hwab, Kay

From: Schwab, Kay
Sent: Thursday, May 22, 2014 10:49 AM
To: 'Michelle Bickham'; 'Jenniffer L. Sheppard'
Cc: sonja.loyd@la.gov; Shaikh, Taimur; Chen, Isaac; Kaspar, Paul
Subject: REVISED: Taim availability

Sorry I messed up. Taim will be out next week (week of May 26).
Thanks
K

From: Schwab, Kay
Sent: Thursday, May 22, 2014 10:06 AM
To: 'Michelle Bickham'; 'Jenniffer L. Sheppard'
Cc: sonja.loyd@la.gov; Shaikh, Taimur; Chen, Isaac; Kaspar, Paul
Subject: FW: LOOP CORMIX Modeling for the brine discharge

Hi Michelle & Jennifer,
I know that Sonja is out Th & F so forwarding this to you just to let you where things are at.

(Taim will be out of the office the week of June 2nd, so if we need to follow-up on this we do so the week of June 9th.)
Thanks
K

From: Shaikh, Taimur
Sent: Thursday, May 22, 2014 9:24 AM
To: sonja.loyd@la.gov
Cc: Chen, Isaac; Schwab, Kay; Larsen, Brent; Kaspar, Paul; Wooster, Richard
Subject: LOOP CORMIX Modeling for the brine discharge

Hi Sonja,

I have completed the LOOP brine discharge model based on the information provided. The concentration at the edge of the mixing zone is 7.63 % effluent. The session report is attached. Please let me know if you need anything else.

Thanks so much.

Taim.

Taimur A. Shaikh, Ph.D.
Oklahoma TMDL coordinator
Water Quality Protection Division
EPA Region 6
1445 Ross Ave. (6WQ-PT)
Dallas, TX 75202-2733
Phone: (214)665-7181
Fax: (214)665-2191

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Sent: Thursday, May 22, 2014 10:06 AM
To: 'Michelle Bickham'; 'Jenniffer L. Sheppard'
Cc: sonja.loyd@la.gov; Shaikh, Taimur; Chen, Isaac; Kaspar, Paul
Subject: FW: LOOP CORMIX Modeling for the brine discharge
Attachments: LA0049492_Brine.ses

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I know that Sonja is out Th & F so forwarding this to you just to let you where things are at.

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See revised

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EPA Region 6
1445 Ross Ave. (6WQ-PT)
Dallas, TX 75202-2733
Phone: (214)665-7181
Fax: (214)665-2191

Schwab, Kay

From: Schwab, Kay
Sent: Wednesday, May 21, 2014 2:50 PM
To: Shaikh, Taimur; Chen, Isaac
Cc: Kaspar, Paul; 'Jenniffer L. Sheppard'; 'Michelle Bickham'; 'Sonja Loyd'; Larsen, Brent
Subject: RE: LOOP Brine Diffuser

Taim/Isaac,
Just talked to Sonja & she had talked to Cindy (LOOP) who believes that the distances discussed below in closer to 2.5 miles. It has not been measured recently and could have changed some due to storms, etc. ....
K

From: Schwab, Kay
Sent: Wednesday, May 21, 2014 2:24 PM
To: 'Sonja Loyd'
Cc: Shaikh, Taimur; Chen, Isaac; Kaspar, Paul; Jenniffer L. Sheppard; Michelle Bickham
Subject: RE: LOOP 30-inch Brine Diffuser Drawings

Hi Sonja,
Taim just got out of his meeting & we took a look at Figure 1 in the application to get an "estimate" of 3 miles for the length of the 30" O.D. Brine Pipeline **from the shoreline to the diffuser**.
Please confirm this estimate or provide more accurate info.
Thanks
K

From: Sonja Loyd [mailto:Sonja.Loyd@LA.GOV]
Sent: Wednesday, May 21, 2014 12:46 PM
To: Schwab, Kay
Cc: Shaikh, Taimur; Chen, Isaac; Kaspar, Paul; Jenniffer L. Sheppard; Michelle Bickham
Subject: FW: LOOP 30-inch Brine Diffuser Drawings

FYI

From: Gardner-Leblanc, Cynthia [mailto:cgleblanc@loopllc.com]
Sent: Wednesday, May 21, 2014 11:56 AM
To: Sonja Loyd
Cc: Gardner-Leblanc, Cynthia; 'Doug LaBar' (doug.labar@c-ka.com)
Subject: LOOP 30-inch Brine Diffuser Drawings

Sonja,

Attached are two drawings that should assist with understanding the design and orientation of the LOOP 30-inch Brine Diffuser.

Cindy

Cynthia A. Gardner-LeBlanc
Senior Regulatory Representative
LOOP LLC
(985) 276-6299

Schwab, Kay

From: Schwab, Kay
Sent: Wednesday, May 21, 2014 2:24 PM
To: 'Sonja Loyd'
Cc: Shaikh, Taimur; Chen, Isaac; Kaspar, Paul; Jenniffer L. Sheppard; Michelle Bickham
Subject: RE: LOOP 30-inch Brine Diffuser Drawings

Hi Sonja,
Taim just got out of his meeting & we took a look at Figure 1 in the application to get an "estimate" of 3 miles for the length of the 30" O.D. Brine Pipeline **from the shoreline to the diffuser.**
Please confirm this estimate or provide more accurate info. 5/21/14
Thanks
K

From: Sonja Loyd [mailto:Sonja.Loyd@LA.GOV]
Sent: Wednesday, May 21, 2014 12:46 PM
To: Schwab, Kay
Cc: Shaikh, Taimur; Chen, Isaac; Kaspar, Paul; Jenniffer L. Sheppard; Michelle Bickham
Subject: FW: LOOP 30-inch Brine Diffuser Drawings

FYI

From: Gardner-Leblanc, Cynthia [mailto:cgleblanc@loopllc.com]
Sent: Wednesday, May 21, 2014 11:56 AM
To: Sonja Loyd
Cc: Gardner-Leblanc, Cynthia; 'Doug LaBar' (doug.labar@c-ka.com)
Subject: LOOP 30-inch Brine Diffuser Drawings

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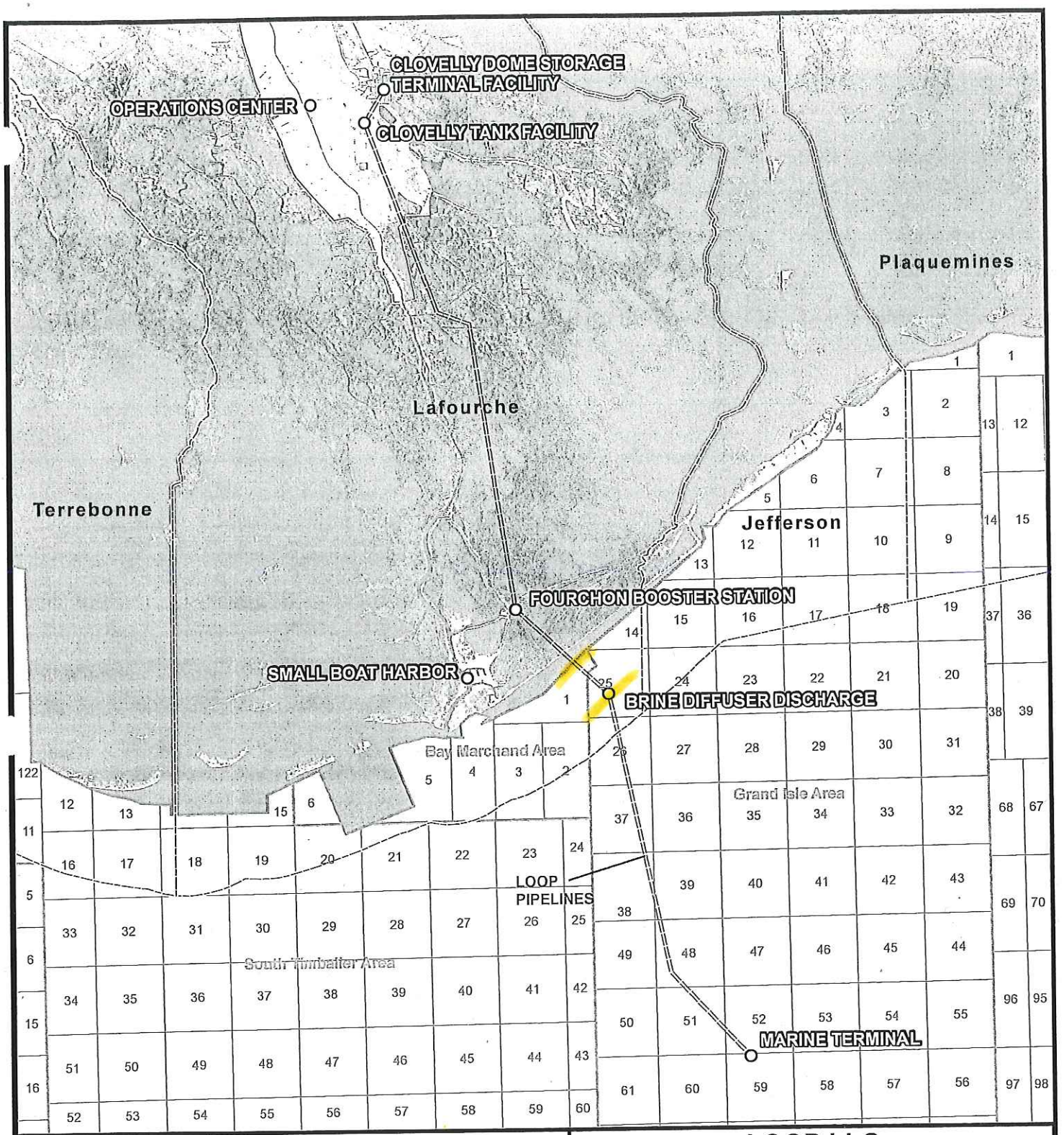
Cindy

Cynthia A. Gardner-LeBlanc
Senior Regulatory Representative
LOOP LLC
(985) 276-6299
Fax (985) 276--6290
cgleblanc@loopllc.com



N
W E
S

6 3 0
Miles

Reference

IMAGERY: LANDSAT 2002 LA

esri Partner Network

LOOP LLC

DEEPWATER PORT COMPLEX

LPDES PERMIT RENEWAL APPLICATION

VICINITY MAP

LAFOURCHE PARISH

C-K ASSOCIATES, LLC
ENVIRONMENTAL & ENGINEERING CONSULTANTS

Drawn:	CAL/AM10.1
Checked:	WCD
Approved:	DJL
Date:	1/3/13
Dwg. No.:	A8873-01

FIGURE 1

Schwab, Kay

From: Sonja Loyd <Sonja.Loyd@LA.GOV>
Sent: Wednesday, May 21, 2014 12:45 PM
To: Schwab, Kay
Cc: Shaikh, Taimur; Chen, Isaac; Kaspar, Paul; Jenniffer L. Sheppard; Michelle Bickham
Subject: FW: LOOP LLC, Deepwater Port Complex (PER20130001, LA0049492, AI 4634)

Kay,

The information requested by Taim is listed in red below...Please let me know if additional information is needed...I will be forwarding a second email that includes technical drawings of the diffuser.

Sonja

From: Gardner-Leblanc, Cynthia [mailto:cgleblanc@loopllc.com]
Sent: Wednesday, May 21, 2014 11:36 AM
To: Sonja Loyd
Cc: Gardner-Leblanc, Cynthia; 'Doug LaBar' (doug.labar@c-ka.com)
Subject: RE: LOOP LLC, Deepwater Port Complex (PER20130001, LA0049492, AI 4634)

Sonja,

Please see the information below. I will forward a drawing under a separate email.

Please let me know if you need anything else.

Cindy

Cynthia A. Gardner-LeBlanc
Senior Regulatory Representative
LOOP LLC
(985) 276-6299
Fax (985) 276--6290
cgleblanc@loopllc.com

From: Sonja Loyd [mailto:Sonja.Loyd@LA.GOV]
Sent: Wednesday, May 14, 2014 12:29 PM
To: Gardner-Leblanc, Cynthia
Cc: 'Doug LaBar'
Subject: LOOP LLC, Deepwater Port Complex (PER20130001, LA0049492, AI 4634)

Hello Cindy,

I'm in need of the following information for the Outfall 004 diffuser:

1. Maximum flow rate in bbl/day
   225,000 to 250,000 barrels per day
2. Density of the brine
   1.2 specific gravity
3. The depth of the diffuser at the discharge point
   The diffuser is approximately 40 to 50 feet below the surface of water on the Gulf of Mexico floor.

4. Diffuser parameters and description
   a. Diffuser length

      Approximately 515 feet
   b. Port height

      The ports on the diffuser are 4-inch pipes that extend 3 to 4 inches above the top of the 30-inch diffuser pipe.
   c. Port diameter

      4-inches
   d. Total # of ports

      26
   e. # of risers if any

      None
5. A description of the configuration and orientation of ports/nozzles (include any technical drawings of the diffuser array).

   The diffuser is a 30-inch, straight pipe that branches off of the end of the 30-inch brine disposal line. The ports are evenly spaced in straight line on the top of the diffuser pipe. The ports extend up 3 to 4 inches above the top of the pipe. The diffuser is located on the sea floor.

Take care,
Sonja

Schwab, Kay

From: Sonja Loyd <Sonja.Loyd@LA.GOV>
Sent: Wednesday, May 21, 2014 12:46 PM
To: Schwab, Kay
Cc: Shaikh, Taimur; Chen, Isaac; Kaspar, Paul; Jenniffer L. Sheppard; Michelle Bickham
Subject: FW: LOOP 30-inch Brine Diffuser Drawings
Attachments: 730PP005.TIF; 730PP006.TIF

FYI

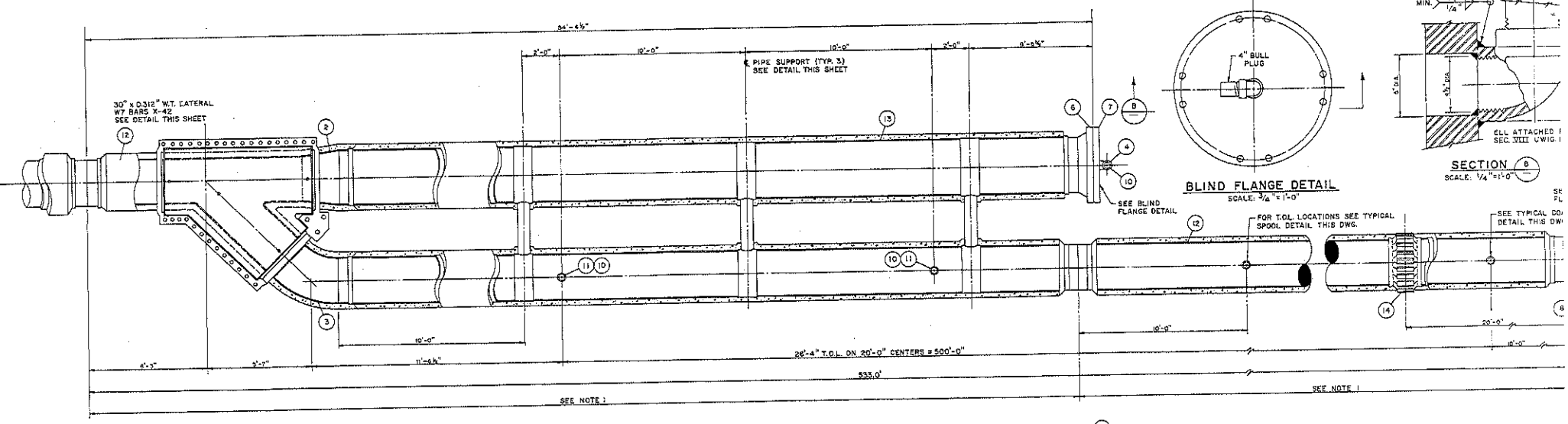
From: Gardner-Leblanc, Cynthia [mailto:cgleblanc@loopllc.com]
Sent: Wednesday, May 21, 2014 11:56 AM
To: Sonja Loyd
Cc: Gardner-Leblanc, Cynthia; 'Doug LaBar' (doug.labar@c-ka.com)
Subject: LOOP 30-inch Brine Diffuser Drawings

Sonja,

Attached are two drawings that should assist with understanding the design and orientation of the LOOP 30-inch Brine Diffuser.

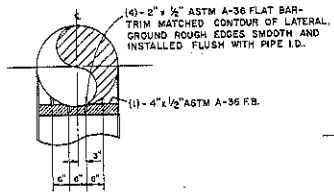
Cindy

Cynthia A. Gardner-LeBlanc
Senior Regulatory Representative
LOOP LLC
(985) 276-6299
Fax (985) 276--6290
cgleblanc@loopllc.com

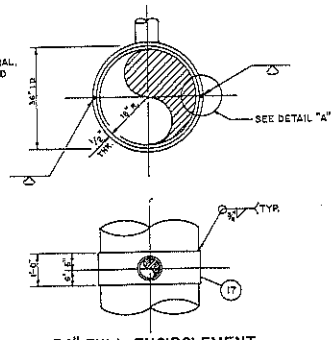


BLIND FLANGE DETAIL
SCALE: 3/4" = 1'-0"

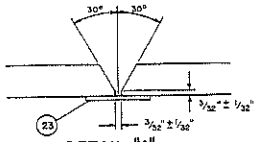
SECTION 8
SCALE: 1/4" = 1'-0"



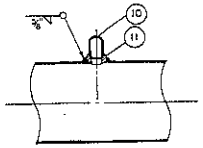
SECTION A
SCALE: 1/2" = 1'-0"



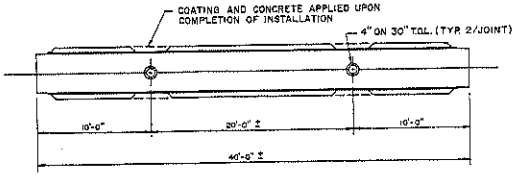
36" FULL ENCIRCLEMENT SLEEVE DETAIL
SCALE: 1/2" = 1'-0"



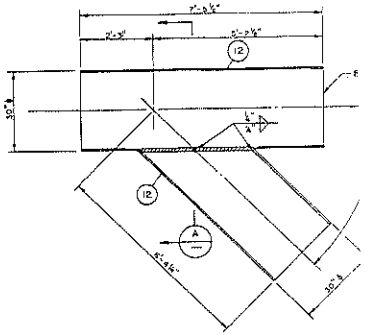
DETAIL "A"
SCALE: NONE



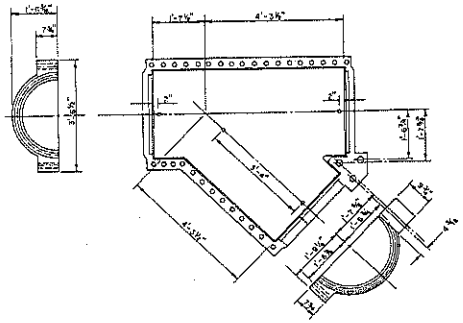
DIFFUSER OUTLET DETAIL
TWENTY SIX (26) REQUIRED
SCALE: 1/2" = 1'-0"



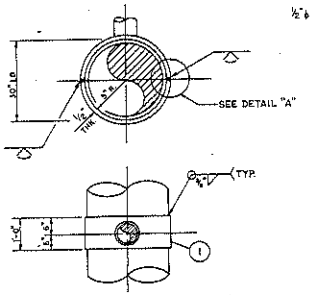
TYPICAL SPOOL DETAIL
THIRTEEN INSTALLED
SCALE: NONE



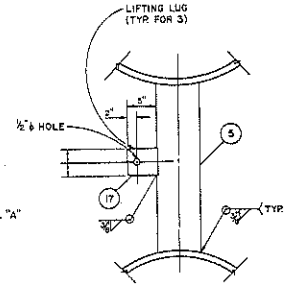
STRAIGHT WELD LATERAL
FABRICATION DETAIL
SCALE: 1/2" = 1'-0"



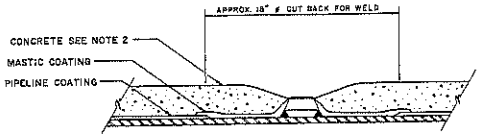
30" SPECIAL SPLIT-REPAIR
OVERSLEEVE
SCALE: 1/2" = 1'-0"



30" FULL ENCIRCLEMENT
SLEEVE DETAIL
SCALE: 1/2" = 1'-0"



BRACE DETAIL
THREE INSTALLED
SCALE: 1" = 1'-0"



TYPICAL COATING DETAIL
SCALE: NONE

NOTES

1. THREADOLETS INSTALLED ON CORROSION (3/8" ASPHALT MASTIC) AND CONCRETE (3.75" THK. 190 LB/FT³) COATED PIPE.
2. FOR BILL OF MATERIAL SEE DWG. AD-PL-1033.

REFERENCE DRAWINGS	
NUMBER	TITLE
AD-M-1010A	AS-BUILT ALIGNMENT SHEET
AD-PL-1033	AS-BUILT 30" BRINE DIFFUSER (PLAN & PROFILE)

REV. NO.	REVISION	BY	DATE	CHK.

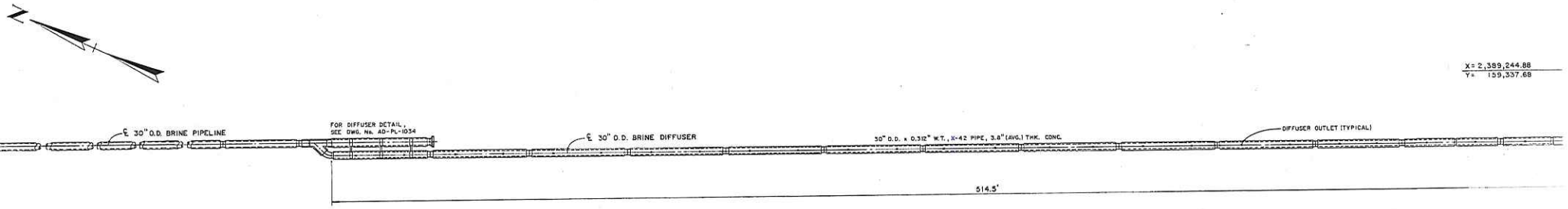
Eagleton Engineering Co.
HOUSTON, TEXAS

	DRAWN	CHECKED	APPROVED E.E.C.	APPROVED CLIENT
BY	B. HILL			
DATE	12-12-80	12-22-80	DEC 22 80	

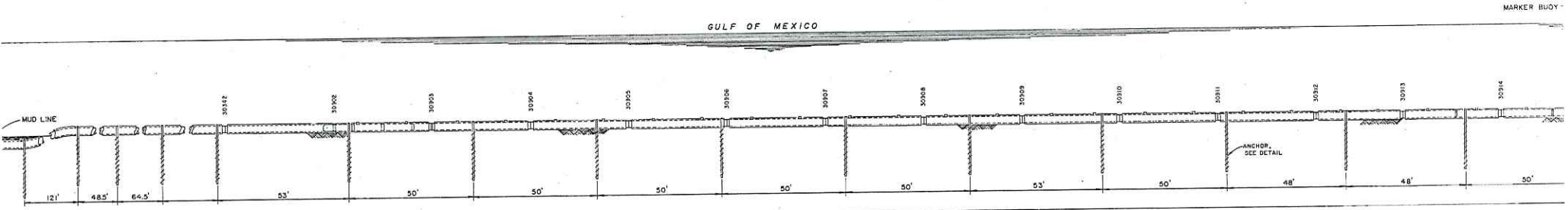
LOOP INC.
AS-BUILT DETAILS
30" O.D. BRINE DIFFUSE
GULF OF MEXICO

SCALE	PROJECT NO.	DRAWING
SHOWN	LOOP	AD-PL

730-P

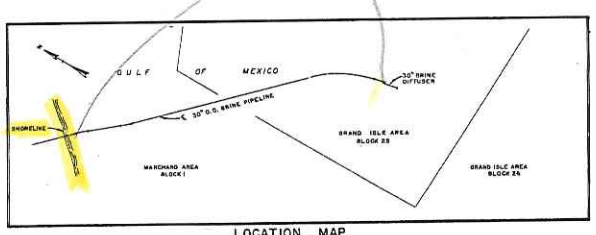


PLAN
SCALE: 1" = 20'

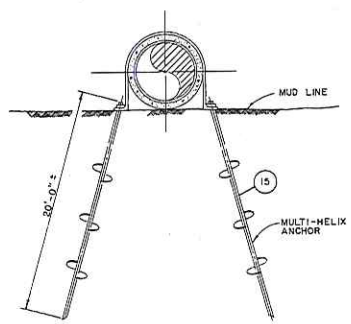


PROFILE
SCALE: HORIZ. 1" = 20'
VERT. 1" = 20'

estimate per Fig 1
in applic
as 3 miles



LOCATION MAP
NOT TO SCALE



ANCHOR DETAIL
16 INSTALLED FOR 37 3/16" O.D. PIPE
ONE(1) INSTALLED FOR 43 3/16" O.D. PIPE
SCALE : NONE

BILL OF MATERIAL

MK.	QUAN.	DESCRIPTION	PU N
1	1	30" LATERAL W/BARS X-42 (0.312" W.T.)	
2	1	36" (0.375" W.T.) X 30" (0.312" W.T.) CONC. REDUCER	
3	1	30" (0.312" W.T.) 45° L.R. ELL X-42	
4	2	4"-3000# F.S. SCRD. 90° ELL	2
5	9	8" X 0.500" W.T. PIPE, GR. B	
6	1	36"-300# R.F.W.N. FLANGE (35.250" BORE)	
7	1	36"-300# R.F. BLIND FLANGE (C.D. 5" DIA.)	
8	1	30"-300# R.F.W.N. FLANGE (29.250" BORE)	
9	1	30"-300# R.F. BLIND FLANGE (C.D. 5" DIA.)	
10	28	4" BULL PLUG SCRD. GR. B	2
11	26	30" X 4" F.S. 3000# THREADOLET	2
12	537'	30" X-42 PIPE (0.312" W.T.)	
13	40'	36" X-42 PIPE (0.375" W.T.)	
14	2	30" ZINC ANODE BRACELETS	
15	17 SETS	MULTI-HELIX ANCHOR, 1 1/4" DIA. ROD, GALV. 15'-0"	
		LG., COMPLETE W/PAD, DRIVE COUPLING & BRACKET	
16	2	FIBERGLASS BUOY COMPLETE W/LANTERN W/	
		FLASHER, BATTERIES, CORNER RADAR REFLECTOR	
		3/4" Ø CHAFE CHAIN 50' LG., CHAIN MOORING	
		BRIDLE & 3000# ANCHOR	
17	54 SQ. FT.	1/2" THK. PL (C.S.)	
18	34	ANCHOR EXTENSION, 5'-0" LG., 1 1/4" Ø, GALV.	
19	1	36" GASKET, SPIRAL WOUND S.S. 300# R.F.	2
20	1	30" GASKET, SPIRAL WOUND S.S. 300# R.F.	2
21	32	2" Ø x 12 1/2" LONG STUD BOLT W/2 H.H. NUTS	2
22	28	1 3/4" Ø x 11" LONG STUD BOLT W/2 H.H. NUTS	2
23	12 FT.	1" x .067" STEEL STRAP	

REFERENCE DRAWINGS	
NUMBER	TITLE
AD-PL-1034	AS-BUILT BRINE DIFFUSER DETAILS
AD-M-1010A	AS-BUILT ALIGNMENT SHEET

REV. NO.	REVISION	BY	DATE	CKD.

Eagleton Engineering Co.
HOUSTON, TEXAS

	DRAWN	CHECKED	APPROVED
BY	S.L.H.		
DATE	12-13-80	12-22-80	12-22-80

LOOP INC.
AS-BUILT PLAN & PROFIL
30" O.D. BRINE DIFFUSE
GULF OF MEXICO

SCALE	PROJECT NO.	DRAWING
AS NOTED	LOOP	AD-PL

230-P