\$115,108,808	\$49,815,596
Estimate Uncertainty Contingency	35%	\$57,723,541	70%	30%	\$40,288,083	\$17,435,459
Total Construction Cost =		\$222,647,946	70%	30%	\$155,396,891	\$67,251,055
Changes & Claims =	5%	\$11,132,397	70%	30%	\$7,769,845	\$3,362,553
Resident Inspect, Testing, etc. =	4%	\$8,905,918	70%	30%	\$6,215,876	\$2,690,042
Engr Svcs During Const.=	2%	\$4,452,959	70%	30%	\$3,107,938	\$1,345,021
	Grand Total =	<u>\$247,139,220</u>	<u>70%</u>	<u>30%</u>	\$172,490,549	<u>\$74,648,671</u>

Summary of Project Schedule





PROJECT SCOPE

The Maurepas Diversion major scope items are the headworks; conveyance channel; and the road and railway crossings. The main components of the WSLP Project are levee, floodwalls, floodgates, and the raising of Airline Highway to tie-in to the levee.

ESTIMATING METHODOLOGY

The methodology used for estimating labor, material, and equipment costs for this estimate is based on RS Means data base cost items and LA DOT Bid Tab Construction cost history. Each estimate item has been adjusted based on the project location, the type of work, access to the work, and quantity of the work item. The estimate work breakdown structure is formatted by Major Work items in a unit price format. All cost presented are gross cost including all contractor markups. The markups included in the unit price are Job Office Overhead, Home Office Overhead, Profit, Taxes, Labor Burdens, Insurance, and Bonds.

ESTIMATE CLASSIFICATION

This estimate is considered an AACE International Class 3 estimate based on the classification detailed in the table below.

	Primary Characteristic		Secondary Character	istic
ESTIMATE CLASS	MATURITY LEVEL OF PROJECT DEFINITION DELIVERABLES Expressed as % of complete definition	END USAGE Typical purpose of estimate	METHODOLOGY Typical estimating method	EXPECTED ACCURACY RANGE Typical variation in low and high ranges at an 80% confidence interval
Class 5	0% to 2%	Concept screening	Capacity factored, parametric models, judgment, or analogy	L: -20% to -50% H: +30% to +100%
Class 4	1% to 15%	Study or feasibility	Equipment factored or parametric models	L: -15% to -30% H: +20% to +50%
Class 3	10% to 40%	Budget authorization or control	Semi-detailed unit costs with assembly level line items	L: -10% to -20% H: +10% to +30%
Class 2	30% to 75%	Control or bid/tender	Detailed unit cost with forced detailed take-off	L: -5% to -15% H: +5% to +20%
Class 1	65% to 100%	Check estimate or bid/tender	Detailed unit cost with detailed take-off	L: -3% to -10% H: +3% to +15%



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COST SUMMARY

Below shows the cost estimate summary as seen in Attachment A of this report.

Item No.	Item Description	Unit of	Quantity	Unit Price	Total Price	% Maurepas	% WSLP Proj	MAUREPAS PRICE	WSLP PRICE
1	Mobilization and Demobilization	Measure LS	1	\$14,157,816	\$14,157,816	Proj Cost 60%	40%	\$8,494,689.89	\$5,663,126.59
2	Temporary Retaining Structures	LS	1	\$11,990,371	\$11,990,371	85%	15%	\$10,233,031.04	\$1,757,340.00
3	Traffic Control and Coordination	LS	1	\$2,678,003	\$2,678,003	27%	73%	\$713,051.73	\$1,964,951.20
4	Silt Fences	LF	72,839	\$3.50	\$254,937	68%	32%	\$174,544.13	\$80,392.38
5	Turbidity Curtain	LF	1,000	\$10.00	\$10,000	100%	0%	\$10,000.00	\$0.00
6	Truck Wash Down Racks	LS	8	\$127,831	\$1,022,652	50%	50%	\$511,326	\$511,326
7	Demolition	LS	1	\$557,601	\$557,601	45%	55%	\$251,929.87	\$305,671.48
8	Concrete for Minor Structures	LS	1	\$177,100	\$177,100	100%	0%	\$177,100.00	\$0.00
9	Structural Concrete	СУ	13,772	\$650.00	\$8,951,800	79%	21%	\$7,098,780.00	\$1,853,020.00
10	Stabilization Slab Concrete	CY	748	\$450.00	\$336,600	76%	24%	\$254,160.00	\$82,440.00
11	Structural Steel	LS	1	\$327,000	\$327,000	0%	100%	\$0.00	\$327,000.00
12	Miscellaneous Metalwork	LS	1	\$60,560	\$60,560	66%	34%	\$40,130.00	\$20,430.00
13	Metal Railings	LS	1	\$27,000	\$27,000	100%	0%	\$27,000.00	\$0.00
14	Steel Doors and Frames	LS	1	\$8,000	\$8,000	100%	0%	\$8,000.00	\$0.00
15	Paints and Coatings	SF	1,981	\$3.55	\$7,033	0%	100%	\$0.00	\$7,032.55
16	Painting: Coal Tar Epoxy System	SF	177,165	\$5.00	\$885,825	23%	77%	\$200,435.00	\$685,390.00
17	Project Signage at Road Crossings	EA	4	\$500.00	\$2,000	50%	50%	\$1,000.00	\$1,000.00
18	Foundation Instrumentation	LS	1	\$158,100	\$158,100	100%	0%	\$158,100.00	\$0.00
19	Electrical Work at Head Works	LS	1	\$108,313	\$108,313	100%	0%	\$108,313.00	\$0.00
20	Separator Geotextile Separator	SY	70,166	\$4.00	\$280,665	18%	82%	\$51,216.84	\$229,448.00
21	Geogrid Soil Reinforcement	SY	77,316	\$1.70	\$131,437	100%	0%	\$131,064.79	\$372.19
22	Clearing and Grubbing	LS	1	\$7,754,250	\$7,754,250	73%	27%	\$5,687,475.00	\$2,066,775.00
23	Excavation	CY	1,284,577	\$14.00	\$17,984,083	94%	6%	\$16,874,477.76	\$1,109,605.00
24	Dewatering	LS	1	\$4,100,000	\$4,100,000	100%	0%	\$4,100,000.00	\$0.00
25	Embankment, Compacted Fill	CY	756,060	\$30.00	\$22,681,800	57%	43%	\$12,850,800.00	\$9,831,000.00
26	Fiber Mulch	CY	11	\$194.00	\$2,173	10%	90%	\$217.28	\$1,955.52
27	Riprap (Class 30 lb)	CY	2,051	\$110.00	\$225,647	100%	0%	\$225,646.67	\$0.00
28	Riprap (Class 55 lb)	CY	4,148	\$150.00	\$622,200	100%	0%	\$622,200.00	\$0.00
29	Riprap (Class 130 lb)	CY	247	\$168.00	\$41,469	100%	0%	\$41,469.12	\$0.00
30	Riprap (Class 250 lb)	CY	8,333	\$200.00	\$1,666,667	100%	0%	\$1,666,666.67	\$0.00
31	Grouted Riprap	SY	336	\$207.00	\$69,552	100%	0%	\$69,552.00	\$0.00
32	Steel Sheet Piling, Type PZ-22	SF	109,900	\$45.00	\$4,945,500	9%	91%	\$442,890.00	\$4,502,610.00
33	Prestressed Concrete Piles, Type 24"x24"	LF	40,425	\$160.00	\$6,468,000	90%	10%	\$5,821,200.00	\$646,800.00
34	Pile Load Tests	LS	1	\$265,654	\$265,654	56%	44%	\$148,192.00	\$117,462.00
35	Steel H-Piles, HP 14 x 73	LF	6,288	\$89.00	\$559,632	0%	100%	\$0.00	\$559,632.00
36	Steel H-Piles, HP 14 x 89	LF	28,460	\$102.00	\$2,902,920	100%	0%	\$2,902,920.00	\$0.00



COST SUMMARY CONTINUED

Item No. Item Description 37 Steel H-Piles, HP 16 x 101 38 Timber Piles, 12" Diameter		Unit of	Quantity						
		Measure	Quantity	Unit Price	Total Price	Proj Cost	% WSLP Proj Cost	MAUREPAS PRICE	WSLP PRICE
		LF	6,371	\$130.00	\$828,230	100%	0%	\$828,230.00	\$0.00
		LF	1710	\$48.00	\$82,080	50%	50%	\$41,040.00	\$41,040.00
39 Asphaltic Pavement		LS	1	\$2,434,996	\$2,434,996	28%	72%	\$670,477.00	\$1,764,519.00
40 Nonplastic Embankment Sand		СУ	1,785	\$62.25	\$111,116	20%	80%	\$22,223.25	\$88,893.00
41 Crushed Stone Surfacing		TONS	26,927	\$37.00	\$996,313	100%	0%	\$996,312.77	\$0.00
42 Temporary Access Roads (6" Crush	ned Stone with Geogrid)	SY	154,099	\$37.00	\$5,701,658	83%	17%	\$4,723,008.00	\$978,650.00
43 Pavement Markings	<u>, </u>	LS	1	\$39,918.45	\$39,918	44%	56%	\$17,515.41	\$22,403.04
44 Miscellaneous Roadwork Items		LS	1	\$16,670	\$16,670	20%	80%	\$3,334.04	\$13,336.16
45 Precast Concrete Platform		LS	1	\$68,610	\$68,610	100%	0%	\$68,609.64	\$0.00
46 Chain Link Fence and Gate		LF	1,016	\$62.46	\$63,464	100%	0%	\$63,463.60	\$0.00
47 Turf Establishment and Maintena	nce	AC	157	\$5,000.00	\$787,350	74%	26%	\$580,800.00	\$206,550.00
48 Modifications to Existing Utilities		LS	1	\$13,046,200	\$13,046,200	50%	50%	\$6,523,100	\$6,523,100
49 Storm Drain Pipes		LF	428	\$101.41	\$43,404	100%	0%	\$43,404.00	\$0.00
50 Precast Concrete Box Culverts for	New Drainage Ditches	LS	1	\$1,566,438	\$1,566,438	36%	64%	\$560,141.40	\$1,006,296.60
51 Elastomeric Check Valves, 42" Dia	. w/44"x55" Elliptical Cuff	EA	16	\$42,870.00	\$685,920	100%	0%	\$685,920.00	\$0.00
52 Elastomeric Check Valves, 36" Dia	meter	EA	8	\$33,442.00	\$267,536	100%	0%	\$267,536.00	\$0.00
53 Drainage Ditch Headwalls		EA	12	\$22,300.00	\$267,600	25%	75%	\$66,900.00	\$200,700.00
54 Railroad Falsework at KCS Railroad	1	LS	1	\$250,000	\$250,000	50%	50%	\$125,000.00	\$125,000.00
55 Railroad Flagman at KCS Railroad		LS	1	\$216,000	\$216,000	50%	50%	\$108,000.00	\$108,000.00
56 Railroad Flagman at CN Railroad		LS	1	\$216,000	\$216,000	50%	50%	\$108,000.00	\$108,000.00
57 Railroad Insurance for KCS Railroa	d	LS	1	\$84,186	\$84,186	50%	50%	\$42,092.91	\$42,092.91
58 Railroad Insurance for CN Railroad		LS	1	\$241,786	\$241,786	50%	50%	\$120,893.10	\$120,893.10
59 Demolition of Existing KCS Railroa	d Tracks	LS	1	\$182,627	\$182,627	80%	20%	\$146,101.79	\$36,525.45
60 Demolition of Existing CN Railroa	d Tracks	LS	1	\$276,040	\$276,040	50%	50%	\$138,020.00	\$138,020.00
61 New KCS Railroad Tracks		TFT	1,773	\$1,338.67	\$2,373,566	90%	10%	\$2,139,710	\$233,856
62 New CN Railroad Tracks		TFT	1,375	\$4,024.02	\$5,533,028	75%	25%	\$4,123,731.88	\$1,409,296.10
63 Shoofly at CN Railroad		LS	1	\$2,250,472	\$2,250,472	50%	50%	\$1,125,236.10	\$1,125,236.10
64 Sluice Gates and Hydraulic Operat	ed Valve Actuators	EA	3	\$804,166.67	\$2,412,500	100%	0%	\$2,412,500.00	\$0.00
65 Sluice Gates - Dewatering, Manua	l Operation	EA	6	\$150,000.00	\$900,000	100%	0%	\$900,000.00	\$0.00
66 Lateral Release Valve Assemblies		EA	8	\$89,749.53	\$717,996	100%	0%	\$717,996.26	\$0.00
67 Stone Bedding		CY	506	\$43.50	\$21,992	100%	0%	\$21,991.67	\$0.00
68 Concrete Slope Pavement (6" thic	k)	SY	3,666	\$115.00	\$421,627	15%	85%	\$62,596.80	\$359,030.00
69 Diesel-Generator Set Standby		EA	1	\$30,288.00	\$30,288	100%	0%	\$30,288.00	\$0.00
70 Flow Measuring Equipment Syste	m	LS	1	\$50,000	\$50,000	100%	0%	\$50,000.00	\$0.00
71 Boat Launch and Dock		LS	1	\$128,011	\$128,011	50%	50%	\$64,005.66	\$64,005.66
							% WSLP Proj	MAUREPAS	WSLP PRICE
						Proj Cost	Cost	PRICE	
		Subtotal			\$155,735,981	70%	30%	\$108,695,758	\$47,040,223
		Project Esc	calation 2.9%/yr =	5.90%	\$9,188,423	70%	30%	\$6,413,050	\$2,775,373
		Subtotal			\$164,924,404	70%	30%	\$115,108,808	\$49,815,596
		Estimate L	Incertainty Contingency =	35%	\$57,723,541	70%	30%	\$40,288,083	\$17,435,459
		Total Cons	truction Cost =		\$222,647,946	70%	30%	\$155,396,891	\$67,251,055
		Changes 8		5%	\$11,132,397	70%	30%	\$7,769,845	\$3,362,553
			nspect, Testing, etc. =	4%	\$8,905,918	70%	30%	\$6,215,876	\$2,690,042
			During Const.=	2%	\$4,452,959	70%	30%	\$3,107,938	\$1,345,021
		2		Grand Total =	\$247,139,220	70%	30%	\$172,490,549	\$74,648,671



DESIGN BASIS

The construction cost estimate was produced using 15% design plans dated December 2020.

PLANNING BASIS

The cost estimate planning is based on a standard Design, Bid, and Build procurement, with three or more bidders. It has been assumed that the contractor will have labor resources available and no labor shortage cost was accounted for.

COST BASIS

Material and Labor pricing

 Labor and material rates are localized to New Orleans, LA using the RS Means City Cost Multiplier and LA DOT Bid Result historic data.

Indirect costs

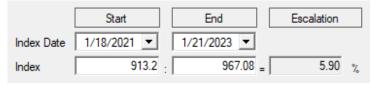
- Contractor overhead is estimated to be 10% of the direct costs based on previous similar projects.
- Bonds are estimated to be 1% of the direct costs based on previous similar projects.
- General Liability Insurance is estimated to be 1% of the direct costs based on previous similar projects.

Taxes and Duties

- Taxes on material is estimated at 9.7% of the material cost which is based off the tax rate established in Garyville, LA.
- Taxes on equipment is estimated at 9.7% of the equipment cost which is based off the tax rate established in Garyville, LA.

Escalation

- Escalation has been applied by referencing the USACE EM 110-2-1304 Civil Works Construction Cost Index System for projects classified under Item 15 Floodway Control & Diversion Structure.
- Below shows the index numbers used and the overall escalation for the project (2.90% per year)



Contractor Markup/Profit is estimated at 10% of direct costs plus markup.

Subcontractor Overhead and Profit is estimated at 20% of the subcontracting cost.



ASSUMPTIONS

- Cost Allowances have been used for certain scopes of work due to current design stage.
- Construction will take 33 months.
- Construction start date August 30, 2021
- Construction midpoint Date January 21, 2023
- Construction completion date June 14, 2024

EXCLUSIONS

- This cost estimate does not include any additional markups, costs or escalations due to the market uncertainty given the current COVID-19 crisis.
- Does not include additional cost or markups for loss time or added work from hurricanes or other weather events.
- Does not included escalation past the current mid-point of construction.

CONTINGENCIES

As detailed in the estimate classification section of this report, the cost estimate has an estimate
uncertainty contingency of 35%. This contingency is based on the estimate AACEI classification of
3 and the details in the 15% drawings.

RISKS

- Quantity Adjustment Risk- due to project being at an early design stage there is a likelihood that quantities will change. This could result in increased construction cost and extended contract durations beyond what is allocated in the contingency line item.
- Cost increase or decrease due to market fluctuations because of current COVID-19 crisis.
- Cost increase due to major weather events causing project rework or loss time.
- Encountering unknow utilities throughout the project causing project lost time.
- Relocation of known existing utilities causing loss time due to multiple company coordination.



ESTIMATE QUALITY ASSURANCE

The estimate has been reviewed by both the estimate team and the design team and the comments have been incorporated into this narrative and the estimate itself.

ESTIMATING TEAM

Eric Jones – Lead Estimator – Developed Unit Cost and Cost Narrative.

Russ Russo – Senior Estimator – Developed Unit Cost.

Felipe Poletto – Estimating Manager – Quality Control of Estimate.



ATTACHMENTS





ATTACHMENT – A CONSTRUCTION COST ESTIMATE









lanes Ali	Itam Description	Unit of	Over tite			% Maurepas	% WSLP Proj		
item No.	Item Description	Measure	Quantity	Unit Price	Total Price	Proj Cost	Cost	MAUREPAS PRICE	WSLP PRICE
1	Mobilization and Demobilization	LS	1	\$14,157,816	\$14,157,816	60%	40%	\$8,494,689.89	\$5,663,126.59
2	Temporary Retaining Structures	LS	1	\$11,990,371	\$11,990,371	85%	15%	\$10,233,031.04	\$1,757,340.00
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6	Truck Wash Down Racks	LS	8	\$127,831	\$1,022,652	50%	50%	\$511,326	\$511,326
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8	Concrete for Minor Structures	LS	1	\$177,100	\$177,100	100%	0%	\$177,100.00	\$0.00
9	Structural Concrete	СҮ	13,772	\$650.00	\$8,951,800	79%	21%	\$7,098,780.00	\$1,853,020.00
10	Stabilization Slab Concrete	СҮ	748	\$450.00	\$336,600	76%	24%	\$254,160.00	\$82,440.00
11	Structural Steel	LS	1	\$327,000	\$327,000	0%	100%	\$0.00	\$327,000.00
12	Miscellaneous Metalwork	LS	1	\$60,560	\$60,560	66%	34%	\$40,130.00	\$20,430.00
13	Metal Railings	LS	1	\$27,000	\$27,000	100%	0%	\$27,000.00	\$0.00
14	Steel Doors and Frames	LS	1	\$8,000	\$8,000	100%	0%	\$8,000.00	\$0.00
15	Paints and Coatings	SF	1,981	\$3.55	\$7,033	0%	100%	\$0.00	\$7,032.55
16	Painting: Coal Tar Epoxy System	SF	177,165	\$5.00	\$885,825	23%	77%	\$200,435.00	\$685,390.00
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18	Foundation Instrumentation	LS	1	\$158,100	\$158,100	100%	0%	\$158,100.00	\$0.00
19	Electrical Work at Head Works	LS	1	\$108,313	\$108,313	100%	0%	\$108,313.00	\$0.00
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21	Geogrid Soil Reinforcement	SY	77,316	\$1.70	\$131,437	100%	0%	\$131,064.79	\$372.19
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23	Excavation	СҮ	1,284,577	\$14.00	\$17,984,083	94%	6%	\$16,874,477.76	\$1,109,605.00
24	Dewatering	LS	1	\$4,100,000	\$4,100,000	100%	0%	\$4,100,000.00	\$0.00
25	Embankment, Compacted Fill	СҮ	756,060	\$30.00	\$22,681,800	57%	43%	\$12,850,800.00	\$9,831,000.00
26	Fiber Mulch	СҮ	11	\$194.00	\$2,173	10%	90%	\$217.28	\$1,955.52
27	Riprap (Class 30 lb)	СҮ	2,051	\$110.00	\$225,647	100%	0%	\$225,646.67	\$0.00
28	Riprap (Class 55 lb)	СҮ	4,148	\$150.00	\$622,200	100%	0%	\$622,200.00	\$0.00
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30	Riprap (Class 250 lb)	СҮ	8,333	\$200.00	\$1,666,667	100%	0%	\$1,666,666.67	\$0.00
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33	Prestressed Concrete Piles, Type 24"x24"	LF	40,425	\$160.00	\$6,468,000	90%	10%	\$5,821,200.00	\$646,800.00
34	Pile Load Tests	LS	1	\$265,654	\$265,654	56%	44%	\$148,192.00	\$117,462.00
35	Steel H-Piles, HP 14 x 73	LF	6,288	\$89.00	\$559,632	0%	100%	\$0.00	\$559,632.00
36	Steel H-Piles, HP 14 x 89	LF	28,460	\$102.00	\$2,902,920	100%	0%	\$2,902,920.00	\$0.00
37	Steel H-Piles, HP 16 x 101	LF	6,371	\$130.00	\$828,230	100%	0%	\$828,230.00	\$0.00
38	Timber Piles, 12" Diameter	LF	1710	\$48.00	\$82,080	50%	50%	\$41,040.00	\$41,040.00
39	Asphaltic Pavement	LS	1	\$2,434,996	\$2,434,996	28%	72%	\$670,477.00	\$1,764,519.00
40	Nonplastic Embankment Sand	CY	1,785	\$62.25	\$111,116	20%	80%	\$22,223.25	\$88,893.00
41	Crushed Stone Surfacing	TONS	26,927	\$37.00	\$996,313	100%	0%	\$996,312.77	\$0.00
42	Temporary Access Roads (6" Crushed Stone with Geogrid)	SY	154,099	\$37.00	\$5,701,658	83%	17%	\$4,723,008.00	\$978,650.00
43	Pavement Markings	LS	1	\$39,918.45	\$39,918	44%	56%	\$17,515.41	\$22,403.04

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It am No	Harry Daniel and Control of the Cont	Unit of	O			% Maurepas	% WSLP Proj		
item No.	Item Description	Measure	Quantity	Unit Price	Total Price	Proj Cost	Cost	MAUREPAS PRICE	WSLP PRICE
44	Miscellaneous Roadwork Items	LS	1	\$16,670	\$16,670	20%	80%	\$3,334.04	\$13,336.16
45	Precast Concrete Platform	LS	1	\$68,610	\$68,610	100%	0%	\$68,609.64	\$0.00
46	Chain Link Fence and Gate	LF	1,016	\$62.46	\$63,464	100%	0%	\$63,463.60	\$0.00
47	Turf Establishment and Maintenance	AC	157	\$5,000.00	\$787,350	74%	26%	\$580,800.00	\$206,550.00
48	Modifications to Existing Utilities	LS	1	\$13,046,200	\$13,046,200	50%	50%	\$6,523,100	\$6,523,100
49	Storm Drain Pipes	LF	428	\$101.41	\$43,404	100%	0%	\$43,404.00	\$0.00
50	Precast Concrete Box Culverts for New Drainage Ditches	LS	1	\$1,566,438	\$1,566,438	36%	64%	\$560,141.40	\$1,006,296.60
51	Elastomeric Check Valves, 42" Dia. w/44"x55" Elliptical Cuff	EA	16	\$42,870.00	\$685,920	100%	0%	\$685,920.00	\$0.00
52	Elastomeric Check Valves, 36" Diameter	EA	8	\$33,442.00	\$267,536	100%	0%	\$267,536.00	\$0.00
53	Drainage Ditch Headwalls	EA	12	\$22,300.00	\$267,600	25%	75%	\$66,900.00	\$200,700.00
54	Railroad Falsework at KCS Railroad	LS	1	\$250,000	\$250,000	50%	50%	\$125,000.00	\$125,000.00
55	Railroad Flagman at KCS Railroad	LS	1	\$216,000	\$216,000	50%	50%	\$108,000.00	\$108,000.00
56	Railroad Flagman at CN Railroad	LS	1	\$216,000	\$216,000	50%	50%	\$108,000.00	\$108,000.00
57	Railroad Insurance for KCS Railroad	LS	1	\$84,186	\$84,186	50%	50%	\$42,092.91	\$42,092.91
58	Railroad Insurance for CN Railroad	LS	1	\$241,786	\$241,786	50%	50%	\$120,893.10	\$120,893.10
59	Demolition of Existing KCS Railroad Tracks	LS	1	\$182,627	\$182,627	80%	20%	\$146,101.79	\$36,525.45
60	Demolition of Existing CN Railroad Tracks	LS	1	\$276,040	\$276,040	50%	50%	\$138,020.00	\$138,020.00
61	New KCS Railroad Tracks	TFT	1,773	\$1,338.67	\$2,373,566	90%	10%	\$2,139,710	\$233,856
62	New CN Railroad Tracks	TFT	1,375	\$4,024.02	\$5,533,028	75%	25%	\$4,123,731.88	\$1,409,296.10
63	Shoofly at CN Railroad	LS	1	\$2,250,472	\$2,250,472	50%	50%	\$1,125,236.10	\$1,125,236.10
64	Sluice Gates and Hydraulic Operated Valve Actuators	EA	3	\$804,166.67	\$2,412,500	100%	0%	\$2,412,500.00	\$0.00
65	Sluice Gates - Dewatering, Manual Operation	EA	6	\$150,000.00	\$900,000	100%	0%	\$900,000.00	\$0.00
66	Lateral Release Valve Assemblies	EA	8	\$89,749.53	\$717,996	100%	0%	\$717,996.26	\$0.00
67	Stone Bedding	CY	506	\$43.50	\$21,992	100%	0%	\$21,991.67	\$0.00
68	Concrete Slope Pavement (6" thick)	SY	3,666	\$115.00	\$421,627	15%	85%	\$62,596.80	\$359,030.00
69	Diesel-Generator Set Standby	EA	1	\$30,288.00	\$30,288	100%	0%	\$30,288.00	\$0.00
70	Flow Measuring Equipment System	LS	1	\$50,000	\$50,000	100%	0%	\$50,000.00	\$0.00
71	Boat Launch and Dock	LS	1	\$128,011	\$128,011	50%	50%	\$64,005.66	\$64,005.66
						% Maurepas	% WSLP Proj	MALIDEDAC DDICE	WCI D DDICE
						Proj Cost	Cost	MAUREPAS PRICE	WSLP PRICE
		Subtotal			\$155,735,981	70%	30%	\$108,695,758	\$47,040,223
		Project Esca	alation 2.9%/yr =	5.90%	\$9,188,423	70%	30%	\$6,413,050	\$2,775,373
		Subtotal	, , .		\$164,924,404	70%	30%	\$115,108,808	\$49,815,596
			ncertainty Contingency =	35%	\$57,723,541	70%	30%	\$40,288,083	\$17,435,459
			ruction Cost =	3070	\$222,647,946	70%	30%	\$155,396,891	\$67,251,055
				FO			+		
		Changes &		5%	\$11,132,397	70%	30%	\$7,769,845	\$3,362,553
			spect, Testing, etc. =	4%	\$8,905,918	70%	30%	\$6,215,876	\$2,690,042
		Engr Svcs D	uring Const.=	2%	\$4,452,959	70%	30%	\$3,107,938	\$1,345,021
				Grand Total =	<u>\$247,139,220</u>	<u>70%</u>	<u>30%</u>	<u>\$172,490,549</u>	<u>\$74,648,671</u>

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		Unit of				% Maurepas	% WSLP Proj		
Item No.	Item Description	Measure	Quantity	Unit Price	Total Price	Proj Cost	Cost	MAUREPAS PRICE	WSLP PRICE
1	Mobilization and Demobilization	LS	1	\$14,157,816	\$14,157,816	60%	40%	\$8,494,689.89	\$5,663,126.59
1.01	Mobilization		\$141,578,164.87	6%	\$8,494,689.89	60%	40%	\$5,096,813.94	\$3,397,875.96
1.02	Demobilization		\$141,578,164.87	4%	\$5,663,126.59	60%	40%	\$3,397,875.96	\$2,265,250.64
			, ,, -		, , , , , , , , , , , , , , , , , , , ,		I	12,22 ,2 2 2	
2	Temporary Retaining Structures	LS	1	\$11,990,371	\$11,990,371	85%	15%	\$10,233,031.04	\$1,757,340.00
2.01	TRS at Culverts C-4 & C-5 @ Headworks (HW)								
	Sheet pile (PZ 27)	SF	10,575	\$30.00	\$317,250.00	100%	0%	\$317,250.00	\$0.00
	W14x30 Whaler	LF	219	\$163.00	\$35,697.00	100%	0%	\$35,697.00	\$0.00
	W21x111 Whaler	LF	219	\$163.00	\$35,697.00	100%	0%	\$35,697.00	\$0.00
	W14x45 Strut	LF	422	\$163.00	\$68,786.00	100%	0%	\$68,786.00	\$0.00
	W14x90 Strut	LF	422	\$163.00	\$68,786.00	100%	0%	\$68,786.00	\$0.00
2.02	TRS at Culverts U-1 & U-2 @ HW								
	Sheet pile (PZ 27)	SF	13,677	\$30.00	\$410,310.00	100%	0%	\$410,310.00	\$0.00
	W14x30 Whaler	LF	279	\$163.00	\$45,477.00	100%	0%	\$45,477.00	\$0.00
	W21x111 Whaler	LF	279	\$163.00	\$45,477.00	100%	0%	\$45,477.00	\$0.00
	W14x45 Strut	LF	399	\$163.00	\$65,037.00	100%	0%	\$65,037.00	\$0.00
	W14x90 Strut	LF	399	\$163.00	\$65,037.00	100%	0%	\$65,037.00	\$0.00
2.03	PZ-22 Cofferdam Seepage cutoff wall (Phase I @ HW) Sta. 2+75.66 to Sta. 10+65.98	SF	45,048	\$121.00	\$5,450,837.04	100%	0%	\$5,450,837.04	\$0.00
2.04	MSE Wall/Reinforced Soil Slope @ HW								
	Fill for MSE Retaining Wall	CY	1,413	\$30.00	\$42,382.22	100%	0%	\$42,382.22	\$0.00
	Geotextile fabric	SY	1,324	\$4.00	\$5,297.78	100%	0%	\$5,297.78	\$0.00
	Airline Hwy const. combi-wall, assume PPZ-72/PZ-27 section		•	,	. ,				
2.05	(Top EL 8, Tip EL -65, Length = 62.5' culvert + 3' gap*2 + 15' excavation * 2H:V * 2 = 129')	SF	9,417	\$180.00	\$1,695,060.00	50%	50%	\$847,530.00	\$847,530.00
2.06	CN Railroad construction combi-wall, assume PPZ-72/PZ-27 section	SF	20,218	\$180.00	\$3,639,240.00	75%	25%	\$2,729,430.00	\$909,810.00
			·	Sub-Total =	\$11,990,371.04				
3	Traffic Control and Coordination	LS	1	\$2,678,003	\$2,678,003	27%	73%	\$713,051.73	\$1,964,951.20
	River Road Temporary Detour (Phase I & II)								
3.01	End Road Work (G20-2, 48"X24")	SF	16	\$34.00	\$544.00	75%	25%	\$408.00	\$136.00
3.02	Road Work Ahead (W20-1, 48"X48")	SF	32	\$34.00	\$1,088.00	75%	25%	\$816.00	\$272.00
3.03	Trucks Entering Hwy (48"x48")	SF	64	\$34.00	\$2,176.00	75%	25%	\$1,632.00	\$544.00
3.04	Flagmen (assume 2 men @ 8hrs/day, 60 days)	HR	960	\$12.00	\$11,520.00	75%	25%	\$8,640.00	\$2,880.00
	Signs (Phase III & IV)								
3.05	End Road Work (G20-2, 48"X24")	SF	16	\$34.00	\$544.00	75%	25%	\$408.00	\$136.00
3.06	Road Work Ahead (W20-1, 48"X48")	SF	80	\$34.00	\$2,720.00	75%	25%	\$2,040.00	\$680.00
3.07	Trucks Entering Hwy (48"x48")	SF	64	\$34.00	\$2,176.00	75%	25%	\$1,632.00	\$544.00
3.08	Speed Limit 35 MPH (W3-5, 48"X48")	SF	32	\$34.00	\$1,088.00	75%	25%	\$816.00	\$272.00
3.09	Speed Limit 35 MPH (R2-1, 24"X30")	SF	10	\$34.00	\$340.00	75%	25%	\$255.00	\$85.00
3.1	Detour Sign (W1-4R, 48"X48")	SF	32	\$34.00	\$1,088.00	75%	25%	\$816.00	\$272.00
3.11	Speed Limit 35 MPH (R2-1, 24"X30")	SF	64	\$34.00	\$2,176.00	75%	25%	\$1,632.00	\$544.00
3.12	Detour Sign (W1-4L, 48"X48")	SF	32	\$34.00	\$1,088.00	75%	25%	\$816.00	\$272.00
3.13	Road Closed Barricade (R11-2, 48"X30")	SF	20	\$34.00	\$680.00	75%	25%	\$510.00	\$170.00

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		Unit of				% Maurepas	% WSLP Proj		
Item No.	Item Description	Measure	Quantity	Unit Price	Total Price	Proj Cost	Cost	MAUREPAS PRICE	WSLP PRICE
3.14	Arrow Sign (W1-6R, 48"X18")	SF	12	\$34.00	\$408.00	75%	25%	\$306.00	\$102.00
3.15	Flagmen (assume 2 men @ 8hrs/day, 60 days)	HR	960	\$12.00	\$11,520.00	75%	25%	\$8,640.00	\$2,880.00
	Signs (Phase V, VI& VIII)				, ,			. ,	. ,
3.16	End Road Work (G20-2, 48"X24") =	SF	40	\$34.00	\$1,360.00	75%	25%	\$1,020.00	\$340.00
3.17	Road Work Ahead (W20-1, 48"X48")=	SF	32	\$34.00	\$1,088.00	75%	25%	\$816.00	\$272.00
3.18	Trucks Entering Hwy (48"x48") =	SF	64	\$34.00	\$2,176.00	75%	25%	\$1,632.00	\$544.00
3.19	Flagmen (assume 2 men @ 8hrs/day, 60 days)	HR	960	\$12.00	\$11,520.00	75%	25%	\$8,640.00	\$2,880.00
	Airline Hwy (US 61), both Phases of Construction			·					
3.20	Temporary crash cushion	EA	2	\$9,000.00	\$18,000.00	50%	50%	\$9,000.00	\$9,000.00
3.21	Temporary concrete median barrier	LF	1,637	\$81.00	\$132,597.00	25%	75%	\$33,149.25	\$99,447.75
3.22	Temporary Detour Roads	SY	19,600	\$122.00	\$2,391,200.00	25%	75%	\$597,800.00	\$1,793,400.00
3.23	End Road Work (G20-2, 48"X24")	SF	32	\$34.00	\$1,088.00	50%	50%	\$544.00	\$544.00
3.24	Road Work Ahead (W20-1, 48"X48")	SF	4	\$34.00	\$136.00	50%	50%	\$68.00	\$68.00
3.25	Speed Limit 55 MPH (W3-5, 48"X48")	SF	64	\$34.00	\$2,176.00	50%	50%	\$1,088.00	\$1,088.00
3.26	Speed Limit 55 MPH (R2-1, 36"X48")	SF	48	\$34.00	\$1,632.00	50%	50%	\$816.00	\$816.00
3.27	Lane shift ahead (W20-1, 48"x48")	SF	64	\$34.00	\$2,176.00	50%	50%	\$1,088.00	\$1,088.00
3.28	Lane shift arrow (W1-4bR, 48"x48")	SF	48	\$34.00	\$1,632.00	50%	50%	\$816.00	\$816.00
3.29	Type III Road Closed Barricade (R11-2, 48"X30")	EA	4	\$500.00	\$2,000.00	50%	50%	\$1,000.00	\$1,000.00
3.30	Lane shift Arrow Sign (W1-4bL, 48"X18")	SF	6	\$34.00	\$204.00	50%	50%	\$102.00	\$102.00
3.31	Temporary Pavement Markings (Broken Line 4")	MILE	5.21	\$360.00	\$1,875.60	25%	75%	\$468.90	\$1,406.70
3.32	Temporary Pavement Markings (Solid Line 4")	FT	52,430	\$0.34	\$17,826.34	25%	75%	\$4,456.58	\$13,369.75
3.33	Removal of Existing Markings	MILE	2.60	\$6,000.00	\$15,600.00	25%	75%	\$3,900.00	\$11,700.00
3.34	Flagmen (assume 4 men @ 8hrs/day, 90 days)	HR	2880	\$12.00	\$34,560.00	50%	50%	\$17,280.00	\$17,280.00
				Sub-total =	\$2,678,002.94				
4	Silt Fences	LF	72,839	\$3.50	\$254,937	68%	32%	\$174,544.13	\$80,392.38
4.01	Airline Hwy Silt Fence	LF	4,519	\$3.50	\$15,816.50	25%	75%	\$3,954.13	\$11,862.38
4.02	Silt Fence at other locations (2 sides of ROW)	LF	58,320	\$3.50	\$204,120.00	75%	25%	\$153,090.00	\$51,030.00
4.03	Miscellaneous location (add 10, 000 LF)	LF	10,000	\$3.50	\$35,000.00	50%	50%	\$17,500.00	\$17,500.00
		Sub-Total =	<u>72,839</u>						
5	Turbidity Curtain	LF	1,000	\$10.00	\$10,000	100%	0%	\$10,000.00	\$0.00
5.01	Assume qty. for Turbidity Curtain	LF	1,000	\$10.00	\$10,000.00	100%	0%	\$10,000.00	\$0.00
6	Truck Wash Down Racks	LS	8	\$127,831	\$1,022,652	50%	50%	\$511,326	\$511,326
6.01	3" Asphalt Pavement (Grade 1)	TONS	106.9	\$140.00	\$14,962.50				
6.02	Prime Coat (Type MC-30)	SY	633	\$0.30	\$190.00				
6.03	12" Crushed Stone Surfacing	SY	928	\$37.00	\$34,321.57				
6.04	Geotextile Fabric	SY	967	\$4.00	\$3,866.67				
6.05	Floor Grating (60'L x 20'W)	SF	1,200	\$1.00	\$1,200.00				
6.05	Maintenance (power washing equipment, water supplied by tankers, labor, etc)	LS	1	\$150,000.00	\$150,000.00				
				Sub-total =	\$127,831.47	50%	50%	\$63,915.74	\$63,915.74

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	No. of Proceedings	Unit of	0 111			% Maurepas	% WSLP Proj		
Item No.	Item Description	Measure	Quantity	Unit Price	Total Price	Proj Cost	Cost	MAUREPAS PRICE	WSLP PRICE
7	Demolition	LS	1	\$557,601	\$557,601	45%	55%	\$251,929.87	\$305,671.48
7.01	Remove Slope Paving at MS Levee (Phase I)	SY	3,375	\$35.00	\$118,125.00	100%	0%	\$118,125.00	\$0.00
7.02	Remove Slope Paving at MS Levee (Phase III)	SY	1,500	\$35.00	\$52,500.00	100%	0%	\$52,500.00	\$0.00
7.03	Remove existing Asphalt River Road (Phase III)	SY	576	\$7.00	\$4,032.00	100%	0%	\$4,032.00	\$0.00
7.04	Airline Highway Road Raise	3.	3,0	ψ7.00	ψ 1,002.00	10070	0,0	ψ 1)032100	φο.σσ
7.01	Removal of asphalt drives	SY	162	\$7.00	\$1,137.36	20%	80%	\$227.47	\$909.88
	Removal of asphalt pavement	SY	25,104	\$7.00	\$175,729.84	20%	80%	\$35,145.97	\$140,583.87
	Removal of base (recycled PCC or stone)	SY	25,603	\$6.00	\$153,619.15	20%	80%	\$30,723.83	\$122,895.32
	Removal of signs and U-channel post	EA	23,003	\$89.00	\$178.00	20%	80%	\$35.60	\$142.40
	Saw Cutting Asphalt concrete pavement	FT	152	\$15.00	\$2,280.00	50%	50%	\$1,140.00	\$1,140.00
7.05	Miscellaneous Demolition	LS	1	\$50,000.00	\$50,000.00	20%	80%	\$10,000.00	\$40,000.00
7.03	Wiscendificous Demontion			Sub-total =	\$557,601.35	2070	3070	\$10,000.00	учо,000.00
				Jub-total –	3337,001.33				
8	Concrete for Minor Structures	LS	1	\$177,100	\$177,100	100%	0%	\$177,100.00	\$0.00
8.01	Lateral Release Valves north end of Conveyance Channel	CY	500	\$350.00	\$175,000.00	100%	0%	\$175,000.00	\$0.00
8.02	Dewatering Needle Storage Platform @ Headworks	CY	6	\$350.00	\$2,100.00	100%	0%	\$2,100.00	\$0.00
				700000	7-7-00:00			, ,	
9	Structural Concrete	CY	13,772	\$650.00	\$8,951,800	79%	21%	\$7,098,780.00	\$1,853,020.00
9.01	WSLP River Road Crossing	CY	158	\$650.00	\$102,700.00	0%	100%	\$0.00	\$102,700.00
9.02	WSLP I-wall River Rd to CN RR	CY	1,129	\$650.00	\$733,850.00	0%	100%	\$0.00	\$733,850.00
9.03	WSLP CN RR Crossing	CY	442	\$650.00	\$287,300.00	0%	100%	\$0.00	\$287,300.00
9.04	WSLP KCS RR Crossing	CY	200	\$650.00	\$130,000.00	0%	100%	\$0.00	\$130,000.00
9.05	Maurepas Headworks	CY	7,234	\$650.00	\$4,702,100.00	100%	0%	\$4,702,100.00	\$0.00
9.06	Maurepas Airline Crossing	CY	4,609	\$650.00	\$2,995,850.00	80%	20%	\$2,396,680.00	\$599,170.00
			,	,	, , ,			. , ,	•
							2.11	**********	***
10	Stabilization Slab Concrete	CY	748	\$450.00	\$336,600	76%	24%	\$254,160.00	\$82,440.00
10.01	WSLP River Road Crossing	СУ	15	\$450.00	\$6,750.00	0%	100%	\$0.00	\$6,750.00
10.02	WSLP I-wall River Rd to CN RR	CY	54	\$450.00	\$24,300.00	0%	100%	\$0.00	\$24,300.00
10.03	WSLP CN RR Crossing	CY	36	\$450.00	\$16,200.00	0%	100%	\$0.00	\$16,200.00
10.04	WSLP KCS RR Crossing	CY	15	\$450.00	\$6,750.00	0%	100%	\$0.00	\$6,750.00
10.05	Maurepas Headworks	CY	312	\$450.00	\$140,400.00	100%	0%	\$140,400.00	\$0.00
10.06	Maurepas Airline Crossing	СУ	316	\$450.00	\$142,200.00	80%	20%	\$113,760.00	\$28,440.00
11	Structural Steel	LS	1	\$327,000	\$327,000	0%	100%	\$0.00	\$327,000.00
11.01	WSLP River Road Crossing (Gates)	TON	9	\$10,000.00	\$94,000.00	0%	100%	\$0.00	\$94,000.00
11.02	WSLP CN RR Crossing (Gates)	TON	19	\$10,000.00	\$194,000.00	0%	100%	\$0.00	\$194,000.00
11.03	WSLP KCS RR Crossing (Gates)	TON	4	\$10,000.00	\$39,000.00	0%	100%	\$0.00	\$39,000.00
			·	Sub-total =	\$327,000.00				·

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		Unit of				% Maurepas	% WSLP Pro		
Item No.	Item Description	Measure	Quantity	Unit Price	Total Price	Proj Cost	Cost	MAUREPAS PRICE	WSLP PRICE
12	Miscellaneous Metalwork	LS	1	\$60,560	\$60,560	66%	34%	\$40,130.00	\$20,430.00
12.01	Galv. Steel Grating at Headworks (8'-5"x11'-3")	SF	285	\$40.00	\$11,400.00	100%	0%	\$11,400.00	\$0.00
12.02	Miscellaneous steel at HW (assume 400 lb)	LS	1	\$20,000.00	\$20,000.00	100%	0%	\$20,000.00	\$0.00
12.03	WSLP H-pile tension connectors	EA	227	\$90.00	\$20,430.00	0%	100%	\$0.00	\$20,430.00
12.04	Maurepas Headworks H-pile tension connectors	EA	97	\$90.00	\$8,730.00	100%	0%	\$8,730.00	\$0.00
	·			Sub-total =	\$60,560.00			, ,	·
13	Metal Railings	LS	1	\$27,000	\$27,000	100%	0%	\$27,000.00	\$0.00
13.01	Guardrail at HW equipment room	LF	60	\$450.00	\$27,000.00	100%	0%	\$27,000.00	\$0.00
14	Steel Doors and Frames	LS	1	\$8,000	\$8,000	100%	0%	\$8,000.00	\$0.00
14.01	HW Equipment Room Door: 3'-4"x7' hollow metal door w/steel frame	EA	1	\$4,000.00	\$4,000.00	100%	0%	\$4,000.00	\$0.00
14.02	Installation & Miscellaneous hardware	LS	1	\$4,000.00	\$4,000.00	100%	0%	\$4,000.00	\$0.00
				Sub-total =	\$8,000.00				
15	Paints and Coatings	SF	1,981	\$3.55	\$7,033	0%	100%	\$0.00	\$7,032.55
15.01	WSLP River Road Crossing	SF	614	\$3.55	\$2,179.70	0%	100%	\$0.00	\$2,179.70
15.02	WSLP CN RR Crossing	SF	1,046	\$3.55	\$3,713.30	0%	100%	\$0.00	\$3,713.30
15.03	WSLP KCS RR Crossing	SF	321	\$3.55	\$1,139.55	0%	100%	\$0.00	\$1,139.55
16	Painting: Coal Tar Epoxy System	SF	177,165	\$5.00	\$885,825	23%	77%	\$200,435.00	\$685,390.00
16.01	WSLP River Road Crossing	SF	9,814	\$5.00	\$49,070.00	0%	100%	\$0.00	\$49,070.00
16.02	WSLP I-wall River Rd to CN RR	SF	96,710	\$5.00	\$483,550.00	0%	100%	\$0.00	\$483,550.00
16.03	WSLP CN RR Crossing	SF	19,360	\$5.00	\$96,800.00	0%	100%	\$0.00	\$96,800.00
16.04	WSLP KCS RR Crossing	SF	11,194	\$5.00	\$55,970.00	0%	100%	\$0.00	\$55,970.00
16.05	Maurepas Headworks	SF	40,087	\$5.00	\$200,435.00	100%	0%	\$200,435.00	\$0.00
		Ţ.	,	75.55	7 200, 100100			+ = 00,10010	
17	Project Signage at Road Crossings	EA	4	\$500.00	\$2,000	50%	50%	\$1,000.00	\$1,000.00
17.01	Assume 4 Project Signs, including installation costs	EA	4	\$500.00	\$2,000.00	50%	50%	\$1,000.00	\$1,000.00
	The same of the sa	_, ,			+=/000.00				
18	Foundation Instrumentation	LS	1	\$158,100	\$158,100	100%	0%	\$158,100.00	\$0.00
10.04	Instrumentation at Headworks	50	2	¢r 000 00	Ć1F 000 00	1000/	00/	Ć1F 000 00	<u> </u>
18.01	Scour Indicators	EA	3	\$5,000.00	\$15,000.00	100%	0%	\$15,000.00	\$0.00
18.02	1" Scour indicator conduits Changel Moster II ADCR Acquetic Departure Consent Profiler	LF	360	\$10.00	\$3,600.00	100%	0%	\$3,600.00	\$0.00
18.03	Channel Master H-ADCP Acoustic Doppler Current Profiler	EA	2	\$50,000.00	\$100,000.00	100%	0%	\$100,000.00	\$0.00
18.04	Piezometers Wireless signal w/ solar panel	EA	3	\$10,000.00	\$30,000.00	100%	0%	\$30,000.00	\$0.00
18.05	Wireless signal w/ solar panel	EA	1	\$5,000.00	\$5,000.00	100%	0%	\$5,000.00	\$0.00
18.06	3/4" stainless steel pipe (3 pipes/unit, 3 units)	EA	9	\$500.00	\$4,500.00	100%	0%	\$4,500.00	\$0.00

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19.01 PP1 Pane 19.02 LP1 Pane 19.03 LIGHT F) 19.04 LIGHT F) 19.05 LIGHT F) 19.06 LIGHT F) 19.07 POLE TY 19.08 35KW 50 19.09 100A 48 19.11 GATE HY 19.12 GROUNI 19.13 4/0 BAR 19.14 EXOTHE 19.15 PHOTOC 19.16 MISCELL	ical Work at Head Works anelboard 480/277V 100A 24 circuit MLO (1 - 60A/3, 1- 30A/3, 1-20A/3, 4-20A/1) anelboard 120/208V 100A 24 circuit 50A MB (17 - 20A/1, 1 - 20A/1 GFI) FXTURE TYPE BA HOLOPHANE DESOTO M-60 FXTURE TYPE FA HOLOPHANE HES SERIES FXTURE TYPE HA GE DECASHIELD SPMM17POA1AMC3DB FXTURE TYPE HB HOLOPHANE WALLPACK IV W415AHP27SZ TYPE PA FOR FIXTURE HA 12' TALL 4" SQUARE STEEL 50KVA 480/277V GENERATOR 480V 3 PHASE AUTOMATIC TRANSFER SWITCH A 480V - 120/208V TRANSFORMER HYDRAULIC CONTROL PANEL (FURNISHED WITH PUMPS) IND RODS 10 FEET X 3/4" COPPER CLAD ARE CABLE COPPER HERMIC WELDS OCELL AND LIGHTING CONTACTOR ELLANEOUS ELECTRICAL WORK (CONDIUT, WIRE, WIRING DEVICES, CONDUIT FITTINGS, ETC.)	Measure LS EA EA EA EA EA EA EA EA EA E	Quantity 1 1 1 1 1 3 3 3 2 3 1 1 1 1 1 2 160 28 1 1	\$108,313 \$7,103.00 \$4,766.00 \$867.00 \$618.00 \$415.00 \$674.00 \$1,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$136.00 \$136.00 \$10,000.00	\$108,313 \$7,103.00 \$4,766.00 \$867.00 \$1,854.00 \$1,245.00 \$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00 \$400.00	% Maurepas Proj Cost 100% 100% 100% 100% 100% 100% 100% 10	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	\$108,313.00 \$7,103.00 \$4,766.00 \$867.00 \$1,854.00 \$1,245.00 \$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
19.01 PP1 Pane 19.02 LP1 Pane 19.03 LIGHT F) 19.04 LIGHT F) 19.05 LIGHT F) 19.06 LIGHT F) 19.07 POLE TY 19.08 35KW 50 19.09 100A 48 19.11 GATE HY 19.12 GROUNI 19.13 4/0 BAR 19.14 EXOTHE 19.15 PHOTOC 19.16 MISCELL	anelboard 480/277V 100A 24 circuit MLO (1 - 60A/3, 1- 30A/3, 1-20A/3, 4-20A/1) anelboard 120/208V 100A 24 circuit 50A MB (17 - 20A/1, 1 - 20A/1 GFI) FXTURE TYPE BA HOLOPHANE DESOTO M-60 FXTURE TYPE FA HOLOPHANE HES SERIES FXTURE TYPE HA GE DECASHIELD SPMM17POA1AMC3DB FXTURE TYPE HB HOLOPHANE WALLPACK IV W415AHP27SZ TYPE PA FOR FIXTURE HA 12' TALL 4" SQUARE STEEL 50KVA 480/277V GENERATOR 480V 3 PHASE AUTOMATIC TRANSFER SWITCH A 480V - 120/208V TRANSFORMER HYDRAULIC CONTROL PANEL (FURNISHED WITH PUMPS) IND RODS 10 FEET X 3/4" COPPER CLAD ARE CABLE COPPER HERMIC WELDS OCELL AND LIGHTING CONTACTOR	EA E	1 1 1 1 3 3 3 2 3 1 1 1 1 1 1 1 2 160 28 1	\$108,313 \$7,103.00 \$4,766.00 \$867.00 \$618.00 \$415.00 \$674.00 \$1,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$150.00 \$136.00 \$400.00	\$108,313 \$7,103.00 \$4,766.00 \$867.00 \$1,854.00 \$1,245.00 \$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00 \$400.00	100% 100% 100% 100% 100% 100% 100% 100%	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	\$7,103.00 \$4,766.00 \$867.00 \$1,854.00 \$1,245.00 \$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
19.01 PP1 Pane 19.02 LP1 Pane 19.03 LIGHT F) 19.04 LIGHT F) 19.05 LIGHT F) 19.06 LIGHT F) 19.07 POLE TY 19.08 35KW 50 19.09 100A 48 19.1 15KVA 4 19.11 GATE HY 19.12 GROUNI 19.13 4/0 BAR 19.14 EXOTHE 19.15 PHOTOC 19.16 MISCELL	anelboard 480/277V 100A 24 circuit MLO (1 - 60A/3, 1- 30A/3, 1-20A/3, 4-20A/1) anelboard 120/208V 100A 24 circuit 50A MB (17 - 20A/1, 1 - 20A/1 GFI) FXTURE TYPE BA HOLOPHANE DESOTO M-60 FXTURE TYPE FA HOLOPHANE HES SERIES FXTURE TYPE HA GE DECASHIELD SPMM17POA1AMC3DB FXTURE TYPE HB HOLOPHANE WALLPACK IV W415AHP27SZ TYPE PA FOR FIXTURE HA 12' TALL 4" SQUARE STEEL 50KVA 480/277V GENERATOR 480V 3 PHASE AUTOMATIC TRANSFER SWITCH A 480V - 120/208V TRANSFORMER HYDRAULIC CONTROL PANEL (FURNISHED WITH PUMPS) IND RODS 10 FEET X 3/4" COPPER CLAD ARE CABLE COPPER HERMIC WELDS OCELL AND LIGHTING CONTACTOR	EA	1 1 1 1 3 3 3 2 3 1 1 1 1 1 1 1 2 160 28 1	\$7,103.00 \$4,766.00 \$867.00 \$618.00 \$415.00 \$674.00 \$1,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$150.00 \$136.00 \$400.00	\$7,103.00 \$4,766.00 \$867.00 \$1,854.00 \$1,245.00 \$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00 \$400.00	100% 100% 100% 100% 100% 100% 100% 100%	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	\$7,103.00 \$4,766.00 \$867.00 \$1,854.00 \$1,245.00 \$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
19.01 PP1 Pane 19.02 LP1 Pane 19.03 LIGHT F) 19.04 LIGHT F) 19.05 LIGHT F) 19.06 LIGHT F) 19.07 POLE TY 19.08 35KW 50 19.09 100A 48 19.1 15KVA 4 19.11 GATE HY 19.12 GROUNI 19.13 4/0 BAR 19.14 EXOTHE 19.15 PHOTOC 19.16 MISCELL	anelboard 480/277V 100A 24 circuit MLO (1 - 60A/3, 1- 30A/3, 1-20A/3, 4-20A/1) anelboard 120/208V 100A 24 circuit 50A MB (17 - 20A/1, 1 - 20A/1 GFI) FXTURE TYPE BA HOLOPHANE DESOTO M-60 FXTURE TYPE FA HOLOPHANE HES SERIES FXTURE TYPE HA GE DECASHIELD SPMM17POA1AMC3DB FXTURE TYPE HB HOLOPHANE WALLPACK IV W415AHP27SZ TYPE PA FOR FIXTURE HA 12' TALL 4" SQUARE STEEL 50KVA 480/277V GENERATOR 480V 3 PHASE AUTOMATIC TRANSFER SWITCH A 480V - 120/208V TRANSFORMER HYDRAULIC CONTROL PANEL (FURNISHED WITH PUMPS) IND RODS 10 FEET X 3/4" COPPER CLAD ARE CABLE COPPER HERMIC WELDS OCELL AND LIGHTING CONTACTOR	EA	1 1 1 1 3 3 3 2 3 1 1 1 1 1 1 1 2 160 28 1	\$7,103.00 \$4,766.00 \$867.00 \$618.00 \$415.00 \$674.00 \$1,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$150.00 \$136.00 \$400.00	\$7,103.00 \$4,766.00 \$867.00 \$1,854.00 \$1,245.00 \$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00 \$400.00	100% 100% 100% 100% 100% 100% 100% 100%	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	\$7,103.00 \$4,766.00 \$867.00 \$1,854.00 \$1,245.00 \$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
19.02 LP1 Pane 19.03 LIGHT F) 19.04 LIGHT F) 19.05 LIGHT F) 19.06 LIGHT F) 19.07 POLE TY 19.08 35KW 56 19.09 100A 48 19.1 15KVA 4 19.11 GATE HY 19.12 GROUNI 19.13 4/0 BAR 19.14 EXOTHE 19.15 PHOTOC 19.16 MISCELL	Annelboard 120/208V 100A 24 circuit 50A MB (17 - 20A/1, 1 - 20A/1 GFI) FXTURE TYPE BA HOLOPHANE DESOTO M-60 FXTURE TYPE FA HOLOPHANE HES SERIES FXTURE TYPE HA GE DECASHIELD SPMM17POA1AMC3DB FXTURE TYPE HB HOLOPHANE WALLPACK IV W415AHP27SZ TYPE PA FOR FIXTURE HA 12' TALL 4" SQUARE STEEL 50KVA 480/277V GENERATOR 480V 3 PHASE AUTOMATIC TRANSFER SWITCH A 480V - 120/208V TRANSFORMER HYDRAULIC CONTROL PANEL (FURNISHED WITH PUMPS) IND RODS 10 FEET X 3/4" COPPER CLAD ARE CABLE COPPER HERMIC WELDS OCELL AND LIGHTING CONTACTOR	EA E	1 1 3 3 3 2 3 1 1 1 1 1 1 1 2 160 28 1	\$4,766.00 \$867.00 \$618.00 \$415.00 \$674.00 \$1,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$150.00 \$136.00 \$400.00	\$4,766.00 \$867.00 \$1,854.00 \$1,245.00 \$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00 \$400.00	100% 100% 100% 100% 100% 100% 100% 100%	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	\$4,766.00 \$867.00 \$1,854.00 \$1,245.00 \$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
19.03 LIGHT F) 19.04 LIGHT F) 19.05 LIGHT F) 19.06 LIGHT F) 19.07 POLE TY 19.08 35KW 50 19.09 100A 48 19.1 15KVA 4 19.11 GATE HY 19.12 GROUNI 19.13 4/0 BAR 19.14 EXOTHE 19.15 PHOTOG 19.16 MISCELL	FXTURE TYPE BA HOLOPHANE DESOTO M-60 FXTURE TYPE FA HOLOPHANE HES SERIES FXTURE TYPE HA GE DECASHIELD SPMM17POA1AMC3DB FXTURE TYPE HB HOLOPHANE WALLPACK IV W415AHP27SZ TYPE PA FOR FIXTURE HA 12' TALL 4" SQUARE STEEL SOKVA 480/277V GENERATOR 480V 3 PHASE AUTOMATIC TRANSFER SWITCH A 480V - 120/208V TRANSFORMER HYDRAULIC CONTROL PANEL (FURNISHED WITH PUMPS) IND RODS 10 FEET X 3/4" COPPER CLAD ARE CABLE COPPER HERMIC WELDS OCELL AND LIGHTING CONTACTOR	EA E	3 2 3 1 1 1 1 1 1 12 160 28	\$867.00 \$618.00 \$415.00 \$674.00 \$1,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$262.00 \$150.00 \$136.00 \$400.00	\$867.00 \$1,854.00 \$1,245.00 \$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00 \$400.00	100% 100% 100% 100% 100% 100% 100% 100%	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	\$867.00 \$1,854.00 \$1,245.00 \$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
19.04 LIGHT F) 19.05 LIGHT F) 19.06 LIGHT F) 19.07 POLE TY 19.08 35KW 50 19.09 100A 48 19.1 15KVA 4 19.11 GATE HY 19.12 GROUND 19.13 4/0 BAR 19.14 EXOTHE 19.15 PHOTOC 19.16 MISCELL	FXTURE TYPE FA HOLOPHANE HES SERIES FXTURE TYPE HA GE DECASHIELD SPMM17POA1AMC3DB FXTURE TYPE HB HOLOPHANE WALLPACK IV W415AHP27SZ TYPE PA FOR FIXTURE HA 12' TALL 4" SQUARE STEEL F50KVA 480/277V GENERATOR 480V 3 PHASE AUTOMATIC TRANSFER SWITCH A 480V - 120/208V TRANSFORMER HYDRAULIC CONTROL PANEL (FURNISHED WITH PUMPS) IND RODS 10 FEET X 3/4" COPPER CLAD ARE CABLE COPPER HERMIC WELDS OCELL AND LIGHTING CONTACTOR	EA	3 2 3 1 1 1 1 1 1 12 160 28	\$618.00 \$415.00 \$674.00 \$1,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$262.00 \$150.00 \$136.00 \$400.00	\$1,854.00 \$1,245.00 \$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00 \$400.00	100% 100% 100% 100% 100% 100% 100% 100%	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	\$1,854.00 \$1,245.00 \$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
19.05 LIGHT F) 19.06 LIGHT F) 19.07 POLE TY 19.08 35KW 50 19.09 100A 48 19.1 15KVA 4 19.11 GATE HY 19.12 GROUNI 19.13 4/0 BAR 19.14 EXOTHE 19.15 PHOTOC 19.16 MISCELL	FXTURE TYPE HA GE DECASHIELD SPMM17POA1AMC3DB FXTURE TYPE HB HOLOPHANE WALLPACK IV W415AHP27SZ TYPE PA FOR FIXTURE HA 12' TALL 4" SQUARE STEEL F50KVA 480/277V GENERATOR 480V 3 PHASE AUTOMATIC TRANSFER SWITCH F4 480V - 120/208V TRANSFORMER FYDRAULIC CONTROL PANEL (FURNISHED WITH PUMPS) FIND RODS 10 FEET X 3/4" COPPER CLAD FARE CABLE COPPER HERMIC WELDS OCELL AND LIGHTING CONTACTOR	EA	3 2 3 1 1 1 1 1 1 12 160 28	\$415.00 \$674.00 \$1,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$262.00 \$150.00 \$136.00 \$400.00	\$1,245.00 \$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00 \$400.00	100% 100% 100% 100% 100% 100% 100% 100% 100%	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	\$1,245.00 \$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
19.06 LIGHT FX 19.07 POLE TY 19.08 35KW 56 19.09 100A 48 19.1 15KVA 4 19.11 GATE HY 19.12 GROUNI 19.13 4/0 BAR 19.14 EXOTHE 19.15 PHOTOC 19.16 MISCELL	FXTURE TYPE HB HOLOPHANE WALLPACK IV W415AHP27SZ TYPE PA FOR FIXTURE HA 12' TALL 4" SQUARE STEEL 50KVA 480/277V GENERATOR 480V 3 PHASE AUTOMATIC TRANSFER SWITCH A 480V - 120/208V TRANSFORMER HYDRAULIC CONTROL PANEL (FURNISHED WITH PUMPS) IND RODS 10 FEET X 3/4" COPPER CLAD ARE CABLE COPPER HERMIC WELDS OCELL AND LIGHTING CONTACTOR	EA	3 1 1 1 1 1 12 160 28 1	\$674.00 \$1,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$262.00 \$150.00 \$136.00 \$400.00	\$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00 \$400.00	100% 100% 100% 100% 100% 100% 100% 100%	0% 0% 0% 0% 0% 0% 0% 0%	\$1,348.00 \$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
19.07 POLE TY 19.08 35KW 50 19.09 100A 48 19.1 15KVA 4 19.11 GATE HY 19.12 GROUNI 19.13 4/0 BAR 19.14 EXOTHE 19.15 PHOTOC 19.16 MISCELL	TYPE PA FOR FIXTURE HA 12' TALL 4" SQUARE STEEL 50KVA 480/277V GENERATOR 480V 3 PHASE AUTOMATIC TRANSFER SWITCH A 480V - 120/208V TRANSFORMER HYDRAULIC CONTROL PANEL (FURNISHED WITH PUMPS) IND RODS 10 FEET X 3/4" COPPER CLAD ARE CABLE COPPER HERMIC WELDS OCELL AND LIGHTING CONTACTOR	EA	3 1 1 1 1 1 12 160 28 1	\$1,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$262.00 \$150.00 \$136.00 \$400.00	\$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00 \$400.00	100% 100% 100% 100% 100% 100% 100%	0% 0% 0% 0% 0% 0% 0%	\$4,500.00 \$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
19.08 35KW 50 19.09 100A 48 19.1 15KVA 4 19.11 GATE HY 19.12 GROUNI 19.13 4/0 BAR 19.14 EXOTHE 19.15 PHOTOC 19.16 MISCELL	50KVA 480/277V GENERATOR 480V 3 PHASE AUTOMATIC TRANSFER SWITCH A 480V - 120/208V TRANSFORMER HYDRAULIC CONTROL PANEL (FURNISHED WITH PUMPS) IND RODS 10 FEET X 3/4" COPPER CLAD ARE CABLE COPPER HERMIC WELDS OCELL AND LIGHTING CONTACTOR	EA EA EA EA EA EA EA EA EA	1 1 1 1 1 12 160 28	\$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$262.00 \$150.00 \$136.00 \$400.00	\$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00 \$400.00	100% 100% 100% 100% 100% 100%	0% 0% 0% 0% 0% 0%	\$33,565.00 \$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
19.09 100A 48 19.1 15KVA 4 19.11 GATE HY 19.12 GROUNI 19.13 4/0 BAR 19.14 EXOTHE 19.15 PHOTOC 19.16 MISCELL	480V 3 PHASE AUTOMATIC TRANSFER SWITCH A 480V - 120/208V TRANSFORMER HYDRAULIC CONTROL PANEL (FURNISHED WITH PUMPS) IND RODS 10 FEET X 3/4" COPPER CLAD ARE CABLE COPPER HERMIC WELDS OCELL AND LIGHTING CONTACTOR	EA EA EA EA EA EA	1 12 160 28 1	\$2,095.00 \$4,618.00 \$5,000.00 \$262.00 \$150.00 \$136.00 \$400.00	\$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00 \$400.00	100% 100% 100% 100% 100% 100%	0% 0% 0% 0% 0% 0%	\$2,095.00 \$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
19.1 15KVA 4 19.11 GATE HY 19.12 GROUNI 19.13 4/0 BAR 19.14 EXOTHE 19.15 PHOTOC 19.16 MISCELL	A 480V - 120/208V TRANSFORMER HYDRAULIC CONTROL PANEL (FURNISHED WITH PUMPS) IND RODS 10 FEET X 3/4" COPPER CLAD ARE CABLE COPPER HERMIC WELDS OCELL AND LIGHTING CONTACTOR	EA EA EA EA EA	1 12 160 28 1	\$4,618.00 \$5,000.00 \$262.00 \$150.00 \$136.00 \$400.00	\$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00 \$400.00	100% 100% 100% 100% 100%	0% 0% 0% 0% 0%	\$4,618.00 \$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00	\$0.00 \$0.00 \$0.00 \$0.00
19.11 GATE HY 19.12 GROUNI 19.13 4/0 BAR 19.14 EXOTHE 19.15 PHOTOC 19.16 MISCELL	HYDRAULIC CONTROL PANEL (FURNISHED WITH PUMPS) IND RODS 10 FEET X 3/4" COPPER CLAD ARE CABLE COPPER HERMIC WELDS OCELL AND LIGHTING CONTACTOR	EA EA EA EA	1 12 160 28 1	\$5,000.00 \$262.00 \$150.00 \$136.00 \$400.00	\$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00 \$400.00	100% 100% 100% 100%	0% 0% 0% 0%	\$5,000.00 \$3,144.00 \$24,000.00 \$3,808.00	\$0.00 \$0.00 \$0.00
19.12 GROUNI 19.13 4/0 BAR 19.14 EXOTHE 19.15 PHOTOC 19.16 MISCELL	ARE CABLE COPPER HERMIC WELDS OCELL AND LIGHTING CONTACTOR	EA EA EA	12 160 28 1	\$262.00 \$150.00 \$136.00 \$400.00	\$3,144.00 \$24,000.00 \$3,808.00 \$400.00	100% 100% 100%	0% 0% 0%	\$3,144.00 \$24,000.00 \$3,808.00	\$0.00 \$0.00
19.13 4/0 BAR 19.14 EXOTHE 19.15 PHOTOC 19.16 MISCELL	ARE CABLE COPPER HERMIC WELDS OCELL AND LIGHTING CONTACTOR	EA EA EA	160 28 1	\$150.00 \$136.00 \$400.00	\$24,000.00 \$3,808.00 \$400.00	100% 100%	0% 0%	\$24,000.00 \$3,808.00	\$0.00
19.14 EXOTHE 19.15 PHOTOC 19.16 MISCELL	HERMIC WELDS OCELL AND LIGHTING CONTACTOR	EA EA	28 1	\$136.00 \$400.00	\$3,808.00 \$400.00	100%	0%	\$3,808.00	•
19.15 PHOTOC 19.16 MISCELL	OCELL AND LIGHTING CONTACTOR	EA	1	\$400.00	\$400.00				\$0.00
19.16 MISCELL			1	· ·	· ·	100%	0-1	1	00.00
	ELLANEOUS ELECTRICAL WORK (CONDIUT, WIRE, WIRING DEVICES, CONDUIT FITTINGS, ETC.)	LS	1	\$10,000,00	1	10070	0%	\$400.00	\$0.00
20 Separate				\$10,000.00	\$10,000.00	100%	0%	\$10,000.00	\$0.00
20 Separate				Sub-Total =	<u>\$108,313.00</u>				
20 Separat									
	ator Geotextile	SY	70,166	\$4.00	\$280,665	18%	82%	\$51,216.84	\$229,448.00
20.01 Geotext	extile fabric (under Riprap for Intake Channel)	SY	7,342.00	\$4.00	\$29,368.00	100%	0%	\$29,368.00	\$0.00
	extile fabric (discharge box for lateral release valves)	SY	77.38	\$4.00	\$309.51	100%	0%	\$309.51	\$0.00
	extile fabric (weirs)	SY	300.83	\$4.00	\$1,203.33	100%	0%	\$1,203.33	\$0.00
	extile fabric Airline Hwy Embankment - Class D	SY	25,420.00	\$4.00	\$101,680.00	20%	80%	\$20,336.00	\$81,344.00
20.05 Geotext	extile fabric WSLP Typical Levee Section (1/6 th of clear & grub WSLP alignment)	SY	37,026.00	\$4.00	\$148,104.00	0%	100%	\$0.00	\$148,104.00
				4	****			4	*
	rid Soil Reinforcement	SY	77,316	\$1.70	\$131,437	100%	0%	\$131,064.79	\$372.19
21.01 Geogrid 18+12.2	rid at Access Road (West side -Sta. 16+49 to Sta. 18+12.26) and (East side - Sta. 15+99 to Sta. 2.26)	SY	437.87	\$1.70	\$744.37	50%	50%	\$372.19	\$372.19
21.02 Convey	ey Channel: Sedimentation Basin to CN RR	SY	4,200	\$1.70	\$7,140.00	100%	0%	\$7,140.00	\$0.00
21.03 Convey	ey Channel: CN RR to KCS RR	SY	18,100	\$1.70	\$30,770.00	100%	0%	\$30,770.00	\$0.00
	ey Channel: KCS RR to Airline Hwy	SY	5,578	\$1.70	\$9,482.60	100%	0%	\$9,482.60	\$0.00
•	ey Channel: Airline to WSLP Pump Station	SY	7,600	\$1.70	\$12,920.00	100%	0%	\$12,920.00	\$0.00
, , , , , , , , , , , , , , , , , , ,	ey Channel: Pump Station to End of Maurepas Project	SY	41,400	\$1.70	\$70,380.00	100%	0%	\$70,380.00	\$0.00
	· · · · ·		•	-					
22 Clearing	ng and Grubbing	LS	1	\$7,754,250	\$7,754,250	73%	27%	\$5,687,475.00	\$2,066,775.00
	ing and Grubbing, Maurepas Diversion (300' ROW, Sta. 10+00 to Sta. 302+19)			. , . ,	. , . ,			, , , , , , ,	
Intake to		ACRE	7.50	\$10,000.00	\$75,000.00	100%	0%	\$75,000.00	\$0.00

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		Unit of				% Maurepas	% WSLP Proj		
Item No.	Item Description	Measure	Quantity	Unit Price	Total Price	Proj Cost	Cost	MAUREPAS PRICE	WSLP PRICE
	River Road Crossing to CN RR Crossing (10.6 acres wooded)	ACRE	10.60	\$10,000.00	\$106,000.00	100%	0%	\$106,000.00	\$0.00
	CN RR Crossing to KCS RR Crossing (17.7 acres wooded, 19 acres clear)	ACRE	36.70	\$10,000.00	\$367,000.00	100%	0%	\$367,000.00	\$0.00
	KCS RR Crossing to Airline Hwy Crossing (7.5 acres wooded, 2.5 acres clear)	ACRE	10.00	\$10,000.00	\$100,000.00	100%	0%	\$100,000.00	\$0.00
	Airline Hwy Crossing to WSLP-114 Pump Station (11.8 acres wooded)	ACRE	11.80	\$10,000.00	\$118,000.00	100%	0%	\$118,000.00	\$0.00
	WSLP-114 Pump Station to end of Convey. Channel (117 acres wooded)	ACRE	117.00	\$10,000.00	\$1,170,000.00	100%	0%	\$1,170,000.00	\$0.00
22.02	Clearing and Grubbing, WSLP Alignment additional	ACILE	117.00	710,000.00	71,170,000.00	10070	070	71,170,000.00	φο.σσ
22.02	River Road Crossing to CN RR Crossing (4 acres wooded)	ACRE	4.00	\$10,000.00	\$40,000.00	0%	100%	\$0.00	\$40,000.00
	CN RR Crossing to KCS RR Crossing (22 acres wooded, 3.5 acres clear)	ACRE	25.50	\$10,000.00	\$255,000.00	0%	100%	\$0.00	\$255,000.00
	KCS RR Crossing to Airline Hwy Crossing (5.2 acres wooded, 1.7 acres clear)	ACRE	6.90	\$10,000.00	\$69,000.00	0%	100%	\$0.00	\$69,000.00
	Airline Hwy Crossing to WSLP-114 Pump Station (9.5 acres wooded)	ACRE	9.50	\$10,000.00	\$95,000.00	0%	100%	\$0.00	\$95,000.00
22.04	Tree Stump Removal and Backfill voids w/ excavated material (assume 10% of the area)	ACRE	23.95	\$15,000.00	\$359,250.00	70%	30%	\$251,475.00	\$107,775.00
22.05	Disposal of trees, stumps and debris offsite, access allowance	LS	1.00	\$5,000,000.00	\$5,000,000.00	70%	30%	\$3,500,000.00	\$1,500,000.00
22.03	Disposar of trees, stamps and debris offsite, access anowance	LJ	1.00	\$5,000,000.00 Sub-Total =	\$7,754,250.0 <u>0</u>	7070	3070	\$3,300,000.00	71,500,000.00
				Jub-Total -	\$1,734,230.00				
23	Excavation	CY	1,284,577	\$14.00	\$17,984,083	94%	6%	\$16,874,477.76	\$1,109,605.00
23.01	Intake Phase 1	CY	29,680	\$14.00	\$415,520.00	100%	0%	\$415,520.00	\$0.00
23.02	Intake Phase 2	CY	63,800	\$14.00	\$893,200.00	100%	0%	\$893,200.00	\$0.00
23.03	Excavation U1 & U2	CY	9,300	\$14.00	\$130,200.00	100%	0%	\$130,200.00	\$0.00
23.04	Degrade Cofferdam to EL 22	CY	20,000	\$14.00	\$280,000.00	100%	0%	\$280,000.00	\$0.00
23.05	Intake Excavation from River	CY	34,700	\$14.00	\$485,800.00	100%	0%	\$485,800.00	\$0.00
	Sedimentation Basin	CY	42,670	\$14.00	\$597,380.00	100%	0%	\$597,380.00	\$0.00
23.07	Convey Channel: Sedimentation Basin to CN RR	CY	30,500	\$14.00	\$427,000.00	100%	0%	\$427,000.00	\$0.00
23.08	Convey Channel: CN RR to KCS RR (Marathon fill not included see item i)	CY	282,100	\$14.00	\$3,949,400.00	100%	0%	\$3,949,400.00	\$0.00
23.09	Convey Channel: Marathon Fill (Excavate dumped organic material to original 2013 grade)	CY	40,000	\$14.00	\$560,000.00	100%	0%	\$560,000.00	\$0.00
23.1	Convey Channel: KCS RR to Airline Hwy	CY	50,100	\$14.00	\$701,400.00	100%	0%	\$701,400.00	\$0.00
23.11	Convey Channel: Airline to WSLP Pump Station	CY	66,100	\$14.00	\$925,400.00	100%	0%	\$925,400.00	\$0.00
23.12	Convey Channel: Pump Station to End of Maurepas Project	CY	500,000	\$14.00	\$7,000,000.00	100%	0%	\$7,000,000.00	\$0.00
23.13	Airline Highway Embankment Crossing	CY	3,550	\$14.00	\$49,700.00	75%	25%	\$37,275.00	\$12,425.00
23.14	Embankment cuts	CY	4,777	\$14.00	\$66,882.76	100%	0%	\$66,882.76	\$0.00
23.15	East Drainage Ditch	CY	35,500	\$14.00	\$497,000.00	50%	50%	\$248,500.00	\$248,500.00
23.16	West Drainage Ditch	CY	61,800	\$14.00	\$865,200.00	10%	90%	\$86,520.00	\$778,680.00
23.17	Miscellaneous	CY	10,000	\$14.00	\$140,000.00	50%	50%	\$70,000.00	\$70,000.00
			•						
24	Dewatering	LS	1	\$4,100,000	\$4,100,000	100%	0%	\$4,100,000.00	\$0.00
24.01	Install and remove 10" dia. well, 15 HP 300 gpm pumps, discharge pipe, vacuum pump & header syst.	EA	20	\$120,000.00	\$2,400,000.00	100%	0%	\$2,400,000.00	\$0.00
24.02	Install & abandon small dia (4") pumped wells, drive pumps & jet educators w/ vacuum pump syst.	EA	20	\$50,000.00	\$1,000,000.00	100%	0%	\$1,000,000.00	\$0.00
24.03	Construction Instrumentation (piezometers, transducers, and flow meters)	LS	1	\$150,000.00	\$150,000.00	100%	0%	\$150,000.00	\$0.00
24.04	Install and remove temporary 3-Phase 480V electric service, electrical distribution and automatically switched standby power generation	LS	1	\$250,000.00	\$250,000.00	100%	0%	\$250,000.00	\$0.00

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Itama Na	Have Description	Unit of	Overstitus			% Maurepas	% WSLP Proj		
item No.	Item Description	Measure	Quantity	Unit Price	Total Price	Proj Cost	Cost	MAUREPAS PRICE	WSLP PRICE
24.05	Operations of dewatering and surface water control system (assume 2 skilled workers 24/7 @ \$100/mhr +	LS	1	\$300,000.00	\$300,000.00				
24.03	\$2500/day for other expenses, 10% markup)	LS		\$300,000.00	\$300,000.00	100%	0%	\$300,000.00	\$0.00
				Sub-Total =	\$4,100,000.00				
25	Embankment, Compacted Fill	CY	756,060	\$30.00	\$22,681,800	57%	43%	\$12,850,800.00	\$9,831,000.00
25.01	Cofferdam Pond Fill	CY	2,920	\$30.00	\$87,600.00	100%	0%	\$87,600.00	\$0.00
25.02	Remaining Pond Fill	CY	10,540	\$30.00	\$316,200.00	100%	0%	\$316,200.00	\$0.00
25.03	Mainline Levee Reconstruction	CY	102,000	\$30.00	\$3,060,000.00	100%	0%	\$3,060,000.00	\$0.00
25.04	Cofferdam	CY	30,000	\$30.00	\$900,000.00	100%	0%	\$900,000.00	\$0.00
25.05	Sedimentation Basin	CY	13,300	\$30.00	\$399,000.00	100%	0%	\$399,000.00	\$0.00
25.06	River Road Emergency Bypass	CY	1,200	\$30.00	\$36,000.00	0%	100%	\$0.00	\$36,000.00
25.07	Sedimentation Basin to CN RR								
	Maurepas	CY	14,100	\$30.00	\$423,000.00	100%	0%	\$423,000.00	\$0.00
	WSLP	CY	8,500	\$30.00	\$255,000.00	0%	100%	\$0.00	\$255,000.00
25.08	CN RR to KCS RR								
	Maurepas	CY	45,500	\$30.00	\$1,365,000.00	100%	0%	\$1,365,000.00	\$0.00
	WSLP	CY	132,000	\$30.00	\$3,960,000.00	0%	100%	\$0.00	\$3,960,000.00
25.09	KCS RR to Airline Hwy								
	Maurepas	CY	14,000	\$30.00	\$420,000.00	100%	0%	\$420,000.00	\$0.00
	WSLP	CY	40,000	\$30.00	\$1,200,000.00	0%	100%	\$0.00	\$1,200,000.00
25.10	Airline to WSLP Pump Station								
	Maurepas	CY	16,000	\$30.00	\$480,000.00	100%	0%	\$480,000.00	\$0.00
	WSLP	CY	51,000	\$30.00	\$1,530,000.00	0%	100%	\$0.00	\$1,530,000.00
25.11	Pump Station to End of Maurepas Project	CY	165,000	\$30.00	\$4,950,000.00	100%	0%	\$4,950,000.00	\$0.00
25.12	Airline Highway Embankment Crossing	CY	100,000	\$30.00	\$3,000,000.00	10%	90%	\$300,000.00	\$2,700,000.00
25.13	Miscellaneous Fill	CY	10,000	\$30.00	\$300,000.00	50%	50%	\$150,000.00	\$150,000.00
26	Fiber Mulch	CY	11	\$194.00	\$2,173	10%	90%	\$217.28	\$1,955.52
26.1	Airline Highway Road Raise	CY	11.2	\$194.00	\$2,172.80	10%	90%	\$217.28	\$1,955.52
27	Riprap (Class 30 lb)	СҮ	2,051	\$110.00	\$225,647	100%	0%	\$225,646.67	\$0.00
26.01	Riprap at CN RR Crossing, either side of box culvert	CY	333	\$110.00	\$36,666.67	100%	0%	\$36,666.67	\$0.00
26.02	Riprap at KCS RR Crossing, Channel STA. 96+97 to 97+97	CY	829	\$110.00	\$91,226.67	100%	0%	\$91,226.67	\$0.00
26.03	Riprap at Airline Highway Crossing	CY	889	\$110.00	\$97,753.33	100%	0%	\$97,753.33	\$0.00
28	Riprap (Class 55 lb)	CY	4,148	\$150.00	\$622,200	100%	0%	\$622,200.00	\$0.00
	Riprap at sedimentation basin	CY	4,148	\$150.00	\$622,200.00	100%	0%	\$622,200.00	\$0.00
				-					·
29	Riprap (Class 130 lb)	CY	247	\$168.00	\$41,469	100%	0%	\$41,469.12	\$0.00
	Riprap for Weirs at Bayou Secret and Bourgeois Canal	CY	247	\$168.00	\$41,469.12	100%	0%	\$41,469.12	\$0.00

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		Unit of				% Maurepas	% WSLP Proj		
Item No.	Item Description	Measure	Quantity	Unit Price	Total Price	Proj Cost	Cost	MAUREPAS PRICE	WSLP PRICE
					1000011000				
30	Riprap (Class 250 lb)	CY	8,333	\$200.00	\$1,666,667	100%	0%	\$1,666,666.67	\$0.00
30.01	Riprap at Intake Structure	CY	8,333	\$200.00	\$1,666,666.67	100%	0%	\$1,666,666.67	\$0.00
31	Grouted Riprap	SY	336	\$207.00	\$69,552	100%	0%	\$69,552.00	\$0.00
31.01	Grouted Riprap for Sedimentation Basin	SY	336	\$207.00	\$69,552.00	100%	0%	\$69,552.00	\$0.00
	Steel Sheet Piling, Type PZ-22	SF	109,900	\$45.00	\$4,945,500	9%	91%	\$442,890.00	\$4,502,610.00
32.01	Sheet pile PZ-22 at HW	SF	9,842	\$45.00	\$442,890.00	100%	0%	\$442,890.00	\$0.00
32.02	WSLP River Rd Crossing	SF	4,752	\$45.00	\$213,817.50	0%	100%	\$0.00	\$213,817.50
32.03	WSLP CN RR Crossing	SF	9,195	\$45.00	\$413,752.50	0%	100%	\$0.00	\$413,752.50
32.04	WSLP KCS RR Crossing	SF	6,030	\$45.00	\$271,350.00	0%	100%	\$0.00	\$271,350.00
32.05	WSLP I-wall bw River Rd and CN RR	SF	72,317	\$45.00	\$3,254,265.00	0%	100%	\$0.00	\$3,254,265.00
32.06	Airline Highway Seepage Cutoff (w/in road embankment, TOW EL 9.5, Tip EL -20, 190' length)	SF	5,605	\$45.00	\$252,225.00	0%	100%	\$0.00	\$252,225.00
32.07	Airline Highway Levee Tie-ins (TOW EL 16, Tip EL -20, 30' length, 2 tie-ins)	SF	2,160	\$45.00	\$97,200.00	0%	100%	\$0.00	\$97,200.00
33	Prestressed Concrete Piles, Type 24"x24"	LF	40,425	\$160.00	\$6,468,000	90%	10%	\$5,821,200.00	\$646,800.00
33.01	Maurepas Airline Crossing	LF	40,425.00	\$160.00	\$6,468,000.00	90%	10%	\$5,821,200.00	\$646,800.00
		10	4	4007.074	4000.004	F.C0/	4.40/	Ć4 40 402 00	6447.462.00
34	Pile Load Tests	LS	1	\$265,654	\$265,654	56%	44%	\$148,192.00	\$117,462.00
24.04	Assume 5 Compression Pile Load Tests	F.A.	2	¢C1 4C0 00	ć422.020.00	F00/	F.00/	¢C1 4C0 00	¢64.460.00
	2 at HW/River Road	EA	2	\$61,460.00	\$122,920.00	50%	50%	\$61,460.00	\$61,460.00
	1 at CN Crossing	EA	1	\$30,730.00	\$30,730.00	50%	50%	\$15,365.00	\$15,365.00
34.03	1 at KCS Crossing	EA EA	1	\$30,730.00	\$30,730.00	50%	50%	\$15,365.00	\$15,365.00
34.04	1 at Airline Crossing Assume 2 PDA (Pile Driving Analyzer) Tests	EA	1	\$30,730.00	\$30,730.00	100%	0%	\$30,730.00	\$0.00
34.05	1 at HW/River Road	EA	1	\$25,272.00	\$25,272.00	50%	50%	\$12,636.00	\$12,636.00
	1 at CN Crossing	EA	1 1	\$25,272.00	\$25,272.00	50%	50%	\$12,636.00	\$12,636.00
34.00	1 at CN Crossing	LA	1	\$25,272.00	\$23,272.00	30%	30%	\$12,030.00	\$12,030.00
35	Steel H-Piles, HP 14 x 73	LF	6,288	\$89.00	\$559,632	0%	100%	\$0.00	\$559,632.00
	WSLP River Rd Crossing	LF	1,144	\$89.00	\$101,816.00	0%	100%	\$0.00	\$101,816.00
	WSLP CN RR Crossing	LF	3,594	\$89.00	\$319,866.00	0%	100%	\$0.00	\$319,866.00
	WSLP KCS RR Crossing	LF	1,550	\$89.00	\$137,950.00	0%	100%	\$0.00	\$137,950.00
33.03	Treat the state of		1,550	φοσ.σσ	ψ237)330100	3 73	20070	70.00	+ = 0 : / 0 0 0 : 0 0
36	Steel H-Piles, HP 14 x 89	LF	28,460	\$102.00	\$2,902,920	100%	0%	\$2,902,920.00	\$0.00
	Maurepas Headworks	LF	28,460	\$102.00	\$2,902,920.00	100%	0%	\$2,902,920.00	\$0.00
	·		,		, , ,			, , , , , , , , , , , , , , , , , , , ,	
37	Steel H-Piles, HP 16 x 101	LF	6,371	\$130.00	\$828,230	100%	0%	\$828,230.00	\$0.00
	Maurepas Headworks	LF	6,371	\$130.00	\$828,230.00	100%	0%	\$828,230.00	\$0.00
38	Timber Piles, 12" Diameter	LF	1710	\$48.00	\$82,080	50%	50%	\$41,040.00	\$41,040.00

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Itam No	Item Description	Unit of	Quantity			% Maurepas	% WSLP Proj		
iteiii No.	ittem bescription	Measure	Quantity	Unit Price	Total Price	Proj Cost	Cost	MAUREPAS PRICE	WSLP PRICE
38.01	Timber Piles, 12" Diameter at Boat Launch	LF	1440	\$48.00	\$82,080.00	50%	50%	\$41,040.00	\$41,040.00
38.02	Timber piles, HW dewatering needle storage rack	LF	270	\$48.00	\$82,080.00	100%	0%	\$82,080.00	\$0.00
39	Asphaltic Pavement	LS	1	\$2,434,996	\$2,434,996	28%	72%	\$670,477.00	\$1,764,519.00
	River Road Bypass (Hwy 44)			<i>+-</i> /10 1/000	+ = / *** * / *****			 	<i>+-,,</i>
39.01	2" superpave Asphaltic Concrete Wearing Course	SY	456	\$28.00	\$12,768.00	75%	25%	\$9,576.00	\$3,192.00
39.02	12" Superpave Asphaltic Concrete Base Course (Level 2)	SY	2,736	\$95.00	\$259,920.00	75%	25%	\$194,940.00	\$64,980.00
39.03	Mill and Overlay River Road, Hwy 44 (Phase IV)	SY	500	\$7.00	\$3,500.00	75%	25%	\$2,625.00	\$875.00
39.04	2" Cold Planing & Superpave Asphaltic Concrete Wearing Course (Level 2F)	TONS	225	\$0.00	\$0.00	75%	25%	\$0.00	\$0.00
39.05	2" superpave Asphaltic Concrete Leveling Course (Level 2)	TONS	225	\$0.00	\$0.00	75%	25%	\$0.00	\$0.00
	Reconstruct River Road (Hwy 44)								
39.06	2" Superpave Asphaltic Concrete Wearing Course (Level 2F)	SY	96	\$28.00	\$2,688.00	75%	25%	\$2,016.00	\$672.00
39.07	12" Superpave Asphaltic Concrete Base Course (Level 2)	SY	576	\$95.00	\$54,720.00	75%	25%	\$41,040.00	\$13,680.00
	Airline Highway Road Raise								
39.08	Class II Base Course (8" Thick) (Crushed stone or recycled PCC)	SY	316	\$65.00	\$20,540.00	20%	80%	\$4,108.00	\$16,432.00
39.09	Class II Base Course (12" Thick) (Crushed stone or recycled PCC)	SY	20,196	\$40.00	\$807,840.00	20%	80%	\$161,568.00	\$646,272.00
39.10	Asphalt Concrete	TONS	12,054	\$105.00	\$1,265,670.00	20%	80%	\$253,134.00	\$1,012,536.00
39.11	Asphalt Concrete for Drives, turnouts, misc	TONS	35	\$210.00	\$7,350.00	20%	80%	\$1,470.00	\$5,880.00
				Sub-total =	\$2,434,996.00				
40	Nonplastic Embankment Sand	СҮ	1,785	\$62.25	\$111,116	20%	80%	\$22,223.25	\$88,893.00
40.01	Airline Highway Road Raise (Sand, 12" Min thick)	CY	1,785	\$62.25	\$111,116.25	20%	80%	\$22,223.25	\$88,893.00
			_,	, -	, ,			, ,	, ,
41	Crushed Stone Surfacing	TONS	26,927	\$37.00	\$996,313	100%	0%	\$996,312.77	\$0.00
41.01	Permanent Access Ramp (HW, Phase I, East side)	SY	738	\$37.00	\$27,319.28	100%	0%	\$27,319.28	\$0.00
41.02	Access Road west side (SedBasin, Sta. 16+49 to Sta. 18+12.26), add 3 CY for turns	SY	100	\$37.00	\$3,710.52	100%	0%	\$3,710.52	\$0.00
41.03	Access Road east side (SedBasin, Sta. 15+99.44 to Sta. 18+12.26), add 3 CY for turns	SY	129	\$37.00	\$4,785.85	100%	0%	\$4,785.85	\$0.00
41.04	Levee crown at sedimentation basin (18+12.26 to sta. 26+79.05	SY	1,111	\$37.00	\$41,099.24	100%	0%	\$41,099.24	\$0.00
41.05	Convey Channel: Sedimentation Basin to CN RR	SY	1,061	\$37.00	\$39,242.59	100%	0%	\$39,242.59	\$0.00
41.06	Convey Channel: CN RR to KCS RR	SY	4,621	\$37.00	\$170,985.58	100%	0%	\$170,985.58	\$0.00
41.07	Convey Channel: KCS RR to Airline Hwy	SY	1,439	\$37.00	\$53,257.80	100%	0%	\$53,257.80	\$0.00
41.08	Convey Channel: Airline to WSLP Pump Station	SY	1,970	\$37.00	\$72,879.10	100%	0%	\$72,879.10	\$0.00
41.09	Convey Channel: Pump Station to End of Maurepas Project	SY	15,758	\$37.00	\$583,032.80	100%	0%	\$583,032.80	\$0.00
42	Temporary Access Roads (6" Crushed Stone with Geogrid)	SY	154,099	\$37.00	\$5,701,658	83%	17%	\$4,723,008.00	\$978,650.00
42.01	Temporary Access Ramp at Headworks (Phase I & II)	SY	517	\$37.00	\$19,137.22	100%	0%	\$19,137.22	\$0.00
42.02	Surfacing for Cofferdam Crown (HW)	SY	384	\$37.00	\$14,222.73	100%	0%	\$14,222.73	\$0.00
	Temporary Access ramp west side (Phase V, HW)	SY	144	\$37.00	\$5,332.39	100%	0%	\$5,332.39	\$0.00
42.03				4	ÅE 66E 66	1000/		AF 665 66	¢0.00
42.03 42.04	Temporary Access ramp east side (Phase V, HW)	SY	153	\$37.00	\$5,665.66	100%	0%	\$5,665.66	\$0.00
	Temporary Access ramp east side (Phase V, HW) Temporary Access Road CN to KCS	SY SY	153 33,000	\$37.00 \$37.00	\$5,665.66	50%	50%	\$5,665.66	\$610,500.00

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		Unit of	0			% Maurepas	% WSLP Proj		
item No.	Item Description	Measure	Quantity	Unit Price	Total Price	Proj Cost	Cost	MAUREPAS PRICE	WSLP PRICE
42.07	Temporary Access Road Airline to Pump Station	SY	11,300	\$37.00	\$418,100.00	50%	50%	\$209,050.00	\$209,050.00
42.08	Temporary Access Pump Station to End of Project	SY	100,000	\$37.00	\$3,700,000.00	100%	0%	\$3,700,000.00	\$0.00
			,		, , ,				
43	Pavement Markings	LS	1	\$39,918.45	\$39,918	44%	56%	\$17,515.41	\$22,403.04
	River Road Bypass (Hwy 44)			, ,	17-			, ,	, , , , , , , , , , , , , , , , , , , ,
43.01	Pavement Striping (2 sides)	LF	2,052	\$2.60	\$5,335.20	75%	25%	\$4,001.40	\$1,333.80
43.02	Pavement Striping and Reflectorized Markers	LF	1,026	\$3.50	\$3,591.00	75%	25%	\$2,693.25	\$897.75
	River Road Bypass (Hwy 44) - Phase IV		,	,	· , ,			, ,	<u> </u>
43.03	Pavement Striping, 2 sides (Phase IV)	LF	1,500	\$2.60	\$3,900.00	75%	25%	\$2,925.00	\$975.00
43.04	Pavement Striping and Reflectorized Markers (Phase IV)	LF	750	\$3.50	\$2,625.00	75%	25%	\$1,968.75	\$656.25
	Reconstruct River Road (Hwy 44)			,	\$0.00			, ,	
43.05	Pavement Striping (2 sides)	LF	432	\$2.60	\$1,123.20	75%	25%	\$842.40	\$280.80
43.06	Pavement Striping and Reflectorized Markers	LF	216	\$3.50	\$756.00	75%	25%	\$567.00	\$189.00
	Airline Hwy (US 61) Permanent markings			75.55	Ţ. C 0.00			,	
43.07	Plastic pavement striping (8" width, thermoplastic 125 mil)	LF	175	\$2.60	\$455.00	20%	80%	\$91.00	\$364.00
43.08	Plastic pavement striping (Dotted line) (8" width, 2'L, thermoplastic 125 mil)	LF	241	\$2.60	\$626.60	20%	80%	\$125.32	\$501.28
43.09	Plastic pavement striping (4" width, thermoplastic 90 mil)	MILE	1.7	\$5,798.00	\$9,914.58	20%	80%	\$1,982.92	\$7,931.66
43.10	Plastic pavement striping (Broken line) (4" width, thermoplastic 90 mil)	MILE	0.9	\$5,798.00	\$4,986.28	20%	80%	\$997.26	\$3,989.02
43.11	Plastic pavement legends and symbols (arrow - right turn)	EA	2	\$167.50	\$335.00	20%	80%	\$67.00	\$268.00
43.12	Reflectorized Raised Pavement Markers	EA	123	\$10.33	\$1,270.59	20%	80%	\$254.12	\$1,016.47
43.13	Miscellaneous pavement markings	LS	1	\$5,000.00	\$5,000.00	20%	80%	\$1,000.00	\$4,000.00
	3			Sub-total =	<u>\$39,918.45</u>			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
44	Miscellaneous Roadwork Items	LS	1	\$16,670	\$16,670	20%	80%	\$3,334.04	\$13,336.16
	Airline Highway Road Raise				, 2,2			, , , , , ,	
44.01	U-Channel Post	EA	6	\$112.20	\$673.20	20%	80%	\$134.64	\$538.56
44.02	Hydro-Seeding	ACRE	5.5	\$2,400.00	\$13,200.00	20%	80%	\$2,640.00	\$10,560.00
44.03	SIGN (TYPE A)	SF	25	\$21.80	\$545.00	20%	80%	\$109.00	\$436.00
44.04	SIGN (TYPE B)	SF	32	\$23.50	\$752.00	20%	80%	\$150.40	\$601.60
	Construction Layout	LS	1	\$1,500.00	\$1,500.00	20%	80%	\$300.00	\$1,200.00
			_	Sub-total =	\$16,670.20			700000	
					7-0/0/0/20				
45	Precast Concrete Platform	LS	1	\$68,610	\$68,610	100%	0%	\$68,609.64	\$0.00
45.01	Precast Concrete Platform at Headworks	SF	360	190.63	\$68,609.64	100%	0%	\$68,609.64	\$0.00
46	Chain Link Fence and Gate	LF	1,016	\$62.46	\$63,464	100%	0%	\$63,463.60	\$0.00
	Chainlink fence and gate at Headworks Site		,	, , , , , ,	, ,				
46.01	7' High chainlink fence	LF	128	\$60.00	\$7,680.00	100%	0%	\$7,680.00	\$0.00
46.02	Double swing gate (18')	EA	1	\$2,500.00	\$2,500.00	100%	0%	\$2,500.00	\$0.00
46.03	Fencing (visual buffer at residential areas close to HW) Sta. 26+78.99 to Sta. 35+67.05	LF	888	\$60.00	\$53,283.60	100%	0%	\$53,283.60	\$0.00
2.2 0	5, 11, 11, 11, 11, 11, 11, 11, 11, 11, 1			Unit price =	\$62.46			, -,	

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Item No.	Item Description	Unit of Measure	Quantity	Unit Price	Total Price	% Maurepas Proj Cost	% WSLP Proj Cost	MAUREPAS PRICE	WSLP PRICE
47	Turf Establishment and Maintenance	AC	157	\$5,000.00	\$787,350	74%	26%	\$580,800.00	\$206,550.00
47.01	Turf Establishment, Maurepas Diversion (assumes 60% of the Maurepas clear & grub acreage)	ACRE	116.2	\$5,000.00	\$580,800.00	100%	0%	\$580,800.00	\$0.00
47.02	Turf Establishment, WSLP (assumes 90% of the WSLP clear & grub acreage)	ACRE	41.3	\$5,000.00	\$206,550.00	0%	100%	\$0.00	\$206,550.00
48	Modifications to Existing Utilities	LS	1	\$13,046,200	\$13,046,200	50%	50%	\$6,523,100	\$6,523,100
48.01	EnLink Midstream (Ascension Pipeline)								
	1 ea, 12" Natural Gas (4' deep)	LF	600	\$450.00	\$270,000.00	50%	50%	\$135,000.00	\$135,000.00
48.02	Air Liquide								
	1ea, 12" CS Pipe- Oxygen (36" Dp) between I-10 and Airline Hwy US-61	LF	400	\$450.00	\$180,000.00	50%	50%	\$90,000.00	\$90,000.00
	1ea, 12" CS Pipe- Nitrogen (48-72" Dp) between I-10 and Airline Hwy US-61	LF	400	\$450.00	\$180,000.00	50%	50%	\$90,000.00	\$90,000.00
48.02	Air Products								
	1 ea, 12" CS Pipe - Hydrogen (36" Dp)	LF	400	\$450.00	\$180,000.00	50%	50%	\$90,000.00	\$90,000.00
48.03	Gulf South								
	1ea, 24" Natural Gas (high pressure) (5' deep)	LF	600	\$1,090.50	\$654,300.00	50%	50%	\$327,150.00	\$327,150.00
48.04	Marathon								
	1ea, 20" pipe	LF	600	\$939.00	\$563,400.00	50%	50%	\$281,700.00	\$281,700.00
	1ea, 30" pipe	LF	600	\$1,237.50	\$742,500.00	50%	50%	\$371,250.00	\$371,250.00
48.05	Shell (Bengal & Colonial)								
	1ea, 24" pipe	LF	600	\$1,090.50	\$654,300.00	50%	50%	\$327,150.00	\$327,150.00
	1ea, 24" pipe	LF	600	\$1,090.50	\$654,300.00	50%	50%	\$327,150.00	\$327,150.00
	1ea, 12" pipe	LF	600	\$450.00	\$270,000.00	50%	50%	\$135,000.00	\$135,000.00
48.06	Enterprise (Acadian)								
	1 ea, 4" Natural Gas	LF	400	\$78.00	\$31,200.00	50%	50%	\$15,600.00	\$15,600.00
	1 ea, 6" pipe	LF	400	\$126.00					
	1ea, 12" pipe	LF	600	\$450.00	\$270,000.00	50%	50%	\$135,000.00	\$135,000.00
48.06	Chevron/Texaco								
	1ea, 20" natural gas	LF	400	\$939.00	\$375,600.00	50%	50%	\$187,800.00	\$187,800.00
	2ea, 6" HVL Propane, propylene, butane	LF	800	\$126.00	\$100,800.00	50%	50%	\$50,400.00	\$50,400.00
	1ea, 8" pipe	LF	600	\$183.00	\$109,800.00	50%	50%	\$54,900.00	\$54,900.00
48.07	Reserve Communication								
	2ea, above ground lines on Entergy poles	LS	1	\$100,000.00	\$100,000.00	50%	50%	\$50,000.00	\$50,000.00
48.08	Comcast								
	Size unknown	LS	1	\$100,000.00	\$100,000.00	50%	50%	\$50,000.00	\$50,000.00
48.09	St. John Parish								
	1 ea, water line (size unknown)	LF	400	\$700.00	\$280,000.00	50%	50%	\$140,000.00	\$140,000.00
	1 ea, sewer line (size unknown)	LF	400	\$700.00	\$280,000.00	50%	50%	\$140,000.00	\$140,000.00
48.10	Entergy Transmission								
	Install two high mast poles and reinstall wires	LS	1	\$650,000.00	\$650,000.00	50%	50%	\$325,000.00	\$325,000.00
48.11	Entergy Distribution								
	3 ea lines, 6 ea. Poles	LS	1	\$200,000.00	\$200,000.00	50%	50%	\$100,000.00	\$100,000.00
48.11	Atmos Energy								

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Itaan Na	Have Description	Unit of	O a sabiba			% Maurepas	% WSLP Proj		
item No.	Item Description	Measure	Quantity	Unit Price	Total Price	Proj Cost	Cost	MAUREPAS PRICE	WSLP PRICE
	Pipe size unknown	LS	1	\$100,000.00	\$100,000.00	50%	50%	\$50,000.00	\$50,000.00
48.12	AT&T Fiberoptic								
	1 line underground, size unknown	LS	1	\$100,000.00	\$100,000.00	50%	50%	\$50,000.00	\$50,000.00
48.13	Level 3 (Wittel) Fiberoptic								
	1 line underground, size unknown	LS	1	\$100,000.00	\$100,000.00	50%	50%	\$50,000.00	\$50,000.00
48.14	MCI Fiberoptic								
	1 line underground, size unknown	LS	1	\$100,000.00	\$100,000.00	50%	50%	\$50,000.00	\$50,000.00
48.15	Utility Outage Costs (assume \$200k ea major utility (20) and \$50k ea minor utility(10))	LS	1	\$4,800,000.00	\$4,800,000.00	50%	50%	\$2,400,000.00	\$2,400,000.00
48.16	Unknown Utilities (orig. utilities locations were tabulated in 2011 - assume 4 add'l)	EA	4	\$250,000.00	\$1,000,000.00	50%	50%	\$500,000.00	\$500,000.00
				Sub-total =	<u>\$13,046,200.00</u>				
40	Chausa Dunia Binas	15	420	Ć101 41	¢42.404	1000/	00/	Ć42 404 00	ć0.00
49	Storm Drain Pipes	LF	428	\$101.41	\$43,404	100%	0%	\$43,404.00	\$0.00
49.01	24" Storm RCP Drain Pipes (HW, Phase I), Temporary	LF	124	\$93.00	\$11,532.00	100%	0%	\$11,532.00	\$0.00
49.02	24" Storm RCP Drain Pipes (HW, Phase II), at permanent access ramps	LF	256	\$93.00	\$23,808.00	100%	0%	\$23,808.00	\$0.00
49.03	36" Storm RCP Drain Pipes (HW, Phase III), Temporary	LF Cub Askal	48	\$168.00	\$8,064.00	100%	0%	\$8,064.00	\$0.00
		Sub-total =	<u>428.00</u>	Unit price =	<u>\$101.41</u>				
				4	4	260/	640/	4	4
50	Precast Concrete Box Culverts for New Drainage Ditches	LS	1	\$1,566,438	\$1,566,438	36%	64%	\$560,141.40	\$1,006,296.60
50.04	West Drainage Ditch		447	4057.00	A444 050 00	4.00/	000/	644 406 00	¢400 772 40
	CN RR Crossing, 5'w x 5'h precast box	LF	117	\$957.00	\$111,969.00	10%	90%	\$11,196.90	\$100,772.10
50.02	KCS RR Crossing, 10'w x 5'h precast box	LF	96	\$1,575.00	\$151,200.00	10%	90%	\$15,120.00	\$136,080.00
50.03	Airline Highway Crossing, 10'w x 5'h precast box	LF	187	\$1,575.00	\$294,525.00	10%	90%	\$29,452.50	\$265,072.50
50.04	East Drainage Ditch		4.67	4057.00		500/	F.00/	670 000 50	<u> </u>
	CN RR Crossing, 5'w x 5'h precast box	LF	167	\$957.00	\$159,819.00	50%	50%	\$79,909.50	\$79,909.50
50.05	KCS RR Crossing, 10'w x 5'h precast box	LF	95	\$1,575.00	\$149,625.00	50%	50%	\$74,812.50	\$74,812.50
50.06	Airline Highway Crossing, 10'w x 5'h precast box	LF	444	\$1,575.00	\$699,300.00	50%	50%	\$349,650.00	\$349,650.00
				Sub-total =	<u>\$1,566,438.00</u>				
51	Elastomeric Check Valves, 42" Dia. w/44"x55" Elliptical Cuff	EA	16	\$42,870.00	\$685,920	100%	0%	\$685,920.00	\$0.00
_	Elastomeric Check Valves, 42" Dia. w/44"x55" Elliptical Cuff	EA	16	\$42,870.00	\$685,920.00	100%	0%	\$685,920.00	\$0.00
31.01	Liastomene Check valves, 42 Dia. W/44 X33 Emptical Cum	LA	10	Ş42,670.00	7005,520.00	100%	070	7003,320.00	70.00
52	Elastomeric Check Valves, 36" Diameter	EA	8	\$33,442.00	\$267,536	100%	0%	\$267,536.00	\$0.00
52.01	Elastomeric Check Valves, 36" Dia.	EA	8	\$33,442.00	\$267,536.00	100%	0%	\$267,536.00	\$0.00
53	Drainage Ditch Headwalls	EA	12	\$22,300.00	\$267,600	25%	75%	\$66,900.00	\$200,700.00
53.01	Assume 2 each side of Drainage pipe	EA	12	\$22,300.00	\$267,600.00	25%	75%	\$66,900.00	\$200,700.00
				4000000	4000000	F22/	F00/	****	4400 600 00
54	Railroad Falsework at KCS Railroad	LS	1	\$250,000	\$250,000	50%	50%	\$125,000.00	\$125,000.00
54.01	Railroad Falsework at KCS Railroad	LS	1	\$250,000.00	\$250,000	50%	50%	\$125,000.00	\$125,000.00
55	Railroad Flagman at KCS Railroad	LS	1	\$216,000	\$216,000	50%	50%	\$108,000.00	\$108,000.00
- 33	Train our riuginan at Nes hamoau	LJ	_	7210,000	7210,000	3070	3070	7100,000.00	7100,000.00

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		Unit of				% Maurepas	% WSLP Proj		
Item No.	Item Description	Measure	Quantity	Unit Price	Total Price	Proj Cost	Cost	MAUREPAS PRICE	WSLP PRICE
57.01	Railroad flagmen (assume 2 flagmen for 180 days)	HR	2,880	\$75.00	\$216,000.00	50%	50%	\$108,000.00	\$108,000.00
07.102	Training to the series of the		_,	770.00	+==0,000.00	30,0	3070	¥200,000.00	Ψ 200,000.00
56	Railroad Flagman at CN Railroad	LS	1	\$216,000	\$216,000	50%	50%	\$108,000.00	\$108,000.00
58.01	Railroad flagmen (assume 2 flagmen for 180 days)	HR	2,880	\$75.00	\$216,000.00	50%	50%	\$108,000.00	\$108,000.00
			•						·
57	Railroad Insurance for KCS Railroad	LS	1	\$84,186	\$84,186	50%	50%	\$42,092.91	\$42,092.91
59.01	Contractor's Public Liability and Property Damage Liability		1%	\$2,806,193.72	\$28,061.94	50%	50%	\$14,030.97	\$14,030.97
59.02	Contractor's Protective Public Liability and Property Damage Liability		1%	\$2,806,193.72	\$28,061.94	50%	50%	\$14,030.97	\$14,030.97
59.03	Railroad's Protective Public Liability and Property Damage Liability		1%	\$2,806,193.72	\$28,061.94	50%	50%	\$14,030.97	\$14,030.97
58	Railroad Insurance for CN Railroad	LS	1	\$241,786	\$241,786	50%	50%	\$120,893.10	\$120,893.10
60.01	Contractor's Public Liability and Property Damage Liability		1%	\$8,059,540.18	\$80,595.40	50%	50%	\$40,297.70	\$40,297.70
60.02	Contractor's Protective Public Liability and Property Damage Liability		1%	\$8,059,540.18	\$80,595.40	50%	50%	\$40,297.70	\$40,297.70
60.03	Railroad's Protective Public Liability and Property Damage Liability		1%	\$8,059,540.18	\$80,595.40	50%	50%	\$40,297.70	\$40,297.70
59	Demolition of Existing KCS Railroad Tracks	LS	1	\$182,627	\$182,627	80%	20%	\$146,101.79	\$36,525.45
61.01	Track work Removal (Begin Station 6+50.00 to End Station 24+23.08)	TFT	1,773	\$103.00	\$182,627.24	80%	20%	\$146,101.79	\$36,525.45
60	Demolition of Existing CN Railroad Tracks	LS	1	\$276,040	\$276,040	50%	50%	\$138,020.00	\$138,020.00
62.01	Demolition of Track	TFT	2,680	\$103.00	\$276,040.00	50%	50%	\$138,020.00	\$138,020.00
61	New KCS Railroad Tracks	TFT	1,773	\$1,338.67	\$2,373,566	90%	10%	\$2,139,710	\$233,856
63.01	Track Work (Rails, Ties, Ballast), Begin Station 6+50.00 to End Station 24+23.08	TFT	1,773	\$250.39	\$443,961.50	80%	20%	\$355,169.20	\$88,792.30
63.02	24" Diameter Steel Pipe Pile	LF	2,520	\$380.00	\$957,600.00	100%	0%	\$957,600.00	\$0.00
63.03	Coal Tar Epoxy Paint	SF	2,290	\$1.31	\$2,999.90	100%	0%	\$2,999.90	\$0.00
63.04	Precast Pile Caps and Wing Walls	LF	96	\$779.33	\$74,815.68	100%	0%	\$74,815.68	\$0.00
63.05	Precast Concrete Bridge - Concrete Volume	LF	2,000	\$238.29	\$476,580.00	100%	0%	\$476,580.00	\$0.00
63.06	Handrails, Length =(100.17+3)*2 =206.3'; No. of posts = 52	LF	413	\$189.00	\$77,981.40	100%	0%	\$77,981.40	\$0.00
63.07	PZ27 Sheet Pile	SF	300	\$45.00	\$13,500.00	100%	0%	\$13,500.00	\$0.00
63.09	Backfill	CY	2,000	\$30.00	\$60,000.00	80%	20%	\$48,000.00	\$12,000.00
63.10	Masonry Closure Wall	SF	768	\$21.00	\$16,128.00	50%	50%	\$8,064.00	\$8,064.00
63.11	Removal of falsework	LS	1	\$50,000.00	\$50,000.00	50%	50%	\$25,000.00	\$25,000.00
63.12	Tie to existing tracks	EA	4	\$50,000.00	\$200,000.00	50%	50%	\$100,000.00	\$100,000.00
				Unit price =	\$1,338.67				<u> </u>
62	New CN Railroad Tracks	TFT	1,375	\$4,024.02	\$5,533,028	75%	25%	\$4,123,731.88	\$1,409,296.10
64.08	Track Work (Rails, Ties and Ballast)	TFT	1,375	\$250.39	\$344,286.25	50%	50%	\$172,143.13	\$172,143.13
64.01	Prestressed, Pre-cast Concrete Piles	LF	31,548	\$86.00	\$2,713,128.00	80%	20%	\$2,170,502.40	\$542,625.60
64.02	Concrete for Culvert (includes reinforcing steel, formwork, and expansion joints)	CY	1,716	\$511.00	\$876,876.00	80%	20%	\$701,500.80	\$175,375.20
64.03	Concrete for Culvert Slab (includes reinforcing steel, formwork, and expansion joints)	CY	1,234	\$511.00	\$630,574.00	80%	20%	\$504,459.20	\$126,114.80
64.04	Concrete Stabilization Slab (includes reinforcing steel, formwork, and expansion joints)	CY	185	\$511.00	\$94,535.00	80%	20%	\$75,628.00	\$18,907.00

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Itama Na	Itana Dagawintian	Unit of	Overstitus			% Maurepas	% WSLP Proj		
item ivo.	Item Description	Measure	Quantity	Unit Price	Total Price	Proj Cost	Cost	MAUREPAS PRICE	WSLP PRICE
64.05	Excavation	CY	14,925	\$14.00	\$208,946.63	80%	20%	\$167,157.30	\$41,789.33
64.06	Backfill	CY	12,452	\$30.00	\$373,554.10	50%	50%	\$186,777.05	\$186,777.05
64.07	Masonry Closure Wall	SF	768	\$21.00	\$16,128.00	50%	50%	\$8,064.00	\$8,064.00
64.09	Removal of falsework	LS	1	\$75,000.00	\$75,000.00	50%	50%	\$37,500.00	\$37,500.00
64.10	Tie to existing tracks	EA	4	\$50,000.00	\$200,000.00	50%	50%	\$100,000.00	\$100,000.00
				Unit price =	\$4,024.02				
63	Shoofly at CN Railroad	LS	1	\$2,250,472	\$2,250,472	50%	50%	\$1,125,236.10	\$1,125,236.10
65.01	Rails, Ties, and Ballast	TF	5,630	\$250.39	\$1,409,695.70	50%	50%	\$704,847.85	\$704,847.85
65.02	Turnout	EA	5	\$31,157.50	\$155,787.50	50%	50%	\$77,893.75	\$77,893.75
65.03	Signalization	EA	1	\$6,439.00	\$6,439.00	50%	50%	\$3,219.50	\$3,219.50
65.04	Infrastructure/Controls	EA	1	\$40,000.00	\$40,000.00	50%	50%	\$20,000.00	\$20,000.00
65.05	Track Fill Material	LCY	21,285	\$30.00	\$638,550.00	50%	50%	\$319,275.00	\$319,275.00
				Sub-total =	\$2,250,472.20				
64	Sluice Gates and Hydraulic Operated Valve Actuators	EA	3	\$804,166.67	\$2,412,500	100%	0%	\$2,412,500.00	\$0.00
66.01	Sluice Gates	EA	3	\$287,500.00	\$862,500.00	100%	0%	\$862,500.00	\$0.00
66.02	Hydraulic power unit	EA	3	\$500,000.00	\$1,500,000.00	100%	0%	\$1,500,000.00	\$0.00
66.03	Hydraulic piping	LS	1	\$50,000.00	\$50,000.00	100%	0%	\$50,000.00	\$0.00
				Unit price=	\$804,166.67				
65	Sluice Gates - Dewatering, Manual Operation	EA	6	\$150,000.00	\$900,000	100%	0%	\$900,000.00	\$0.00
67.01	Sluice gates (10'x10'), Riverside end of Headworks C-1	EA	3	\$150,000.00	\$450,000.00	100%	0%	\$450,000.00	\$0.00
67.02	Sluice gates (10'x10'), Channel end of Headworks C-1	EA	3	\$150,000.00	\$450,000.00	100%	0%	\$450,000.00	\$0.00
66	Lateral Release Valve Assemblies	EA	8	\$89,749.53	\$717,996	100%	0%	\$717,996.26	\$0.00
68.01	24" Gate Valves	EA	8	\$25,000.00	\$200,000.00	100%	0%	\$200,000.00	\$0.00
68.02	Valve Box	EA	8	\$500.00	\$4,000.00	100%	0%	\$4,000.00	\$0.00
68.03	Crushed stone, compacted (for valve box)	TONS	31.0	\$30.00	\$931.30	100%	0%	\$931.30	\$0.00
68.04	Excavation for valve box	CY	228	\$14.00	\$3,194.96	100%	0%	\$3,194.96	\$0.00
68.05	4'x4' Grating for valve box (Type W-19-4 (1x3/16) Galvanized)	EA	8	\$40.00	\$320.00	100%	0%	\$320.00	\$0.00
68.06	1' thk. Headwall for pipe on conveyance channel side	EA	8	\$2,500.00	\$20,000.00	100%	0%	\$20,000.00	\$0.00
68.07	Concrete slab (3'x3'x4")	CY	1	\$350.00	\$350.00	100%	0%	\$350.00	\$0.00
68.08	24" steel discharge pipe	LF	560	\$545.00	\$305,200.00	100%	0%	\$305,200.00	\$0.00
68.09	Utility penetration through sheet pile	EA	8	\$5,000.00	\$40,000.00	100%	0%	\$40,000.00	\$0.00
68.10	Sheetpile (PZ-22)	SF	3,200	\$45.00	\$144,000.00	100%	0%	\$144,000.00	\$0.00
				Unit price =	<u>\$89,749.53</u>				
67	Stone Bedding	СҮ	506	\$43.50	\$21,992	100%	0%	\$21,991.67	\$0.00
69.01	12" bedding material at HW (Phase VII)	CY	506	\$43.50	\$21,991.67	100%	0%	\$21,991.67	\$0.00
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		Unit of				% Maurepas	% WSLP Proj		
Item No.	Item Description	Measure	Quantity	Unit Price	Total Price	Proj Cost	Cost	MAUREPAS PRICE	WSLP PRICE
68	Concrete Slope Pavement (6" thick)	SY	3,666	\$115.00	\$421,627	15%	85%	\$62,596.80	\$359,030.00
70.01	Concrete Slope Pavement (Phase VI at HW)	SY	544	\$115.00	\$62,596.80	100%	0%	\$62,596.80	\$0.00
70.02	WSLP River Road Crossing	SY	677	\$115.00	\$77,855.00	0%	100%	\$0.00	\$77,855.00
70.03	WSLP CN RR Crossing	SY	889	\$115.00	\$102,235.00	0%	100%	\$0.00	\$102,235.00
70.04	WSLP KCS RR Crossing	SY	1,556	\$115.00	\$178,940.00	0%	100%	\$0.00	\$178,940.00
69	Diesel-Generator Set Standby	EA	1	\$30,288.00	\$30,288	100%	0%	\$30,288.00	\$0.00
71.01	Diesel Generator set standby	EA	1	\$30,288.00	\$30,288.00	100%	0%	\$30,288.00	\$0.00
70	Flow Measuring Equipment System	LS	1	\$50,000	\$50,000	100%	0%	\$50,000.00	\$0.00
72.01	Flow measure and water quality equipment	LS	1	50,000	\$50,000.00	100%	0%	\$50,000.00	\$0.00
71	Boat Launch and Dock	LS	1	\$128,011	\$128,011	50%	50%	\$64,005.66	\$64,005.66
73.01	Concrete Ramp Planks	CY	8	\$1,045.00	\$8,592.22	50%	50%	\$4,296.11	\$4,296.11
73.02	Crushed Stone Surfacing	TONS	56.3	\$37.00	\$2,082.96	50%	50%	\$1,041.48	\$1,041.48
73.03	Floating Dock	EA	1	\$35,000.00	\$35,000.00	50%	50%	\$17,500.00	\$17,500.00
	Rip-Rap	TONS	103.2	\$71.10	\$7,336.14	50%	50%	\$3,668.07	\$3,668.07
73.05	Marine grade wood retaining wall	LS	1	\$75,000.00	\$75,000.00	50%	50%	\$37,500.00	\$37,500.00
				Sub-Total =	\$128,011.32				
						% Maurepas Proj Cost	% WSLP Proj Cost	MAUREPAS PRICE	WSLP PRICE
		Subtotal			\$155,735,981	70%	30%	\$108,695,758	\$47,040,223
		Project Escala	tion 2.9%/yr =	5.90%	\$9,188,423	70%	30%	\$6,413,050	\$2,775,373
		Subtotal			\$164,924,404	70%	30%	\$115,108,808	\$49,815,596
		Estimate Unc	ertainty Contingency =	35%	\$57,723,541	70%	30%	\$40,288,083	\$17,435,459
		Total Constru	ction Cost =		\$222,647,946	70%	30%	\$155,396,891	\$67,251,055
		Changes & Cla	aims =	5%	\$11,132,397	70%	30%	\$7,769,845	\$3,362,553
		Resident Insp	ect, Testing, etc. =	4%	\$8,905,918	70%	30%	\$6,215,876	\$2,690,042
		Engr Svcs Dur	ing Const.=	2%	\$4,452,959	70%	30%	\$3,107,938	\$1,345,021
				Grand Total =	<u>\$247,139,220</u>	<u>70%</u>	<u>30%</u>	<u>\$172,490,549</u>	<u>\$74,648,671</u>

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ltem No.	Item Description	Unit of Measure	Quantity	Unit Price	Total Price
1	Mobilization and Demobilization	LS	1	\$3,135,439	\$3,135,439
1.01	Mobilization		\$31,354,391.72	6%	\$1,881,263.50
1.02	Demobilization		\$31,354,391.72	4%	\$1,254,175.67
					, , ,
2	Temporary Retaining Structures	LS	0	\$11,990,371	\$0
					•
3	Traffic Control and Coordination	LS	1	\$52,520	\$52,520
	Airline Hwy (US 61), main access point to construction site				
3.23	End Road Work (G20-2, 48"X24")	SF	32	\$34.00	\$1,088.00
3.24	Road Work Ahead (W20-1, 48"X48")	SF	4	\$34.00	\$136.00
3.25	Speed Limit 55 MPH (W3-5, 48"X48")	SF	64	\$34.00	\$2,176.00
3.26	Speed Limit 55 MPH (R2-1, 36"X48")	SF	48	\$34.00	\$1,632.00
3.27	Lane shift ahead (W20-1, 48"x48")	SF	64	\$34.00	\$2,176.00
3.28	Lane shift arrow (W1-4bR, 48"x48")	SF	48	\$34.00	\$1,632.00
3.29	Type III Road Closed Barricade (R11-2, 48"X30")	EA	2	\$500.00	\$1,000.00
3.34	Flagmen (assume 4 men @ 8hrs/day, 20 days)	HR	640	\$12.00	\$7,680.00
3.35	Misc. Traffic Control for mob/demob, other activities off of Airline Highway	LS	1	\$35,000.00	\$35,000.00
	· ,			Sub-total =	\$52,520.00
4	Silt Fences	LF	72,832	\$3.50	\$254,912
4.02	Silt Fence (2 sides of ROW, STA 132+00 to end of Convey. Channel, includes 1 replacement)	LF	67,832	\$3.50	\$237,412.00
4.03	Miscellaneous location (add 5, 000 LF)	LF	5,000	\$3.50	\$17,500.00
		Sub-Total =	<u>72,832</u>		
5	Turbidity Curtain	LF	0	\$10.00	\$0
6				¢127 021	COFF 660
	Truck Wash Down Racks	LS	2	\$127,831	\$255,663
6.01	3" Asphalt Pavement (Grade 1)	TONS	106.9	\$140.00	\$14,962.50
6.01 6.02	3" Asphalt Pavement (Grade 1) Prime Coat (Type MC-30)	TONS SY	106.9 633	\$140.00 \$0.30	\$14,962.50 \$190.00
6.01	3" Asphalt Pavement (Grade 1) Prime Coat (Type MC-30) 12" Crushed Stone Surfacing	TONS SY SY	106.9 633 928	\$140.00 \$0.30 \$37.00	\$14,962.50 \$190.00 \$34,321.57
6.01 6.02	3" Asphalt Pavement (Grade 1) Prime Coat (Type MC-30) 12" Crushed Stone Surfacing Geotextile Fabric	TONS SY SY SY	106.9 633	\$140.00 \$0.30 \$37.00 \$4.00	\$14,962.50 \$190.00
6.01 6.02 6.03 6.04 6.05	3" Asphalt Pavement (Grade 1) Prime Coat (Type MC-30) 12" Crushed Stone Surfacing Geotextile Fabric Floor Grating (60'L x 20'W)	TONS SY SY SY SY SF	106.9 633 928	\$140.00 \$0.30 \$37.00 \$4.00 \$1.00	\$14,962.50 \$190.00 \$34,321.57 \$3,866.67 \$1,200.00
6.01 6.02 6.03 6.04 6.05	3" Asphalt Pavement (Grade 1) Prime Coat (Type MC-30) 12" Crushed Stone Surfacing Geotextile Fabric	TONS SY SY SY	106.9 633 928 967	\$140.00 \$0.30 \$37.00 \$4.00 \$1.00 \$150,000.00	\$14,962.50 \$190.00 \$34,321.57 \$3,866.67 \$1,200.00 \$150,000.00
6.01 6.02 6.03 6.04 6.05	3" Asphalt Pavement (Grade 1) Prime Coat (Type MC-30) 12" Crushed Stone Surfacing Geotextile Fabric Floor Grating (60'L x 20'W)	TONS SY SY SY SY SF	106.9 633 928 967 1,200	\$140.00 \$0.30 \$37.00 \$4.00 \$1.00	\$14,962.50 \$190.00 \$34,321.57 \$3,866.67 \$1,200.00
6.01 6.02 6.03 6.04	3" Asphalt Pavement (Grade 1) Prime Coat (Type MC-30) 12" Crushed Stone Surfacing Geotextile Fabric Floor Grating (60'L x 20'W)	TONS SY SY SY SY SF	106.9 633 928 967 1,200	\$140.00 \$0.30 \$37.00 \$4.00 \$1.00 \$150,000.00	\$14,962.50 \$190.00 \$34,321.57 \$3,866.67 \$1,200.00 \$150,000.00
6.01 6.02 6.03 6.04 6.05 6.05	3" Asphalt Pavement (Grade 1) Prime Coat (Type MC-30) 12" Crushed Stone Surfacing Geotextile Fabric Floor Grating (60'L x 20'W) Maintenance (power washing equipment, water supplied by tankers, labor, etc)	TONS SY SY SY SY LS	106.9 633 928 967 1,200	\$140.00 \$0.30 \$37.00 \$4.00 \$1.00 \$150,000.00 Sub-total =	\$14,962.50 \$190.00 \$34,321.57 \$3,866.67 \$1,200.00 \$150,000.00 \$127,831.47





Item No.	Item Description	Unit of Measure	Quantity	Unit Price	Total Price
9	Structural Concrete	CY	0	\$650.00	\$0
10	Chability Alian Clab Caramata	OV.	•	Ć450.00	ćo
10	Stabilization Slab Concrete	СҮ	0	\$450.00	\$0
11	Structural Steel	LS	0	\$327,000	\$0
12	Miscellaneous Metalwork	LS	0	\$60,560	\$0
13	Metal Railings	LS	0	\$27,000	\$0
14	Steel Doors and Frames	LS	0	\$8,000	\$0
15	Paints and Coatings	SF	0	\$3.55	\$0
16	Painting: Coal Tar Epoxy System	SF	0	\$5.00	\$0
17	Project Signage at Road Crossings	EA	2	\$500.00	\$1,000
17.01	Assume 2 Project Signs at Airline Hwy, including installation costs	EA	2	\$500.00	\$1,000.00
18	Foundation Instrumentation	LS	0	\$0	\$0
19	Electrical Work at Head Works	LS	0	\$108,313	\$0
20	Separator Geotextile	SY	49,378	\$4.00	\$197,513
20.01	Geotextile fabric (under access roads through swamp construction areas)	SY	49,000.00	\$4.00	\$196,000.00
20.02	Geotextile fabric (discharge box for lateral release valves)	SY	77.38	\$4.00	\$309.51
20.03	Geotextile fabric (weirs)	SY	300.83	\$4.00	\$1,203.33
21	Geogrid Soil Reinforcement	SY	49,000	\$1.70	\$83,300
21.05	Convey Channel: Airline to WSLP Pump Station	SY	7,600	\$1.70	\$12,920.00
21.06	Convey Channel: Pump Station to End of Maurepas Project	SY	41,400	\$1.70	\$70,380.00
22	Clearing and Grubbing	LS	1	\$6,462,400	\$6,462,400
22.01	Clearing and Grubbing, Maurepas Diversion (300' ROW)				
	Airline Hwy Crossing to WSLP-114 Pump Station (all wooded, unit price doubled)	ACRE	11.80	\$20,000.00	\$236,000.00
	WSLP-114 Pump Station to end of Convey. Channel (all wooded, unit price doubled)	ACRE	117.00	\$20,000.00	\$2,340,000.00
22.04	Tree Stump Removal and Backfill voids w/ excavated material (assume 20% of the area)	ACRE	25.76	\$15,000.00	\$386,400.00
22.05	Disposal of trees, stumps and debris offsite, access allowance (assumes 70% of total Project cost)	LS	1.00	\$3,500,000.00	\$3,500,000.00
				Sub-Total =	\$6,462,400.00





Item No.	Item Description	Unit of Measure	Quantity	Unit Price	Total Price
23	Excavation	СУ	509,777	\$14.00	\$7,136,883
23.12	Convey Channel: Pump Station to End of Maurepas Project	CY	500,000	\$14.00	\$7,000,000.00
23.14	Embankment cuts	СУ	4,777	\$14.00	\$66,882.76
23.17	Miscellaneous	CY	5,000	\$14.00	\$70,000.00
			-,	,	, ,
24	Dewatering	LS	0	\$0	\$0
25	Embankment, Compacted Fill	СУ	269,000	\$30.00	\$8,070,000
25.11	Pump Station to End of Maurepas Project (increased 60% to account for settlement losses)	CY	264,000	\$30.00	\$7,920,000.00
25.13	Miscellaneous Fill	СҮ	5,000	\$30.00	\$150,000.00
26	Fiber Mulch	СҮ	0	\$194.00	\$0
27	Riprap (Class 30 lb)	СҮ	0	\$110.00	\$0
					_
28	Riprap (Class 55 lb)	СҮ	0	\$150.00	\$0
20	D' (Ol 420 lk.)	01/	247	Ć4.C0.00	644 450
29	Riprap (Class 130 lb)	CY	247	\$168.00	\$41,469
29.01	Riprap for Weirs at Bayou Secret and Bourgeois Canal	CY	247	\$168.00	\$41,469.12
30	Riprap (Class 250 lb)	СҮ	0	\$200.00	\$0
30	Kipi ap (Class 250 lb)	Ci	<u> </u>	7200.00	ŢŪ
31	Grouted Riprap	SY	0	\$207.00	\$0
<u> </u>		J.	<u> </u>	4207100	Ţ-
32	Steel Sheet Piling, Type PZ-22	SF	0	\$45.00	\$0
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33	Prestressed Concrete Piles, Type 24"x24"	LF	0	\$160.00	\$0
34	Pile Load Tests	LS	0	\$0	\$0
35	Steel H-Piles, HP 14 x 73	LF	0	\$89.00	\$0
36	Steel H-Piles, HP 14 x 89	LF	0	\$102.00	\$0
37	Steel H-Piles, HP 16 x 101	LF	0	\$130.00	\$0
38	Timber Piles, 12" Diameter	LF	0	\$48.00	\$0
39	Asphaltic Pavement	LS	0	\$2,434,996	\$0





tem No.	Item Description	Unit of Measure	Quantity	Unit Price	Total Price
40	Nonplastic Embankment Sand	СҮ	0	\$62.25	\$0
41	Crushed Stone Surfacing	TONS	20,485	\$37.00	\$757,960
41.09	Convey Channel: Pump Station to End of Maurepas Project (increased 30% for losses in swamp)	SY	20,485	\$37.00	\$757,959.80
42	Temporary Access Roads (6" Crushed Stone with Geogrid)	SY	133,560	\$37.00	\$4,941,720
42.07	Temporary Access Road Airline to Pump Station (increased 20% for losses in swamp)	SY	13,560	\$37.00	\$501,720.00
42.08	Temporary Access Pump Station to End of Project (increased 20% for losses in swamp)	SY	120,000	\$37.00	\$4,440,000.00
43	Pavement Markings	LS	0	\$39,918.45	\$0
44	Miscellaneous Roadwork Items	LS	0	\$16,670	\$0
45	Precast Concrete Platform	LS	0	\$191	\$0
46	Chain Link Fence and Gate	LF	0	\$0.00	\$0
47	Turf Establishment and Maintenance	AC	77	\$5,000.00	\$386,400
47.01	Turf Establishment, Maurepas Diversion (assumes 60% of the Maurepas clear & grub acreage)	ACRE	77.3	\$5,000.00	\$386,400.00
48	Modifications to Existing Utilities	LS	1	\$866,200	\$866,200
48.02	Air Products				
	1 ea, 12" CS Pipe - Hydrogen (36" Dp)	LF	400	\$450.00	\$180,000.00
48.06	Chevron/Texaco				
	1ea, 20" natural gas	LF	400	\$939.00	\$375,600.00
	2ea, 6" HVL Propane, propylene, butane	LF	800	\$126.00	\$100,800.00
	1ea, 8" pipe	LF	600	\$183.00	\$109,800.00
48.12	AT&T Fiberoptic				
	1 line underground, size unknown	LS	1	\$100,000.00	\$100,000.00
				Sub-total =	<u>\$866,200.00</u>
49	Storm Drain Pipes	LF	0	\$101.41	\$0
50	Precast Concrete Box Culverts for New Drainage Ditches	LS	0	\$0	\$0
51	Elastomeric Check Valves, 42" Dia. w/44"x55" Elliptical Cuff	EA	16	\$42,870.00	\$685,920
51.01	Elastomeric Check Valves, 42" Dia. w/44"x55" Elliptical Cuff	EA	16	\$42,870.00	\$685,920.00
52	Elastomeric Check Valves, 36" Diameter	EA	8	\$33,442.00	\$267,536
52.01	Elastomeric Check Valves, 36" Dia.	EA	8	\$33,442.00	\$267,536.00





tem No.	Item Description	Unit of Measure	Quantity	Unit Price	Total Price
53	Drainage Ditch Headwalls	EA	0	\$22,300.00	\$0
54	Railroad Falsework at KCS Railroad	LS	0	\$250,000	\$0
					<u> </u>
55	Railroad Flagman at KCS Railroad	LS	0	\$216,000	\$0
F.C.	Deilys of Flaggers at CN Deilys of	16	•	¢24.6.000	Ć0.
56	Railroad Flagman at CN Railroad	LS	0	\$216,000	\$0
57	Railroad Insurance for KCS Railroad	LS	0	\$0	\$0
	Namodu msurance for RCS Ramodu		<u> </u>	ŢŪ	γo
58	Railroad Insurance for CN Railroad	LS	0	\$0	\$0
			<u> </u>	7-	,
59	Demolition of Existing KCS Railroad Tracks	LS	0	\$182,627	\$0
60	Demolition of Existing CN Railroad Tracks	LS	0	\$276,040	\$0
61	New KCS Railroad Tracks	TFT	0	\$0.00	\$0
62	New CN Railroad Tracks	TFT	0	\$4,024.02	\$0
				4	
63	Shoofly at CN Railroad	LS	0	\$2,250,472	\$0
CA	Chrise Cates and Hadraulia Operated Value Astrophys	FA.	^	\$904.166.67	\$0
64	Sluice Gates and Hydraulic Operated Valve Actuators	EA	0	\$804,166.67	ŞU
65	Sluice Gates - Dewatering, Manual Operation	EA	0	\$150,000.00	\$0
	States dates Dematering, Manual Operation			ψ 230)000:00	+-
66	Lateral Release Valve Assemblies	EA	8	\$89,749.53	\$717,996
68.01	24" Gate Valves	EA	8	\$25,000.00	\$200,000.00
68.02	Valve Box	EA	8	\$500.00	\$4,000.00
68.03	Crushed stone, compacted (for valve box)	TONS	31.0	\$30.00	\$931.30
68.04	Excavation for valve box	CY	228	\$14.00	\$3,194.96
68.05	4'x4' Grating for valve box (Type W-19-4 (1x3/16) Galvanized)	EA	8	\$40.00	\$320.00
68.06	1' thk. Headwall for pipe on conveyance channel side	EA	8	\$2,500.00	\$20,000.00
68.07	Concrete slab (3'x3'x4")	CY	1	\$350.00	\$350.00
68.08	24" steel discharge pipe	LF	560	\$545.00	\$305,200.00
68.09	Utility penetration through sheet pile	EA	8	\$5,000.00	\$40,000.00
68.10	Sheetpile (PZ-22)	SF	3,200	\$45.00	\$144,000.00
				Unit price =	\$89,749.53
67	Stone Bedding	CY	0	\$43.50	\$0
- 07	Stone Deading	Ci	J	γ - 3.30	70





Item No.	Item Description	Unit of Measure	Quantity	Unit Price	Total Price
68	Concrete Slope Pavement (6" thick)	SY	0	\$115.00	\$0
69	Diesel-Generator Set Standby	EA	0	\$30,288.00	\$0
70	Flow Measuring Equipment System	LS	0	\$50,000	\$0
71	Boat Launch and Dock	LS	0	\$128,011	\$0
		Subtotal			\$34,489,831
		Project Escal	ation 2.9%/yr =	5.90%	\$2,034,900
		Subtotal			\$36,524,731
		Estimate Un	certainty Contingency =	35%	\$12,783,656
		Total Constr	uction Cost =		\$49,308,387
		Resident Inspect, Testing, etc. = 49		5%	\$2,465,419
				4%	\$1,972,335
				2%	\$986,168
				rsion Phase 1 =	<u>\$54,732,309</u>

STATE OF LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY

RIVER REINTRODUCTION INTO MAUREPAS SWAMP AND WEST SHORE LAKE PONTCHARTRAIN FLOOD RISK REDUCTION PROJECT PO-0029 STATE PROJECT No. PO-0062 LaGOV NO. 4400019214

> BASIS OF DESIGN REPORT 15% DESIGN

APPENDIX G UTILITY DISPOSITION REPORT

STATE OF LOUISIANA **COASTAL PROTECTION AND RESTORATION AUTHORITY**

RIVER REINTRODUCTION INTO MAUREPAS SWAMP AND WEST SHORE LAKE PONTCHARTRAIN FLOOD RISK **REDUCTION PROJECT PO-0029 STATE PROJECT No. PO-0062** LaGOV NO. 4400019214

UTILITIES DISPOSITION REPORT 15% DESIGN



Prepared By: **AECOM Technical Services** 7389 Florida Blvd. Suite 300 Baton Rouge, LA 70806

December 2020

Rev	Date	Description
0	2020	Draft Submittal

River Reintroduction into Maurepas Swamp And West Shore Lake Pontchartrain Flood Risk Reduction Project Po-0029

UTILITIES DISPOSITION REPORT

1. Introduction

The proposed alignment for the Maurepas freshwater diversion channel stretches 5 ½ miles from the Mississippi River to deep within the Maurepas Swamp. Parallel and immediately adjacent to the Maurepas Diversion is the WSLP flood protections features, consisting of an earthen tie-in to the Mississippi River levee, a gated crossing at River Road, a combination of levees and structural floodwalls throughout the alignment, gated crossings at both the CN and KCS railroads, a raised crossing of Airline Highway, and a tie-in to the levee at WSLP Reach 110. Due to the length of the proposed construction, the project intersects numerous utility and industrial product pipeline rights-of-way. In order to construct the project, these utilities and other infrastructure components must be relocated to positions that will not adversely affect the construction process.

2. Coordination

During the Preliminary Design of the Maurepas Diversion/WSLP, the Project Team issued requests to each of the utility companies with services in the area of the proposed diversion and flood protection to provide the means by which they preferred their utilities to be relocated. The options included:

- To be relocated by Owner before construction
- To be relocated by Owner during construction
- To be relocated by Contractor before construction
- To be relocated by Contractor during construction

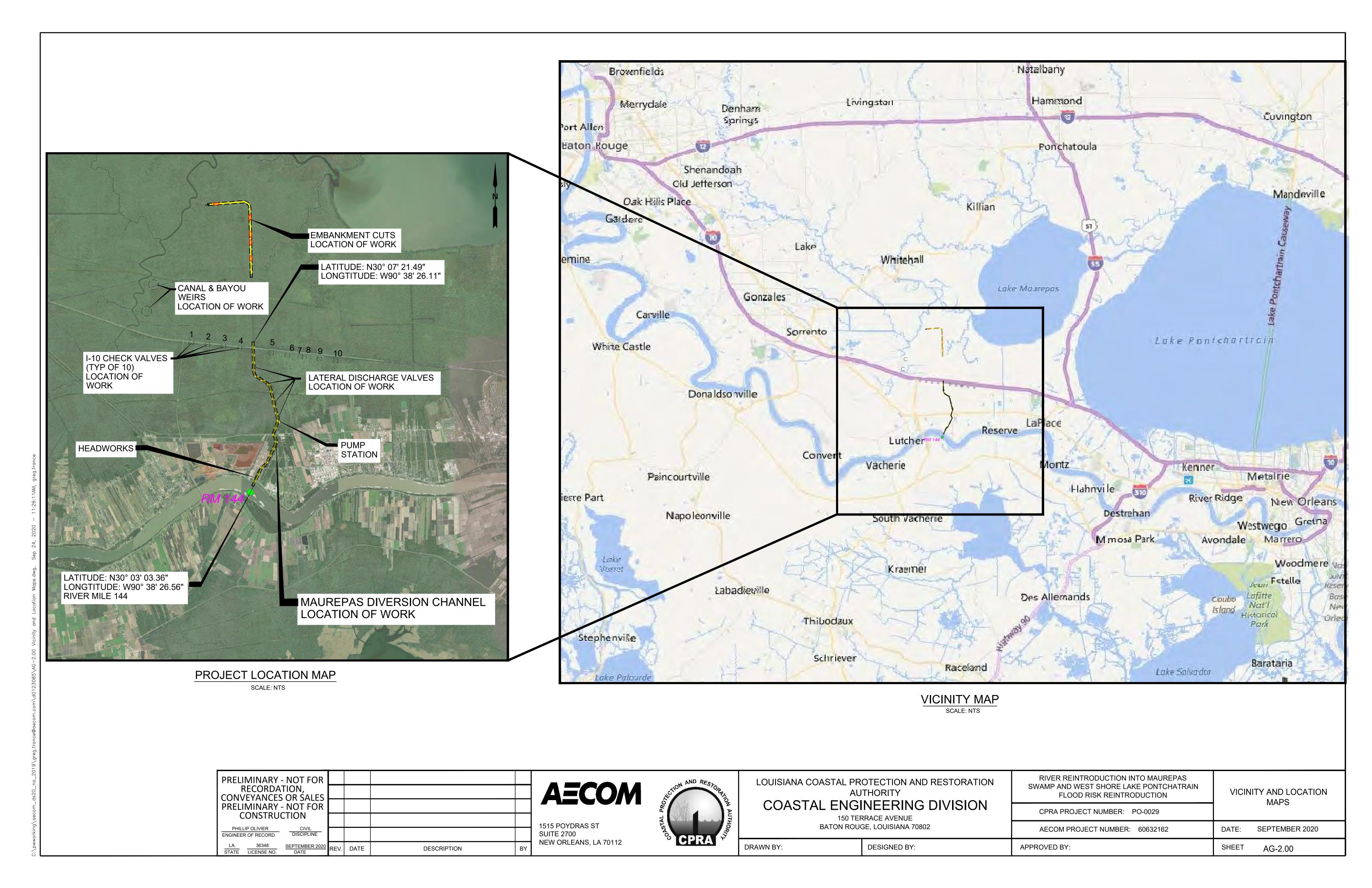
The utilities were identified from field reconnaissance, historical surveys, maps, and records, as well as information provided direction from the utility companies. A list of the companies as well as their relocation disposition is included in Appendix X.

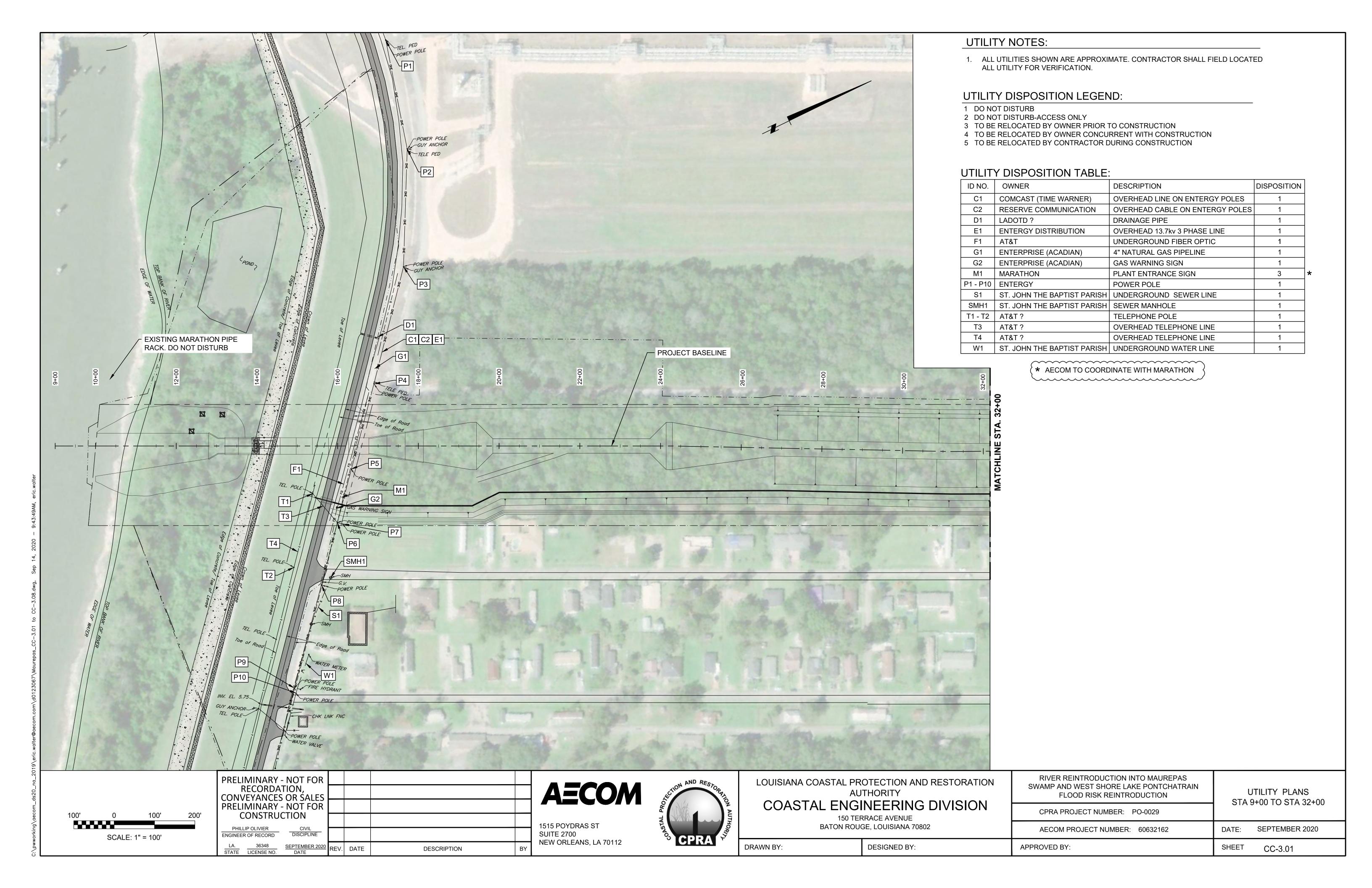
There are multiple key locations along the proposed channel and levee that have numerous utilities and/or product lines which intersect the proposed alignment. These locations include, but are not limited to, LA 44, Canadian National Railroad, Kansas City Southern Railroad, US 61 and I-10. In addition, there are also 2 major pipeline corridors, one just South of US 61 and the other between US 61 and I-10. Refer to the 15% Design drawings for the locations of the utilities (Sheets UD-1.00 through UD-1.08).

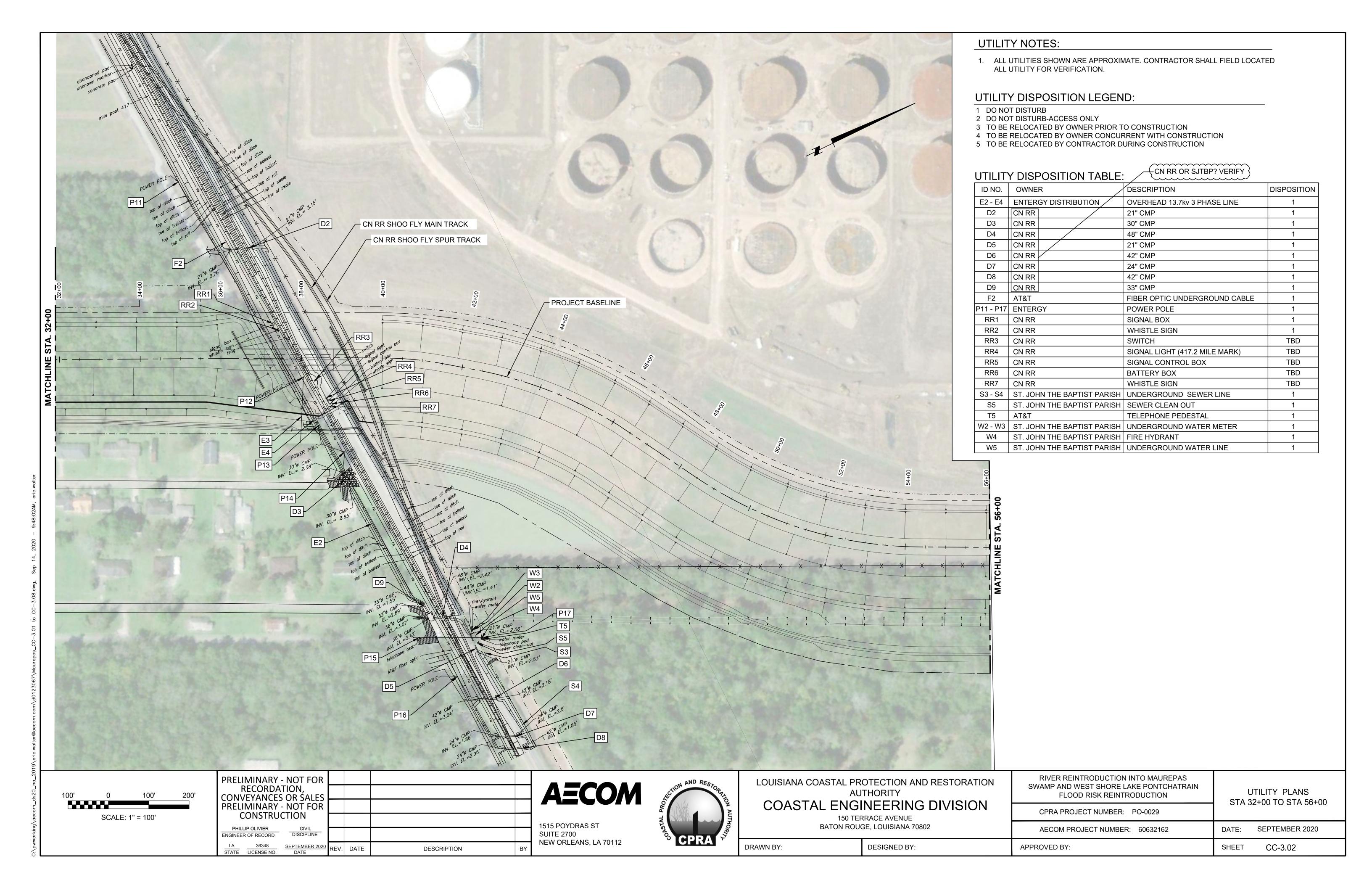
The Project Team attempted to contact all companies with identified utilities or product lines in the proposed alignment right-of-way via telephone on several occasions. At the time of this writing, a point of contact (POC) has not been established for all utility companies. The POC for these companies is designated as TBD and their utilities disposition is assumed at this time. For the companies with an established POC, an email describing the project with drawings depicting the utility in conflict was sent requesting them to review the plans, confirm ownership of their utilities, provide information on about the utilities, and confirm disposition of the relocation efforts.

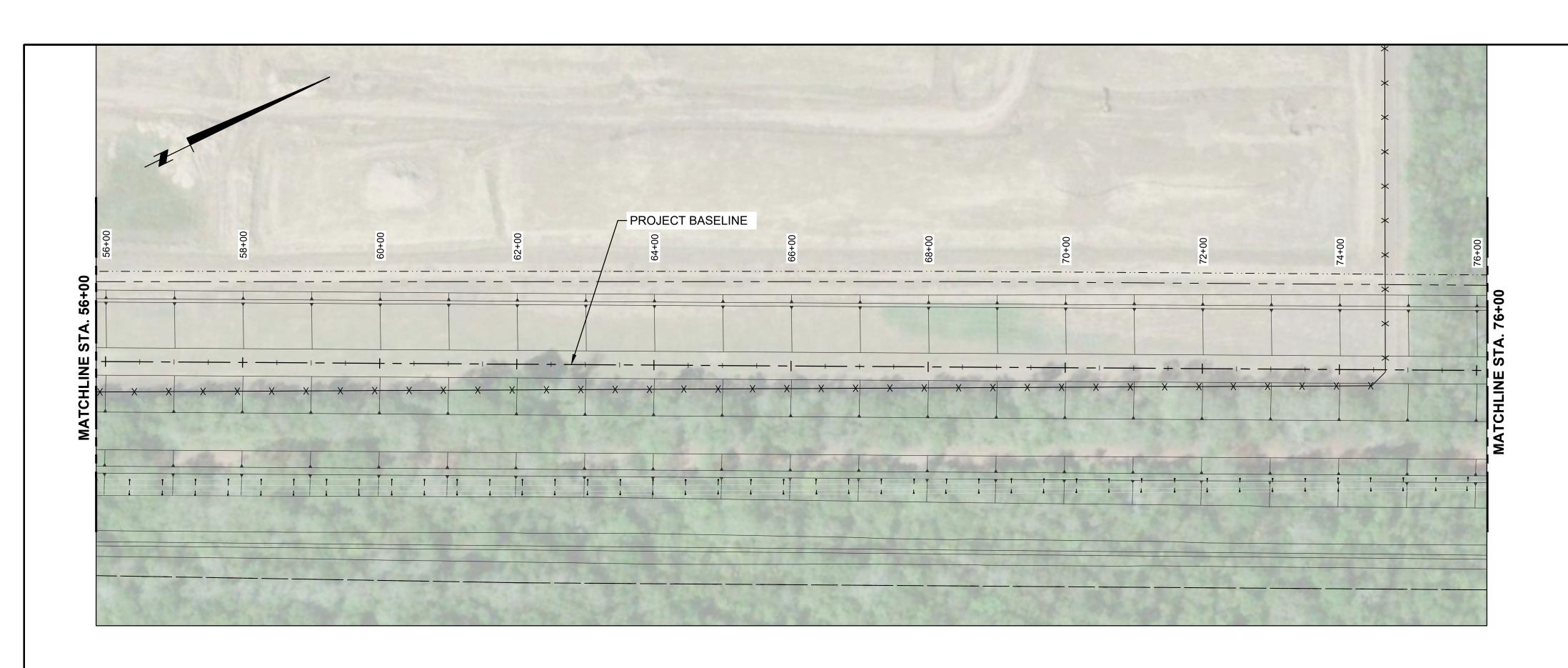
UTILITY OWNER	UTILITY ID	UTILITY DESCRIPTION	DISPOSITION	POINT OF CONTACT	PHONE	EMAIL	
AT&T	F9	Underground Fiber Optic	To be relocated by Owner during Construction	Steve Degrave	770-331-3868	sd218b@att.com	
Bengal Gas	G5	Gas Pipeline	To be relocated by Owner prior to Construction	Young Yim		young.yim@shell.com	
EnLink Midstream, LLC (Ascension)	G10	Gas Pipeline	To be relocated by Owner prior to Construction	James Reynolds	337-354-1718	James.Reynolds@enlink.com	
Fatour Tunnaniaia	P1-P32	Power Pole	To be relocated by Owner prior	Jimmy Sholar	504-615-5540	iah alau Qaatauru aana	
Entergy Transmission	E3-E5	Overhead 115kV and 230kV	to Construction	Jimmy Shoiar	504-615-5540	jsholar@entergy.com	
Entergy Distribution E1-E4, E6-E7		Overhead 13.7kV 3 Phase line	To be relocated by Owner prior to Construction	Winda Christophe	504-840-2594	wgibson@entergy.com	
Enterprise Products	G7	Gas Pipeline Marker	To be relocated by Owner prior	Mark Dickey	225-675-2510	mwdickey@eprod.com	
	G8	Gas Pipeline	to Construction	manic Dieney	223 073 2310	uickey <u>C epi ouico</u>	
Enterprise (Acadian)	G1	4" Natural Gas Pipeline	To be relocated by Owner prior	Rory Hebert			
Litter prise (Acadian)	G2	Gas Warning Sign	to Construction	Nory Hebert			
Reserve Communication	C2	Overhead line on Entergy Poles	To be relocated by Owner prior to Construction	Barry Firmin	985-966-3476	bfirmin@reservetele.com	
	S1, S3-S4	Underground Sewer Line			Office:		
	SMH1, S6	Sewer Manhole					
Ct. John the Doutist Douish	S5	Sewer Clean Out	To be relocated by Contractor	Reed Alexander	985-651-6800		
St. John the Baptist Parish	W1-W3, W5-W6	Underground Water Line	during Construction	Reed Alexander	Cell: 504-457-1219	<u>r.alexander@stjohn-la.gov</u>	
	W4, W7-W8	Fire Hydrant					
	W9-W10	Water Meter					
Air Products	G12	Gas Pipeline	To be relocated by Owner prior to Construction	Bubba	225-571-5692	leblanwc@airproducts.com	

UTILITY OWNER	UTILITY ID	UTILITY DESCRIPTION	DISPOSITION	POINT OF CONTACT	PHONE	EMAIL
	F1	Underground Fiber Optic				
	T1-T2	Telephone Pole	To be relocated by Owner during			
AT&T Distribution	T3-T4, T6	Overhead Telephone Line	To be relocated by Owner during Construction	TBD		
	F2	Underground Fiber Optic	Construction			
	T5	Telephone Pedestal				
Chevron/Texaco	G9, G11-G12	Gas Pipeline	To be relocated by Owner prior	TBD		
Chevion, rexact	G10	Gas Pipeline Marker	to Construction	180		
Comcast	C1	Overhead line on Entergy Poles	To be relocated by Owner during Construction	TBD		
	G3-G5	Gas Pipeline Marker				
Gulf South	G6	Gas Pipeline	To be relocated by Owner prior to Construction	TBD		
Marathon	G6-G7	Gas Pipeline	To be relocated by Owner prior to Construction	TBD		
MCI	F4	Underground Fiber Optic	To be relocated by Owner during	TBD		
IVICI	F5	Fiber Optic Hand Hole	Construction	עסו		
	F5	Underground Fiber Optic				
Wiltel	F6-F7	Fiber Optic Sign	To be relocated by Owner during Construction	TBD		
	F8	Fiber Optic Pole	30			









1. ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD LOCATED ALL UTILITY FOR VERIFICATION.

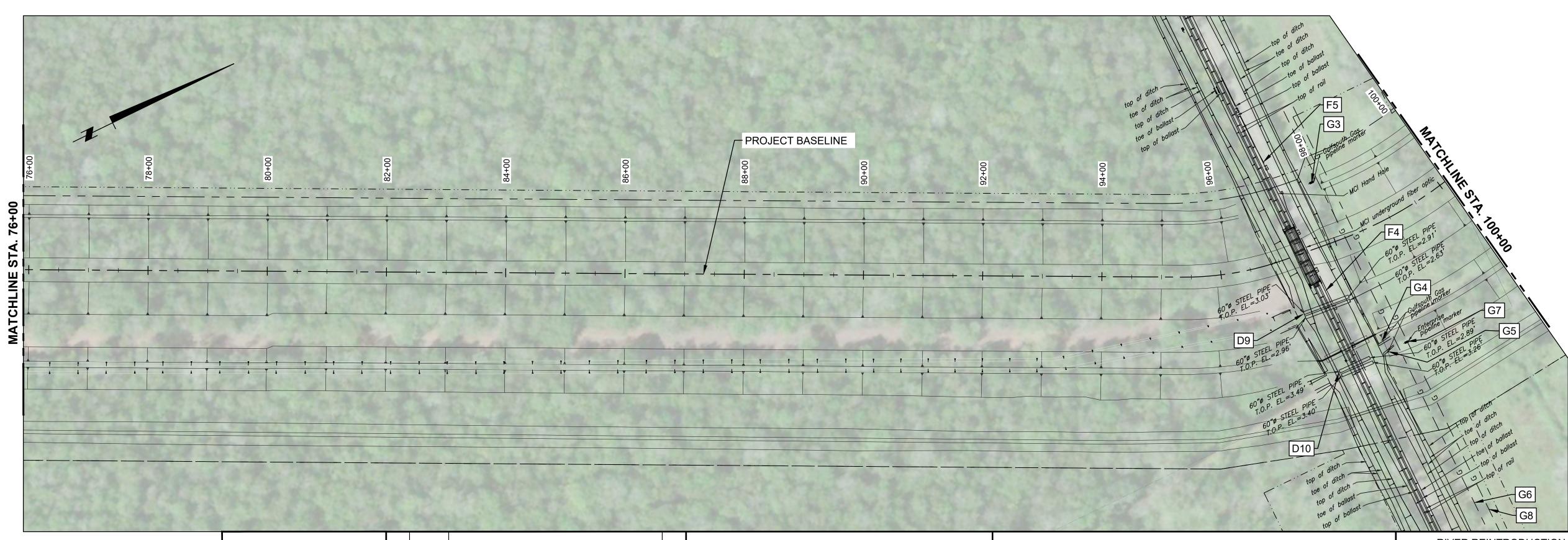
UTILITY DISPOSITION LEGEND:

- 1 DO NOT DISTURB
- 2 DO NOT DISTURB-ACCESS ONLY
- 3 TO BE RELOCATED BY OWNER PRIOR TO CONSTRUCTION
- 4 TO BE RELOCATED BY OWNER CONCURRENT WITH CONSTRUCTION
- 5 TO BE RELOCATED BY CONTRACTOR DURING CONSTRUCTION

UTILITY DISPOSITION TABLE:

	ID NO.	OWNER	DESCRIPTION	DISPOSITION
	D9	ST. JOHN THE BAPTIST PARISH	UNDERGROUND (2) 60"Ø STL DRAIN LINE	5
	D10	ST. JOHN THE BAPTIST PARISH	UNDERGROUND (2) 60"Ø STL DRAIN LINE	5
	F4	MCI	FIBER OPTIC UNDERGROUND CABLE	1
	F5	MCI	FIBER OPTIC HAND HOLE	1
	G3 - G5	GULFSOUTH (ACADIAN)	GAS PIPELINE MARKER	3
*	G6	GULFSOUTH (ACADIAN)	GAS PIPELINE	1
	G7	ENTEPPRISE	GAS PIPELINE MARKER	3
*	G8	ENTEPPRISE	GAS PIPELINE	1

______ * VERIFY PIPELINE LOCATION



SCALE: 1" = 100'

PRELIMINARY - NOT FOR RECORDATION, CONVEYANCES OR SALES PRELIMINARY - NOT FOR **AECOM** CONSTRUCTION 1515 POYDRAS ST PHILLIP OLIVIER SUITE 2700 NEW ORLEANS, LA 70112 DESCRIPTION

LOUISIANA COASTAL PROTECTION AND RESTORATION **AUTHORITY**

COASTAL ENGINEERING DIVISION

150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802

RIVER REINTRODUCTION INTO MAUREPAS SWAMP AND WEST SHORE LAKE PONTCHATRAIN UTILITY PLANS FLOOD RISK REINTRODUCTION STA 56+00 TO STA 100+00 CPRA PROJECT NUMBER: PO-0029 DATE: SEPTEMBER 2020 AECOM PROJECT NUMBER: 60632162

APPROVED BY:

DRAWN BY:

DESIGNED BY:

CC-3.03 SHEET



- 1 DO NOT DISTURB
- 2 DO NOT DISTURB-ACCESS ONLY
- 3 TO BE RELOCATED BY OWNER PRIOR TO CONSTRUCTION
- 4 TO BE RELOCATED BY OWNER CONCURRENT WITH CONSTRUCTION

PROJECT BASELINE

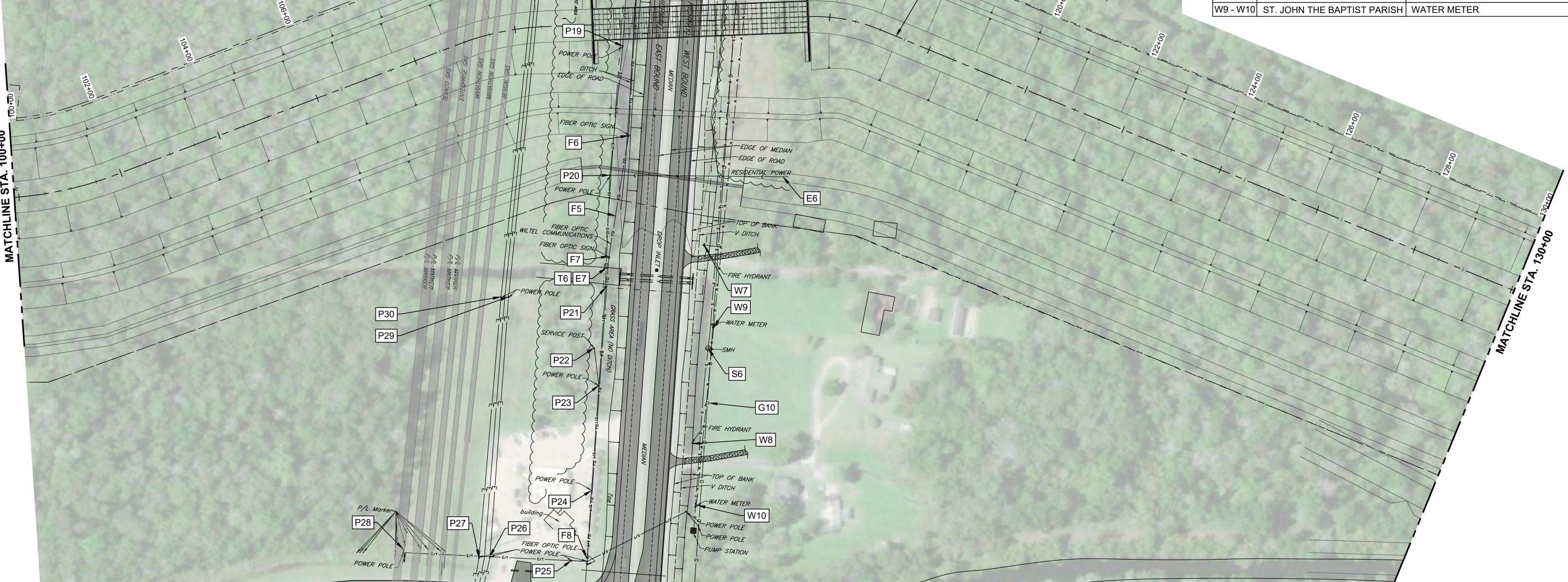
5 TO BE RELOCATED BY CONTRACTOR DURING CONSTRUCTION

UTILITY NOTES:

1. ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD LOCATED ALL UTILITY FOR VERIFICATION.

UTILITY DISPOSITION TABLE:

<u> </u>	· Biol Gollion in BLE		
ID NO.	OWNER	DESCRIPTION	DISPOSITION
E3-E5	ENTERGY TRANSMISSION	OVERHEAD 115kV AND 230kV	1
E6 - E7	ENTERGY DISTRIBUTION	OVERHEAD 13.7kv 3 PHASE LINE	1
F5	WILTEL	UNDERGROUND FIBER OPTIC CABLE	1
F6-F7	WILTEL	FIBER OPTIC SIGN	1
F8	WILTEL	FIBER OPTIC POWER POLE	1
G5	BENGAL GAS	GAS PIPELINE	1
G6	MARATHON GAS	GAS PIPELINE	1
G7	MARATHON GAS	GAS PIPELINE	1
G8	ENTERPRISE GAS	GAS PIPELINE	1
G9	TEXACO GAS	GAS PIPELINE	1
G10	ASCENSION	GAS PIPELINE	1
P18 - P30	ENTERGY	POWER POLE	1
P31- P32	ENTERGY	POWER POLE	3
S5	ST. JOHN THE BAPTIST PARISH	UNDERGROUND SEWER LINE	1
S6	ST. JOHN THE BAPTIST PARISH	SEWER MANHOLE	1
Т6	ATT?	OVERHEAD PHONE LINE	1
W6	ST. JOHN THE BAPTIST PARISH	UNDERGROUND WATER LINE	1
W7- W8	ST. JOHN THE BAPTIST PARISH	FIRE HYDRANT	1
W9 - W10	ST. JOHN THE BAPTIST PARISH	WATER METER	1



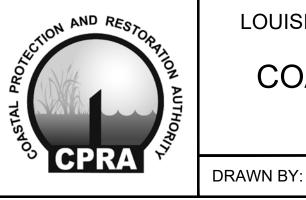
100' 0 100' 200' SCALE: 1" = 100'

PRELIMINARY RECORDA CONVEYANCES	TION,					
PRELIMINARY - NOT FOR CONSTRUCTION						
PHILLIP OLIVIER ENGINEER OF RECORD	CIVIL DISCIPLINE					1 5
<u>LA.</u> 36348 STATE LICENSE NO.	SEPTEMBER 2020 DATE	REV.	DATE	DESCRIPTION	BY	"

G5 G6 G7 G8 G9

P32

1515 POYDRAS ST SUITE 2700 NEW ORLEANS, LA 70112

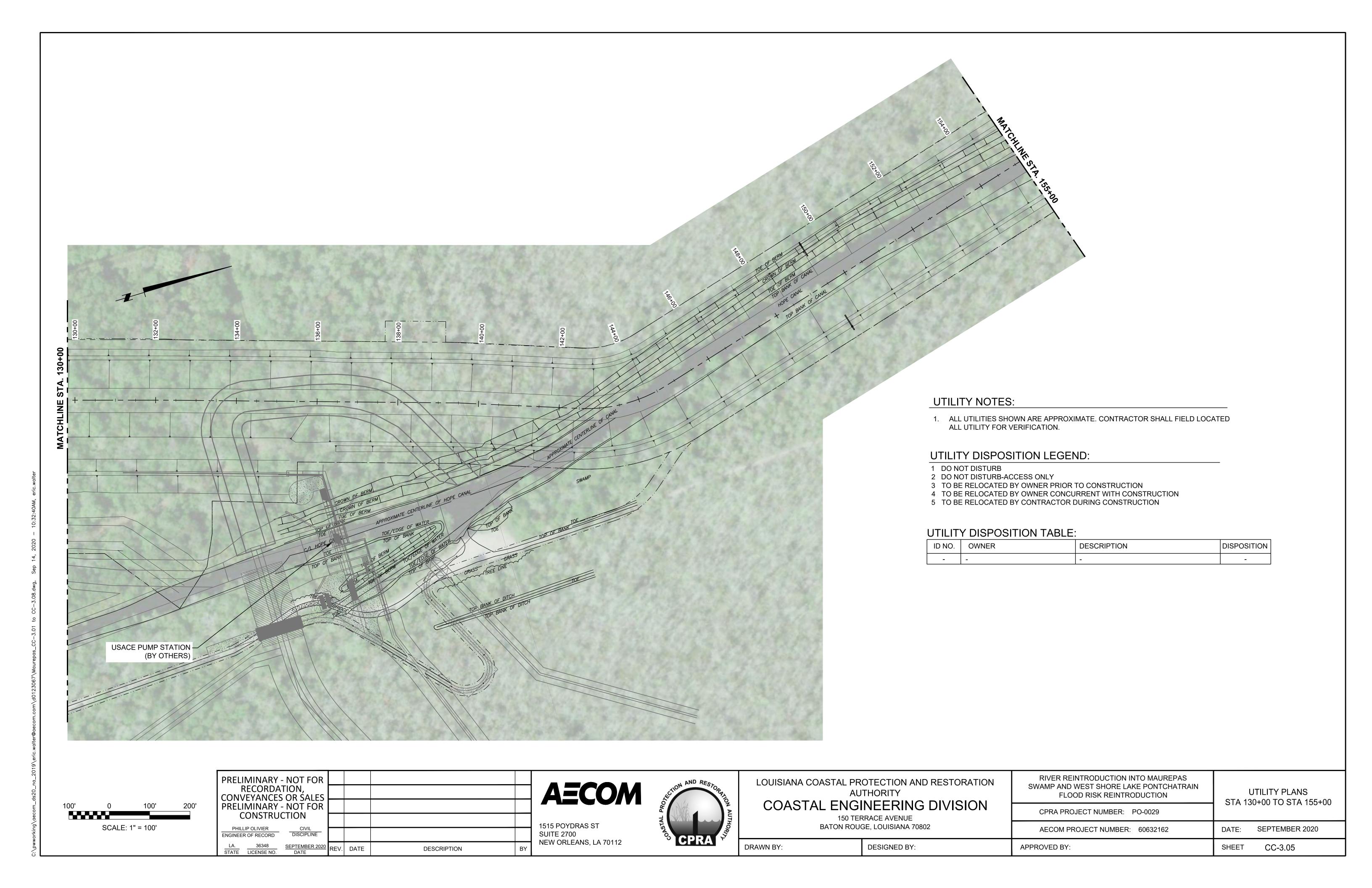


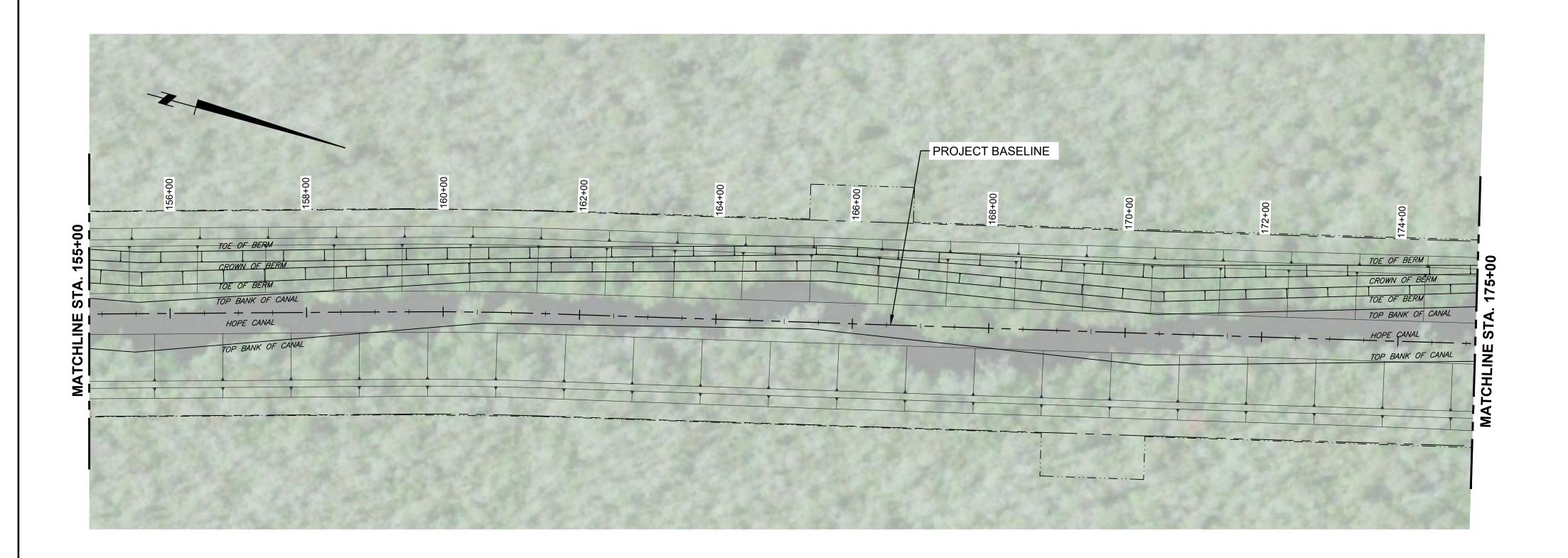
LOUISIANA COASTAL PROTECTION AND RESTORATION
AUTHORITY
COASTAL ENGINEERING DIVISION
150 TERRACE AVENUE

150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802

DESIGNED BY:

RIVER REINTRODUCTION INTO MAUREPAS SWAMP AND WEST SHORE LAKE PONTCHATRAIN FLOOD RISK REINTRODUCTION	PONTCHATRAIN ICTION UTILIT			
CPRA PROJECT NUMBER: PO-0029	STA 100+00 TO STA			
AECOM PROJECT NUMBER: 60632162	DATE:	SEPTEMBER 2020		
APPROVED BY:	SHEET	CC-3.04		





1. ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD LOCATED ALL UTILITY FOR VERIFICATION.

UTILITY DISPOSITION LEGEND:

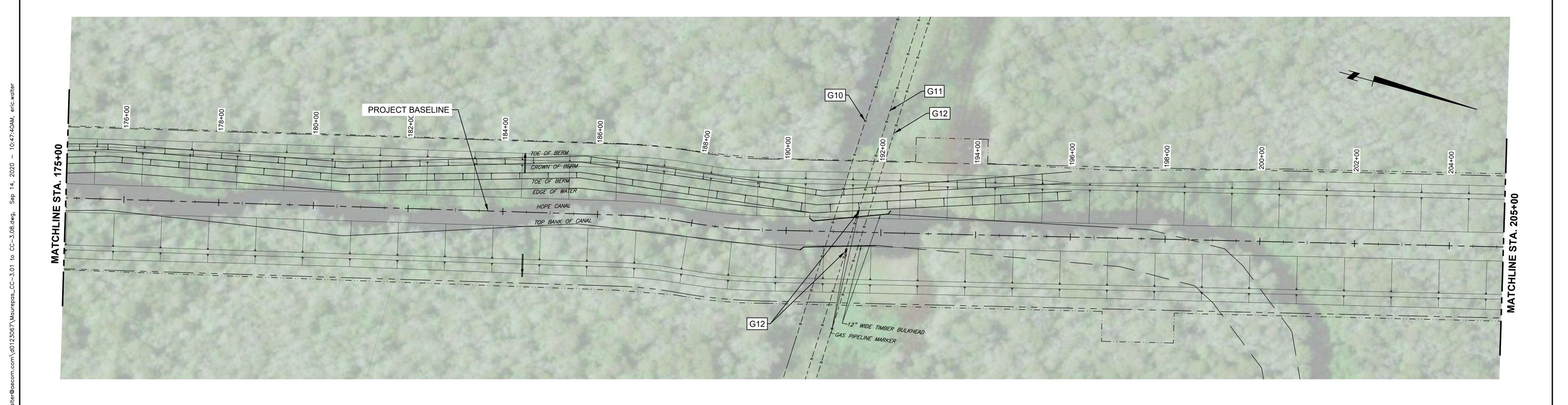
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- 5 TO BE RELOCATED BY CONTRACTOR DURING CONSTRUCTION

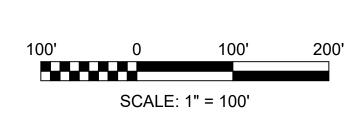
UTILITY DISPOSITION TABLE:

	ID NO.	OWNER	DESCRIPTION	DISPOSITION
*	G10	CHEVRON/TEXACO	GAS PIPELINE MARKER	1
*	G11	CHEVRON/TEXACO	GAS PIPELINE	1
*	G12	CHEVRON/TEXACO	GAS PIPELINE	TDB
*	G12	AIR PRODUCTS	GAS PIPELINE	1

* VERIFY MARKER LOCATION

VERIFY MARKER LOCATION

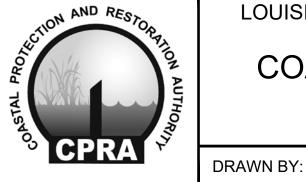




PRELIMINARY - RECORDAT CONVEYANCES	TION,					
PRELIMINARY - CONSTRUC	NOT FOR					
PHILLIP OLIVIER ENGINEER OF RECORD	CIVIL DISCIPLINE					1: S
LA. 36348 STATE LICENSE NO.	SEPTEMBER 2020 DATE	REV.	DATE	DESCRIPTION	BY	N

AECOM

1515 POYDRAS ST
SUITE 2700
NEW ORLEANS, LA 70112

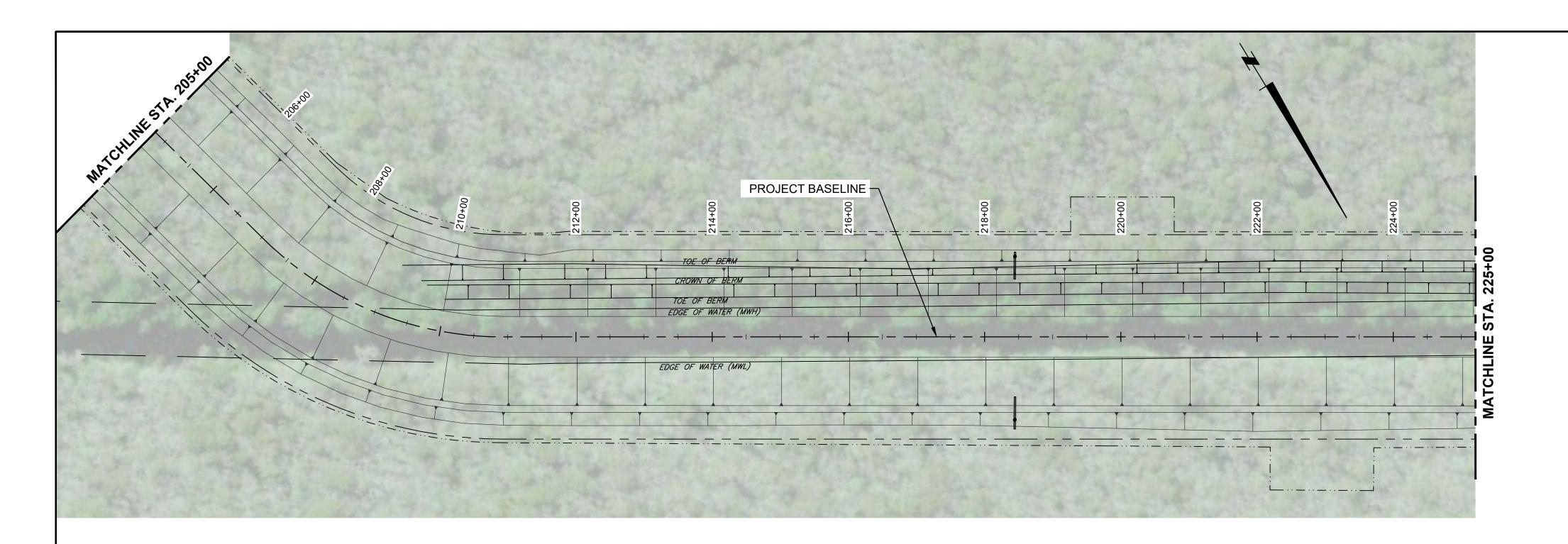


LOUISIANA COASTAL PROTECTION AND RESTORATION
AUTHORITY
COASTAL ENGINEERING DIVISION

150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802

DESIGNED BY:

RIVER REINTRODUCTION INTO MAUREPAS SWAMP AND WEST SHORE LAKE PONTCHATRAIN FLOOD RISK REINTRODUCTION	UTILITY PLANS STA 155+00 TO STA 205+00
CPRA PROJECT NUMBER: PO-0029	3171 133 33 13 3171 233 33
AECOM PROJECT NUMBER: 60632162	DATE: SEPTEMBER 2020
APPROVED BY:	SHEET CC-3.06



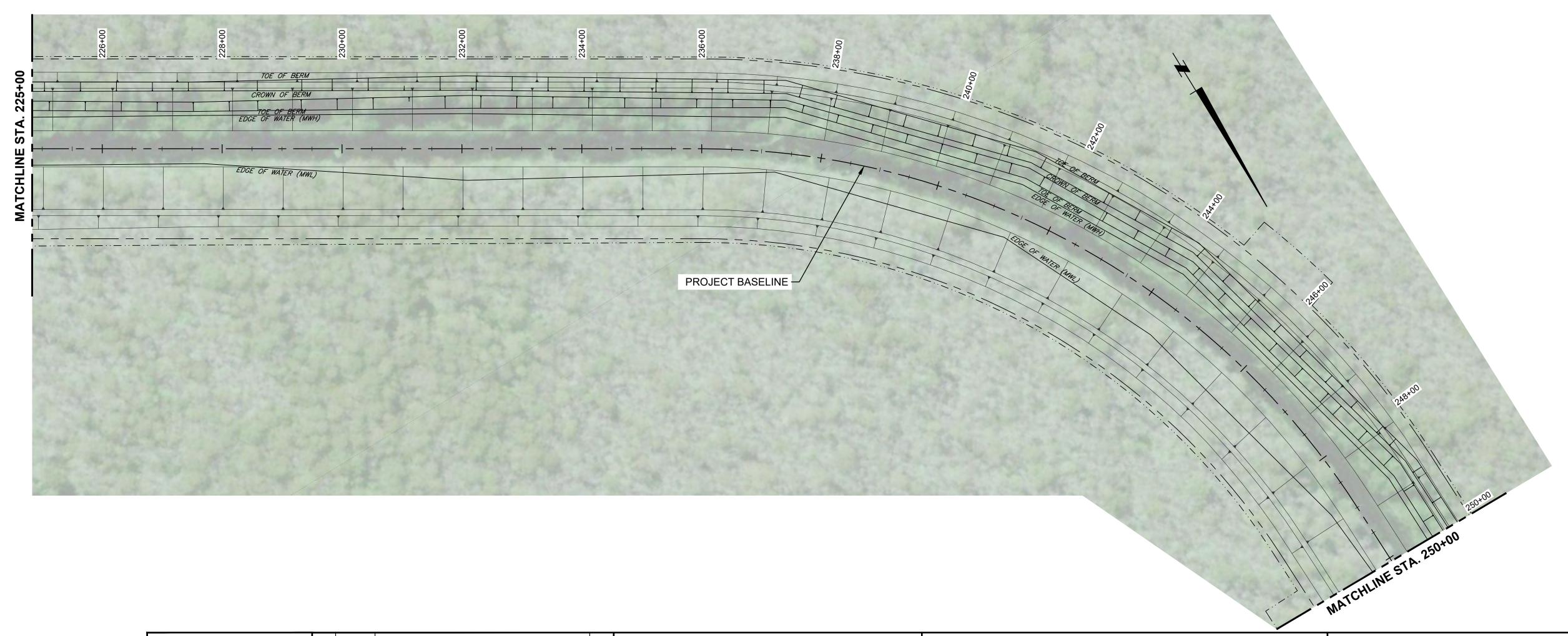
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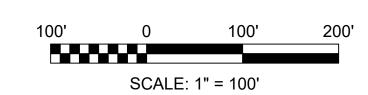
UTILITY DISPOSITION LEGEND:

- 1 DO NOT DISTURB
- 2 DO NOT DISTURB-ACCESS ONLY
- 3 TO BE RELOCATED BY OWNER PRIOR TO CONSTRUCTION 4 TO BE RELOCATED BY OWNER CONCURRENT WITH CONSTRUCTION
- 5 TO BE RELOCATED BY CONTRACTOR DURING CONSTRUCTION

UTILITY DISPOSITION TABLE:

ID NO.	OWNER	DESCRIPTION	DISPOSITION
-	-	-	-





	PRELIMINARY - NOT FOR RECORDATION, CONVEYANCES OR SALES PRELIMINARY - NOT FOR CONSTRUCTION						Δ=CΟΛ
	PHILLIP OLIVIER	CIVIL					1515 POYDRAS ST
	ENGINEER OF RECORD	DISCIPLINE					SUITE 2700 NEW ORLEANS, LA 70112
	LA. 36348 STATE LICENSE NO.	SEPTEMBER 2020 DATE	REV.	DATE	DESCRIPTION	BY	NEW ORLLANS, LA 70112

AECOM 1515 POYDRAS ST SUITE 2700



LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY

COASTAL ENGINEERING DIVISION

150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802

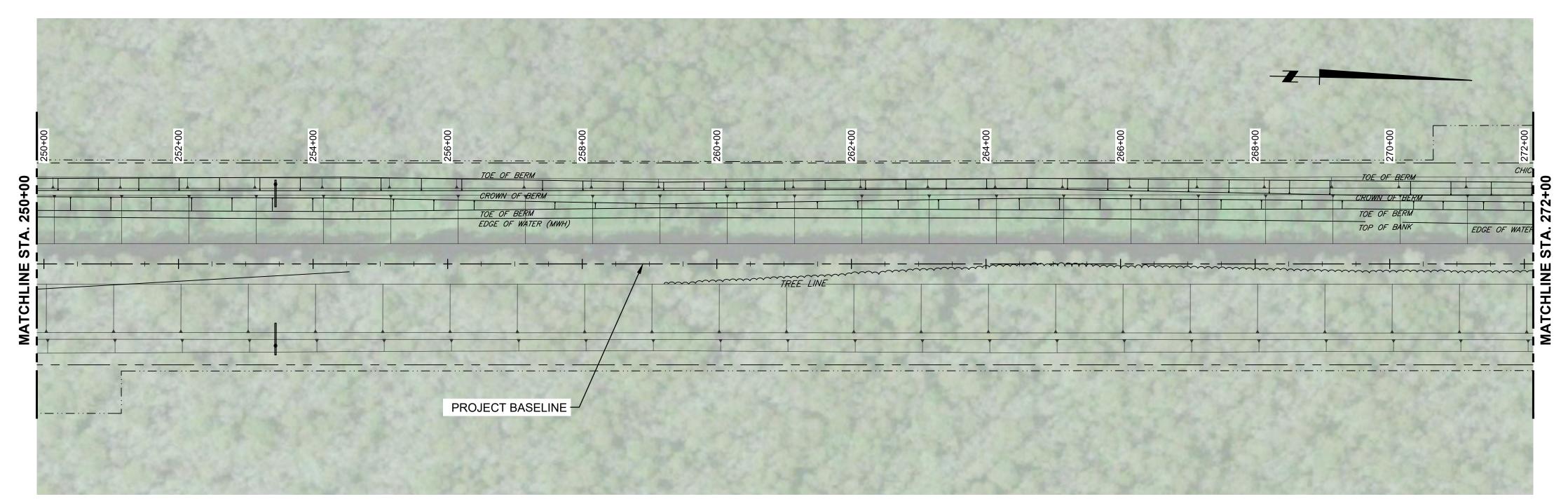
RIVER REINTRODUCTION INTO MAUREPAS SWAMP AND WEST SHORE LAKE PONTCHATRAIN FLOOD RISK REINTRODUCTION	UTILITY PLANS STA 205+00 TO STA 250		
CPRA PROJECT NUMBER: PO-0029			
AECOM PROJECT NUMBER: 60632162	DATE:	SEPTEMBER 2020	

00 TO STA 250+00 SEPTEMBER 2020

CC-3.07

SHEET

DRAWN BY: DESIGNED BY: APPROVED BY:



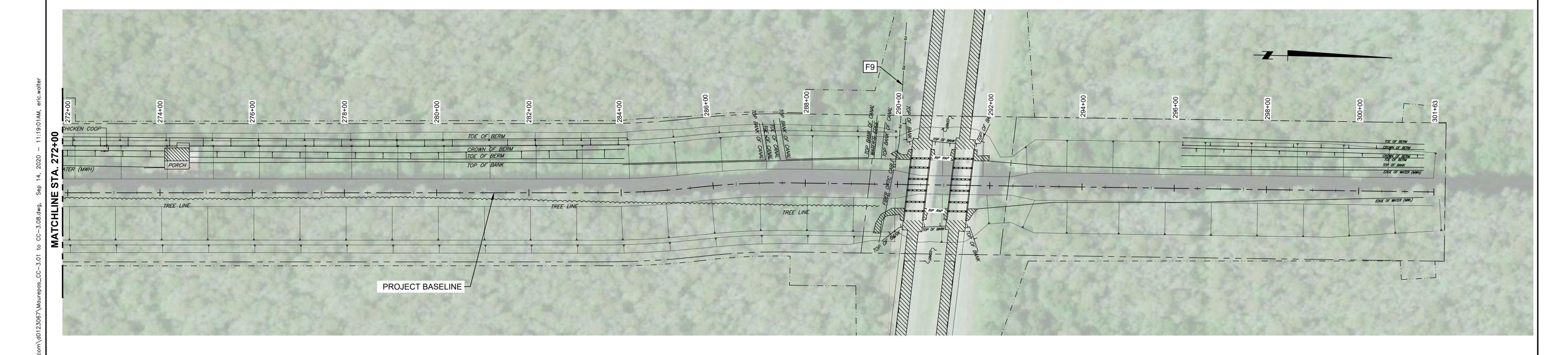
1. ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD LOCATED ALL UTILITY FOR VERIFICATION.

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- 5 TO BE RELOCATED BY CONTRACTOR DURING CONSTRUCTION

UTILITY DISPOSITION TABLE:

ID NO.	OWNER	DESCRIPTION	DISPOSITION
F9	AT&T	UNDERGROUND FIBER OPTIC CABLE	1



100' 0 100' 200

SCALE: 1" = 100'

	PRELIMINARY - NOT FOR RECORDATION, CONVEYANCES OR SALES PRELIMINARY - NOT FOR CONSTRUCTION					AECOM
	PHILLIP OLIVIER CIVIL ENGINEER OF RECORD DISCIPLINE					1515 POYDRAS ST SUITE 2700
	LA. 36348 SEPTEMBER 2020 STATE LICENSE NO. DATE	REV.	DATE	DESCRIPTION	BY	NEW ORLEANS, LA 70112



DRAWN BY:

LOUISIANA COASTAL PROTECTION AND RESTORATION

AUTHORITY

COASTAL FRICING FRIEDING FRIEDING

COASTAL ENGINEERING DIVISION

DESIGNED BY:

150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802

RIVER REINTRODUCTION INTO MAUREPAS SWAMP AND WEST SHORE LAKE PONTCHATRAIN FLOOD RISK REINTRODUCTION	UTILITY PLANS STA 250+00 TO STA 301+66		
CPRA PROJECT NUMBER: PO-0029			
AECOM PROJECT NUMBER: 60632162	DATE: SEPTEMBER 2020		
APPROVED BY:	SHEET CC-3.08		

STATE OF LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY

RIVER REINTRODUCTION INTO MAUREPAS SWAMP AND WEST SHORE LAKE PONTCHARTRAIN FLOOD RISK REDUCTION PROJECT PO-0029 STATE PROJECT No. PO-0062 LaGOV NO. 4400019214

> BASIS OF DESIGN REPORT 15% DESIGN

APPENDIX H SHAPEFILES SUPPLIED FOR WVA



