



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, NEW ORLEANS DISTRICT
7400 LEAKE AVENUE
NEW ORLEANS LA 70118-3651

March 20, 2023

Regulatory Division
Western Evaluation Branch

Project Manager:
Johnny J. Duplantis
(504) 862-2548
johnny.j.duplantis@usace.army.mil

Application #: MVN-2023-00293-WPP

PUBLIC NOTICE

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [**X**] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344), and/or [] Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. Section 408).

INSTALLATION OF A 6" FUEL GAS PIPELINE IN THE GULF OF MEXICO

NAME OF APPLICANT: Manta Ray Gathering Company, LLC, 811 Louisiana Street, Suite 1200, Houston, Texas 77002.

LOCATION OF WORK: Located in the Gulf of Mexico, off the coast of Cameron Parish, Louisiana, beginning in West Cameron Area, Block 167 Platform "M" and terminating in High Island Area, Block A5 at Platform "C", Point of Beginning latitude 29.3872797, longitude -93.4413128, Point of Ending latitude 29.1354367, longitude -93.9988945, as shown within the enclosed drawings

CHARACTER OF WORK: The installation of approximately 40.5 statute miles of 6-inch diameter fuel gas pipeline. The proposed pipeline would begin in the West Cameron Area, Block 167 at Platform 'M', and would terminate in the High Island Area, Block A5, at Platform 'C'. The proposed pipeline would cross the Sabine Pass Fairway at West Cameron 306 and 307. The proposed project does not include a discharge of fill material into waters of the US and/or include any wetland impacts or effects to special aquatic sites. The applicant has not proposed to provide compensatory mitigation, as there are no plans to impact wetlands resources through project construction.–

The comment period on the requested Department of the Army Permit will close **15 days** from the date of this public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit request, and must be submitted so as to be received before or by the last day of the comment period. Letters and/or comments concerning the subject permit application must reference the Applicant's Name and the Permit Application Number and can be preferably emailed to the Corps of Engineers project manager listed above or forwarded to the Corps of Engineers at the address above, **ATTENTION: REGULATORY DIVISION, RGW, Johnny Duplantis**. Individuals or parties may also request an extension of time in which to comment on the proposed work by mail or preferably by emailing the specified project manager listed above. Any request for an extension of time to comment must be specific and substantively supportive of the requested extension and received by this office prior to the end of the initial comment period. The Branch Chief will review the request and the requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous and inclusive of the initial comment period and will not exceed a total of 30 calendar days. This public notice is also available for review online at <https://go.usa.gov/xennJ>

Corps of Engineers Permit Criteria

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the

National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New Orleans District is presently unaware of properties listed on the National Register of Historic Places at or near the proposed work but is pending further review in accordance with the National Historic Preservation Act. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. As deemed necessary, copies of this public notice will be sent to the State Archeologist, State Historic Preservation Officer, and federally listed tribes regarding potential impacts to cultural resources.

Our initial finding is that the proposed work would neither affect any species listed as endangered by the U.S. Departments of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species. Based on the Information Planning and Consultation (IPaC) tool for Endangered Species in Louisiana, as signed on January 27, 2020, between the U.S. Army Corps of Engineers, New Orleans and the U.S. Fish and Wildlife Service, it has been determined that the project would have no effect to any listed species.

Our initial finding is that the proposed work would have no effect on any species listed as endangered by the U.S. Department of Commerce, nor affect any habitat designated as critical to the survival and recovery of any such species.

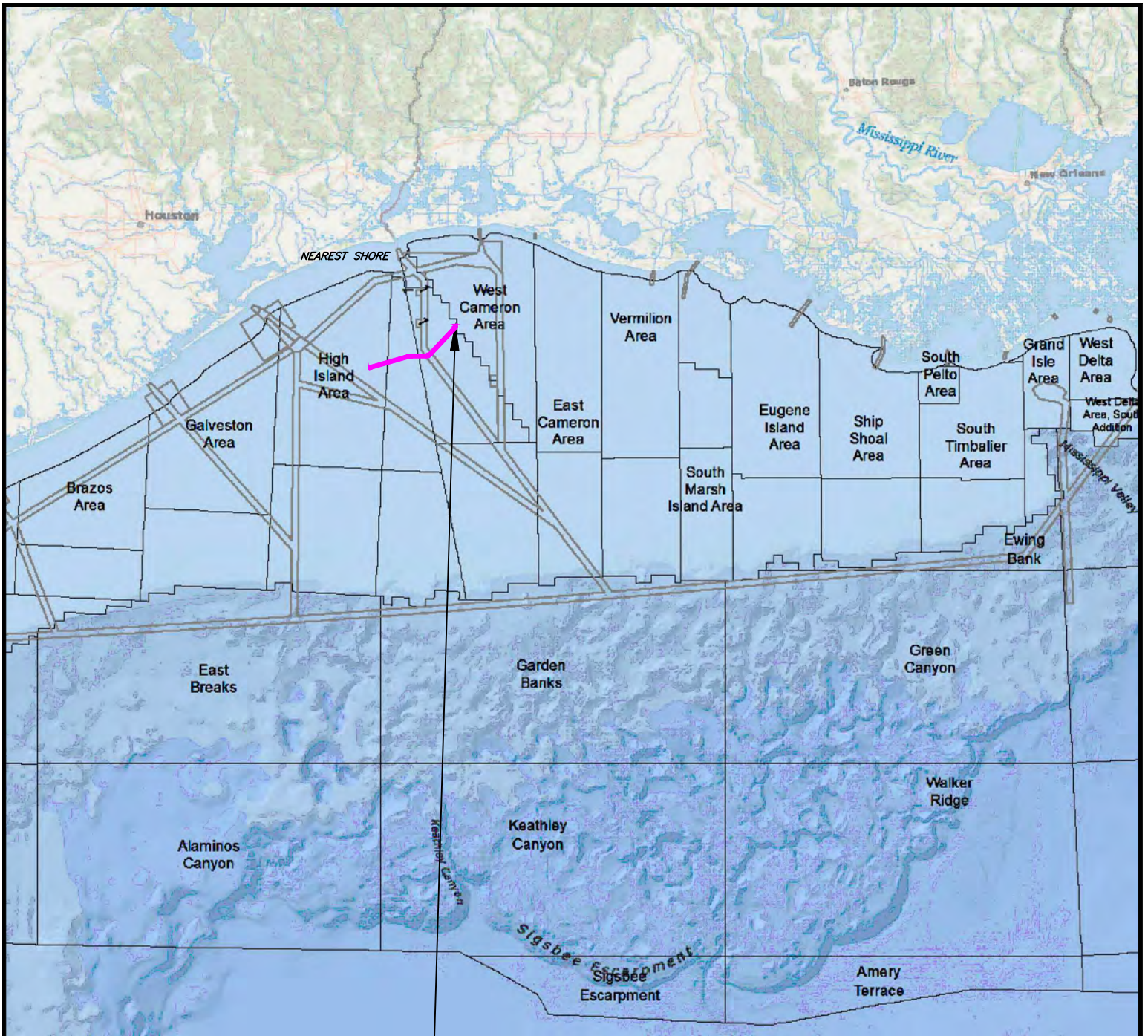
This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal may result in the destruction, alteration, and/or disturbance of **0 acres** of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

Any person may request within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state with particularity, the reasons for holding a public hearing, and can be preferably emailed to the USACE project manager listed above or mailed to the address listed above.

You are invited to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

Darrell S. Barbara
Chief, Western Evaluation Branch
Regulatory Division

Enclosures



PROPOSED PIPELINE ROUTE

~26 STATUTE (~23 NAUTICAL) MILES TO CAMERON PARISH (NEAREST SHORE)
 COORDINATE TO NEAREST POINT ON SHORELINE X = 1,340,372.45 Y = 406,054.67
 ~196 STATUTE (~170 NAUTICAL) MILES TO PORT FOURCHON, LA
 ~165 STATUTE (~143 NAUTICAL) MILES TO HOUMA HELIPORT, HOUMA, LA
 ~314 STATUTE (~273 NAUTICAL) MILES TO RICE'S WHALE AREA

Manta Ray Gathering Company, L.L.C.

PROPOSED 6" GAS PIPELINE
 BLOCK 167, WEST CAMERON AREA TO
 BLOCK A5, HIGH ISLAND AREA
 GULF OF MEXICO

DATUM: NAD 27

PROJECTION: LAMBERT

SPHEROID: CLARKE 1866

ZONE: LA SOUTH

Echo OFFSHORE LLC

36499 Perkins Road
 Prairieville, Louisiana 70769
 Tel: 225-673-2163

LOUISIANA LAND SURVEYING
 9522 Brookline Ave., Suite 107
 Baton Rouge, Louisiana 70809
 225-753-5263 (LAND)
 info@lalandsurvey.com

DRAWN BY: RJN

DATE: 11/28/2022

JOB No.: 22-039

DWG No.: 22-039-PERM

REV. No.:

REV. DATE:

SCALE: N.T.S.

SHEET 1 OF 18

WC167

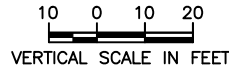
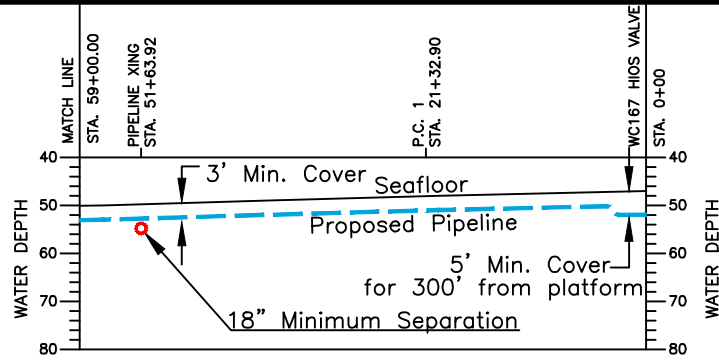
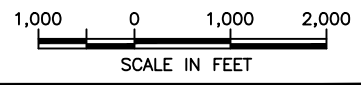
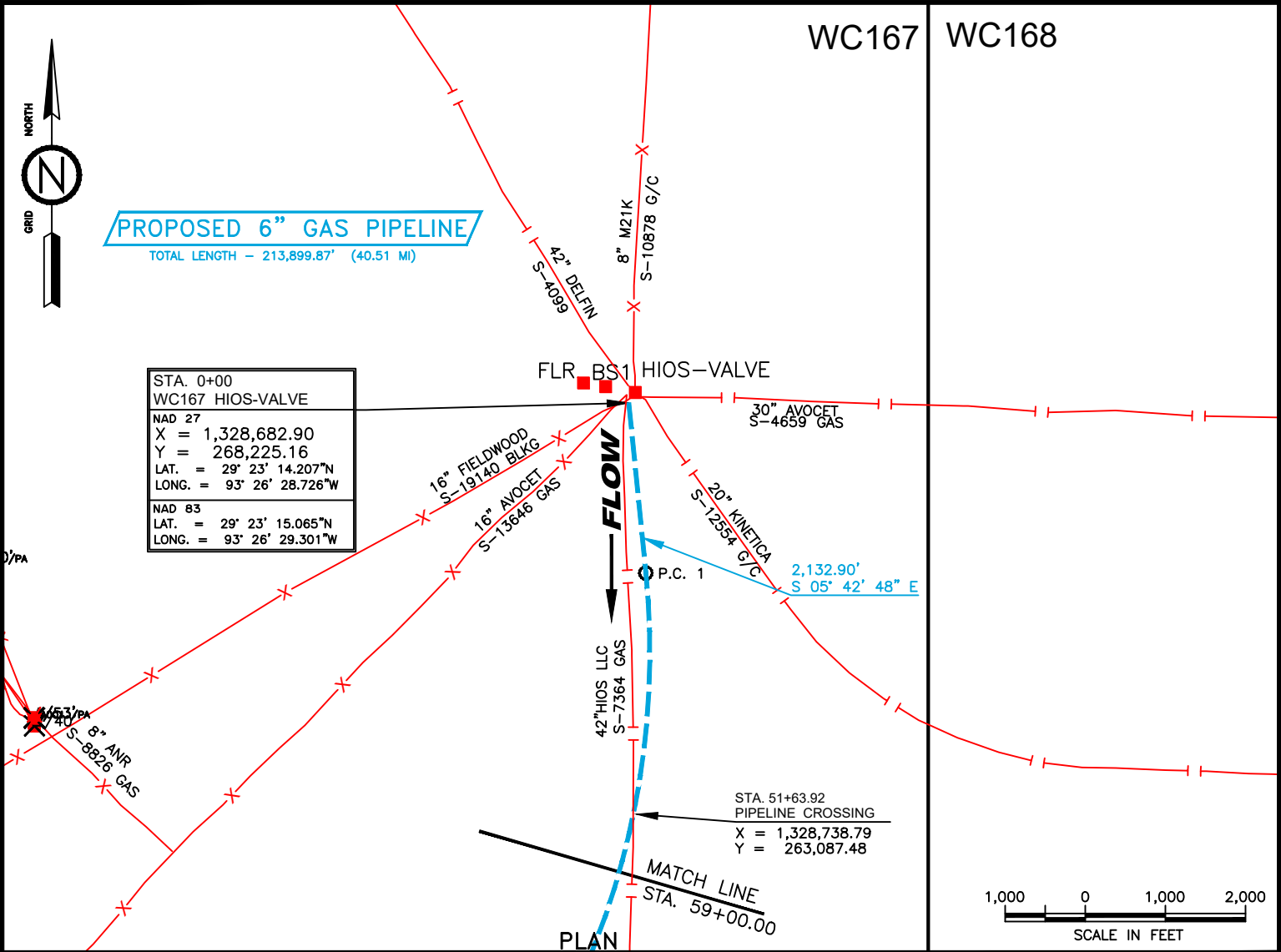
WC168



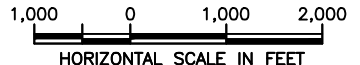
PROPOSED 6" GAS PIPELINE
TOTAL LENGTH - 213,899.87' (40.51 MI)

STA. 0+00	
WC167 HIOS-VALVE	
NAD 27	
X =	1,328,682.90
Y =	268,225.16
LAT. =	29° 23' 14.207"N
LONG. =	93° 26' 28.726"W
NAD 83	
LAT. =	29° 23' 15.065"N
LONG. =	93° 26' 29.301"W

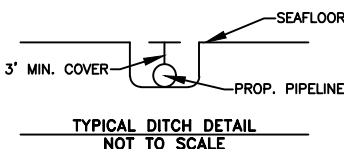
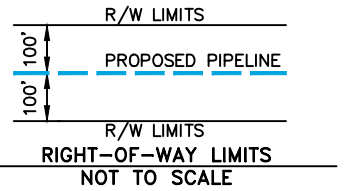
FLR BS1 HIOS-VALVE



PROFILE



THIS IS TO CERTIFY THAT THIS PLAT WAS PREPARED BASED ON ACCEPTED INDUSTRY STANDARDS TO THE BEST OF MY KNOWLEDGE.



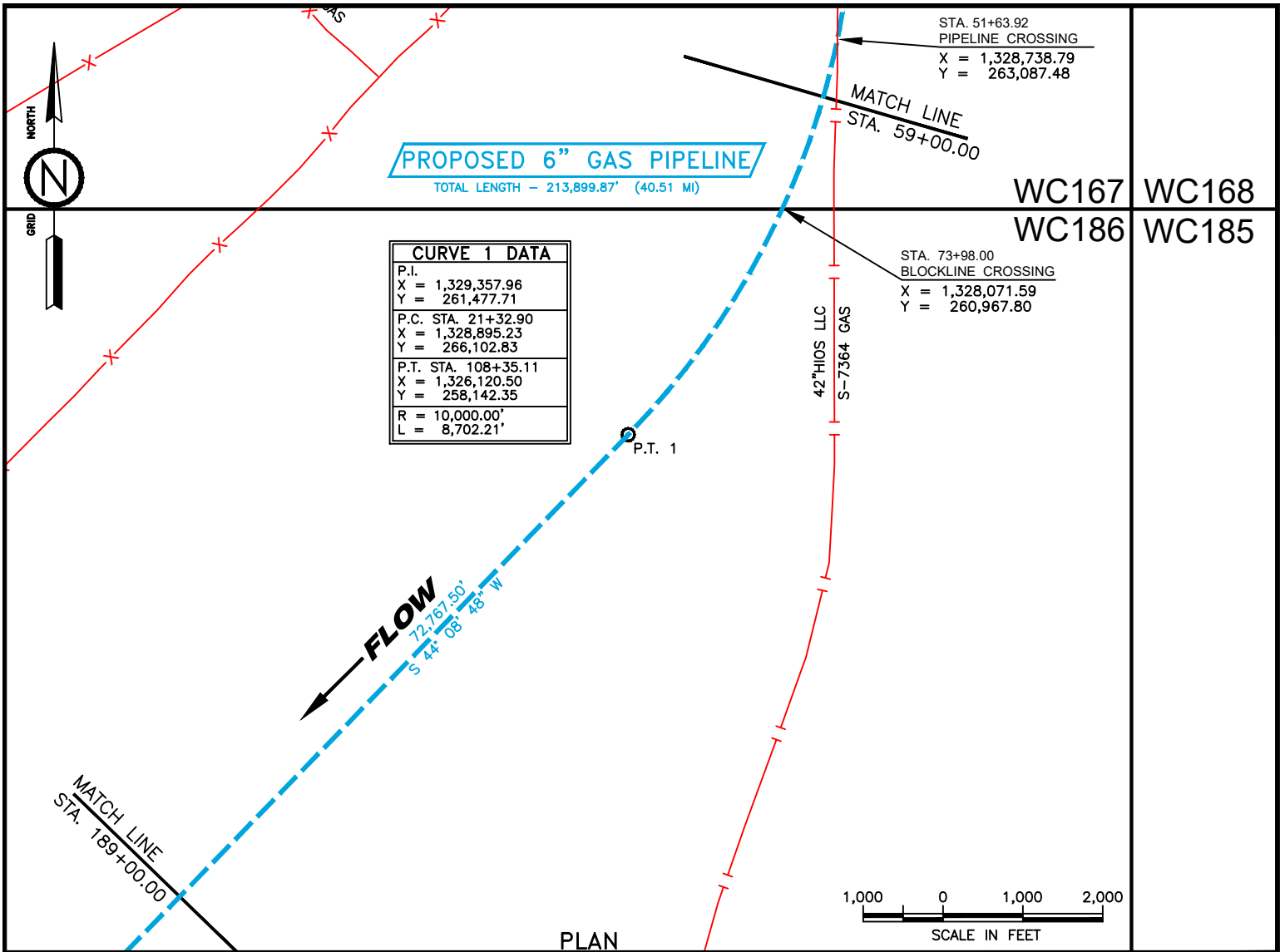
Manta Ray Gathering Company, L.L.C.

PROPOSED 6" GAS PIPELINE
BLOCK 167, WEST CAMERON AREA TO
BLOCK A5, HIGH ISLAND AREA
GULF OF MEXICO

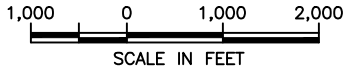
DATUM: NAD 27	PROJECTION: LAMBERT
SPHEROID: CLARKE 1866	ZONE: LA SOUTH

	36499 Perkins Road Prairieville, Louisiana 70769 Tel: 225-673-2163		9522 Brookline Ave., Suite 107 Baton Rouge, Louisiana 70809	225-753-5263 (LAND) info@islandsurvey.com
	DRAWN BY: RJN		DATE: 11/28/2022	

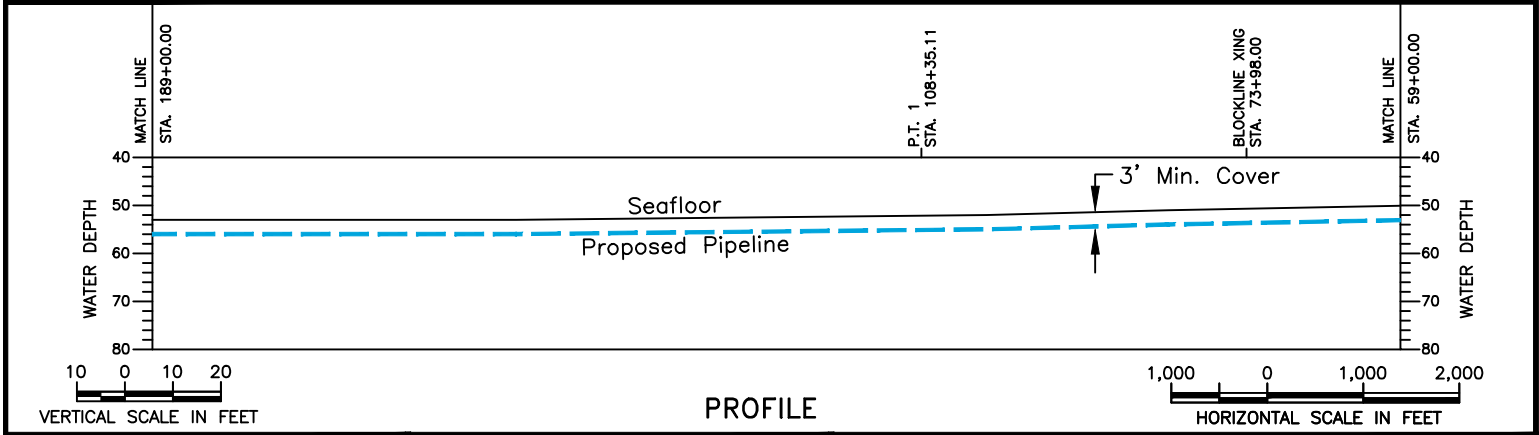
JOB No.: 22-039	DWG No.: 22-039-PERM
SCALE: 1"=2,000'	SHEET 2 OF 18



CURVE 1 DATA	
P.I.	
X =	1,329,357.96
Y =	261,477.71
P.C. STA.	21+32.90
X =	1,328,895.23
Y =	266,102.83
P.T. STA.	108+35.11
X =	1,326,120.50
Y =	258,142.35
R =	10,000.00'
L =	8,702.21'



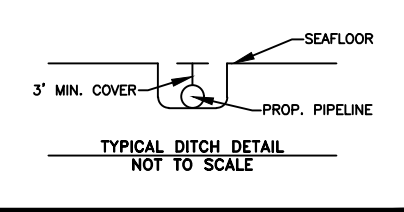
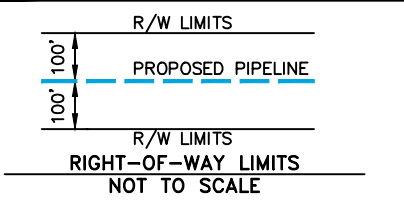
PLAN



PROFILE

THIS IS TO CERTIFY THAT THIS PLAT WAS PREPARED BASED ON ACCEPTED INDUSTRY STANDARDS TO THE BEST OF MY KNOWLEDGE.

REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA



Manta Ray Gathering Company, L.L.C.

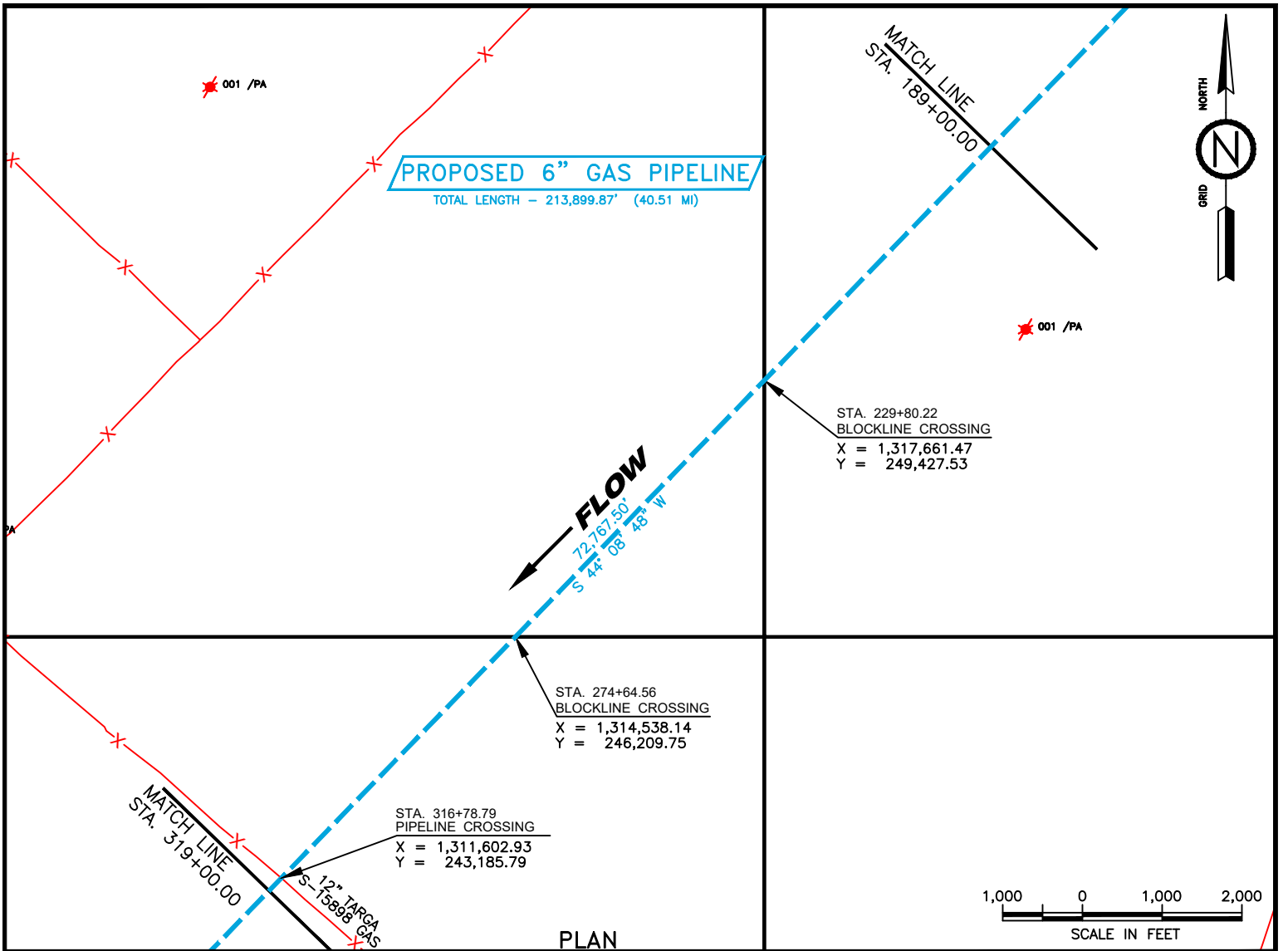
PROPOSED 6" GAS PIPELINE
BLOCK 167, WEST CAMERON AREA TO
BLOCK A5, HIGH ISLAND AREA
GULF OF MEXICO

DATUM: NAD 27	PROJECTION: LAMBERT
SPHEROID: CLARKE 1866	ZONE: LA SOUTH

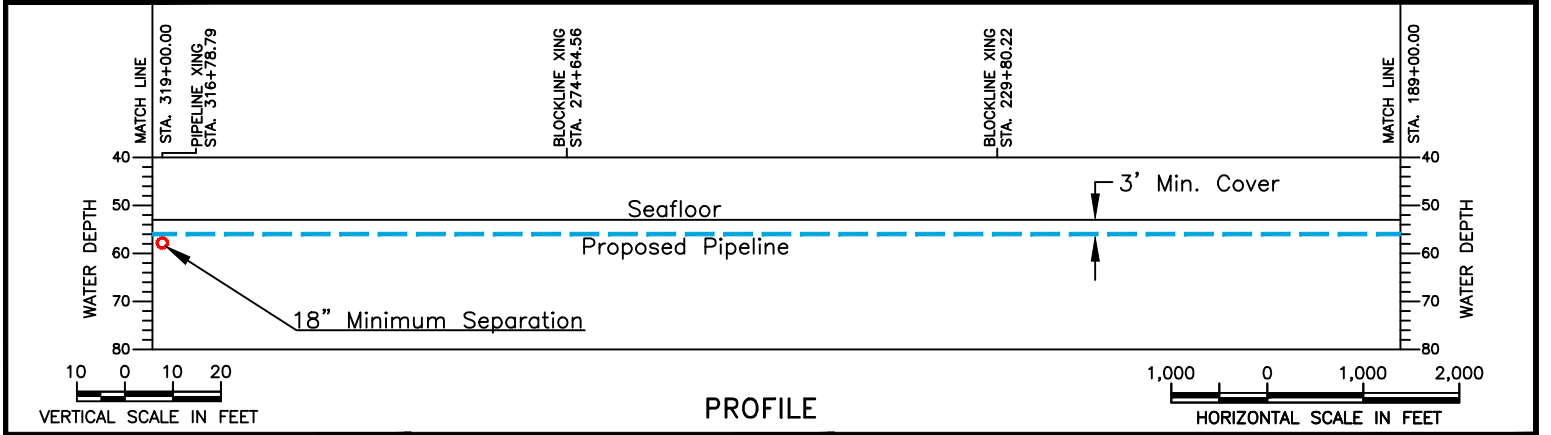
Echo OFFSHORE LLC
36499 Perkins Road
Prairieville, Louisiana 70769
Tel: 225-673-2163

LOUISIANA LAND SURVEYING
9522 Brookline Ave., Suite 107
Baton Rouge, Louisiana 70809
225-753-5283 (LAND)
Info@louisianasurvey.com

DRAWN BY: RJN	DATE: 11/28/2022	JOB No.: 22-039	DWG No.: 22-039-PERM
REV. No.:	REV. DATE:	SCALE: 1"=2,000'	SHEET 3 OF 18



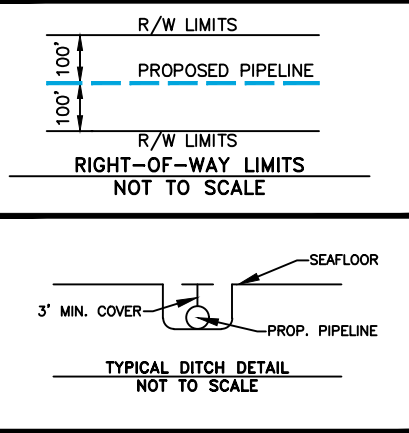
PLAN



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DRAWN BY: RJN	DATE: 11/28/2022	JOB No.: 22-039	DWG No.: 22-039-PERM
REV. No.:	REV. DATE:	SCALE: 1"=2,000'	SHEET 4 OF 18

WC292

WC188

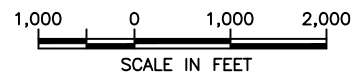
001 /PA



PROPOSED 6" GAS PIPELINE
TOTAL LENGTH - 213,899.87' (40.51 MI)

MATCH LINE
STA. 319+00.00

STA. 316+78.79
PIPELINE CROSSING
X = 1,311,602.93
Y = 243,185.79

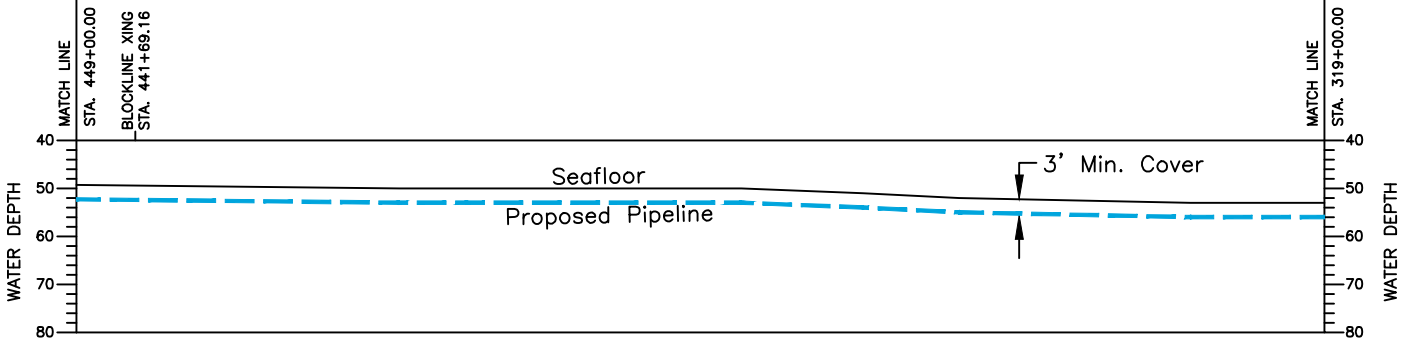


FLOW
72°16'50"
S 44°08'48" W

MATCH LINE
STA. 449+00.00

STA. 441+69.16
BLOCKLINE CROSSING
X = 1,302,903.42
Y = 234,223.22

PLAN

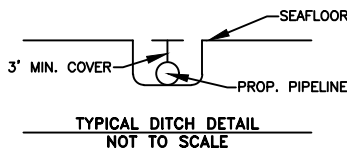
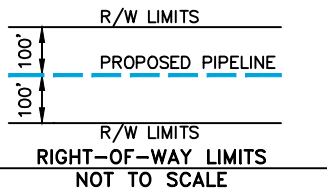


VERTICAL SCALE IN FEET

HORIZONTAL SCALE IN FEET

PROFILE

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PROPOSED 6" GAS PIPELINE
BLOCK 167, WEST CAMERON AREA TO
BLOCK A5, HIGH ISLAND AREA
GULF OF MEXICO

DATUM: NAD 27 PROJECTION: LAMBERT
SPHEROID: CLARKE 1866 ZONE: LA SOUTH

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LOUISIANA LAND SURVEYING 9522 Brookline Ave., Suite 107, Baton Rouge, Louisiana 70809, 225-753-5283 (LAND), info@lslandsurvey.com

REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA

DRAWN BY: RJN DATE: 11/28/2022 JOB No.: 22-039 DWG No.: 22-039-PERM
REV. No.: REV. DATE: SCALE: 1"=2,000' SHEET 5 OF 18



PROPOSED 6" GAS PIPELINE
 TOTAL LENGTH - 213,899.87' (40.51 MI)

STA. 480+31.57
 BLOCKLINE CROSSING
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 Y = 231,451.70

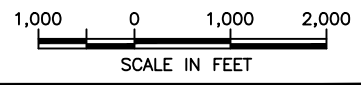
STA. 441+69.16
 BLOCKLINE CROSSING
 X = 1,302,903.42
 Y = 234,223.22

WC292 WC188
 WC301 WC302

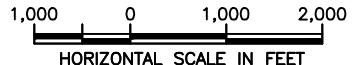
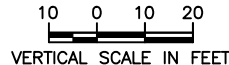
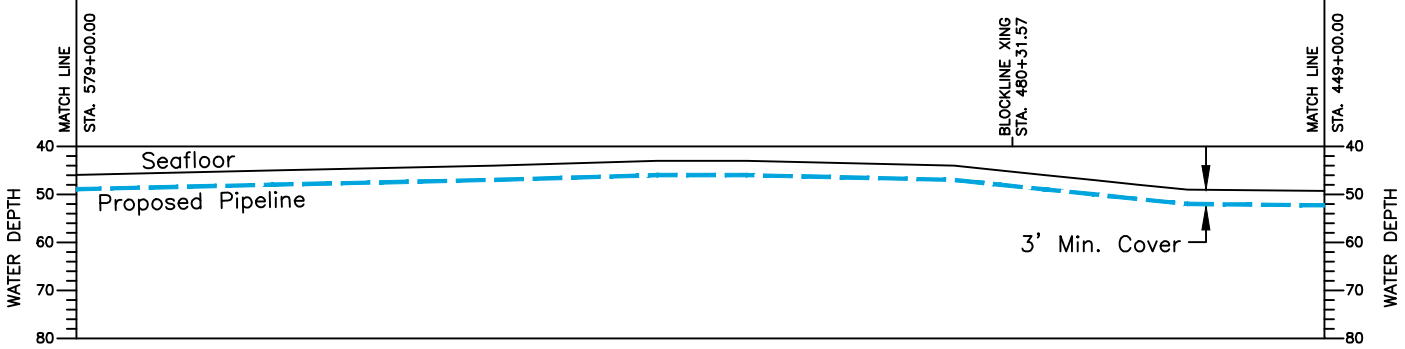
FLOW
 72° 16' 50"
 S 44° 08' 48" W

MATCH LINE
 STA. 579+00.00

MATCH LINE
 STA. 449+00.00

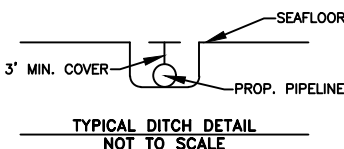
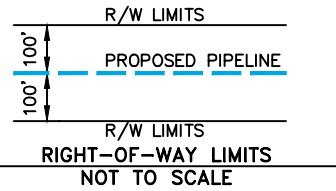


PLAN



PROFILE

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Manta Ray Gathering Company, L.L.C.

PROPOSED 6" GAS PIPELINE
 BLOCK 167, WEST CAMERON AREA TO
 BLOCK A5, HIGH ISLAND AREA
 GULF OF MEXICO

DATUM: NAD 27 PROJECTION: LAMBERT
 SPHEROID: CLARKE 1866 ZONE: LA SOUTH

Echo OFFSHORE LLC 36499 Perkins Road, Prairieville, Louisiana 70769, Tel: 225-673-2163
LOUISIANA LAND SURVEYING 9522 Brookline Ave., Suite 107, Baton Rouge, Louisiana 70809, Info@lalsurvey.com

REG. PROFESSIONAL LAND SURVEYOR NO. 4829
 STATE OF LOUISIANA

DRAWN BY: RJN DATE: 11/28/2022 JOB No.: 22-039 DWG No.: 22-039-PERM
 REV. No.: REV. DATE: SCALE: 1"=2,000' SHEET 6 OF 18



MATCH LINE
STA. 579+00.00

FLOW

72,767.50'
S 44° 08' 48" W

PROPOSED 6" GAS PIPELINE

TOTAL LENGTH - 213,899.87' (40.51 MI)

STA. 685+98.59
BLOCKLINE CROSSING
X = 1,285,888.38
Y = 216,693.66

STA. 653+58.10
BLOCKLINE CROSSING
X = 1,288,145.38
Y = 219,018.90

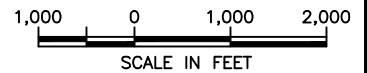
WC300

WC301

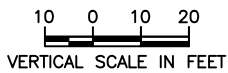
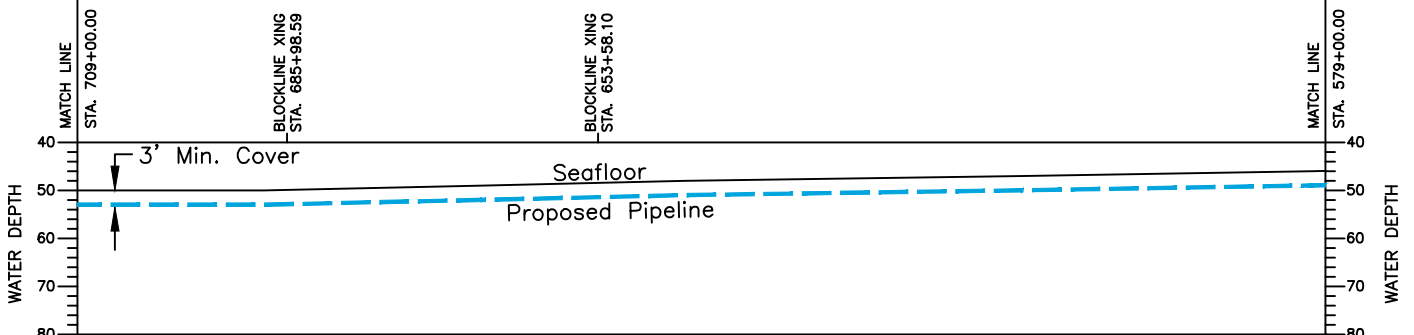
WC305

002 / B
WC304

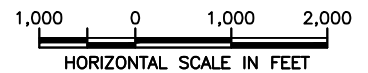
MATCH LINE
STA. 709+00.00



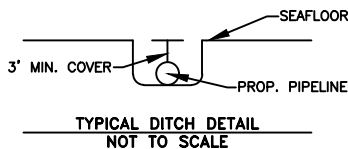
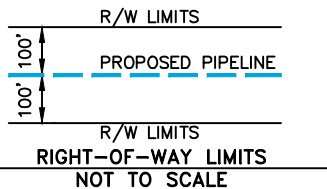
PLAN



PROFILE



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Manta Ray Gathering Company, L.L.C.

PROPOSED 6" GAS PIPELINE
BLOCK 167, WEST CAMERON AREA TO
BLOCK A5, HIGH ISLAND AREA
GULF OF MEXICO

DATUM: NAD 27

PROJECTION: LAMBERT

SPHEROID: CLARKE 1866

ZONE: LA SOUTH

Echo
OFFSHORE LLC

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Tel: 225-673-2163

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REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA

DRAWN BY: RJN

DATE: 11/28/2022

JOB No.: 22-039

DWG No.: 22-039-PERM

REV. No.:

REV. DATE:

SCALE: 1"=2,000'

SHEET 7 OF 18

PROPOSED 6" GAS PIPELINE

TOTAL LENGTH - 213,899.87' (40.51 MI)

WC305

NORTH
GRID



MATCH LINE
STA. 709+00.00

8" FIELDWOOD
S-11708 BLKG

FLOW

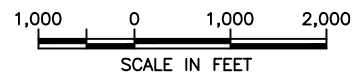
72,767.30'
S 44° 08' 48" W

STA. 786+74.11
AS-FOUND
PIPELINE CROSSING
X = 1,278,870.81
Y = 209,463.88

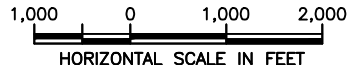
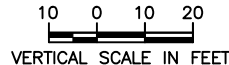
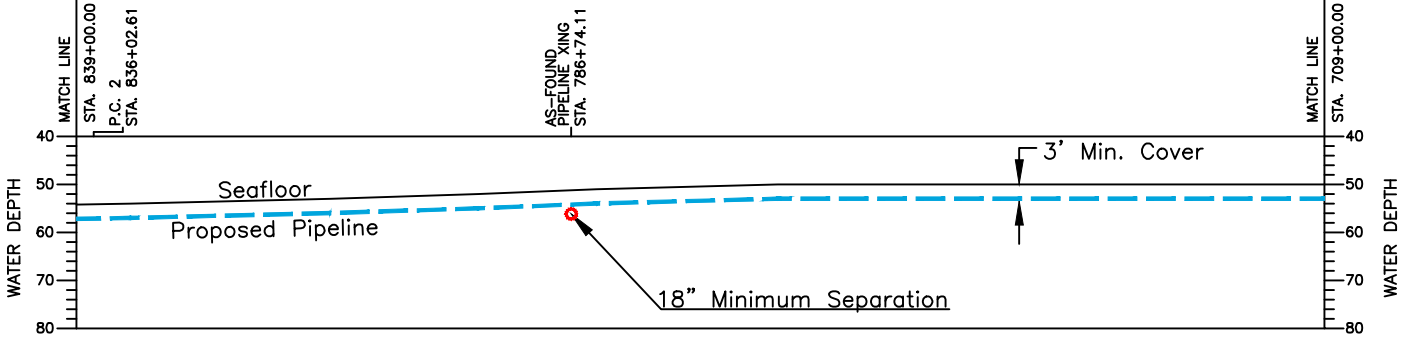
MATCH LINE
STA. 839+00.00

P.C. 2

1/52'
001 / BA



PLAN

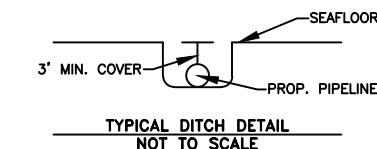
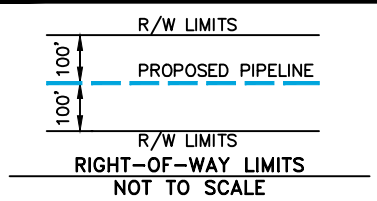


PROFILE

THIS IS TO CERTIFY THAT THIS PLAT WAS PREPARED BASED ON ACCEPTED INDUSTRY STANDARDS TO THE BEST OF MY KNOWLEDGE.



REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA



Manta Ray Gathering Company, L.L.C.

PROPOSED 6" GAS PIPELINE
BLOCK 167, WEST CAMERON AREA TO
BLOCK A5, HIGH ISLAND AREA
GULF OF MEXICO

DATUM: NAD 27 PROJECTION: LAMBERT
SPHEROID: CLARKE 1866 ZONE: LA SOUTH

Echo OFFSHORE LLC 36499 Perkins Road
Prairieville, Louisiana 70769
Tel: 225-673-2163

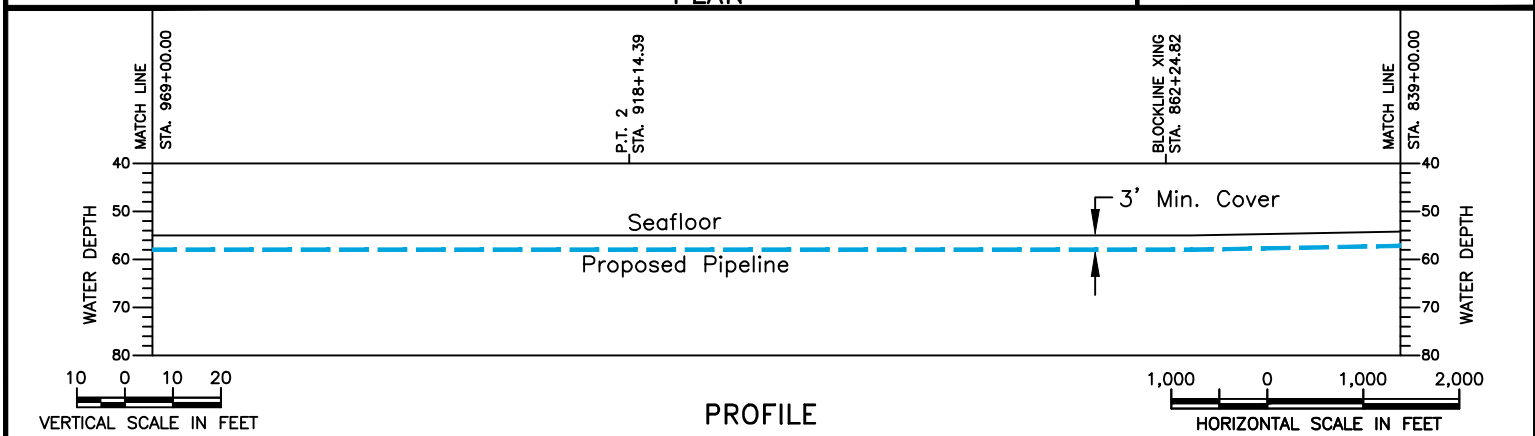
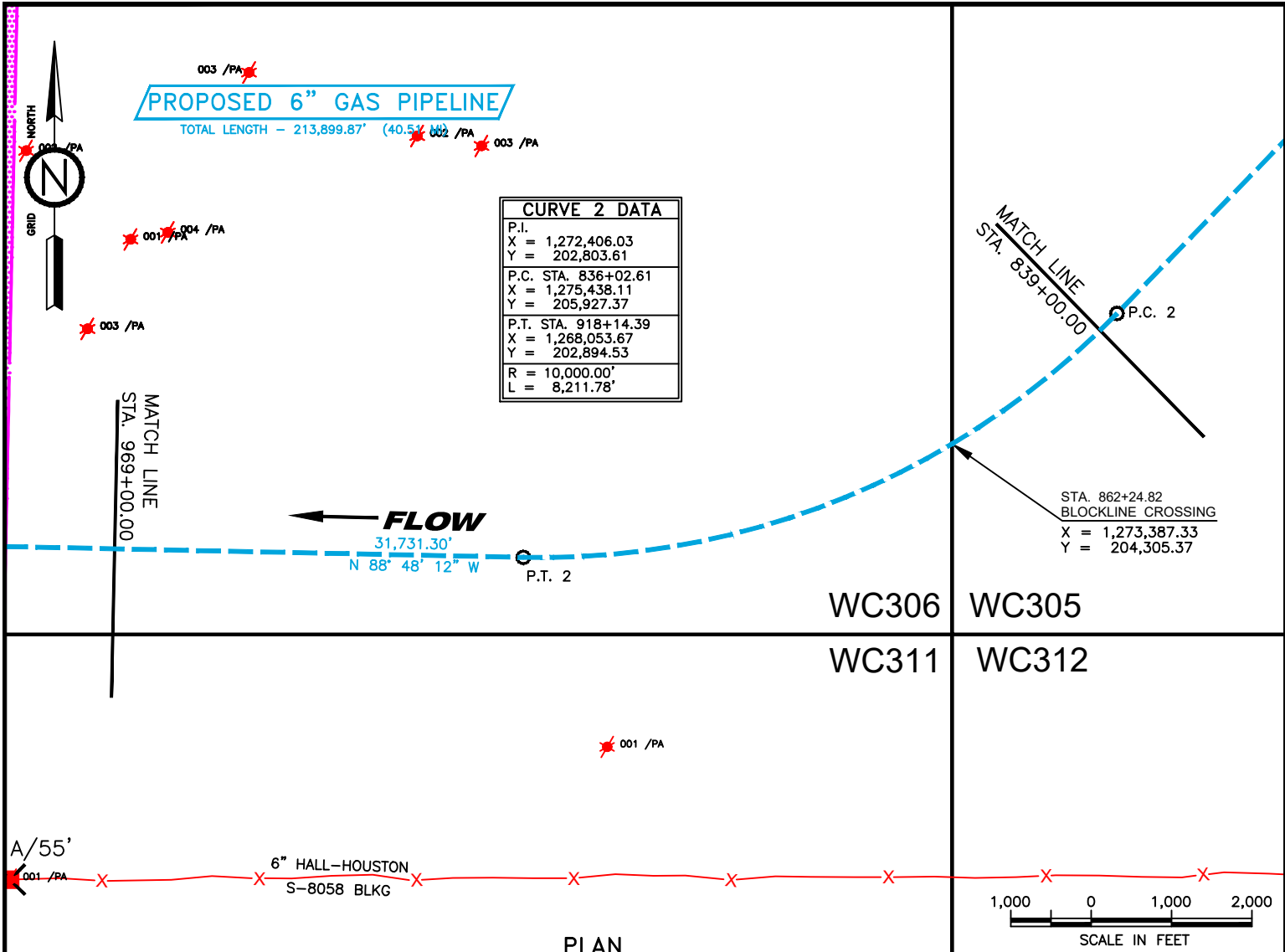
LOUISIANA LAND SURVEYING
9522 Brookline Ave., Suite 107
Baton Rouge, Louisiana 70809 225-753-5283 (LAND)
Info@lalandsurvey.com

DRAWN BY: RJN DATE: 11/28/2022 JOB No.: 22-039 DWG No.: 22-039-PERM
REV. No.: REV. DATE: SCALE: 1"=2,000' SHEET 8 OF 18

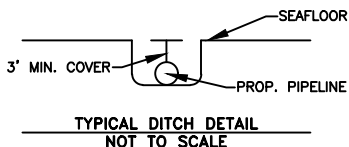
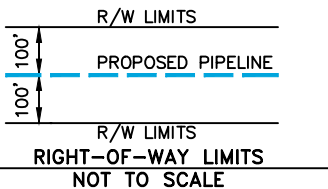
PROPOSED 6" GAS PIPELINE

TOTAL LENGTH - 213,899.87' (40.5% ~~002 /PA~~ 003 /PA)

CURVE 2 DATA	
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P.C. STA. 836+02.61	X = 1,275,438.11 Y = 205,927.37
P.T. STA. 918+14.39	X = 1,268,053.67 Y = 202,894.53
R = 10,000.00'	L = 8,211.78'



THIS IS TO CERTIFY THAT THIS PLAT WAS PREPARED BASED ON ACCEPTED INDUSTRY STANDARDS TO THE BEST OF MY KNOWLEDGE.



Manta Ray Gathering Company, L.L.C.

PROPOSED 6" GAS PIPELINE
BLOCK 167, WEST CAMERON AREA TO
BLOCK A5, HIGH ISLAND AREA
GULF OF MEXICO

DATUM: NAD 27

PROJECTION: LAMBERT

SPHEROID: CLARKE 1866

ZONE: LA SOUTH



36499 Perkins Road
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Tel: 225-673-2163



9522 Brookline Ave., Suite 107
Baton Rouge, Louisiana 70809
225-753-5283 (LAND)
info@louisianasurvey.com

DRAWN BY: RJN

DATE: 11/28/2022

JOB No.: 22-039

DWG No.: 22-039-PERM

REV. No.:

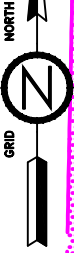
REV. DATE:

SCALE: 1"=2,000'

SHEET 9 OF 18

PROPOSED 6" GAS PIPELINE

TOTAL LENGTH - 213,899.87' (40.51 MI)



FAIRWAY

FAIRWAY

MATCH LINE
STA. 1099+00.00

MATCH LINE
STA. 969+00.00

STA. 1012+40.85
BLOCKLINE CROSSING
X = 1,258,629.28
Y = 203,091.40

STA. 982+55.26
FAIRWAY CROSSING
X = 1,261,614.22
Y = 203,029.05

← FLOW
31,731.30'
N 88° 48' 12" W

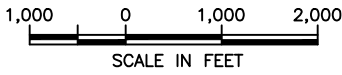
WC307

WC306

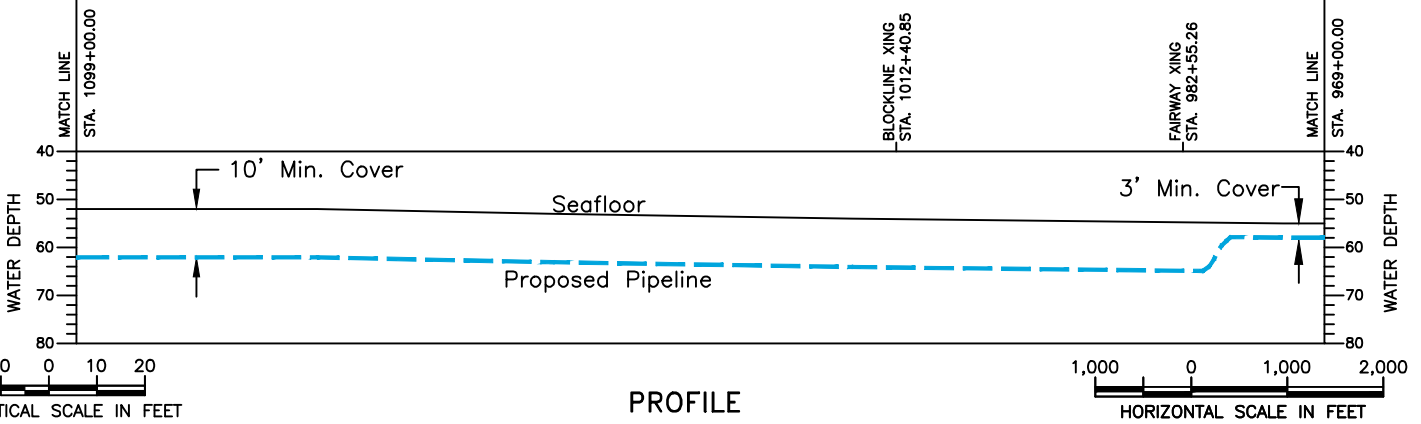
WC310

WC311

A/55'
001 /PA

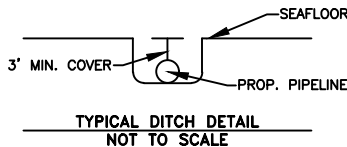
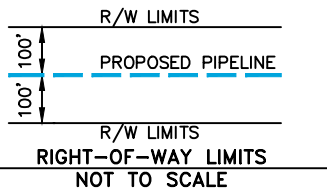


PLAN



PROFILE

THIS IS TO CERTIFY THAT THIS PLAT WAS PREPARED BASED ON ACCEPTED INDUSTRY STANDARDS TO THE BEST OF MY KNOWLEDGE.



Manta Ray Gathering Company, L.L.C.

PROPOSED 6" GAS PIPELINE
BLOCK 167, WEST CAMERON AREA TO
BLOCK A5, HIGH ISLAND AREA
GULF OF MEXICO

DATUM: NAD 27

PROJECTION: LAMBERT

SPHEROID: CLARKE 1866

ZONE: LA SOUTH



36499 Perkins Road
Prairieville, Louisiana 70769
Tel: 225-673-2163



9522 Brookline Ave., Suite 107
Baton Rouge, Louisiana 70809
225-753-5283 (LAND)
info@louisianasurvey.com

REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA

DRAWN BY: RJN

DATE: 11/28/2022

JOB No.: 22-039

DWG No.: 22-039-PERM

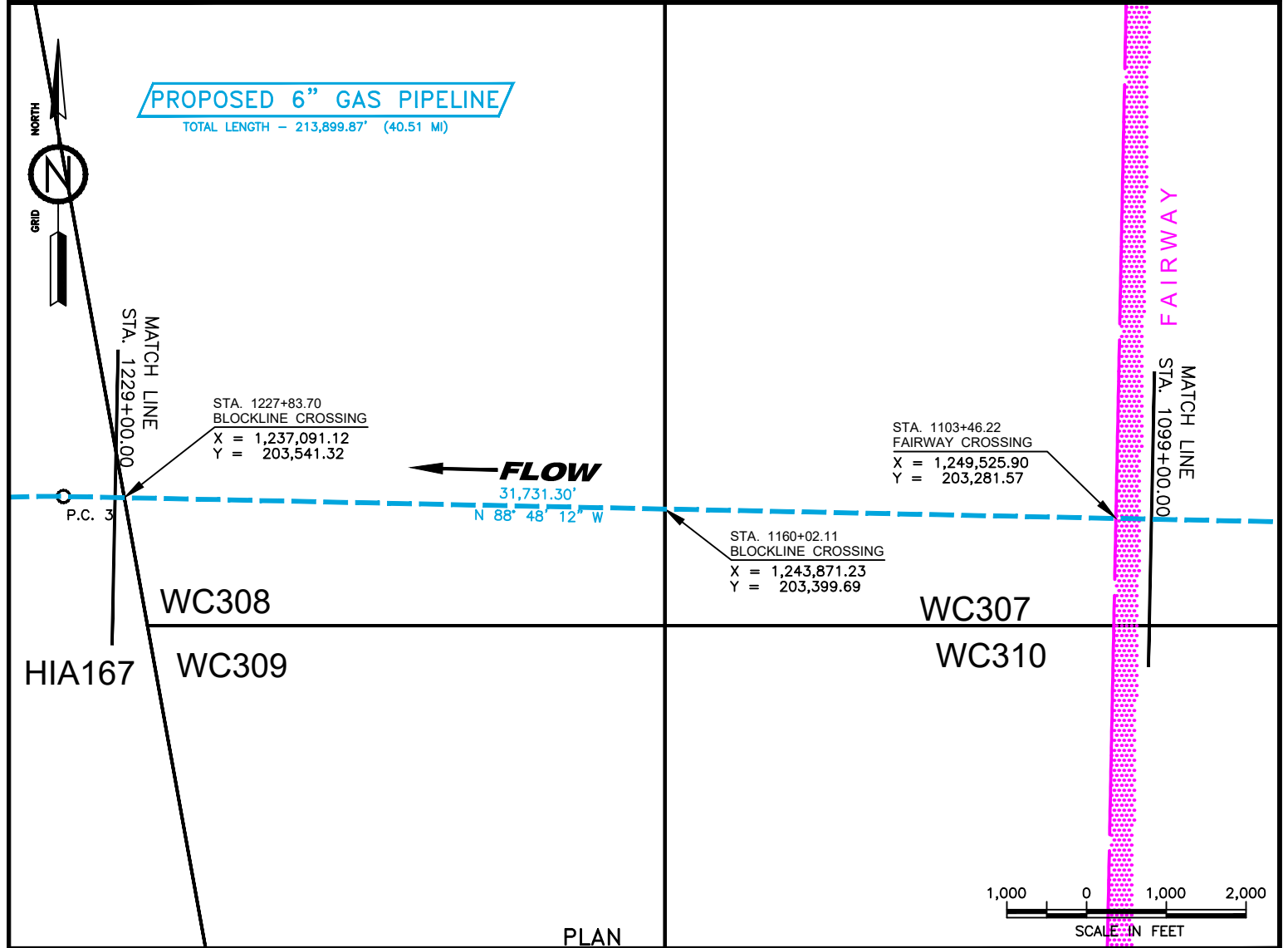
REV. No.:

REV. DATE:

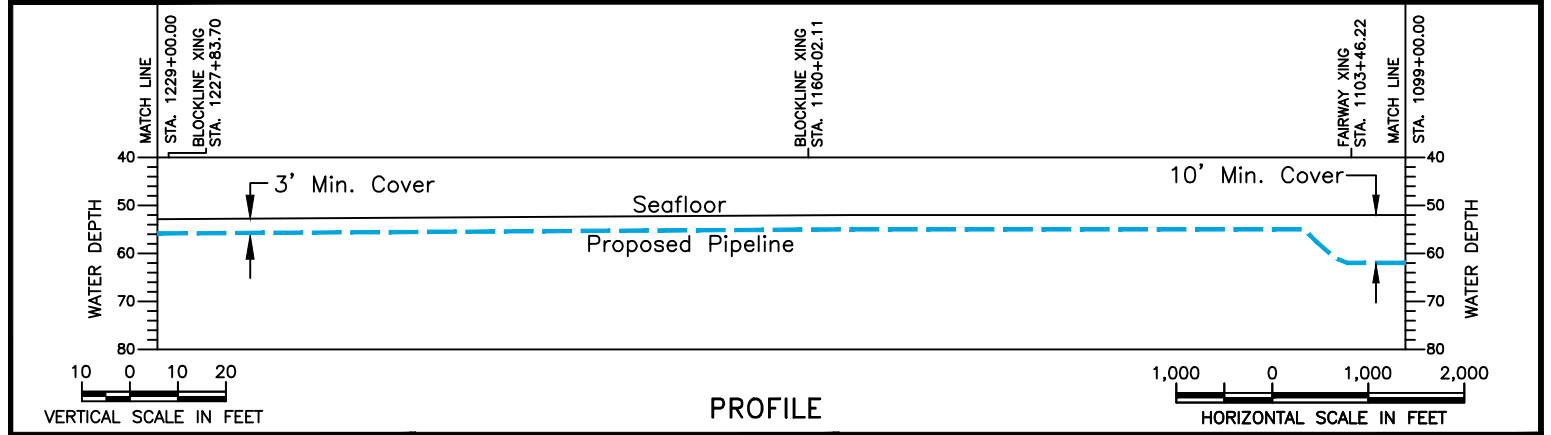
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SHEET 10 OF 18

PROPOSED 6" GAS PIPELINE
 TOTAL LENGTH - 213,899.87' (40.51 MI)

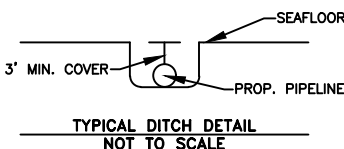
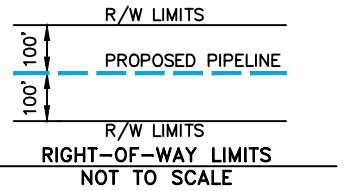


PLAN





PROFILE

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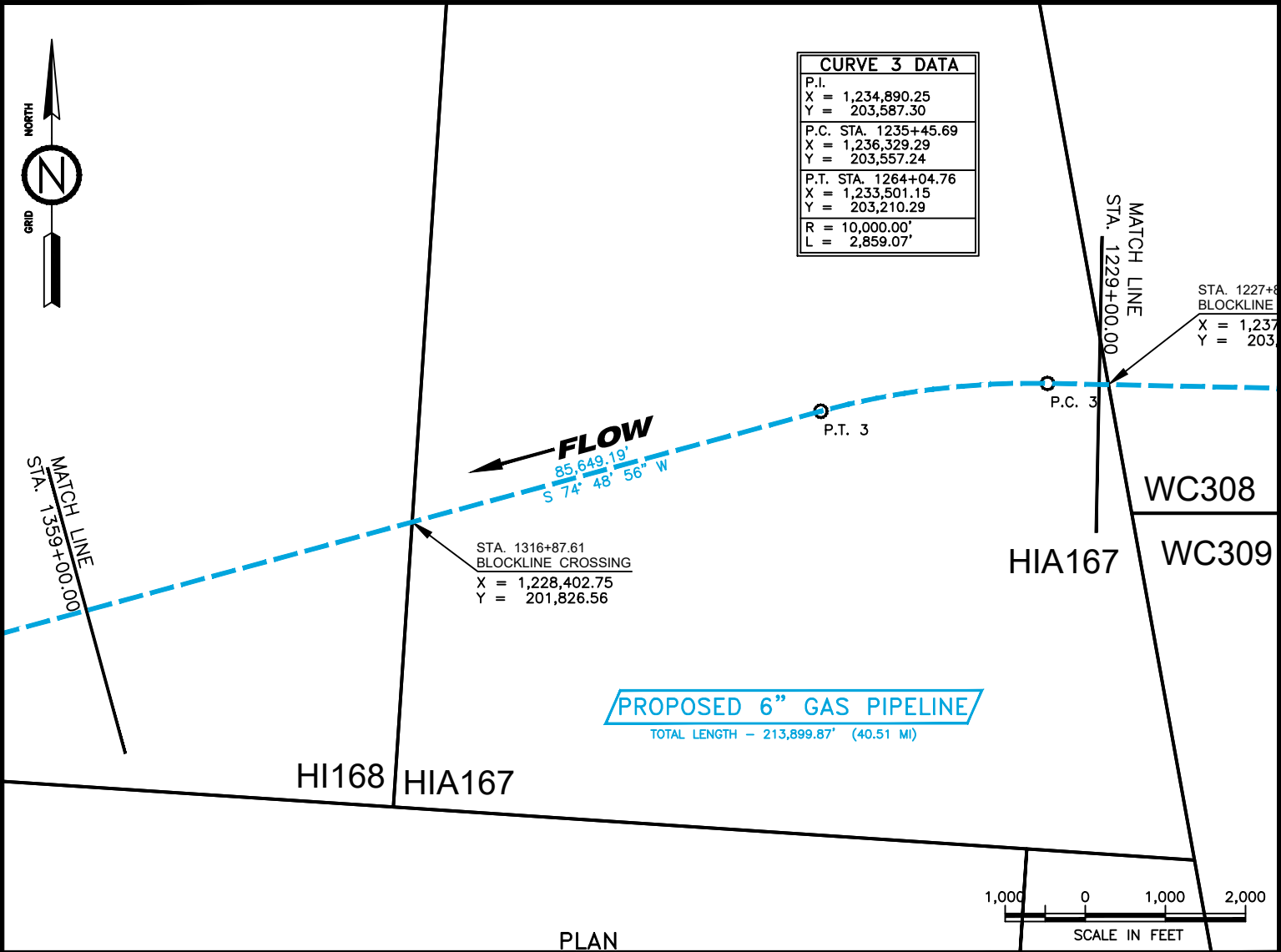
Manta Ray Gathering Company, L.L.C.

PROPOSED 6" GAS PIPELINE
 BLOCK 167, WEST CAMERON AREA TO
 BLOCK A5, HIGH ISLAND AREA
 GULF OF MEXICO

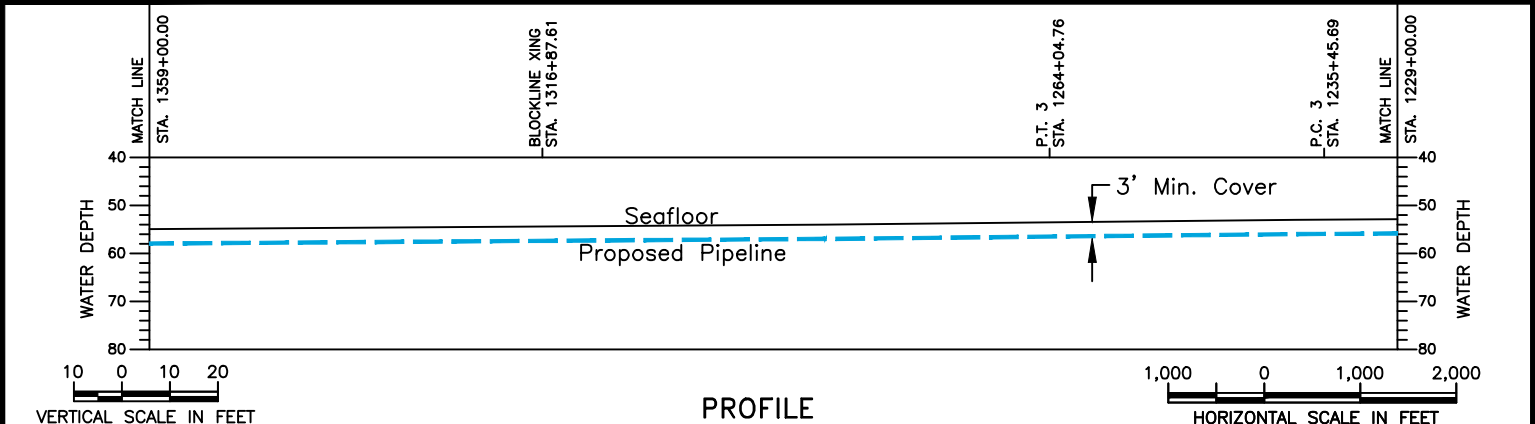
DATUM: NAD 27	PROJECTION: LAMBERT		
SPHEROID: CLARKE 1866	ZONE: LA SOUTH		
			
36499 Perkins Road Prairieville, Louisiana 70769 Tel: 225-673-2163			
			
9522 Brookline Ave., Suite 107 Baton Rouge, Louisiana 70809 225-753-5283 (LAND) info@louisianasurvey.com			
DRAWN BY: RJN	DATE: 11/28/2022	JOB No.: 22-039	DWG No.: 22-039-PERM
REV. No.:	REV. DATE:	SCALE: 1"=2,000'	SHEET 11 OF 18



CURVE 3 DATA	
P.I.	
X =	1,234,890.25
Y =	203,587.30
P.C. STA.	1235+45.69
X =	1,236,329.29
Y =	203,557.24
P.T. STA.	1264+04.76
X =	1,233,501.15
Y =	203,210.29
R =	10,000.00'
L =	2,859.07'



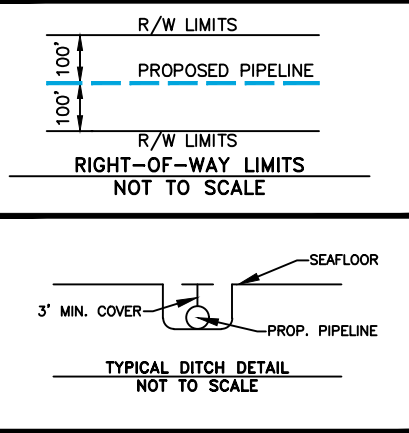
PLAN



PROFILE

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REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA



Manta Ray Gathering Company, L.L.C.

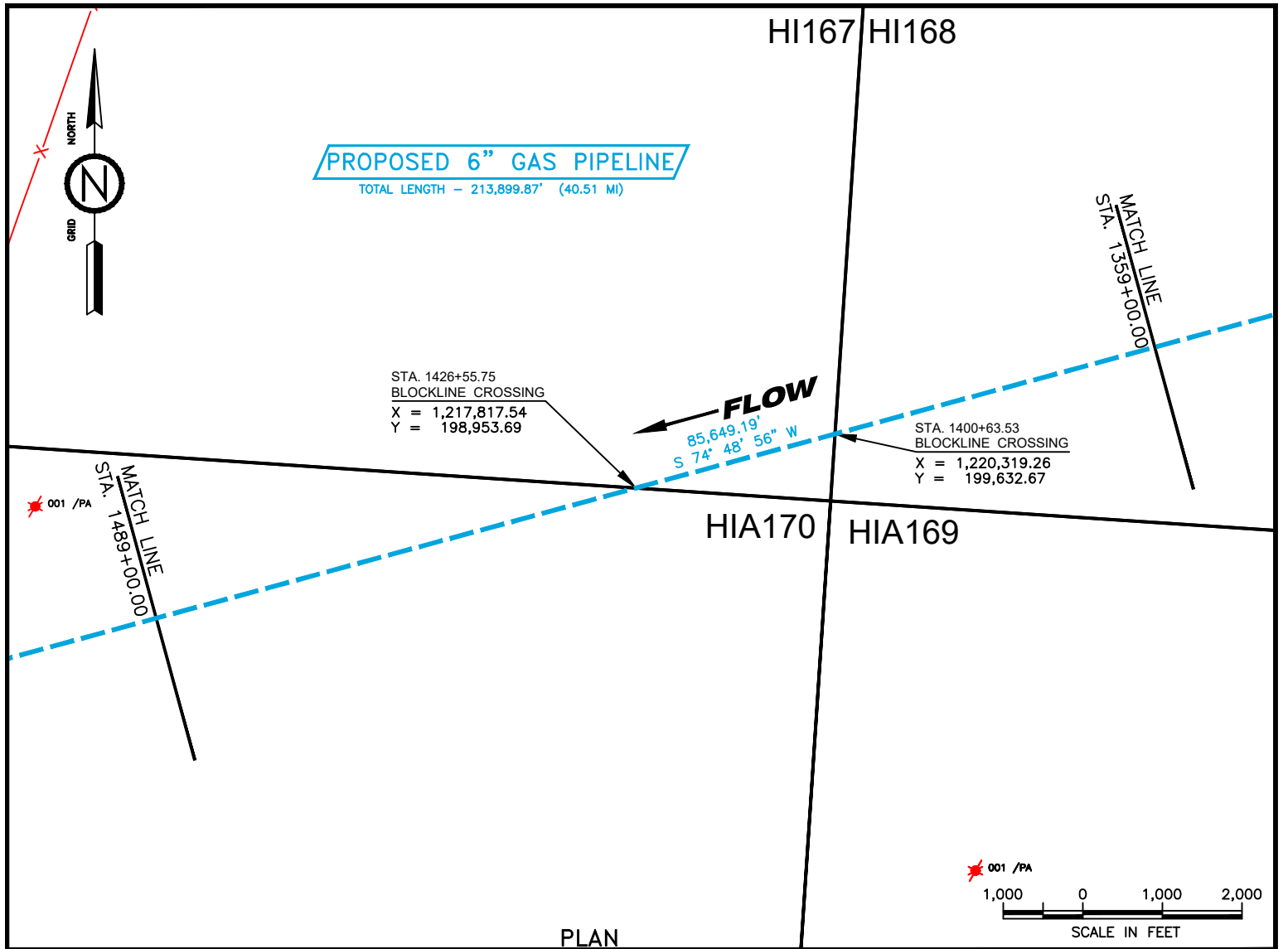
PROPOSED 6" GAS PIPELINE
BLOCK 167, WEST CAMERON AREA TO
BLOCK A5, HIGH ISLAND AREA
GULF OF MEXICO

DATUM: NAD 27	PROJECTION: LAMBERT
SPHEROID: CLARKE 1866	ZONE: LA SOUTH

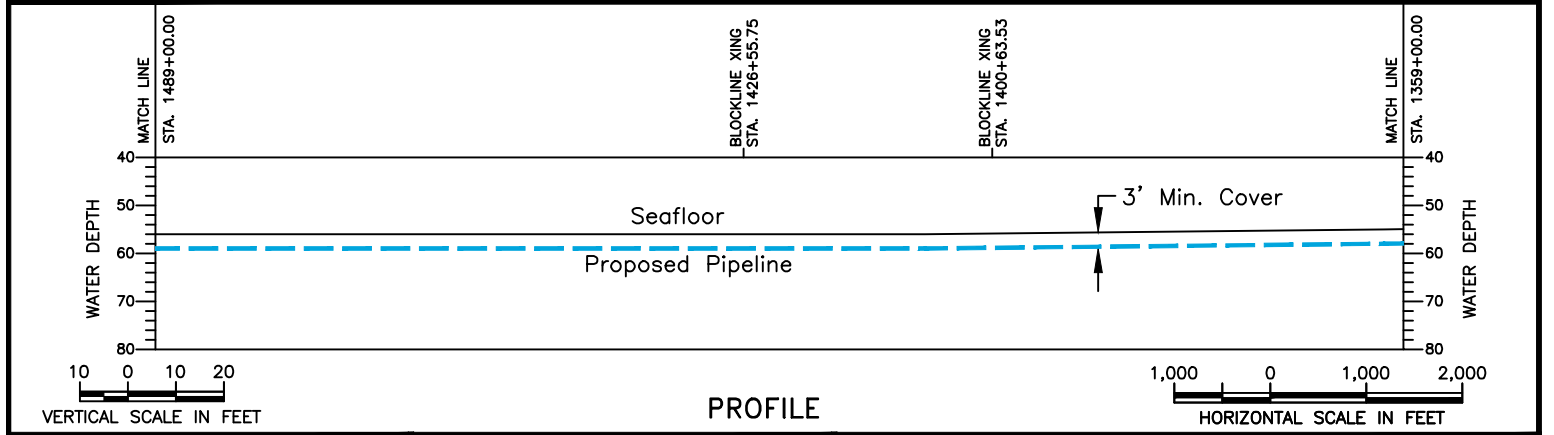
Echo OFFSHORE LLC
36499 Perkins Road
Prairieville, Louisiana 70769
Tel: 225-673-2163

LOUISIANA LAND SURVEYING
9522 Brookline Ave., Suite 107
Baton Rouge, Louisiana 70809
225-753-5283 (LAND)
Info@lalandsurvey.com

DRAWN BY: RJN	DATE: 11/28/2022	JOB No.: 22-039	DWG No.: 22-039-PERM
REV. No.:	REV. DATE:	SCALE: 1"=2,000'	SHEET 12 OF 18



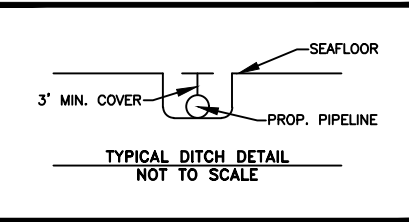
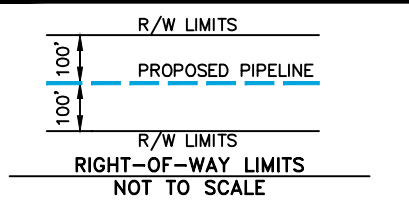
PLAN



PROFILE

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REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA



Manta Ray Gathering Company, L.L.C.

PROPOSED 6" GAS PIPELINE
BLOCK 167, WEST CAMERON AREA TO
BLOCK A5, HIGH ISLAND AREA
GULF OF MEXICO

DATUM: NAD 27	PROJECTION: LAMBERT
SPHEROID: CLARKE 1866	ZONE: LA SOUTH

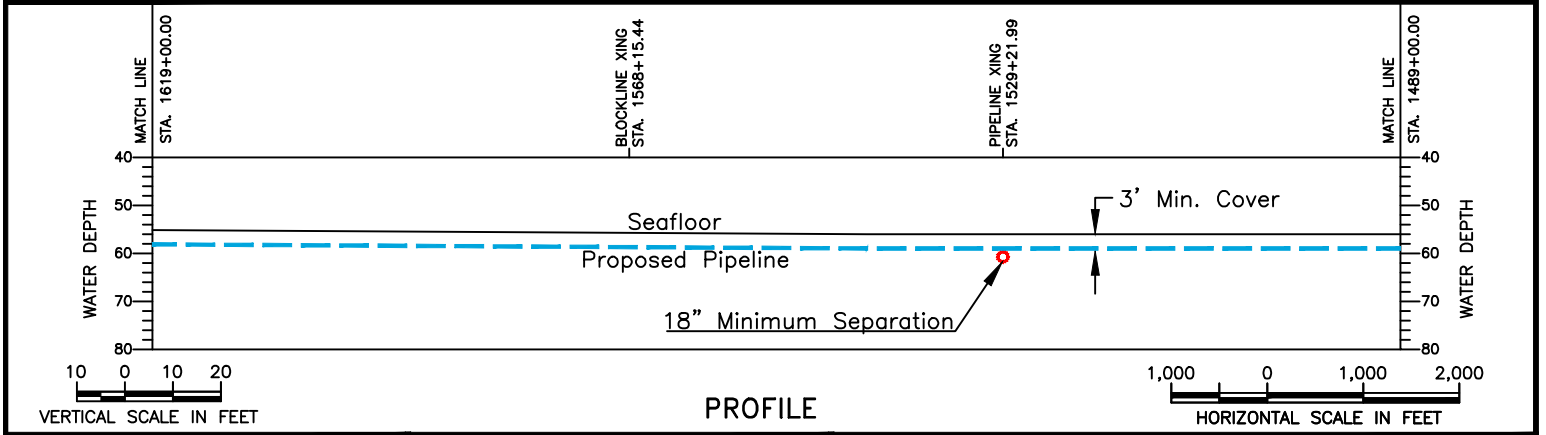
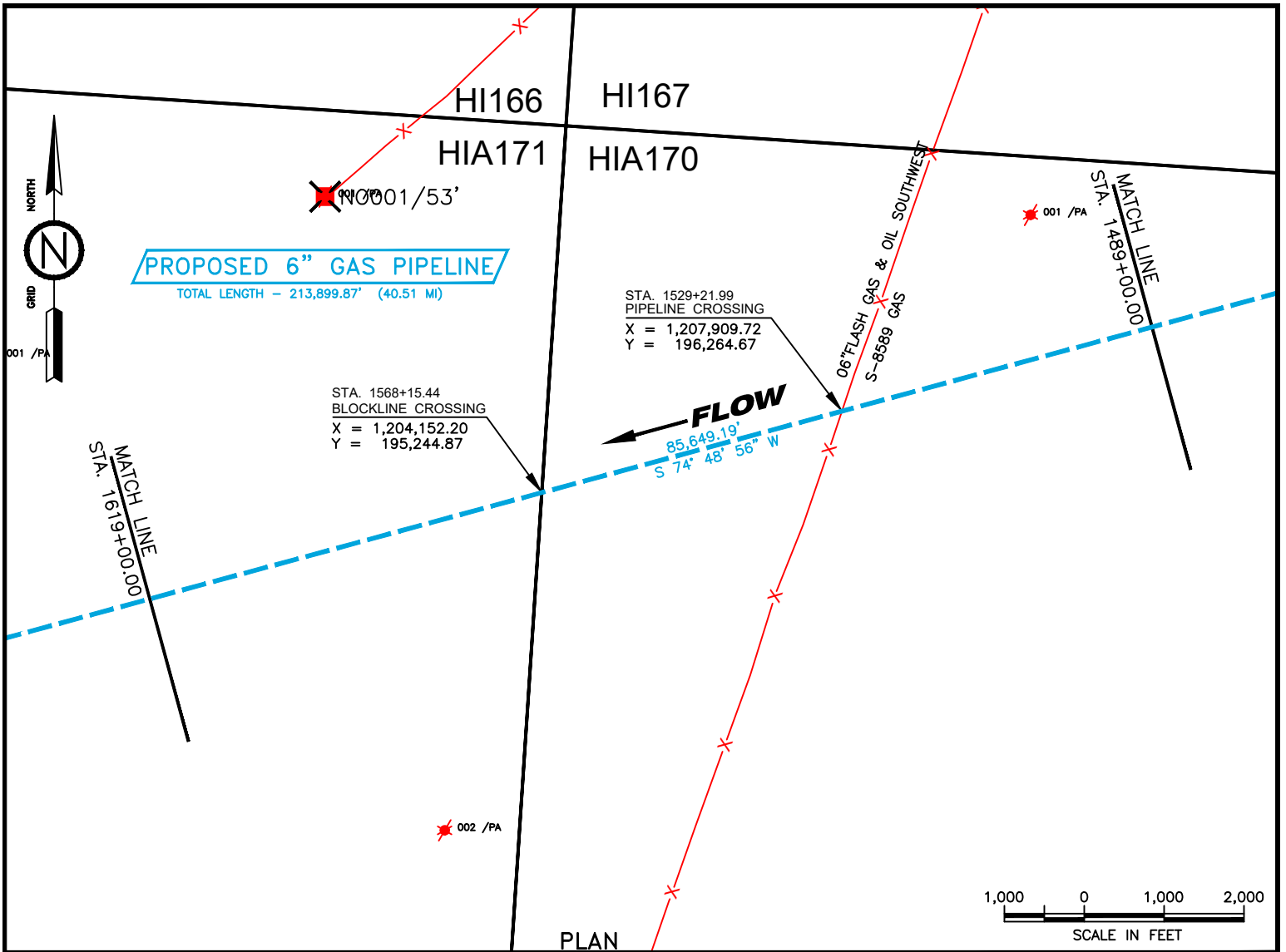
Echo OFFSHORE LLC

36499 Perkins Road
Prairieville, Louisiana 70769
Tel: 225-673-2163

LOUISIANA LAND SURVEYING

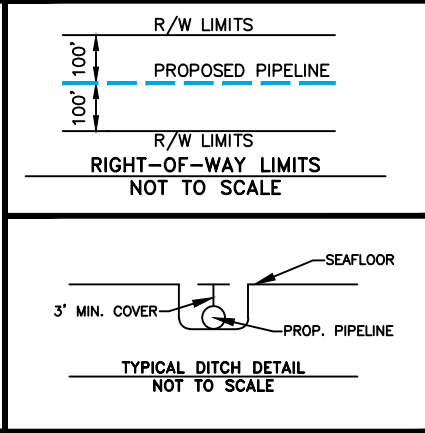
9522 Brookline Ave., Suite 107
Baton Rouge, Louisiana 70809
225-753-5283 (LAND)
info@lslandsurvey.com

DRAWN BY: RJN	DATE: 11/28/2022	JOB No.: 22-039	DWG No.: 22-039-PERM
REV. No.:	REV. DATE:	SCALE: 1"=2,000'	SHEET 13 OF 18



THIS IS TO CERTIFY THAT THIS PLAT WAS PREPARED BASED ON ACCEPTED INDUSTRY STANDARDS TO THE BEST OF MY KNOWLEDGE.

REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA



Manta Ray Gathering Company, L.L.C.

PROPOSED 6" GAS PIPELINE
BLOCK 167, WEST CAMERON AREA TO
BLOCK A5, HIGH ISLAND AREA
GULF OF MEXICO

DATUM: NAD 27	PROJECTION: LAMBERT
SPHEROID: CLARKE 1866	ZONE: LA SOUTH

Echo OFFSHORE LLC
36499 Perkins Road
Prairieville, Louisiana 70769
Tel: 225-673-2163

LOUISIANA LAND SURVEYING
9522 Brookline Ave., Suite 107
Baton Rouge, Louisiana 70809
225-753-5283 (LAND)
info@lalsurvey.com

DRAWN BY: RJN	DATE: 11/28/2022	JOB No.: 22-039	DWG No.: 22-039-PERM
REV. No.:	REV. DATE:	SCALE: 1"=2,000'	SHEET 14 OF 18

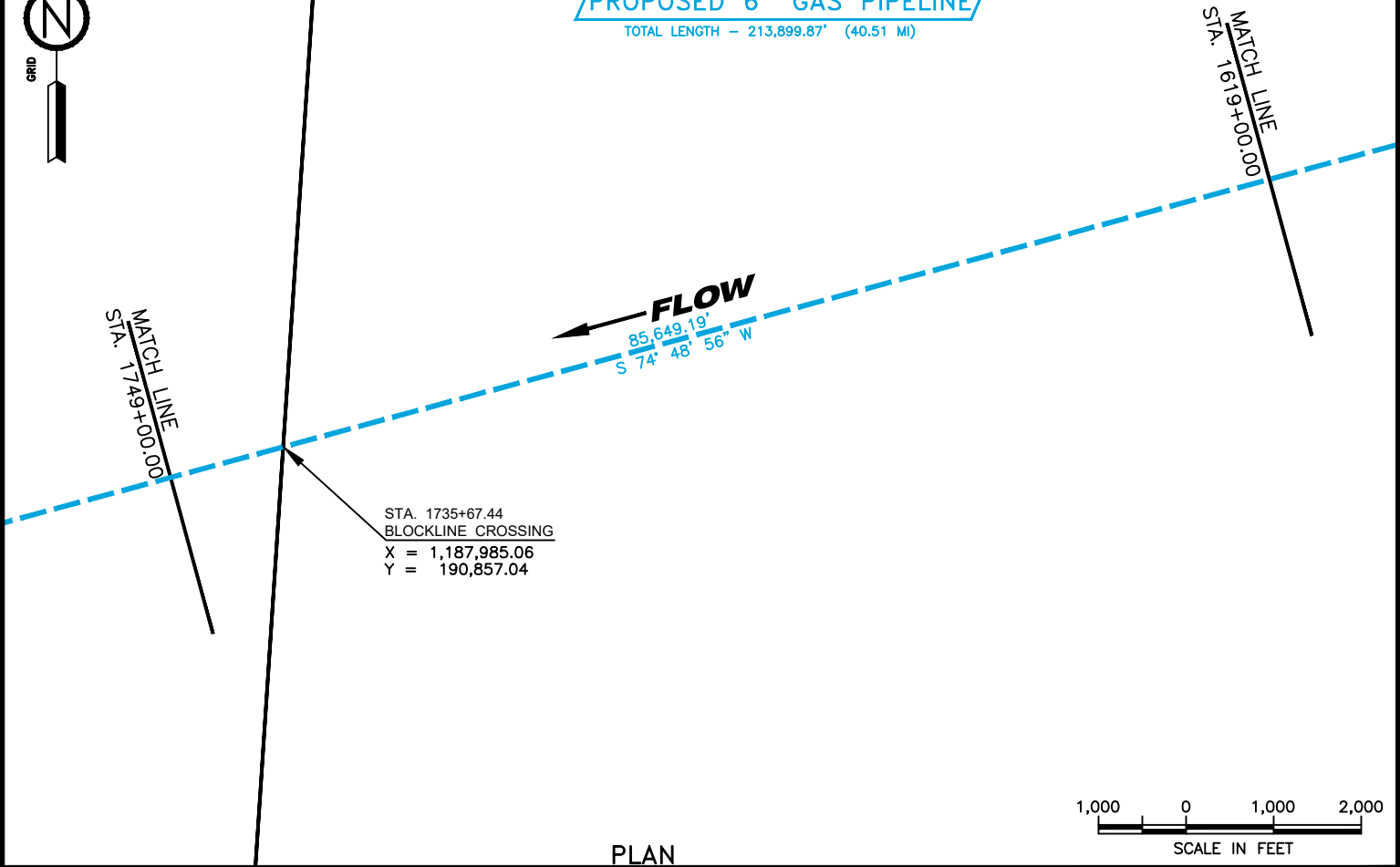
HIA2 HIA171

001 / PA

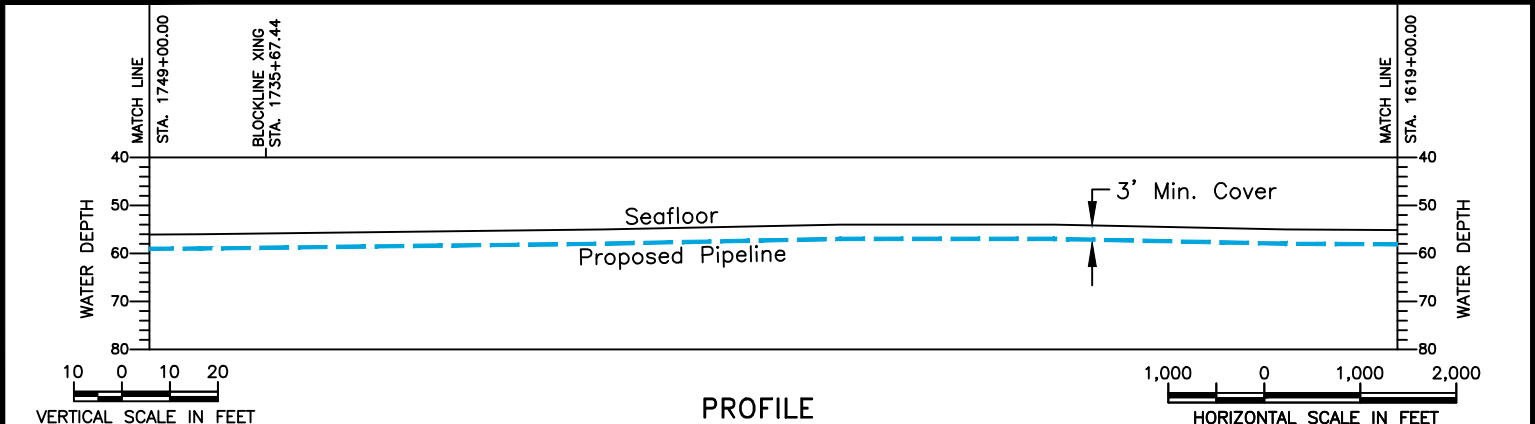


PROPOSED 6" GAS PIPELINE

TOTAL LENGTH - 213,899.87' (40.51 MI)

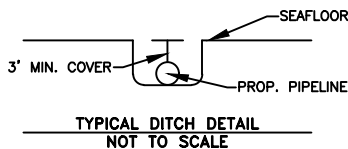
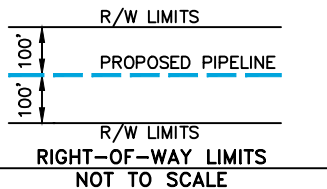


PLAN



PROFILE

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Manta Ray Gathering Company, L.L.C.

PROPOSED 6" GAS PIPELINE
BLOCK 167, WEST CAMERON AREA TO
BLOCK A5, HIGH ISLAND AREA
GULF OF MEXICO

DATUM: NAD 27 PROJECTION: LAMBERT
SPHEROID: CLARKE 1866 ZONE: LA SOUTH



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Tel: 225-673-2163



9522 Brookline Ave., Suite 107
Baton Rouge, Louisiana 70809 225-753-5283 (LAND)
Info@lslandsurvey.com

REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA

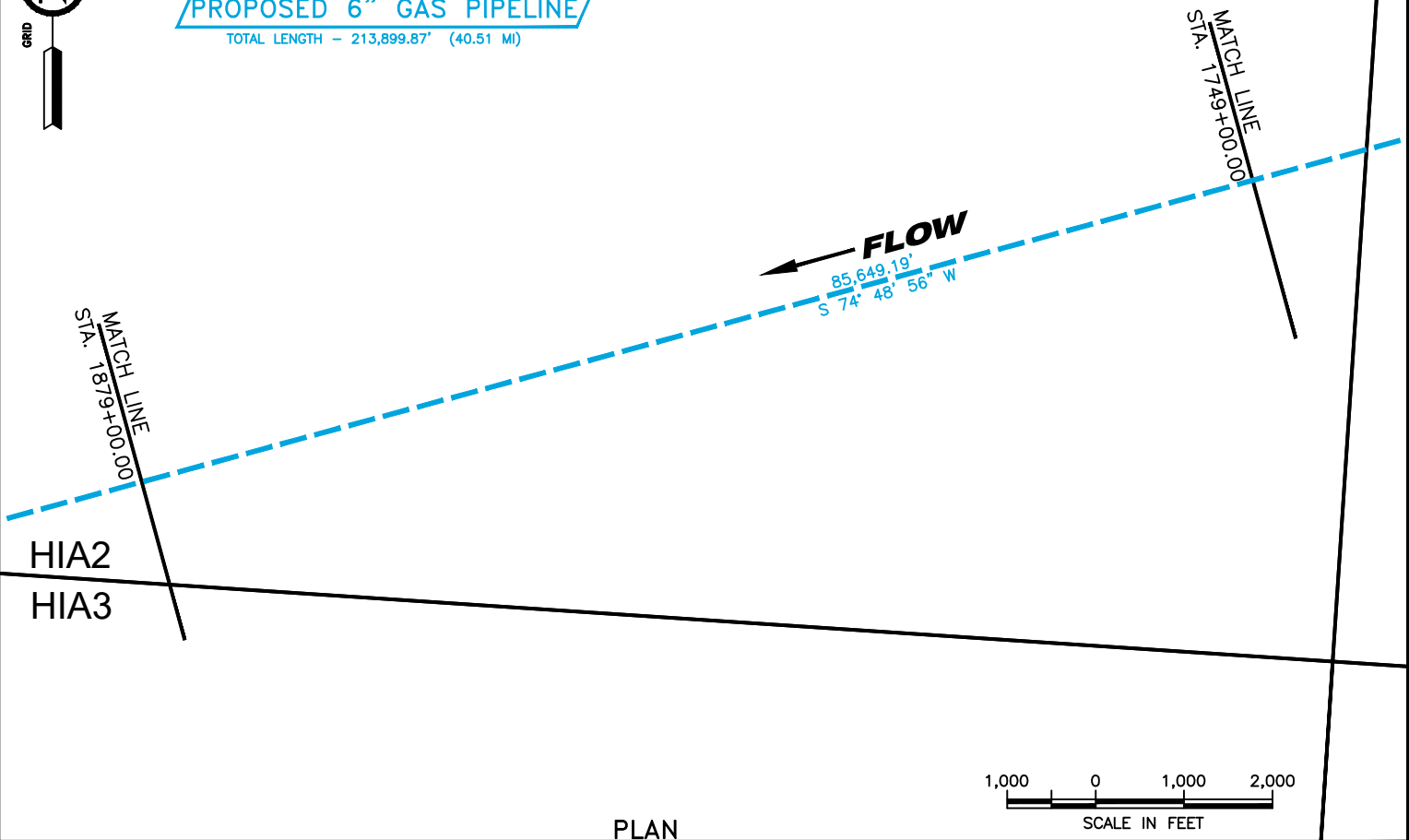
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REV. No.: REV. DATE: SCALE: 1"=2,000' SHEET 15 OF 18



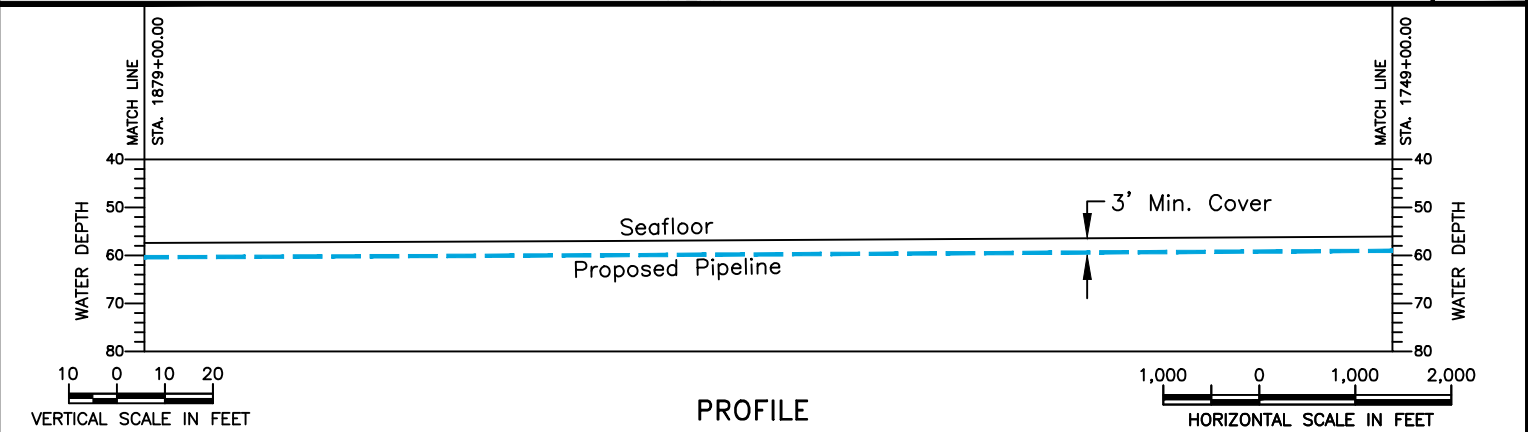
1/155'

PROPOSED 6" GAS PIPELINE

TOTAL LENGTH - 213,899.87' (40.51 MI)

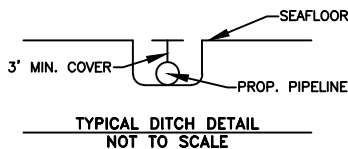
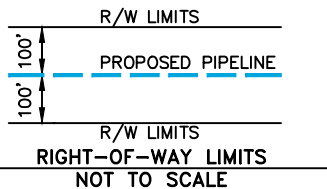


PLAN



PROFILE

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Manta Ray Gathering Company, L.L.C.

PROPOSED 6" GAS PIPELINE
BLOCK 167, WEST CAMERON AREA TO
BLOCK A5, HIGH ISLAND AREA
GULF OF MEXICO

DATUM: NAD 27

PROJECTION: LAMBERT

SPHEROID: CLARKE 1866

ZONE: LA SOUTH



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Baton Rouge, Louisiana 70809
225-753-5283 (LAND)
Info@lslandsurvey.com

REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA

DRAWN BY: RJN

DATE: 11/28/2022

JOB No.: 22-039

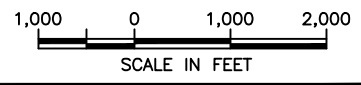
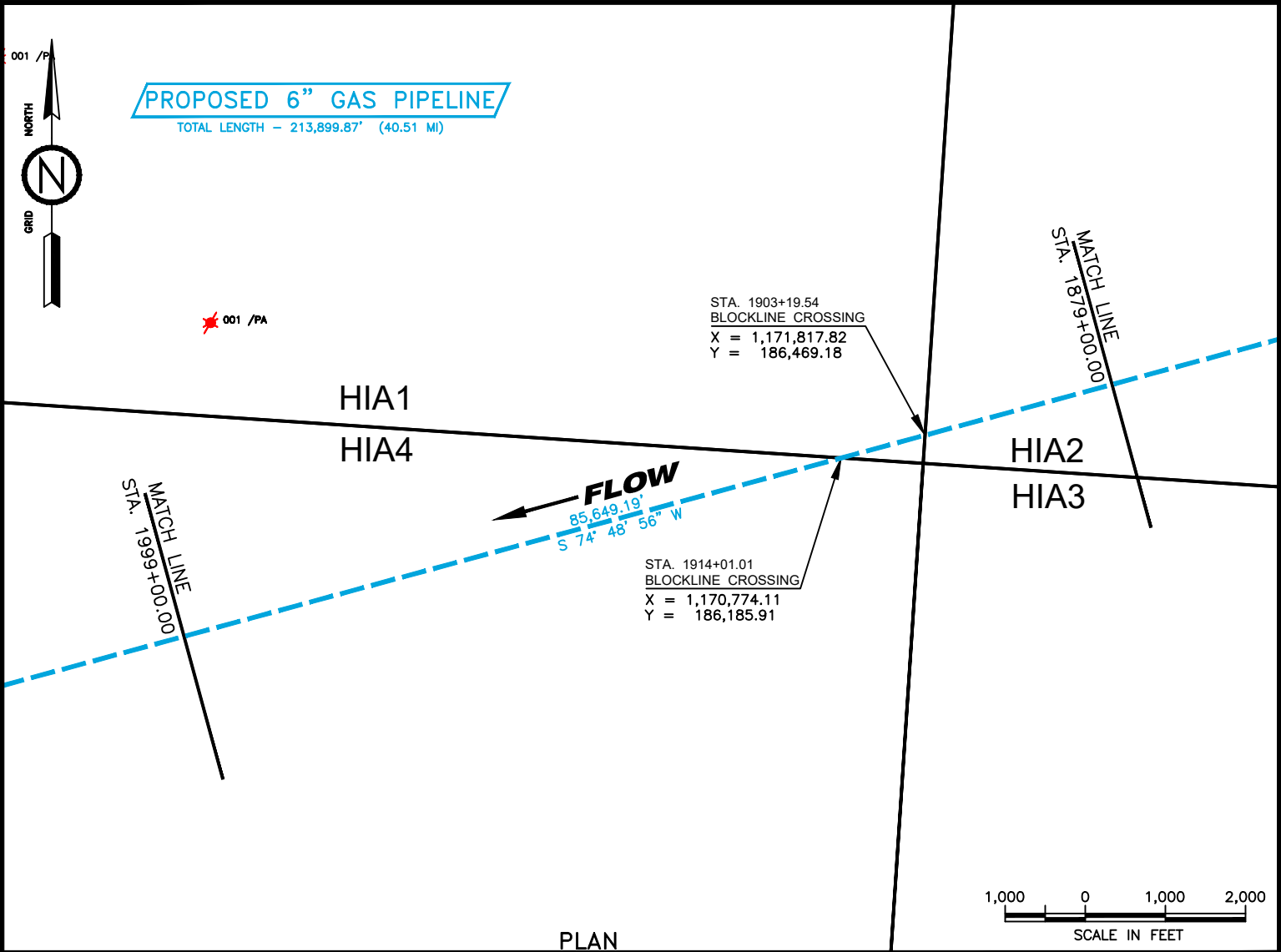
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REV. No.:

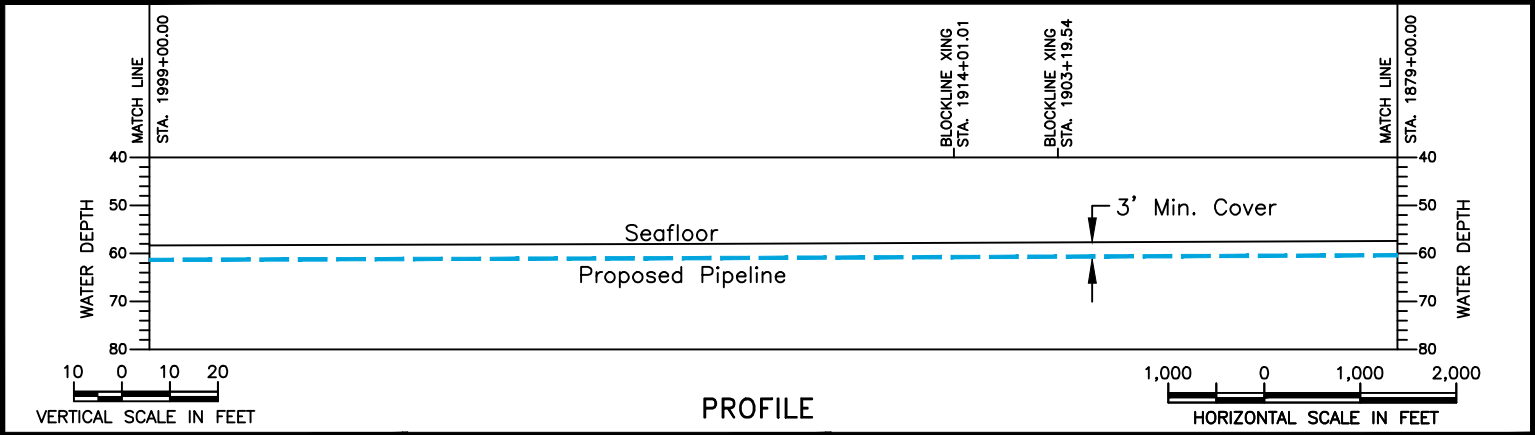
REV. DATE:

SCALE: 1"=2,000'

SHEET 16 OF 18



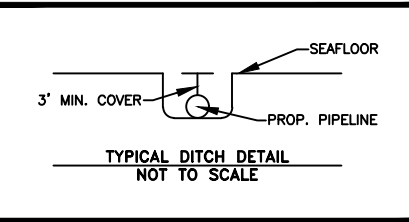
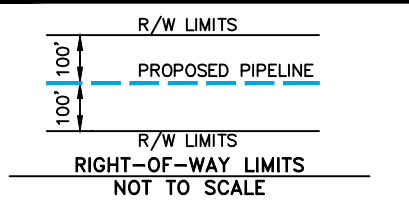
PLAN



PROFILE

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REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA



Manta Ray Gathering Company, L.L.C.

PROPOSED 6" GAS PIPELINE
BLOCK 167, WEST CAMERON AREA TO
BLOCK A5, HIGH ISLAND AREA
GULF OF MEXICO

DATUM: NAD 27	PROJECTION: LAMBERT
SPHEROID: CLARKE 1866	ZONE: LA SOUTH

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LOUISIANA LAND SURVEYING
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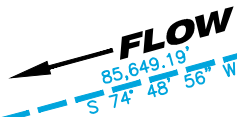
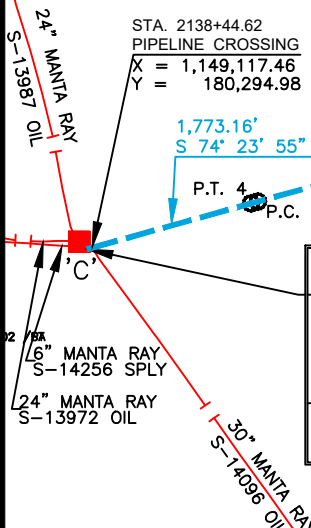
DRAWN BY: RJN	DATE: 11/28/2022	JOB No.: 22-039	DWG No.: 22-039-PERM
REV. No.:	REV. DATE:	SCALE: 1"=2,000'	SHEET 17 OF 18

PROPOSED 6" GAS PIPELINE
TOTAL LENGTH - 213,899.87' (40.51 MI)

HIA5 HIA4



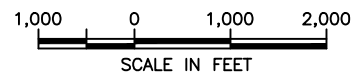
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P.C. STA. 2120+53.95	X = 1,150,842.21 Y = 180,776.31
P.T. STA. 2121+26.71	X = 1,150,772.06 Y = 180,757.00
R = 10,000.00'	L = 72.76'



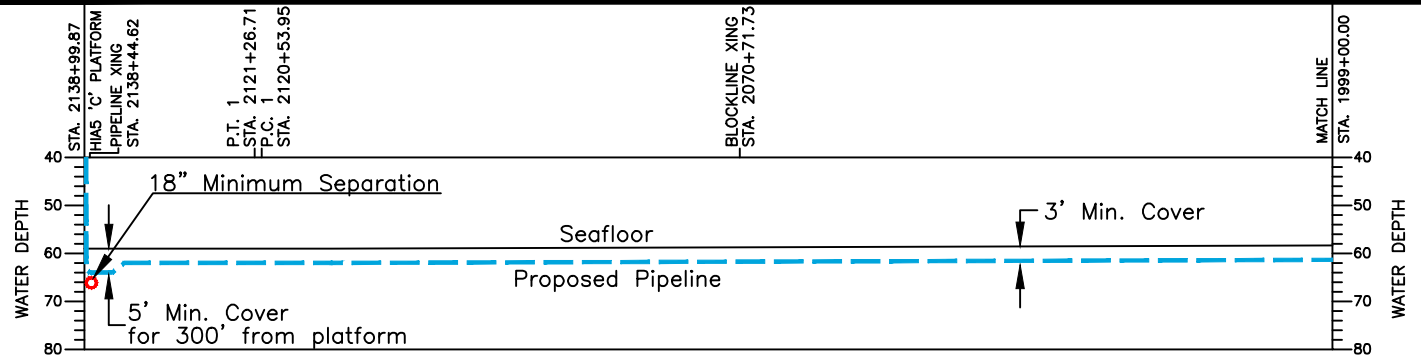
MATCH LINE
STA. 1999+00.00

STA. 2138+99.87 HIA5 'C' PLATFORM
NAD 27
X = 1,149,064.23 Y = 180,280.12
LAT. = 29° 08' 06.706\"N LONG. = 93° 59' 55.400\"W
NAD 83
LAT. = 29° 08' 07.572\"N LONG. = 93° 59' 56.020\"W

STA. 2070+71.73 BLOCKLINE CROSSING
X = 1,155,650.49 Y = 182,081.30

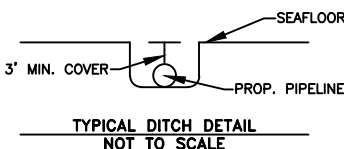
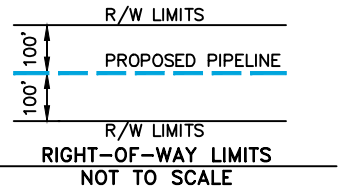


PLAN



PROFILE

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Manta Ray Gathering Company, L.L.C.

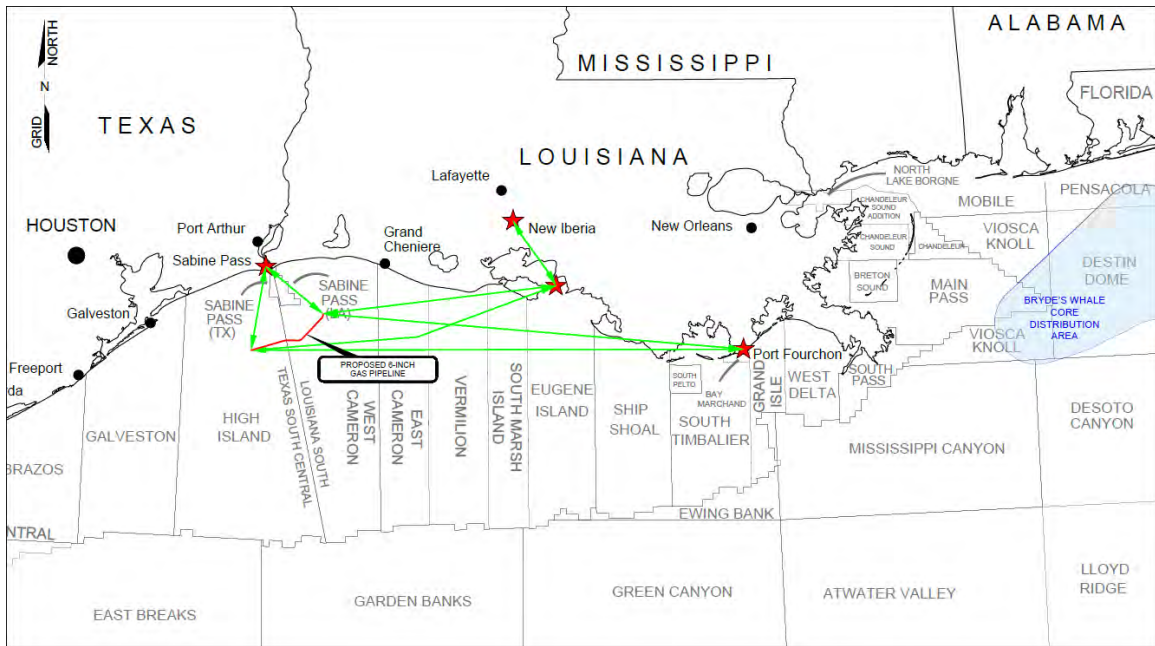
PROPOSED 6" GAS PIPELINE
BLOCK 167, WEST CAMERON AREA TO
BLOCK A5, HIGH ISLAND AREA
GULF OF MEXICO

DATUM: NAD 27	PROJECTION: LAMBERT		
SPHEROID: CLARKE 1866	ZONE: LA SOUTH		
36499 Perkins Road Prairieville, Louisiana 70769 Tel: 225-673-2163			
9522 Brookline Ave., Suite 107 Baton Rouge, Louisiana 70809 225-753-5283 (LAND) info@louisianasurvey.com			
DRAWN BY: RJN	DATE: 11/28/2022	JOB No.: 22-039	DWG No.: 22-039-PERM
REV. No.:	REV. DATE:	SCALE: 1"=2,000'	SHEET 18 OF 18

Attachment 7 – Onshore Bases
Manta Ray Gathering Company, LLC
WC-167 to HI A5 Fuel Gas Pipeline

1. ENDANGERED SPECIES ACT (ESA) STATEMENT

Project support activities for the pipeline will be from Houston, TX for engineering, planning and project management; and Port Fourchon, LA, New Iberia, LA, and Sabine Pass, TX for offshore operations. At no point will any vessels cross or enter the Bryde's whale area during the performance of the work as shown in the below sketch. No new facilities or personnel will be required for these activities.



**Attachment 7 – Endangered Species Act (ESA) Statement
Manta Ray Gathering Company, LLC
WC-167 to HI A5 Fuel Gas Pipeline**

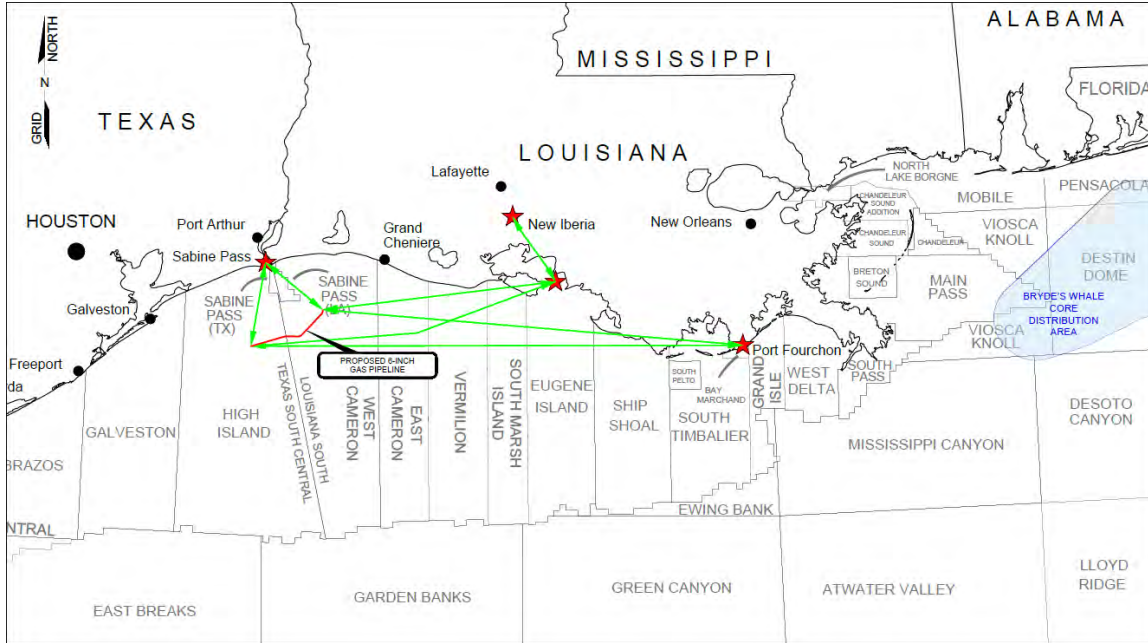
1. ENDANGERED SPECIES ACT (ESA) STATEMENT

All construction activities will comply with the Endangered Species Act (ESA) Section 7, programmatic Biological Opinion (2020 BiOp) issued by National Marine Fisheries Services (NMFS) to the Bureau of Ocean Energy Management (BOEM) and Bureau of Safety and Environmental Enforcement (BSEE) for operations on the Gulf of Mexico (GOM) Outer Continental Shelf (OCS).

To provide clarification and additional information applicable to the application;

- a. No New or Unusual Technology (NUT) will be utilized during the performance of the work.
- b. Any vessel utilizing a moon pool contracted to conduct construction activities will comply with 30 CFR § 250.9106(c) and § 250.107(a)(4) before transit and during operations. If any sea turtle or marine mammal is detected in the moon pool, the NMFS and BSEE will be immediately contacted for additional guidance.
- c. With respects to equipment that may have an entanglement or entrapment risk (e.g., flexible lines/ropes) to ESA-listed species, vessel positioning anchor lines will be deployed but these do not pose a risk for entanglement. The diving systems utilize a high-strength armored cable to lower the diving bell with divers to the worksite, and this cable provides the necessary life support systems for the divers during the work. Hydraulic power necessary for the performance of the work will be supplied by the supporting ROV; however, in compliance with the BiOp, if any temporary downline is necessary to deploy tooling to the divers, they will be sufficiently taut and monitored with tenders on the back deck and recovered when not needed.
- d. No impact/pile hammers will be utilized during the performance of the work.
- e. No sound sources will be utilized during the performance of the work.
- f. The construction will follow the protocols provided in Gulf of Mexico Marine Trash and Debris Awareness and Elimination Survey Protocols Appendix B found in the Biological Opinion issued by NMFS on March 13, 2020.
- g. The support bases for offshore operations will be located in Port Fourchon, LA, New Iberia, LA, and Sabine Pass, TX. At no point will any vessels cross or enter the Bryde's whale area during the performance of the work as shown in the following sketch.

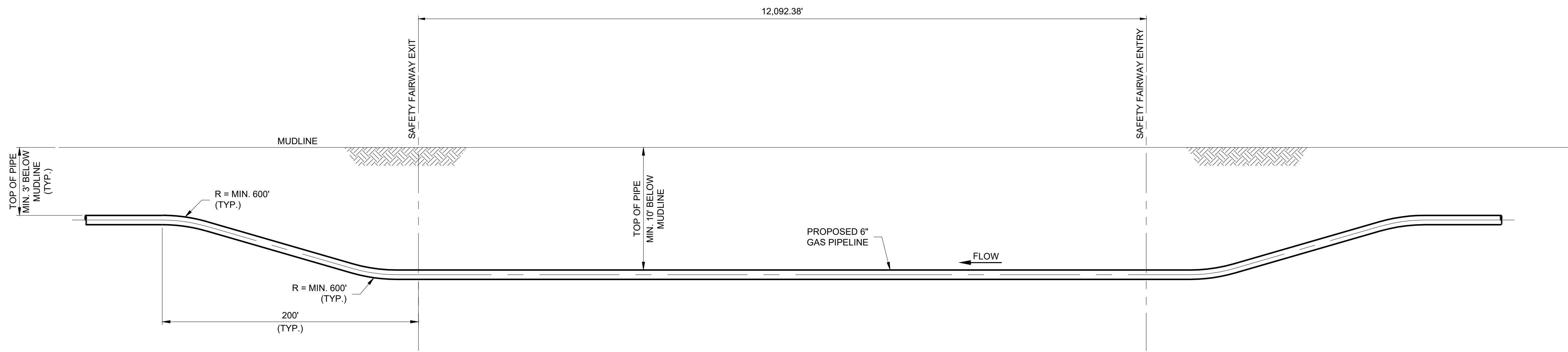
Attachment 7 – Endangered Species Act (ESA) Statement
Manta Ray Gathering Company, LLC
WC-167 to HI A5 Fuel Gas Pipeline



SAFETY FAIRWAY CROSSING											
PIPELINE	OUTER DIAMETER (IN)	TYPE	SAFETY FAIRWAY ENTRY			SAFETY FAIRWAY EXIT			APPROX. WATER DEPTH (FT)	FAIRWAY WIDTH (FT)	CROSSING ANGLE (DEG)
			BLOCK NUMBER	X-COORDINATE (FT)	Y-COORDINATE (FT)	BLOCK NUMBER	X-COORDINATE (FT)	Y-COORDINATE (FT)			
PROPOSED 6" GAS PIPELINE	6.625	FUEL GAS	WC-306	1,261,856.08	203,024.00	WC-307	1,249,766.34	203,276.54	52-54	12,092.38'	89.97°

NOTES

1. CROSSING COORDINATES ARE BASED UPON GEODETIC DATUM NAD27, LOUISIANA SOUTH SPCS (ZONE 1702, CENTRAL MERIDIAN 91°20' W), ELLIPSOID CLARKE 1866, GRID UNITS IN FEET.



SAFETY FAIRWAY PROFILE

ISSUED FOR INFORMATION

PLOT: Monday, December 12, 2022 4:42:20 PM BY: JORGE BUSTAMANTE LAST SAVE: 12/12/2022 4:36:42 PM FILE NAME: X:\085\2222.00 - HI-A5 FUEL GAS PIPELINE\2222-CTI-PPL-DWG-00151-B

REFERENCE NO.	REFERENCE TITLE/COMPANY	REV	DESCRIPTION	REVISION DATE	REV'D BY	RVWD BY	CHK'D BY	APP'D BY	CLIENT APP'D
		B	ISSUED FOR INFORMATION	12/12/22	JBu	FMI	RMa	JSh	-
		A	ISSUED FOR REVIEW AND COMMENT	09/01/22	JBu	FMI	RMa	JSh	-

CLIENT
 Manta Ray Gathering Company, L.L.C.
 PROJECT
 WC-167 TO
 HI-A5 FUEL GAS PIPELINE
 CLIENT DRAWING NO.
 -

 3200 Wilcrest, Suite 500
 Houston, Texas 77042
 713.787.9444
 www.cronustec.com

TITLE					
WEST CAMERON 167 TO HIGH ISLAND A-5 PROPOSED 6" GAS PIPELINE TYPICAL SAFETY FAIRWAY CROSSING					
SHEET	SIZE	SCALE	CTI DRAWING NO.		
1 OF 1	D	N.T.S.	2222-CTI-PPL-DWG-001551		
					REV B