

#### **GALVESTON COUNTY ENGINEERING DEPARTMENT**

# Change Order No. 01 Bacliff Drainage Improvements

Owner: Galveston County Contractor: Lucas Construction Co. Engineer: Gannett Fleming Transystems

**CHANGE IN CONTRACT PRICE** 

This Change Order: \$1,698,700.00

Previous Change Orders: \$0

Contract Price Prior To

Net Change From

Original Contract Price: \$1,698,700.00

Contract Number: CM25015 Purchase Order Number: F502913

360 Days

0 Days

360 Days

Bid Number: 24-025

**CHANGE IN CONTRACT TIME** 

Original Contract Time:

Previous Change Orders:

Contract Time Prior To

This Change Order:

Net Change From

#### **Work Being Changed**

Adjusting the bid items to accommodate the increase in Item 19 – CL A Concrete (Channel Lining) (8") SY, and to include the addition of four concrete pads over existing storm pipes in lieu of grates with Item 18 - CL A Concrete (Channel Lining) (6") SY.

Net Increase/Decrease Of This Change Order: <b>\$0</b> Contract Price With All Approved Change Orders: <b>\$1,698,700.00</b>	This Cl Contra	crease/Decrease Of change Order: ct Time With All cred Change Orders: 360 Days
RECOMMENDED:		
By: Ryan Ramirez Ryan Engineer (Consultant)	Date:	04/17/2025
By: Engineer (County Engineer)	Date:	4/17/2025
APPROVED: County Of Galveston		
By: Mark Henry, County Judge	Date:	Dwight Sullivan, County Clerk
ACCEPTED: Contractor  By: Contractor (Authorized Signature)  Jimmy McGinnis	Date:	4/17/2025
Printed Name <u>Page</u>	e 1 of 2	

## **GALVESTON COUNTY ENGINEERING DEPARTMENT**

# Change Order No. 01 Bacliff Drainage Improvement

Pay Item No.	Spec Item No.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	ITEM COST	OVERRUN/UNDERRUN
19		CL A CONC(CHANNEL LINING)(8")	SY	\$260.00	90.00	\$23,400.00	380.00	\$98,800.00	-\$75,400.00
9		STEEL GRATING	LF	\$600.00	85.00	\$51,000.00	0.00	\$0.00	\$51,000.00
28		Port CTB(FUR and INST)(Low Profile)(TY 1)	LF	\$200.00	40.00	\$8,000.00	0.00	\$0.00	\$8,000.00
29		Port CTB(FUR and INST)(Low Profile)(TY 2)	LF	\$200.00	40.00	\$8,000.00	0.00	\$0.00	\$8,000.00
30		Port CTB(Remove)(Low Profile)(TY 1)	LF	\$100.00	40.00	\$4,000.00	0.00	\$0.00	\$4,000.00
35		Rock Filter Dams(Install)(TY 2)	LF	\$30.00	150.00	\$4,500.00	0.00	\$0.00	\$4,500.00
36		Rock Filter Dams(Remove)	LF	\$30.00	150.00	\$4,500.00	0.00	\$0.00	\$4,500.00
18		CL A CONC(CHANNEL LINING)(6")	SY	\$200.00	440.00	\$88,000.00	463.00	\$92,600.00	-\$4,600.00
				<u> </u>					
		TOTAL							\$0.00



March 26, 2025 Gannett Fleming 3100 Alabama St Houston, TX 77098 ATTN: Ryan Ramirez

RE: Bacliff Drainage CPR #1 – RFI 01 Low Water Crossing

Mr. Ramirez,

In response to the answer to RFI 01, Lucas Construction Company, Inc. proposes to provide labor, materials, equipment, layout, supervision, and insurance to accomplish the additional work for the following lump sum amount:

-Increase quantity to line 19 by 290 SY for a revised total of 380 SY	\$260/SY	\$75,400
-Remove bid item 9		(\$51,000)
-Add (4) concrete pads over existing storm pipes in lieu of grates	\$1,150/EA	\$4,600
-Remove bid items 28-30 (not needed)		(\$20,000)
-Remove bid items 35 and 36 (we can use silt fence if needed)		(\$9,000)

Net Increase in Base Bid = \$0.00

<u>Exclusions:</u> Engineering, permitting, materials testing, well-pointing, and any utility adjustments/relocations that may be necessary.

Please feel free to call me at 281-316-9990 with any questions or concerns.

Sincerely,

Jimmy McGinnis Vice President Lucas Construction

## REQUEST FOR INFORMATION

1.	RFI No.: 01		
2.	Project Name: Bacliff Drainage Improvements		
3.	Contractor: <u>Lucas Construction Company</u> , Inc.		
4.	Specification No.: Low Water Crossing Concre	te Quantity	
5.	Drawing No.: Sheet 29		
5.	Response Code: () CRITICAL (X) I	ROUTINE	
7.	Date Response Required: <u>01/22/2024</u>		
3.	Information Required:		
walls. projector the shows crossing ayout cannot that's	5" concrete, which we believe is for the concrete flow The TXDOT detail shows the floor to be 5" thick. To the two can find 5" concrete. Item 18 has 440 SY of 6" to concrete channel at the Bayshore outfall. The detail 6" concrete and the quantity is very close. That leaving shown on sheet 29. Item 19 only has 90 SY of 8" on sheet 29 and take into consideration the 5:1 slopest locate a detail for the low water crossing, I'm only the only concrete bid item left that could account for ect and if we are to overrun bid item 19 or if this will account the state of the same to overrun bid item 19 or if this will be same to overrun bid item 19 or if this will be same to overrun bid item 19 or if this will be same to overrun bid item 19 or if this will be same to overrun bid item 19 or if this will be same to overrun bid item 19 or if this will be same to overrun bid item 19 or if this will be same to overrun bid item 19 or if this will be same to over the same to over	that is the only are concrete, which very for that concrete res item 19 for the concrete, but if I see, I get 380 SY of assuming it is 8" to this work. Please	a of the ve believe is on sheet 31 low water scale the concrete. I hick because advise if this
9.	Contractor Signature	Vice President Title	01/15/2024 Date
10.	RESPONSE: See below in attached Gannett Fleming document for respon		Zuic
11.	Rmz	01/21/2025	
	Project Manager Signature	Date	

12. If Contractor believes the response given in Item 10 requires an adjustment in Contract Price or Contract Time, Contractor shall submit a timely proposal so as not to delay Contractor's Work.

END OF DOCUMENT



# REQUEST FOR INFORMATION CONSTRUCTION PHASE

RFI Number: 01

To:	Jimmy McGinnis (Lucas Construction)	Project:	Galveston County ARPA BacliffS Drainage Improvements
	Tim Morrow (Lucas Construction) , Nancy Baher (Galveston County), Lisa Butler (Galveston County)		
		Contract:	Project: No. ITB 24-025
From:	Donald Stephanik (Gannett Fleming TranSystems)	Reference:	Channel Lining
	Ryan Ramirez (Gannett Fleming TranSystems)	Spec. Section:	
Date:	01/21/2025	Drawing No:	

#### Request:

Items 17-19 of the bid form are for (3) different concrete linings. Item 17 has 160 SY of 5" concrete, which we believe is for the concrete floor between the FW and SW walls. The TXDOT detail shows the floor to be 5" thick. That is the only area of the project we can find 5" concrete. Item 18 has 440 SY of 6" concrete, which we believe is for the concrete channel at the Bayshore outfall. The detail for that concrete on sheet 31 shows 6" concrete and the quantity is very close. That leaves item 19 for the low water crossing shown on sheet 29. Item 19 only has 90 SY of 8" concrete, but if I scale the layout on sheet 29 and take into consideration the 5:1 slope, I get 380 SY of concrete. I cannot locate a detail for the low water crossing, I'm only assuming it is 8" thick because that's the only concrete bid item left that could account for this work. Please advise if this is correct and if we are to overrun bid item 19 or if this will need to be paid differently.

**Attachments: RFI PDF** 

Requested By: Jimmy Mcginnis

Date: 01/15/25

Please Respond By: Ryan Ramirez

#### Response:

After reviewing the design documents, Item 19 CL A CONC(CHANNEL LINING)(8") is the correct item for the low water crossing. The crossing will have 8-inch concrete on the main driving surface and the channel bottom just upstream and downstream of the crossing, and 6-inch on the side slopes. The original estimate shows the low water crossing quantities in the 5-inch and 8-inch rows; the total was 250 SY. The total area needs to be 415 SY instead of the 250 SY, with 157 SY of 6-inch concrete and 258 SY of 8-inch concrete. The contractor's fee will increase by \$35,080. The 5-inch concrete quantity does not include the headwall apron, as estimated by the contractor. The bid tab shows the headwall as an individual unit and does not require additional estimation of concrete items. This will cause for a change order.

Responded By: Ryan Ramirez

Signed: Rmz

Response/Return Date: 01/21/2025

Copies To: RFI Log

51. N-16 WEST CROSS-SECTIONS (SHEET 4 OF 5) 52. N-16 WEST CROSS-SECTIONS (SHEET 5 OF 5)

OFF SITE FILL PLAN 53. FILL PLAN STORM WATER POLLUTION PREVENTION PLAN 54. STORMWATER POLLUTION PREVENTION PLAN (SHEET 1 OF 2) STORMWATER POLLUTION PREVENTION PLAN (SHEET 2 OF 2) STORMWATER POLLUTION PREVENTION PLAN DETAILS MISCELLANEOUS DETAILS (SHEET 1 OF 2) MISCELLANEOUS DETAILS (SHEET 2 OF 2)
RCB 5FT SPAN
RCB 6FT SPAN
RCB MISC DETAILS CONCRETE WINGWALLS WITH PARALLEL WINGS S.E.T. WITH STRAIGHT WINGS FOR O' SKEW BOX CULVERTS TYPE I ~ CROSS DRAINAGE B-SW-0 (SHEET S.E.T. WITH STRAIGHT WINGS FOR O' SKEW BOX CULVERTS TYPE I ~ CROSS DRAINAGE B-SW-O (SHEET S.E.T. WITH STRAIGHT WINGS FOR O' SKEW BOX CULVERTS TYPE I ~ CROSS DRAINAGE B-SW-O (SHEET SET FW-O SET SW-0 LOW PROFILE CONCRETE BARRIER PRECAST BARRIER (TYPE 1) (SHEET 1 OF 2) LOW PROFILE CONCRETE BARRIER PRECAST BARRIER (TYPE 2) (SHEET 2 OF 2) PEDESTRIAN RAIL (SHEET 1 OF 2) PEDESTRIAN RAIL (SHEET 2 OF 2) 72. ARTICULATING CONCRETE BLOCKING (SHEET 1 OF 2)
73. ARTICULATING CONCRETE BLOCKING (SHEET 2 OF 2)
73. ARTICULATING CONCRETE BLOCKING (SHEET 2 OF 2)
73. WAINTENANCE OF TRAFFIC NOTES TRAFFIC CONTROL PLANS TRAFFIC CONTROL DETAILS (1 of 2)
TRAFFIC CONTROL DETAILS (2 of 2) PHASE 1 TRAFFIC CONTROL 15TH STREET DETOUR PLAN (1 OF 1) PHASE 2 TRAFFIC CONTROL 10TH STREET DETOUR PLAN (1 OF 1) PHASE 3 TRAFFIC CONTROL PLAN BAYSHORE OUTFALL TRAFFIC CONTROL PLAN PHASE 3 LAYOUT TEMPORARY CONSTRUCTION DRIVEWAY DETAILS TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES CONSTRUCTION EXITS EC(3) - 16 **BORING LOGS** 83. BORING LOGS (SHEET 1 OF 4) 84. BORING LOGS (SHEET 2 OF 4) 85. BORING LOGS (SHEET 3 OF 4)

BORING LOGS (SHEET 4 OF 4)

ENGINEERING
ENCLLENCE
T.B.P.E.LS. FIRM REGISTRATION 1932
3100 WEST ALABAMA HOLISTON, TEAMS 77088 (719) 523-4670



1 2/12/25 ADJUST TOB GT MJ DS
REVISION No. DATE REVISION DESCRIPTION MADE CHECKED APPROVED

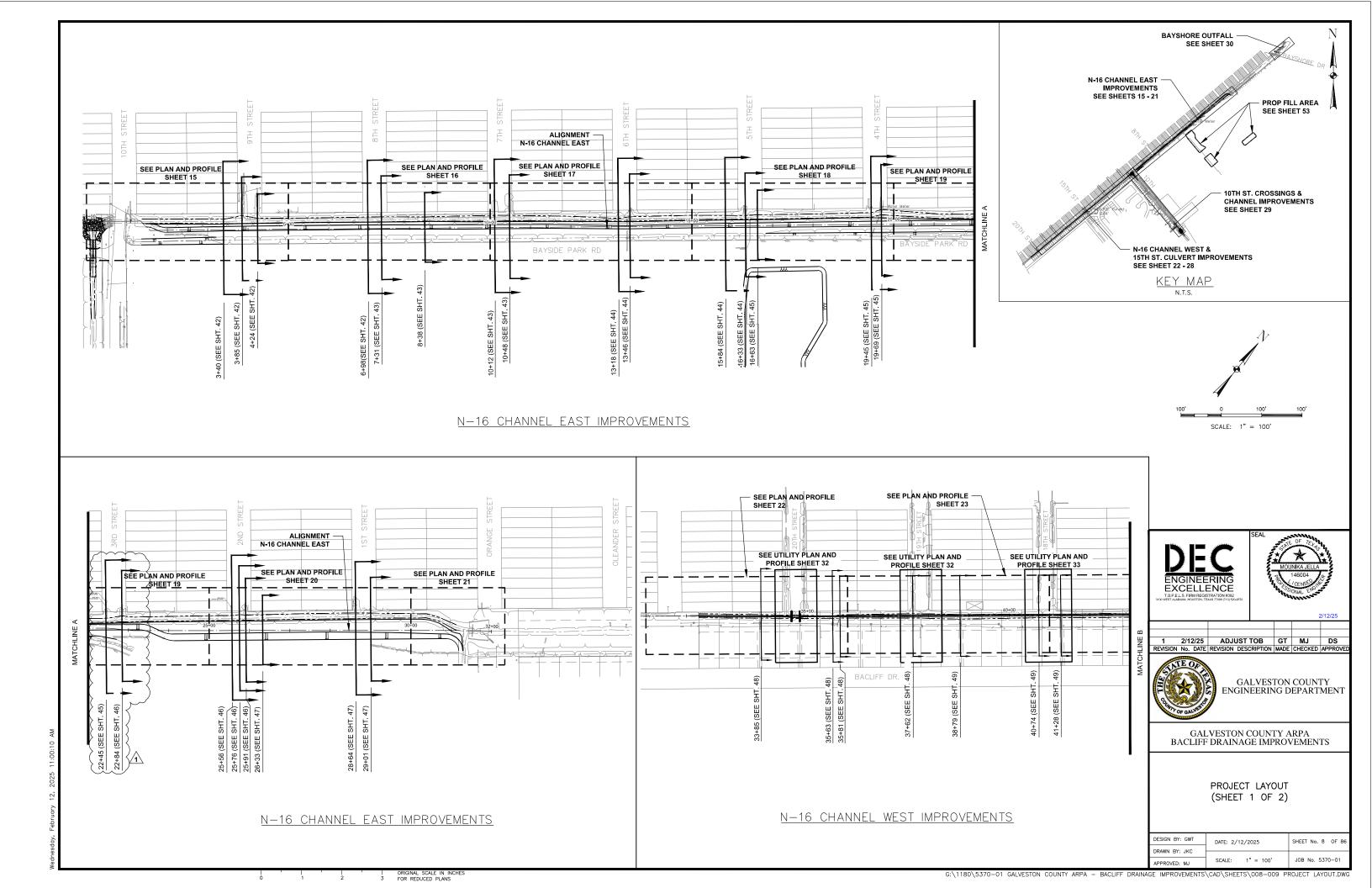


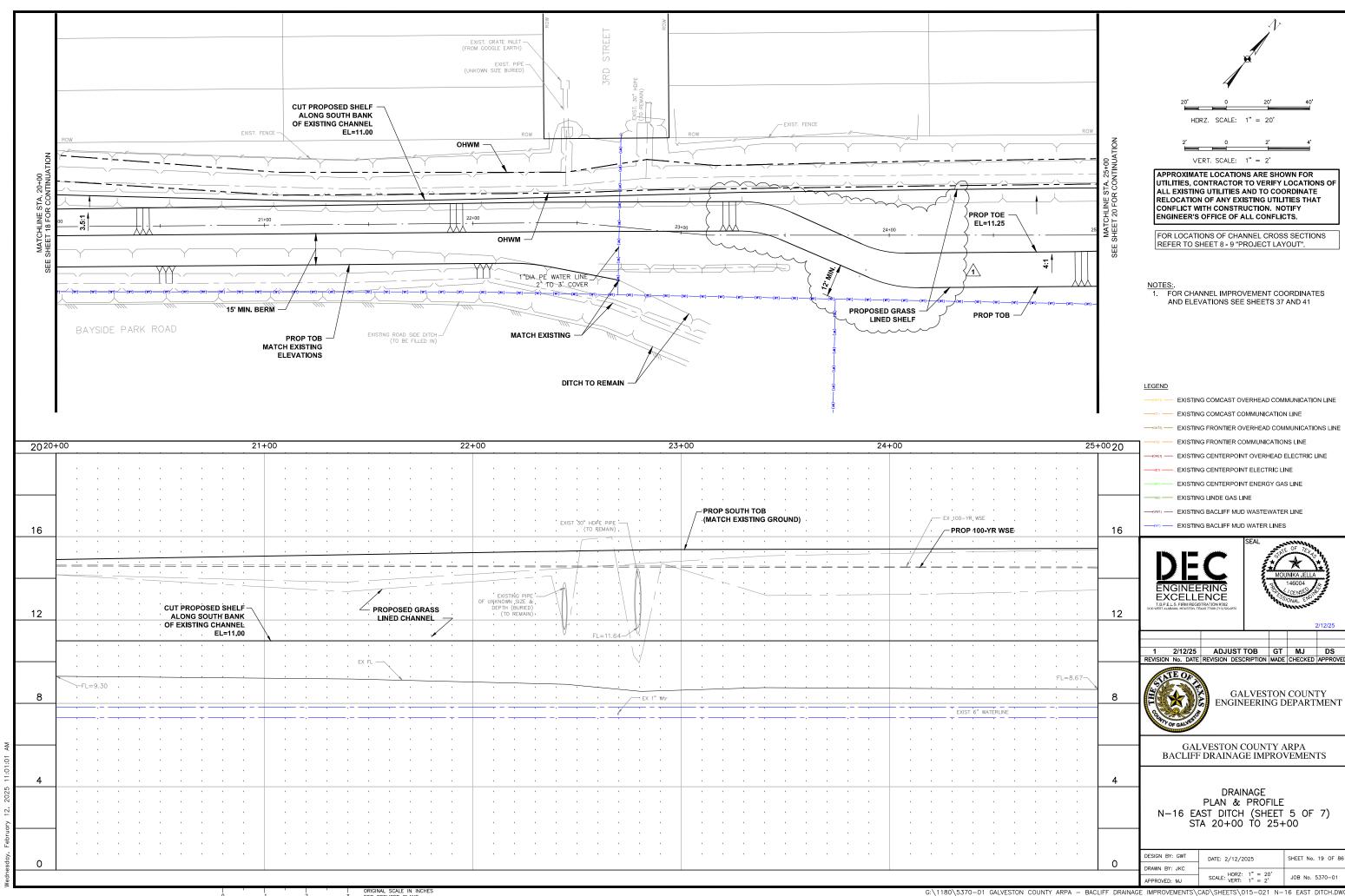
GALVESTON COUNTY ENGINEERING DEPARTMENT

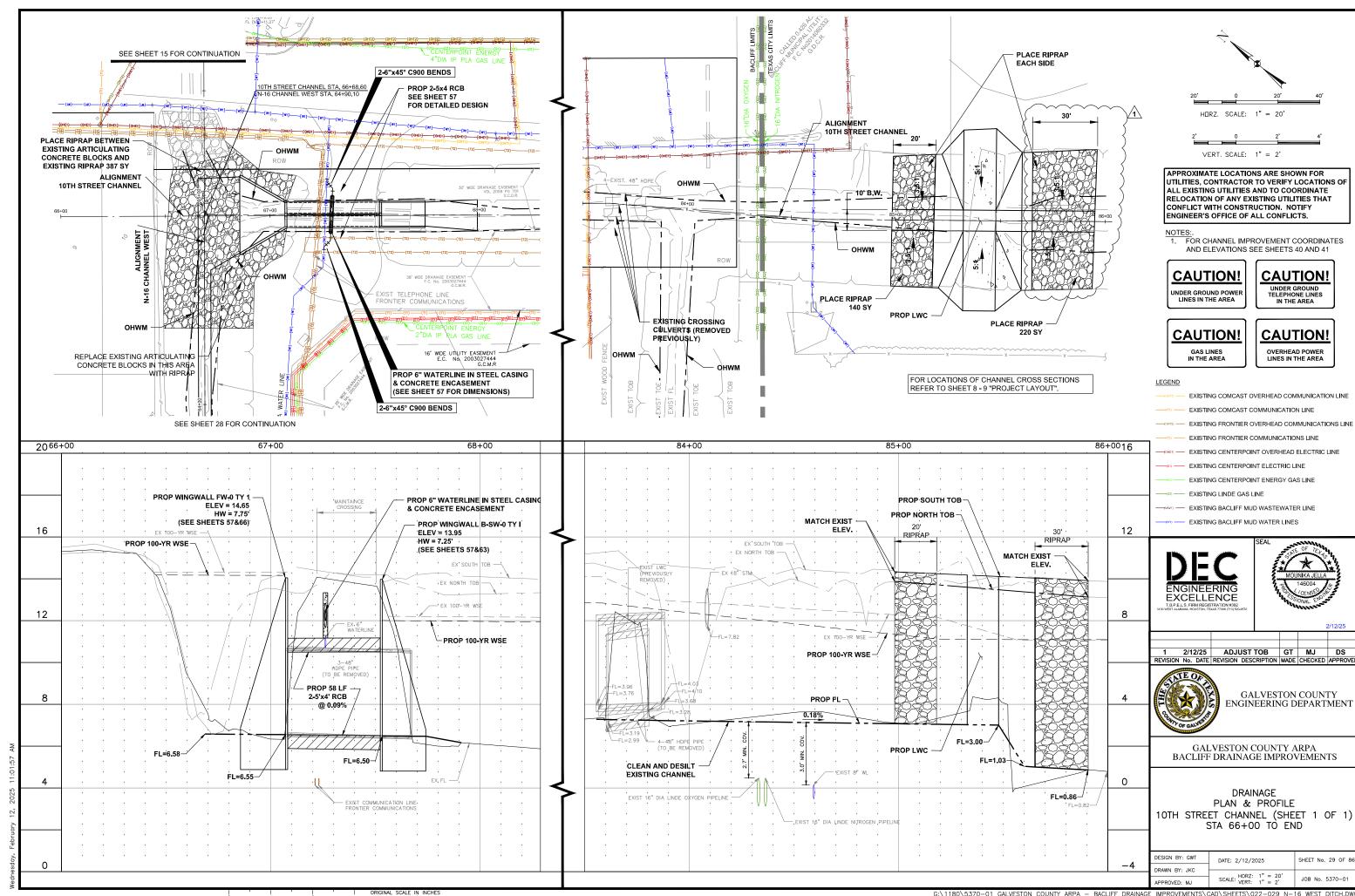
GALVESTON COUNTY ARPA BACLIFF DRAINAGE IMPROVEMENTS

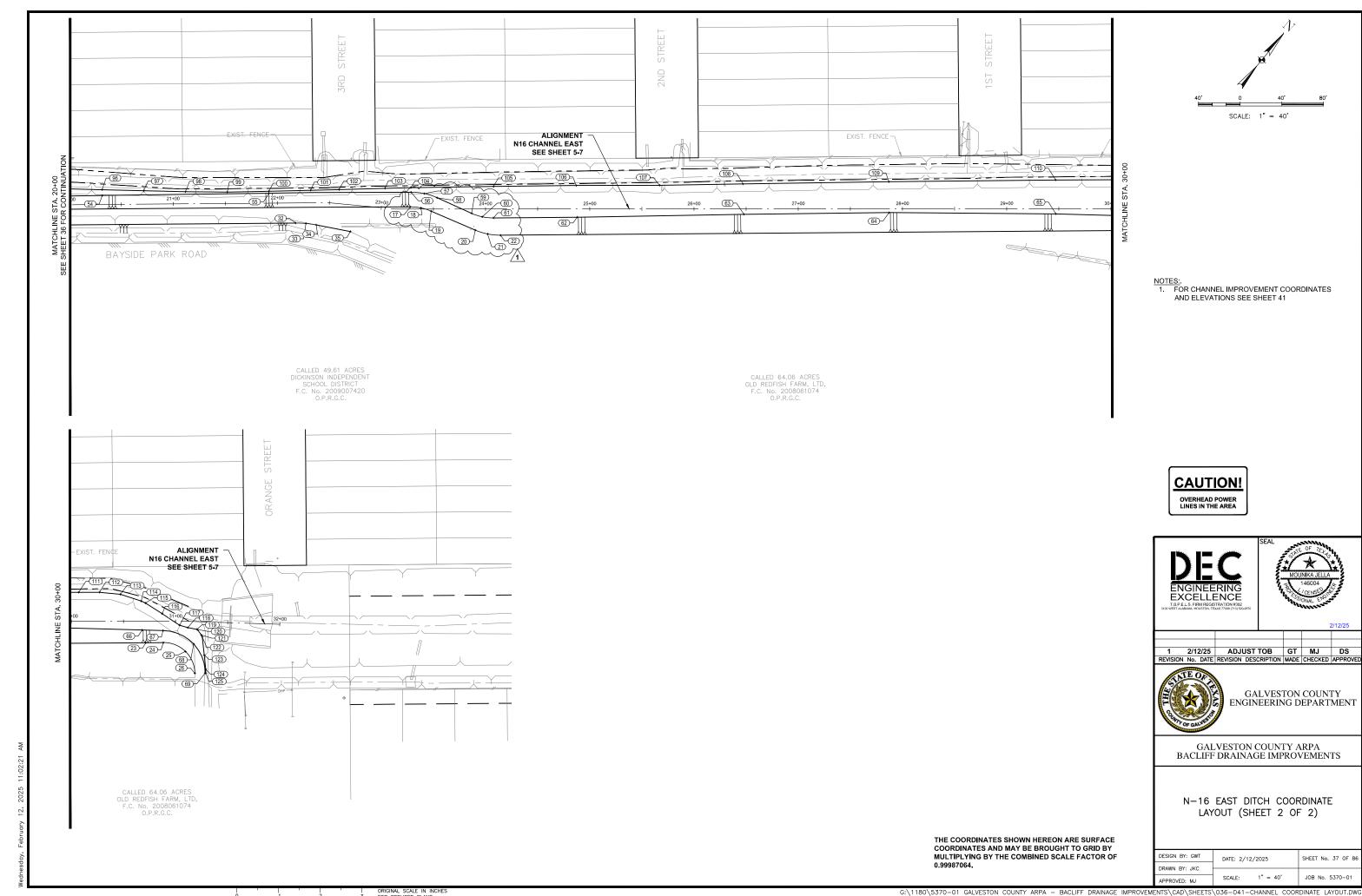
INDEX OF DRAWINGS

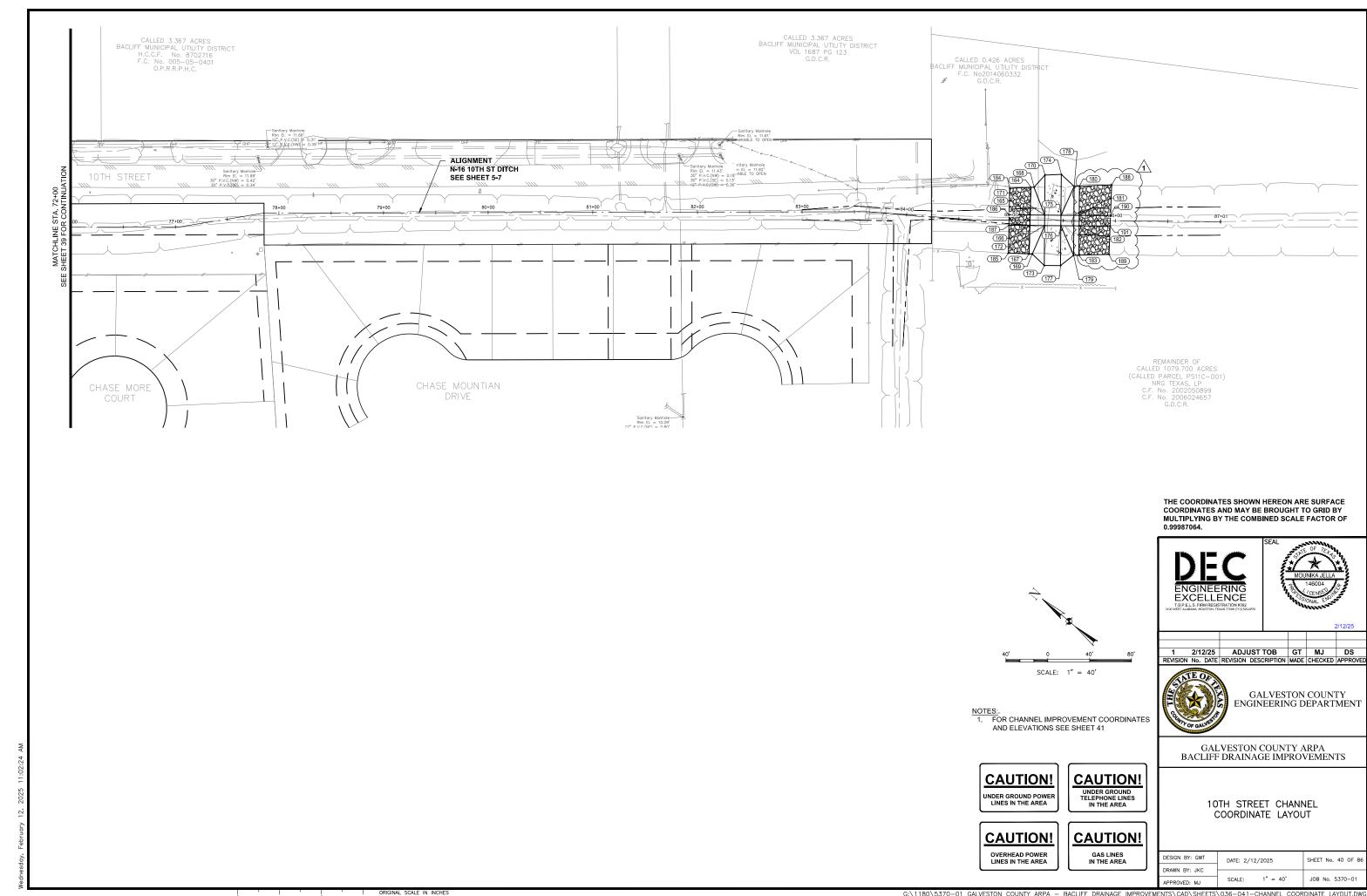
DESIGN BY: GWT	DATE: 2/12/2025	SHEET No. 2 OF 86
DRAWN BY: JKC		
APPROVED: MJ	SCALE: N.T.S	JOB No. 5370-01











			N16 EAST CHA DINATE AND E			
	Point #	Elevation	Northing	Easting	Description	
	1	14.48	13753649.51	3246095.31	ТОВ	*
	2	14.46	13753655.60	3246104.44	ТОВ	*
	3	14.46	13753659.54	3246114.68	ТОВ	*
	4	14.46	13753662.05	3246124.16	ТОВ	*
	5	14.45	13753666.63	3246135.59	ТОВ	*
	6	14.42	13753673.85	3246145.58	ТОВ	*
	7	14.30	13753752,64	3246236.71	ТОВ	*
	8	14.37	13753764.56	3246250.26	тов	*
	9	14,52	13753893.12	3246402.52	ТОВ	*
	10	14.67	13754023.26	3246556.83	ТОВ	*
	11	14.33	13754150.54	3246711.14	ТОВ	*
	12	13.76	13754279.62	3246864.41	ТОВ	*
	13	13.28	13754405.03	3247018.62	ТОВ	*
	14	14.37	13754534.71	3247170.82	ТОВ	*
	15	14.49	13754607.38	3247257.63	ТОВ	*
	16	14.48	13754627.31	3247281.34	тов	*
11	¥17 ¥	15.51	13755041.28	3247775.42	TOB	*
(	18	15.94	13755046.98	3247783.91	тов 🕽	*
>	19	15.70	13755050.83	3247793.38	тов	*
	20	15.94	13755063.76	3247837.71	тов	*
(	21	15.79	13755068.44	3247849.19	тов	*
	22	15.72	13755075.37	3247859.45	тов	*
	23	14.21	13755497.35	3248363.07	ТОВ	*
	24	13.94	13755508.16	3248375.97	ТОВ	*
	25	13.79	13755515.06	3248397.73	ТОВ	*
	26	13.72	13755504.65	3248418.05	ТОВ	*
	27	14.66	13753620.59	3246106.92	ТОВ	*
	28	13.94	13753741.30	3246246.52	ТОВ	*
	29	14.90	13753609.25	3246116.19	ТОВ	*
	30	14.37	13753739.82	3246271.42	ТОВ	*
	31	14.86	13754615.87	3247291.05	ТОВ	*
	32	15.25	13754959.25	3247700.31	ТОВ	*
	33	15,27	13754965.28	3247708.27	ТОВ	*
	34	15,28	13754970.48	3247716.79	ТОВ	*
	35	15.10	13754986.41	3247746.07	TOB	*
	36	14,23	13753614.89	3246111.56	TOE	
	37	12,74	13753745.66	3246263.02	TOE	
	38	11.00	13753655.18	3246090.57	TOE	
	39 40	11,21 11,25	13753665.60	3246104.29 3246114.22	TOE	
	41	11.26	13753676.61	3246130.38	TOE	
	42	11.25	13753681.07	3246136.70	TOE	
	43	11.25	13753807.55	3246283.96		
	43	11.25	13753901.51	3246395.43	TOE	
	45	11.25	13753901.51	3246498.10	TOE	
	46	11.25	13754103.03	3246498.10	TOE	
	47	11.25	13754192.36	3246744.32	TOE	
	48	11.25	13754286.98	3246858.21	TOE	
	49	11.25	13754382.09	3246976.92	TOE	
	50	11.25	13754472.23	3247083.76	TOE	
l			3777 2123	000,70		j

		N16 EAST CHA DINATE AND E		I
Point #	Elevation	Northing	Easting	Description
51	11.25	13754576.63	3247205.13	TOE
52	11.25	13754680.35	3247326.94	TOE
53	11.25	13754770.96	3247433.67	TOE
54	11.25	13754861.56	3247540.40	TOE
55	11.25	13754965.11	3247662.38	TOE
56	11.25	13755052.61	3247766.99	TÕE
57	11.25	13755059,69	3247777.64	TOE
58	11.25	13755064.36	3247789.56	TOE
59	11.25	13755073.93	3247824.69	TOE
60	11.25	13755077.88	3247834.72	TOE
61	11.25	13755083.88	3247843.68	TOE
62	11.25	13755135.51	3247905.20	TOE
63	11.25	13755239.49	3248026.82	TOE
64	11.25	13755329.45	3248133.19	TOE
65	11.25	13755430.31	3248257.42	TOE
66	11.25	13755504.56	3248352.66	TOE
67	11.25	13755516.87	3248368.44	TOE
68	11.25	13755525.62	3248399.35	TOE
69	11.25	13755511.07	3248425,55	TOE
70	11.00	13753662.88	3246100.01	SHELF
71	11.00	13753696.06	3246140.71	SHELF
72	11.00	13753721.33	3246171.74	SHELF
73	11.00	13753759.28	3246218.25	SHELF
74	11.00	13753798.77	3246263.76	SHELF
75	11.00	13753811.72	3246279.00	SHELF
76	11.00	13753863.54	3246339.95	SHELF
77	11,00	13753907.04	3246390,84	SHELF
78	11.00	13753992.48	3246492.86	SHELF
79	11,00	13754030.97	3246538.88	SHELF
80	11.00	13754043,98	3246554.39	SHELF
81	11.00	13754108.63	3246630,70	SHELF
82	11.00	13754146.43	3246677.29	SHELF
83	11.00	13754171.59	3246708.09	SHELF
84	11.00	13754197.19	3246738.82	SHELF
85	11.00	13754292.61	3246853.55	SHELF
86	11.00	13754350.52	3246923.96	SHELF
87	11.00	13754388.54	3246970.37	SHELF
	11.00	13754418.51	3247007.14	
88				SHELF
89	11.00	13754479.11	3247077.90	SHELF
90	11.00	13754531.24	3247138.58	SHELF
91	11.00	13754583.18	3247199.64	SHELF
92	11.00	13754673.23	3247306.81	SHELF
93	11.00	13754777.83	3247427.91	SHELF
94	11.00	13754803.92	3247458.23	SHELF
95	11.00	13754828.87	3247489.51	SHELF
96	11.00	13754865.81	3247536.84	SHELF
97	11.00	13754890.51	3247568.33	SHELF
98	11.00	13754915.25	3247599.79	SHELF
99	11.00	13754940.46	3247630.85	SHELF
100	11.00	13754966.54	3247661.18	SHELF

	N16 EAST CHANNEL COORDINATE AND ELEVATIONS					
	Point #	Elevation	Northing	Easting	Description	
	101	11.00	13754992.71	3247691.44	SHELF	
	102	11.00	13755010.55	3247712.03	SHELF	
	103	11.00	13755039.59	3247745.33	SHELF	
	104	11.00	13755055.87	3247764.00	SHELF	
	105	11.00	13755107.25	3247824.50	SHELF	
7	106	11.00	13755158.43	3247885.09	SHELF	
	107	11.00	13755209.49	3247946.69	SHELF	
	108	11.00	13755261.39	3248007.57	SHELF	
	109	11.00	13755352.11	3248114.20	SHELF	
	110	11,00	13755455.21	3248236.56	SHELF	
	111	11.00	13755493.66	3248282.62	SHELF	
	112	11.00	13755506.41	3248298.03	SHELF	
	113	11.00	13755517.64	3248314.72	SHELF	
	114	11.00	13755525.39	3248334.31	SHELF	
	115	11.00	13755526.53	3248338.62	SHELF	
	116	11.00	13755528.84	3248357.51	SHELF	
	117	11.00	13755530.95	3248377.44	SHELF	
	118	11.00	13755534.10	3248384.94	SHELF	
	119	11.00	13755538.50	3248392.89	SHELF	
	120	11.00	13755538.56	3248393.27	SHELF	
	121	11.00	13755536.95	3248399.55	SHELF	
	122	11.00	13755536.11	3248401.35	SHELF	
	123	11.00	13755523.99	3248413.81	SHELF	
	124	11.00	13755514.28	3248423.63	SHELF	
	125	11.00	13755511.46	3248426.00	SHELF	

	N16 WEST CHANNEL COORDINATE AND ELEVATIONS					
Point #	Elevation	Northing	Easting	Description		
126	9.49	13751489.46	3243482.54	DESILT		
127	9.49	13751487.92	3243483.82	DESILT		
128	9.24	13751627.16	3243650.70	DESILT		
129	9.24	13751625.61	3243651.96	DESILT		
130	9.97	13751635.93	3243659.04	DESILT		
131	9.84	13751632.06	3243662.21	DESILT		
132	9.55	13751649.93	3243676.13	DESILT		
133	9.48	13751646.06	3243679.30	DESILT		
134	8.77	13751654.85	3243684.47	DESILT		
135	8.77	13751653.31	3243685.75	DESILT		
136	8.70	13751707.71	3243747.79	DESILT		
137	8.70	13751706.17	3243749.07	DESILT		
138	8.66	13751740.52	3243785.53	DESILT		
139	8.66	13751737.45	3243788.09	DESILT		
140	8.10	13752173.48	3244304.17	DESILT		
141	8.10	13752170.41	3244306.73	DESILT		
142	7.54	13752603.46	3244822.89	DESILT		
143	7.54	13752600.38	3244825,44	DESILT		
144	7.52	13752622.28	3244839.80	DESILT		
145	7.52	13752613.46	3244847.19	DESILT		
146	7.50	13752648.40	3244870.95	DESILT		
147	7.50	13752639.59	3244878.34	DESILT		
148	7.50	13752660.30	3244893.78	DESILT		
149	7.48	13752655.61	3244897.52	DESILT		
150	7.47	13753588.45	3246005.33	DESILT		
151	6.60	13753549.45	3245968.17	DESILT		
152	6.57	13753573.64	3246018.74	DESILT		
153	6.57	13753543.97	3245983.37	DESILT		
154	6.47	13753497.92	3246066.19	DESILT		
155	6.47	13753484.20	3246049.84	DESILT		
156	7.69	13753476.29	3246079.30	DESILT		
157	7.57	13753466.85	3246068.06	DESILT		
158	9.23	13751634.00	3243660.62	WINGWALL		
159	8.78	13751648.00	3243677.71	WINGWALL		
160	7.52	13752617.87	3244843.50	WINGWALL		
161	7.50	13752641.43	3244876.79	WINGWALL		
162	6.55	13753542.40	3246014.94	WINGWALL		
163	6.48	13753506.96	3246044.68	WINGWALL		

Point#	Elevation	Northing	Easting	Description
164	9.52	13752177.52	3247205.28	CONC
165	3.05	13752161.12	3247184.51	CONC
166	3.05	13752154.92	3247176.66	CONC
167	10.03	13752138.06	3247155,31	CONC
168	9.53	13752175,29	3247207.30	CONC
169	10.03	13752135.69	3247157.14	CONC
170	10.94	13752174.59	3247222.94	CONC
171	3.03	13752150.31	3247193.36	CONC
172	3.03	13752143.97	3247185.63	CONC
173	10.29	13752119.76	3247156.12	CONC
174	10.26	13752163.03	3247233.39	CONC
175	3.01	13752138.31	3247203.19	CONC
176	3.01	13752131.98	3247195.45	CONC
177	10.23	13752107.81	3247165.91	CONC
178	9.73	13752146.32	3247232.50	CONC
179	10.04	13752104.55	3247181.60	CONC
180	9.88	13752142.53	3247235.77	CONC
181	1.02	13752124.85	3247214.21	CONC
182	1.02	13752118.51	3247206.48	CONC
183	10.07	13752100.73	3247184.82	CONC
184	9.35	13752192.47	3247191.69	RIPRAP
185	10,34	13752153.77	3247143.19	RIPRAP
186	3.08	13752176.61	3247171.82	RIPRAP
187	3.07	13752170.38	3247164.00	RIPRAP
188	9.75	13752119.74	3247256.56	RIPRAP
189	9.86	13752079.00	3247203.78	RIPRAP
<b>190</b>	1.30	13752101.69	3247233.18	RIPRAP
191	1.31	13752095,58	3247225.26	RIPRAP

N16 10TH ST. CHANNEL

1

MOUNIKA JELLA

146004

VENSONAL ESS

2/12/25

1 2/12/25 ADJUSTTOB GT MJ DS
REVISION No. DATE REVISION DESCRIPTION MADE CHECKED APPROVED



ENGINEERING EXCELLENCE

GALVESTON COUNTY ENGINEERING DEPARTMENT

GALVESTON COUNTY ARPA BACLIFF DRAINAGE IMPROVEMENTS

COORDINATE AND ELEVATION TABLES

DESIGN BY: GWT DATE: 2/12/2025 SHEET No. 41 OF 86

DRAWN BY: JKC

APPROVED: MJ SCALE: N.T.S. JOB No. 5370-01

LEGEND

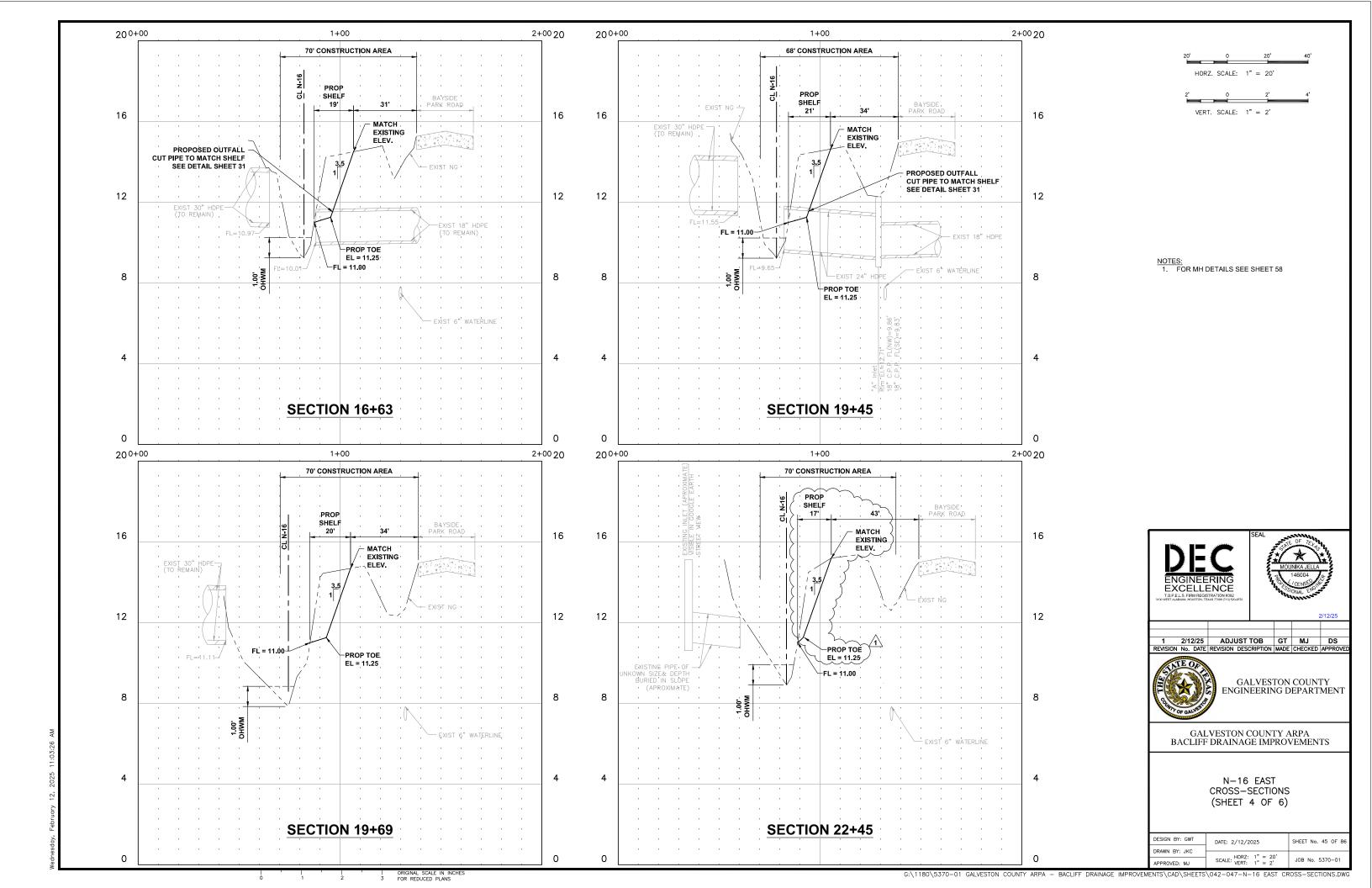
OB TOP OF BANK
OE TOE OF SLOPE

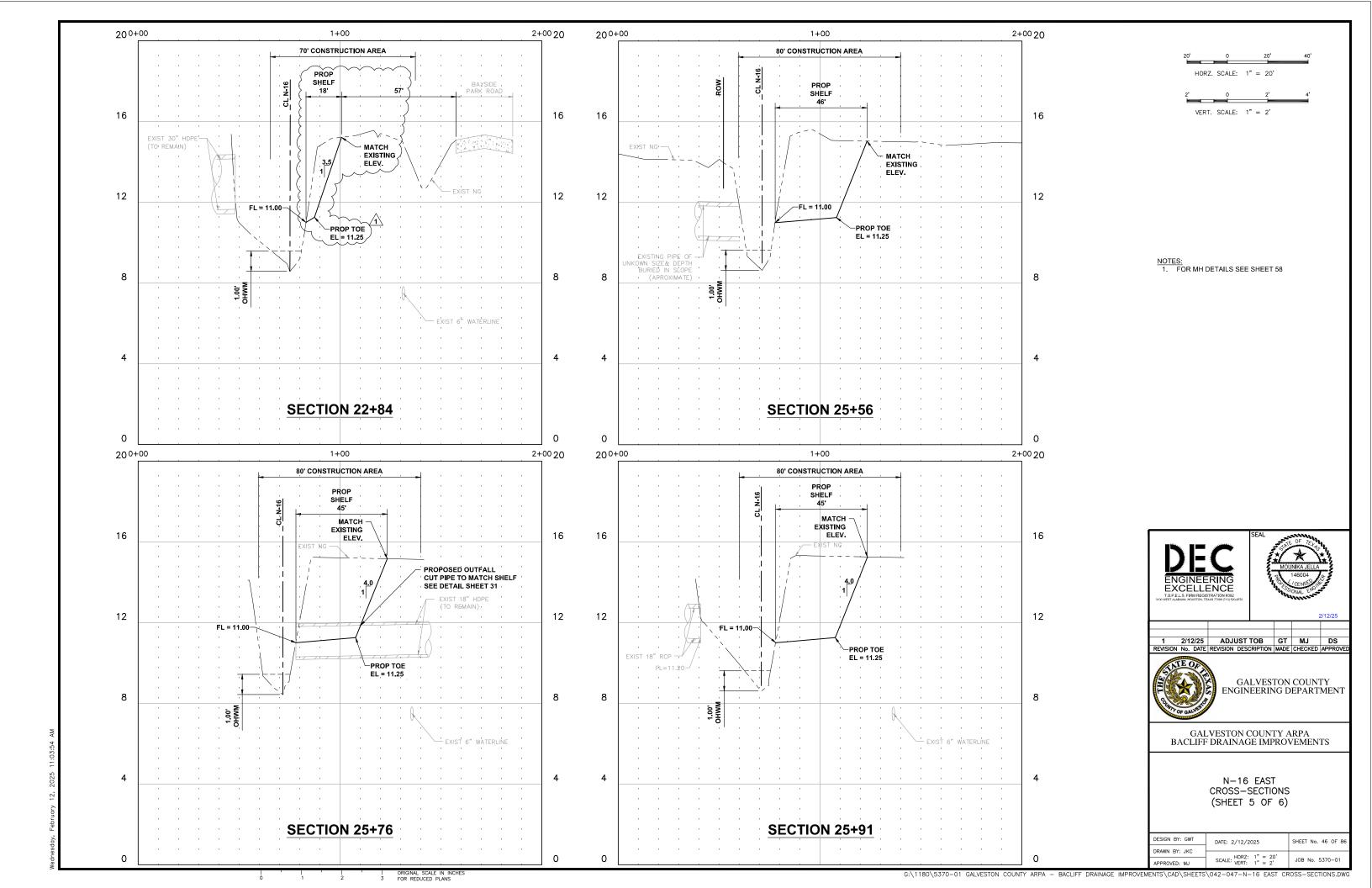
SHELF DAY LIGHT LINE AT EXISTING CHANNEL

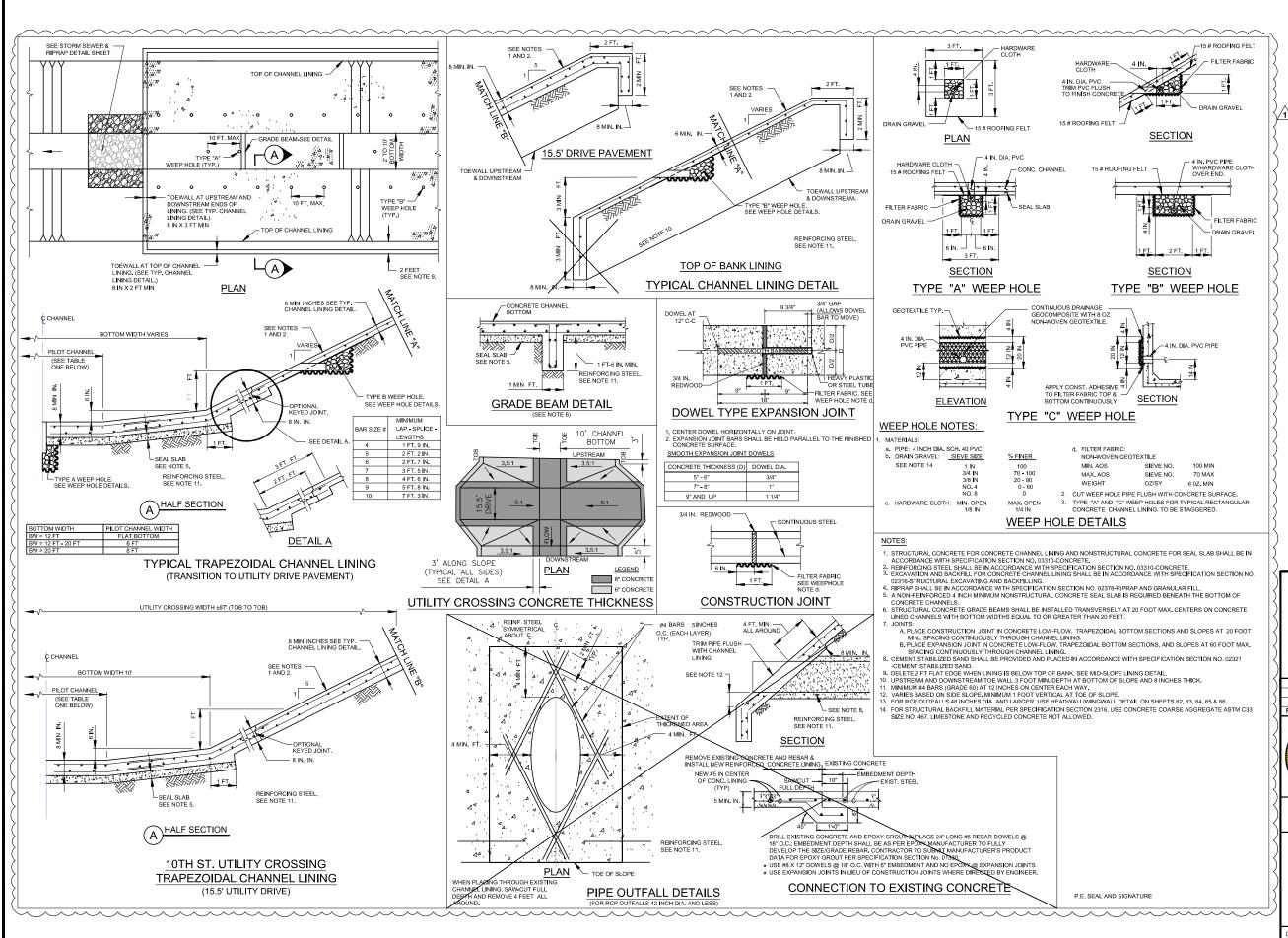
DESILT ELEVATION OF CHANNEL CLEANING

MATCH NG

THE COORDINATES SHOWN HEREON ARE SURFACE COORDINATES AND MAY BE BROUGHT TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.99987064.









GALVESTON COUNTY ENGINEERING DEPARTMENT

GALVESTON COUNTY ARPA BACLIFF DRAINAGE IMPROVEMENTS

UTLITY CROSSING PAVEMENT AND TRANSITIONS

DECION DV OVE			
DESIGN BY: GWT	DATE: 2/12/2025	SHEET No. 73B OF 86	
DRAWN BY: JKC			
DRAWN BI: JRC	HOP7.		
APPROVED: MJ	SCALE: HORZ: NO SCALE	JOB No. 5370-01	