Encroachment Project - Budget Estimate

A26656 AFE No.: 12/13/16 Date:

Revised:

Inspect, recoat and installation load bearing pipeline protection slab and inspect, recoat and move vent pipeline on both ends of 30" Line ID 177 and 20" Line ID 9033-1 Location: Alves Ln, City of New Braunfels, TX

Owner: Enterprise Products Operating LLC Operator: Enterprise Products Operating LLC

Reimbursable: Yes - 100% cost to City of New Braunfels

905 UTSIDE ENGNEERINGSURVEY SERVICES Engineering/Patting (2 alab design and drawings) 1 3 8 540.000 550.000	CODE	DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT	SUB TOTAL	SUB TOTAL
Inspector - 1 impector CR - 1 COR 100 CR - 1 COR 100 S26, 400 S59,400 330,00 S26,400 533,000 S26,400 559,400 559,000 908 EPCO ENDIREEING & INSPECTION Project Manager Encroachment Analyst / Engineer Project Manager Encroachment Damages 100 400 hours 400 S15,500 S19,800 S28,800 S28,000 S28,000 951 LAND & PL RIGHT OF WAYS Essement Damages 1 ea S15,000 S2,000		Engineering/Drafting (2 slab design and drawings)					\$46,000	\$46,000
Field Engineering - Project Manager Project Services / Support 100 40 hours 40 5165 40 519,800 \$5,000 sea \$10,800 \$5,000 sea \$10,800 \$5,000 sea \$10,800 \$5,000 sea \$10,800 \$5,000 sea \$10,800 \$5,000 sea \$10,800 \$5,000 sea \$10,800 \$10,000 sea \$10,800 \$10,000 sea \$10,800 sea \$1,800 sea		Inspector - 1 inspector		-			\$59,400	\$59,000
Easement Damages 1 ea \$15,000 \$15,000 \$15,000 \$15,000 953 ROW SERVICES Right-of-Way Agent 60 hours \$125 \$7,500 \$5,000 \$8,000 965 ENVIRONMENTAL MITIGATION 1 Each \$5,0000 \$5,000 \$5,000	908	Field Engineering - Project Manager Encroachment Analyst / Engineer	40	hours	\$150	\$6,000	\$28,800	\$29,000
Right-of-Way Agent 60 hours \$125 \$7,500 \$7,500 \$8,000 965 ENVIRONMENTAL MITIGATION 1 Each \$5,000 <td< th=""><td>951</td><td></td><td>1</td><td>ea</td><td>\$15,000</td><td>\$15,000</td><td>\$15,000</td><td>\$15,000</td></td<>	951		1	ea	\$15,000	\$15,000	\$15,000	\$15,000
Image: second			60	hours	\$125	\$7,500	\$7,500	\$8,000
O&M Supervisor/COM Corrosion Tech. S Hours 24 Hours 24 S100 24 S800 24,400 S800 22,400 S800 22,400 S800 S2,400 S800 S1,500 S800 S1,500 S800 S1,500 S800 S1,500 S800 S1,500 S800 S1,500 S1,500 S2,400 S2,400 Misc. Taxes Taxes SUB TOTAL Image: Sing Sing Sing Sing Sing Sing Sing Sing	965	ENVIRONMENTAL MITIGATION	1	Each	\$5,000	\$5,000	\$5,000	\$5,000
Mileage, meals, air fare etc. 1 lot \$1,500 \$1,500 \$1,500 \$2,000 987 GEN CONST CONTRACTS General Pipeline Contractor Contract Inspection - NDE Installation of pipeline protection slab on 20" (Line 9033-1) and 30" (Line 1777 Inspect, recoat and move vent pipe for 20"pipeline (Line 9033-1) and 30" 5 Daily Each \$2,000 \$10,000 \$10,000 \$45,000 \$45,000 \$45,000 \$45,000 \$45,000 \$45,000 \$45,000 \$460,000 \$45,000 \$400,000 <td>983</td> <td>O&M Supervisor/COM Corrosion Tech.</td> <td>24</td> <td>Hours</td> <td>\$100</td> <td>\$2,400</td> <td>\$5,600</td> <td>\$6,000</td>	983	O&M Supervisor/COM Corrosion Tech.	24	Hours	\$100	\$2,400	\$5,600	\$6,000
General Pipeline Contractor Contract Inspection - NDE Installation of pipeline protection slab on 20" (Line 9033-1) and 30" (Line 177] Inspect, recoat and move vent pipe for 20"pipeline (Line 9033-1) and 30" 5 1 Daily Each \$2,000 \$10,000 \$10,000 \$160,000 \$160,000 \$160,000 \$160,000 \$160,000 \$160,000 \$160,000 \$45,000 \$45,000 \$45,000 \$45,000 \$45,000 \$45,000 \$45,000 \$45,000 \$40,000 \$223,544 \$223,000 \$215,000 \$18,544 \$233,544 \$234,000 \$40,000 \$18,544 \$404,000 \$400,000 \$400,2444 \$404,000 \$400,000 \$400,2444 \$404,000 \$60,600 \$60,	985		1	lot	\$1,500	\$1,500	\$1,500	\$2,000
SUB TOTAL Image: Marcine Sub Total Image: MarcineSub Total Image: Marcine Sub Tota	987	General Pipeline Contractor Contract Inspection - NDE Installation of pipeline protection slab on 20" (Line 9033-1) and 30" (Line 177) Inspect, recoat and move vent pipe for 20"pipeline (Line 9033-1) and 30" pipeline (Line 177) Misc.	1 1 0.00%	Each Each of	\$160,000 \$45,000 \$215,000	\$160,000 \$45,000 \$0	\$233,544	\$234,000
989 CONSTRUCTION OVERHEAD 15% of \$464,600 \$69,690 \$69,690 \$70,000		SUB TOTAL						
	988	CONTINGENCY	15%	of	\$404,000	\$60,600	\$60,600	\$61,000
GRAND TOTAL \$532,634 \$535,000	989	CONSTRUCTION OVERHEAD	15%	of	\$464,600	\$69,690	\$69,690	\$70,000
		GRAND TOTAL					\$532,634	\$535,000

\$98,000 Approved Addendum \$437,000

By: Evelyn Choong-Mcnealy

ROUNDED

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1 Project: DB 7070-City of New Braunfels-Rd Improv-Alves Ln

1) Fair to good weather.

Notes:

2) Temporary work space will be required to complete work at Floating Star Channel. Temporary work space for work at Alves Ln will be solely contained within the easement and EP feed properties and the City's properties. Allocated some budget for damages to residential housing since it is right next to houses.

3) Cost estimate is based on one mobilization/demobilization to complete the relocation

4) Construction overhead is the percentage by which direct expenses are multiplied to recover internal labor, supervision, management, pipeline overhead, corporate overhead, and cost of capital for company employees not directly charging to the project.

5) No construction interruptions by any other landowner during constructions