



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

October 12, 2020

Operations Division
Central Evaluation Section

Project Manager
Dirreen Arnold
(504) 862-2301
Dirreen.S.Arnold@usace.army .mil

SUBJECT: MVN 2020-00925 CA

PUBLIC NOTICE

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the US 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).

PROPOSED 8.625" OD BULK OIL PIPELINE and 4" ASSOCIATED UMBILICAL CROSSING EWING BANK SAFETY FAIRWAY, GULF OF MEXICO

NAME OF APPLICANT: LLOG Exploration Offshore, LLC, Attn: Julian Williams, 1001 Ochsner Boulevard, Suite 100, Covington, Louisiana, 70433.

LOCATION OF WORK: Crossing the Ewing Bank Safety Fairway, Gulf of Mexico, Blocks 877, 876, 921, 920, 919, 875, 874 and 873, approximately 62 nautical miles south of Port Fourchon, Louisiana, (28.100681, -90.201887), off the coast of Lafourche Parish, Louisiana, as shown on the enclosed drawings.

CHARACTER OF WORK: The applicant has requested Department of the Army authorization to install and maintain approximately 73,064 feet of 8.625" OD bulk oil pipeline, to transport oil from Ewing Bank Area, Block 877, Manifold, OCS-G 35295 to Enven Energy Ventures, LLC's fixed "A" Platform (Lobster) in Ewing Bank Area, Block 873, OCS-G 12136 and to install and maintain approximately 74,051 feet of 4" umbilical pipeline from Ewing Bank Area, Block 873 "A" Platform and terminate at the well site Umbilical Termination Assembly (UTA) in Ewing Bank Area, Block 877, OCS-G 35295. No special aquatic sites will be affected by this project and no mitigation is anticipated.

The comment period for the 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 must be mailed so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit

Application Number, and be mailed to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH**. Individuals or parties may request an extension of time in which to comment on the proposed work by writing or e-mailing the Corps of Engineers Project Manager listed above. Any request 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 Section 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 to the initial comment period and, inclusive of the initial comment period, will not exceed a total of 30 calendar days.

Corps of Engineers Permit Criteria

The decision as to whether a permit will be issued will be based on an evaluation of the impact of the proposed work on navigation and national security.

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 unaware of properties listed on the National Register of Historic Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, pre-historical, historical sites, or data. Issuance of this public notice solicits input from the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

Our initial finding is that the proposed work would not affect any species, nor affect any habitat designated as critical to the survival and recovery of such species, listed as endangered by the U.S. Department of Commerce.

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 or alteration of N/A 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.

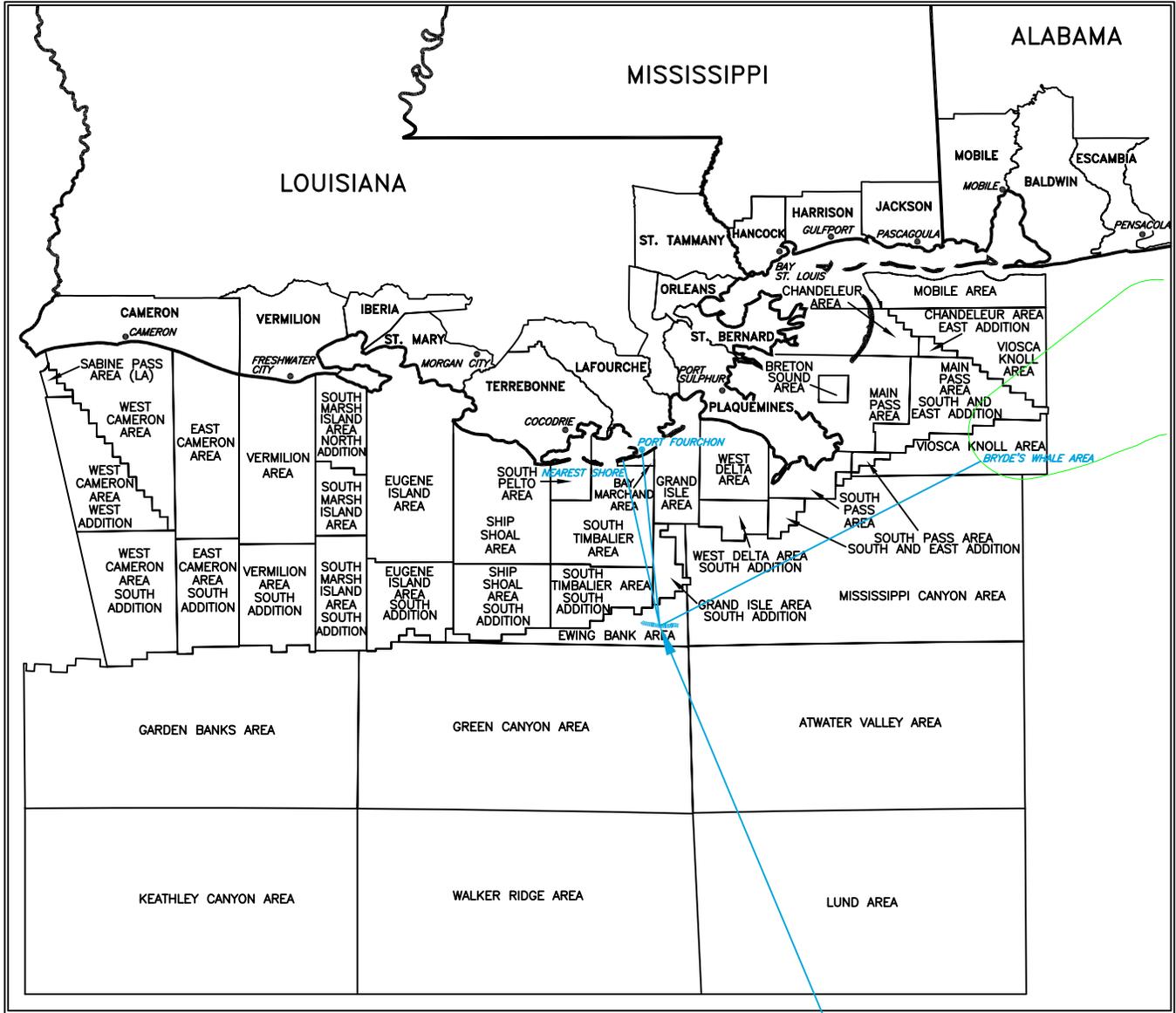
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

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

JOHN M. HERMAN
Chief, Central Evaluation Section
Regulatory Branch

Enclosure

LOUISIANA GULF COAST INDEX
BOEM O.C.S. LEASING AREAS

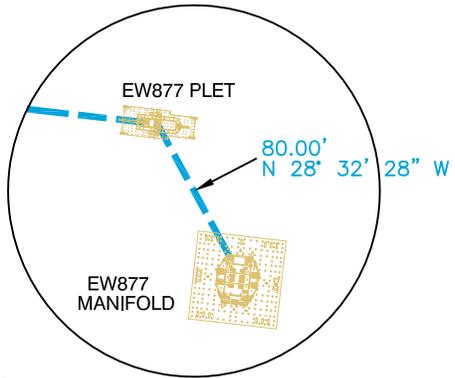


PROPOSED 8" BULK OIL PIPELINE

~69 STATUTE (60 NAUTICAL) MILES TO LAFOURCHE PARISH (NEAREST SHORE)
 COORDINATE TO NEAREST POINT ON SHORELINE X = 2,488,313 Y = 10,554,077
 ~72 STATUTE (62 NAUTICAL) MILES TO PORT FOURCHON, LA
 ~135 STATUTE (117 NAUTICAL) MILES TO BRYDE'S WHALE AREA

VICINITY MAP

LLOG EXPLORATION OFFSHORE, L.L.C.		
PROPOSED 8" BULK OIL PIPELINE ROUTE BLOCK 877 MANIFOLD TO BLOCK 873 'A' PLATFORM EWING BANK AREA GULF OF MEXICO		
DATUM: NAD 27	PROJECTION: U.T.M.	
SPHEROID: CLARKE 1866	ZONE: 15	
36499 Perkins Road Prairieville, Louisiana 70769 Tel: 225-673-2163 17732 Highland Road • Suite G-126 Baton Rouge • Louisiana • 70810 Phone 753-5263(LAND) • Fax 752-5418		
DRAWN BY: MVT	DATE: 8/12/2020	JOB No.: 20-027
REV. No.:	REV. DATE:	SCALE: N.T.S.
		SHEET 1 OF 7



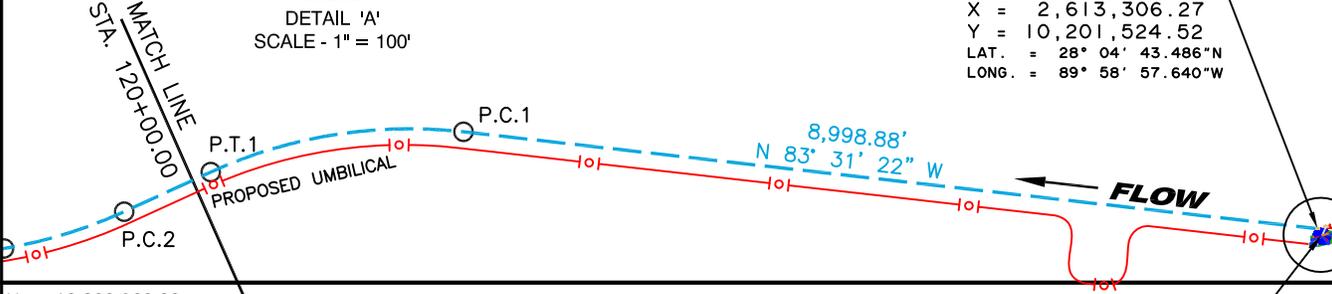
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Y =	10,202,539.67
P. T. STA.	117+90.94
X =	2,601,719.33
Y =	10,202,117.74
R =	5,000.00'
L =	2,712.06'

EW877
OCS-G35295
LLOG EXPLORATION OFFSHORE LLC

X = 2,613,600.00



EW878
OCS-G18169
WALTER OIL & GAS CORPORATION



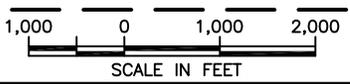
EW877 PLET
STA. 0+80.00
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Y = 10,201,524.52
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LONG. = 89° 58' 57.640"W

EW877 MANIFOLD
STA. 0+00
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Y = 10,201,454.24
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LONG. = 89° 58' 57.233"W

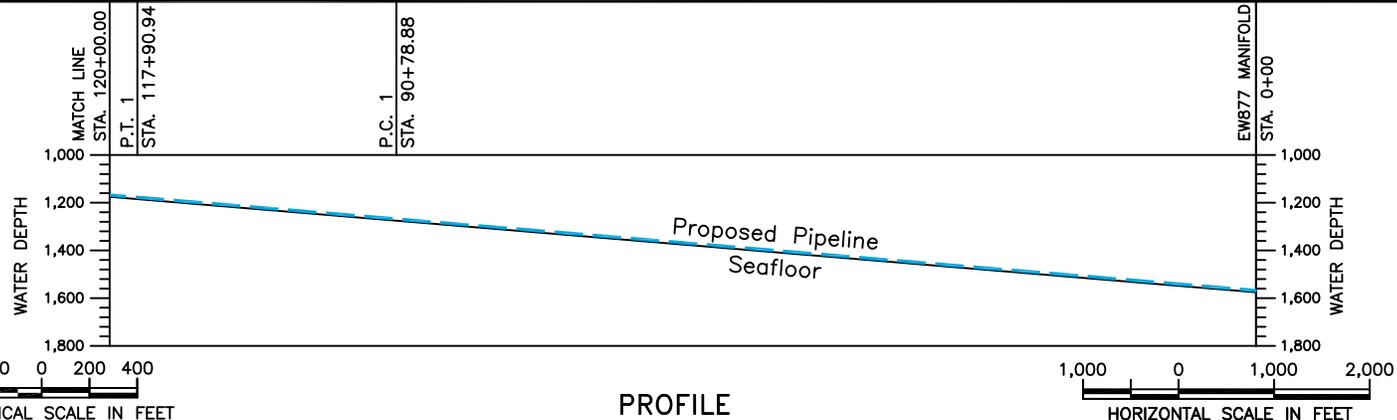
PROPOSED 8" BULK OIL PIPELINE
TOTAL LENGTH - 73,063.73' (13.84 MI)

EW922
OCS-Open

EW921
OCS-G36704
LLOG EXPLORATION OFFSHORE LLC
OCS-G12142
ENI US OPERATING CO INC



PLAN

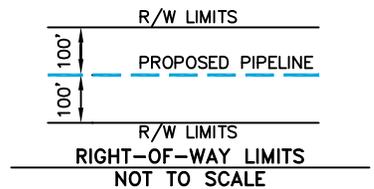


PROFILE

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



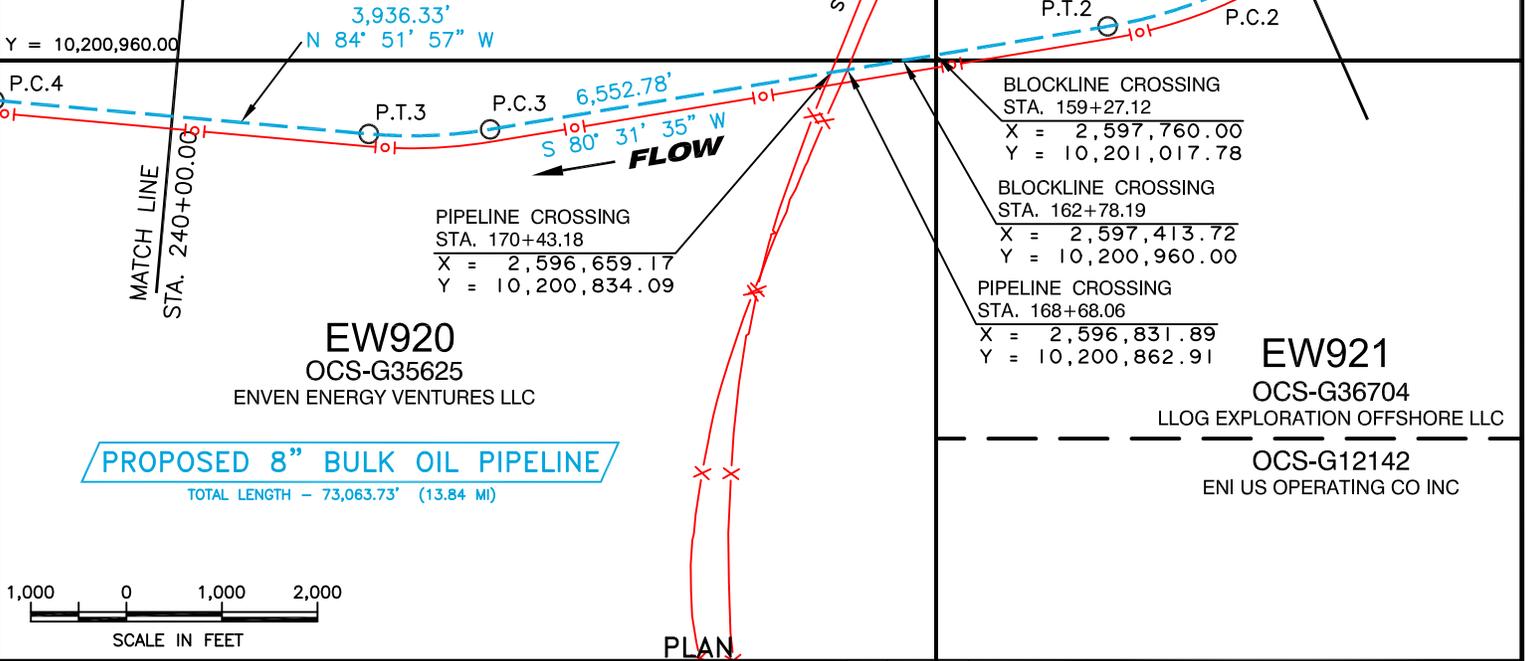
LLOG EXPLORATION OFFSHORE, L.L.C.			
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36499 Perkins Road Prairieville, Louisiana 70769 Tel: 225-673-2163		17723 Highland Road • Suite C-125 Baton Rouge • Louisiana • 70810 Phone 753-5283(LAND) • Fax 752-5418	
DRAWN BY: MVT	DATE: 8/12/2020	JOB No.: 20-027	DRAWING No.: 20-027-PER-PL
REV. No.: 1	REV. DATE:	SCALE: AS NOTED	SHEET 2 OF 7

EW876
OCS-Open

EW877
OCS-G35295
LLOG EXPLORATION OFFSHORE LLC

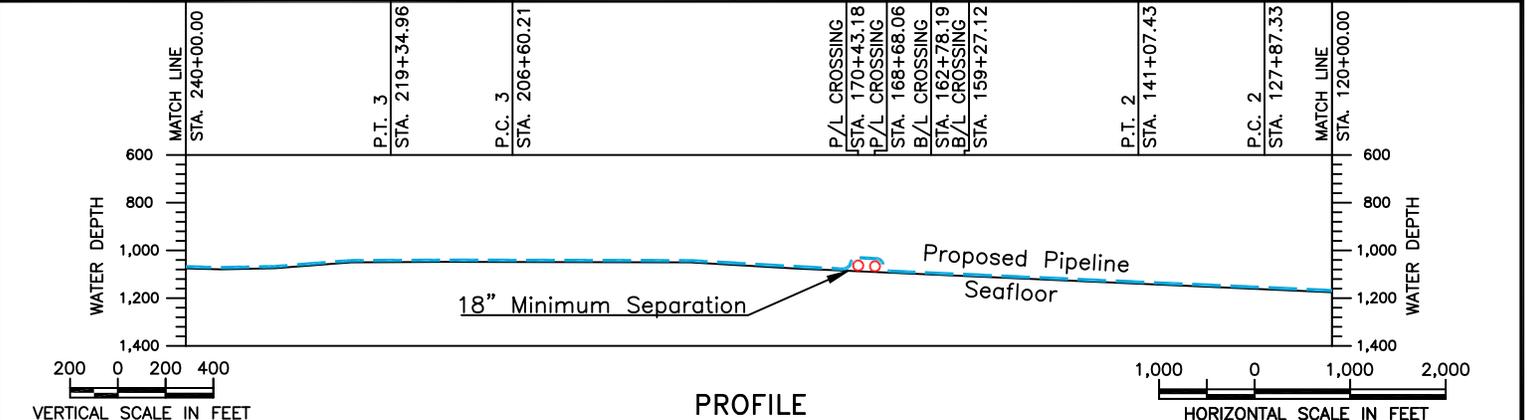
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Y =	10,200,238.76
P.T. STA.	219+34.96
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R =	5,000.00'
L =	1,274.75'

CURVE 2 DATA	
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Y =	10,201,426.56
P.C. STA.	127+87.33
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Y =	10,201,702.95
P.T. STA.	141+07.43
X =	2,599,554.88
Y =	10,201,317.29
R =	5,000.00'
L =	1,320.10'



PROPOSED 8" BULK OIL PIPELINE
TOTAL LENGTH - 73,063.73' (13.84 MI)

PLAN

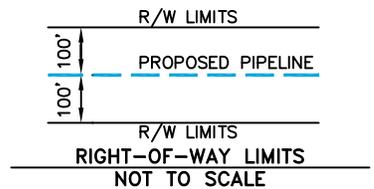


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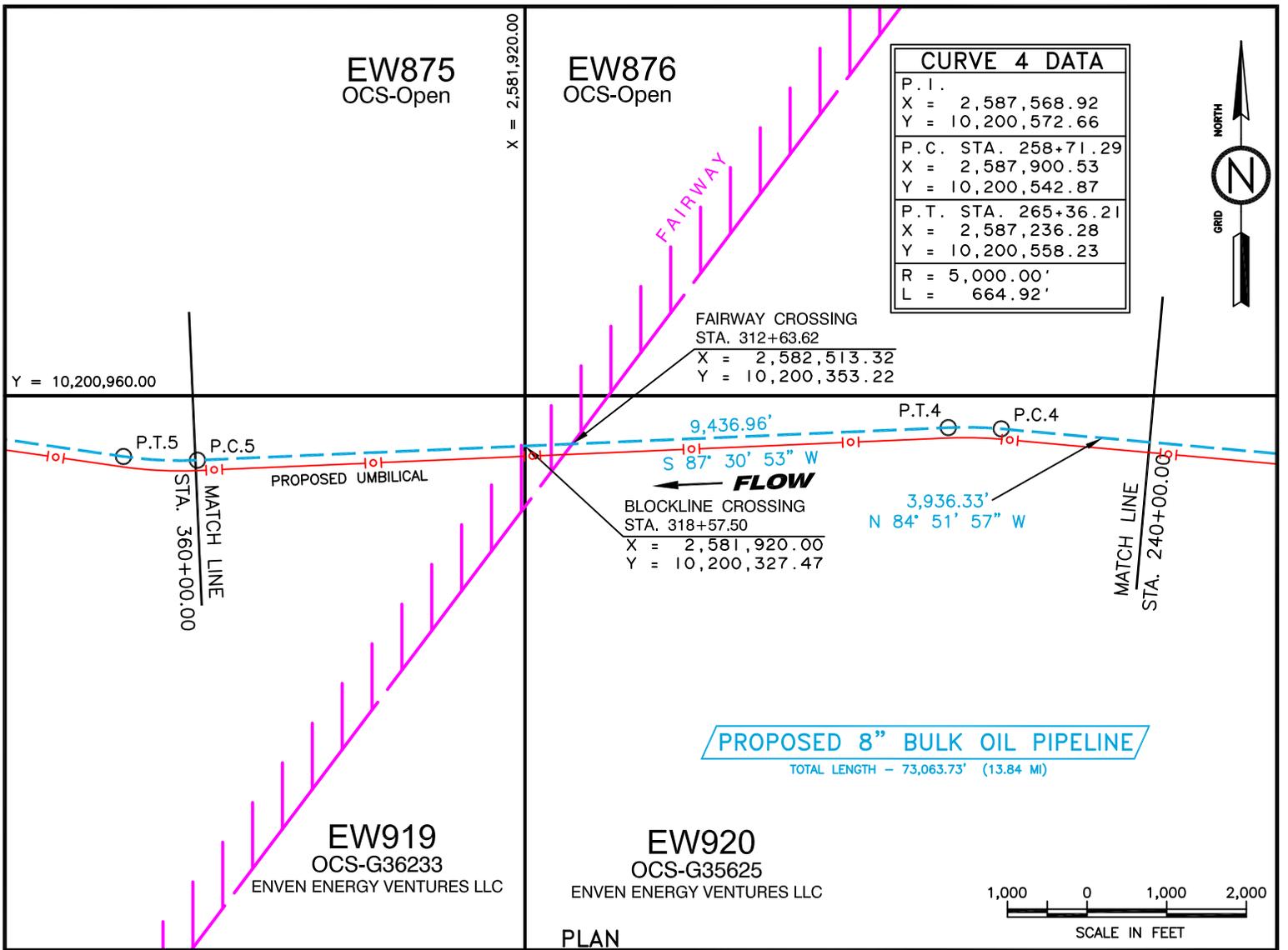
THIS IS TO CERTIFY THAT THIS PLAT WAS PREPARED BASED ON ACCEPTED INDUSTRY STANDARDS TO THE BEST OF MY KNOWLEDGE.



REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA



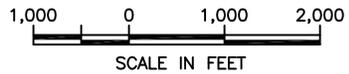
LLOG EXPLORATION OFFSHORE, L.L.C.			
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DATUM: NAD 27	PROJECTION: U.T.M.		
SPHEROID: CLARKE 1866	ZONE: 15		
36499 Perkins Road Prairieville, Louisiana 70769 Tel: 225-673-2163		17732 Highland Road • Suite G-126 Baton Rouge • Louisiana • 70810 Phone 753-5263(LAND) • Fax 752-5418	
DRAWN BY: MVT	DATE: 8/12/2020	JOB No.: 20-027	DRAWING No.: 20-027-PER-PL
REV. No.:	REV. DATE:	SCALE: AS NOTED	SHEET 3 OF 7



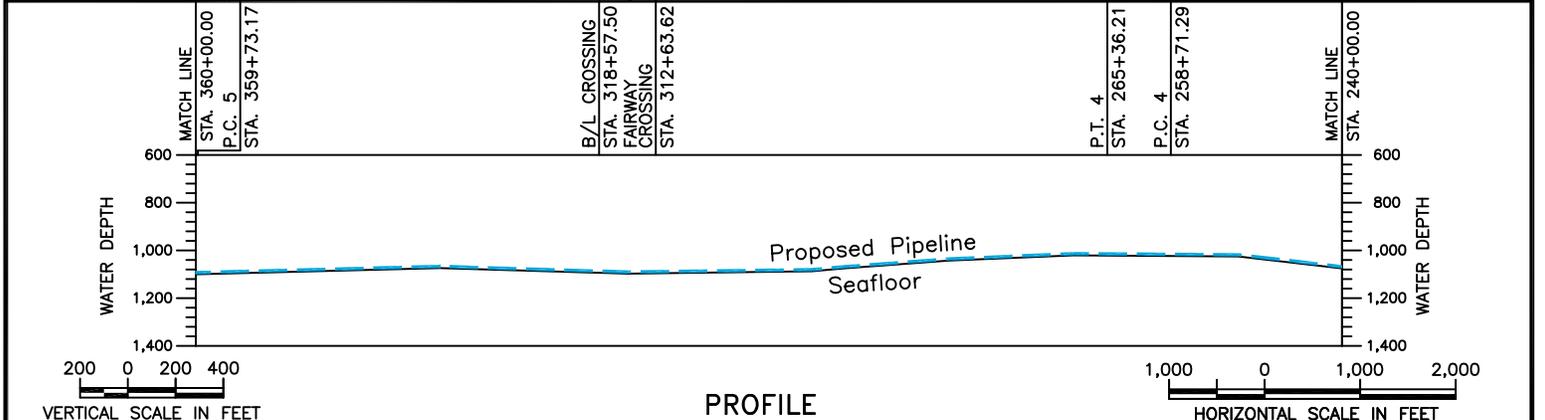
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Y	10,200,572.66
P. C. STA.	258+71.29
X	2,587,900.53
Y	10,200,542.87
P. T. STA.	265+36.21
X	2,587,236.28
Y	10,200,558.23
R	5,000.00'
L	664.92'



PROPOSED 8" BULK OIL PIPELINE
TOTAL LENGTH - 73,063.73' (13.84 MI)

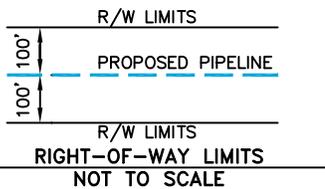


PLAN



PROFILE

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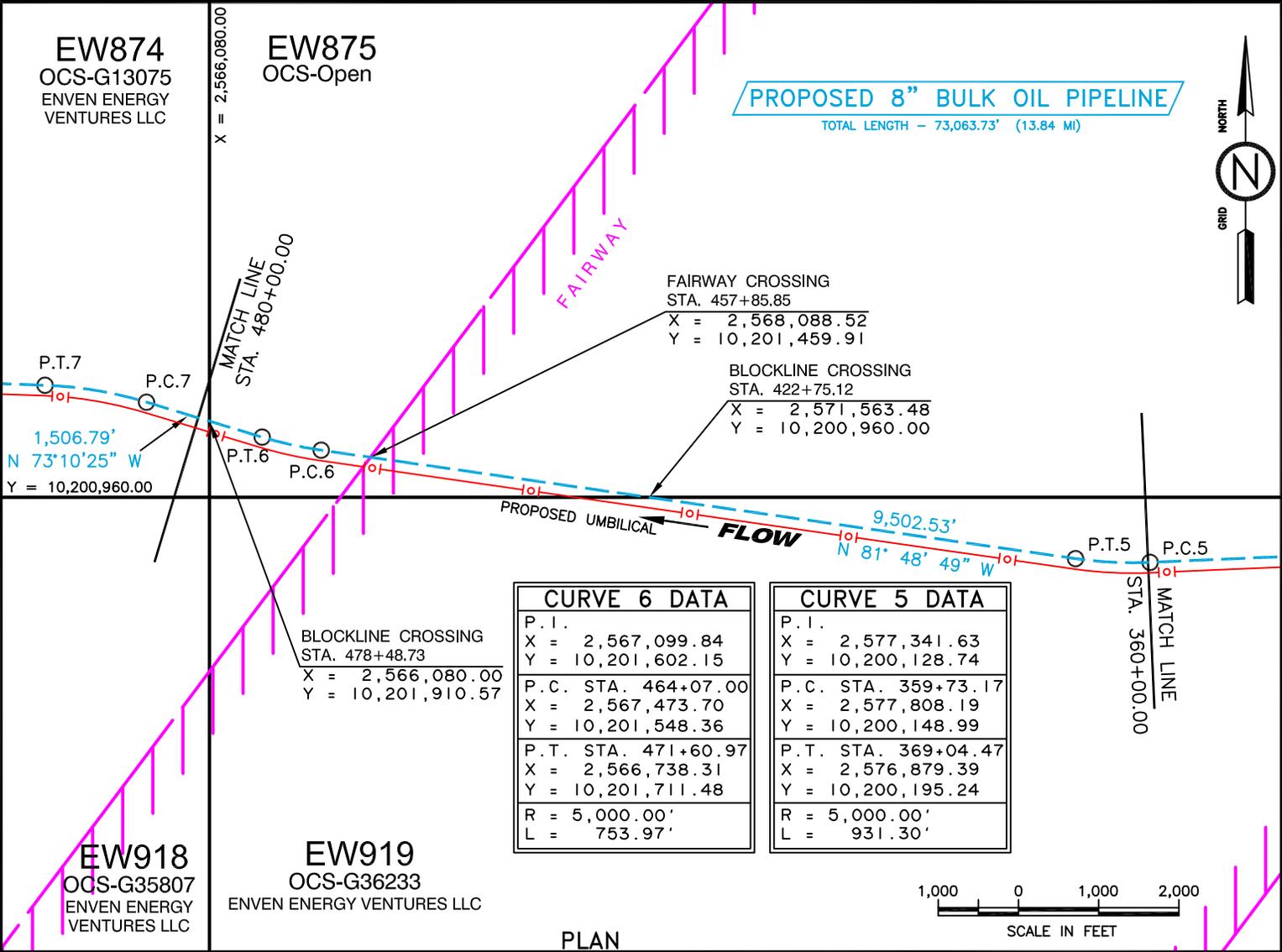
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DRAWN BY: MVT	DATE: 8/12/2020	JOB No.: 20-027	DRAWING No.: 20-027-PER-PL
REV. No.:	REV. DATE:	SCALE: AS NOTED	SHEET 4 OF 7

EW874
OCS-G13075
ENVEN ENERGY
VENTURES LLC

EW875
OCS-Open

PROPOSED 8" BULK OIL PIPELINE
TOTAL LENGTH - 73,063.73' (13.84 MI)



CURVE 6 DATA	
P. I.	X = 2,567,099.84 Y = 10,201,602.15
P. C. STA.	464+07.00 X = 2,567,473.70 Y = 10,201,548.36
P. T. STA.	471+60.97 X = 2,566,738.31 Y = 10,201,711.48
R	5,000.00'
L	753.97'

CURVE 5 DATA	
P. I.	X = 2,577,341.63 Y = 10,200,128.74
P. C. STA.	359+73.17 X = 2,577,808.19 Y = 10,200,148.99
P. T. STA.	369+04.47 X = 2,576,879.39 Y = 10,200,195.24
R	5,000.00'
L	931.30'

BLOCKLINE CROSSING
STA. 478+48.73
X = 2,566,080.00
Y = 10,201,910.57

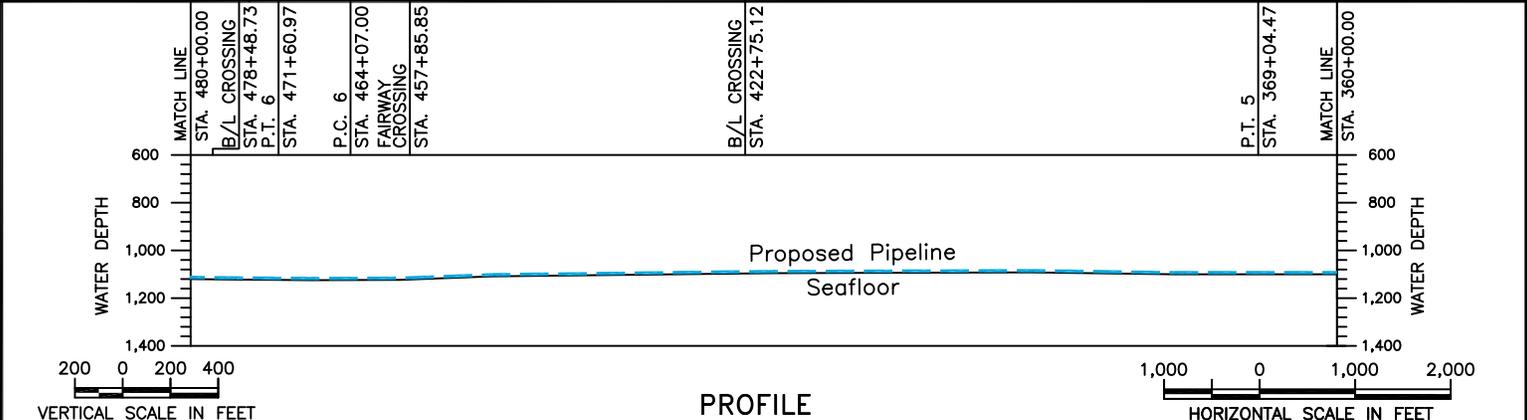
FAIRWAY CROSSING
STA. 457+85.85
X = 2,568,088.52
Y = 10,201,459.91

BLOCKLINE CROSSING
STA. 422+75.12
X = 2,571,563.48
Y = 10,200,960.00

EW918
OCS-G35807
ENVEN ENERGY
VENTURES LLC

EW919
OCS-G36233
ENVEN ENERGY VENTURES LLC

PLAN

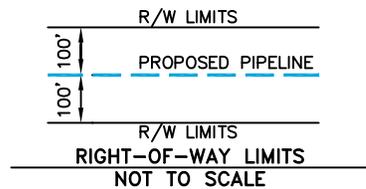


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REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA



LLOG EXPLORATION OFFSHORE, L.L.C.			
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DATUM: NAD 27	PROJECTION: U.T.M.		
SPHEROID: CLARKE 1866	ZONE: 15		
36499 Perkins Road Prairieville, Louisiana 70769 Tel: 225-673-2163		17732 Highland Road • Suite C-122 Baton Rouge • Louisiana • 70810 Phone 753-5283(LAND) • Fax 752-5418	
DRAWN BY: MVT	DATE: 8/12/2020	JOB No.: 20-027	DRAWING No.: 20-027-PER-PL
REV. No.:	REV. DATE:	SCALE: AS NOTED	SHEET 5 OF 7

PROPOSED 8" BULK OIL PIPELINE

TOTAL LENGTH - 73,063.73' (13.84 MI)

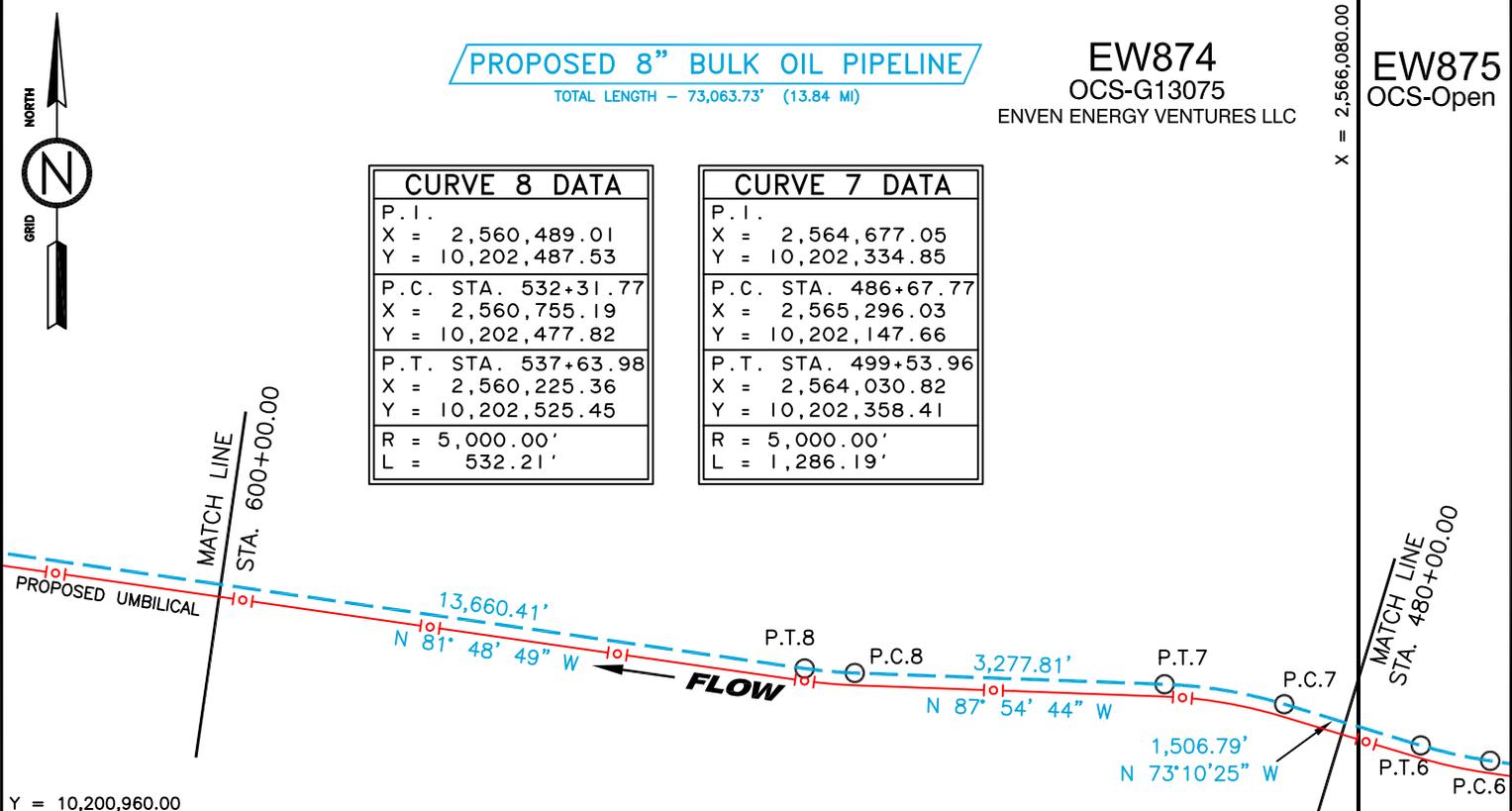
EW874
OCS-G13075
ENVEN ENERGY VENTURES LLC

EW875
OCS-Open

X = 2,566,080.00

CURVE 8 DATA	
P. I.	
X =	2,560,489.01
Y =	10,202,487.53
P. C. STA.	532+31.77
X =	2,560,755.19
Y =	10,202,477.82
P. T. STA.	537+63.98
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Y =	10,202,525.45
R =	5,000.00'
L =	532.21'

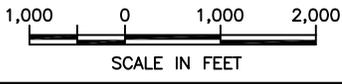
CURVE 7 DATA	
P. I.	
X =	2,564,677.05
Y =	10,202,334.85
P. C. STA.	486+67.77
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Y =	10,202,147.66
P. T. STA.	499+53.96
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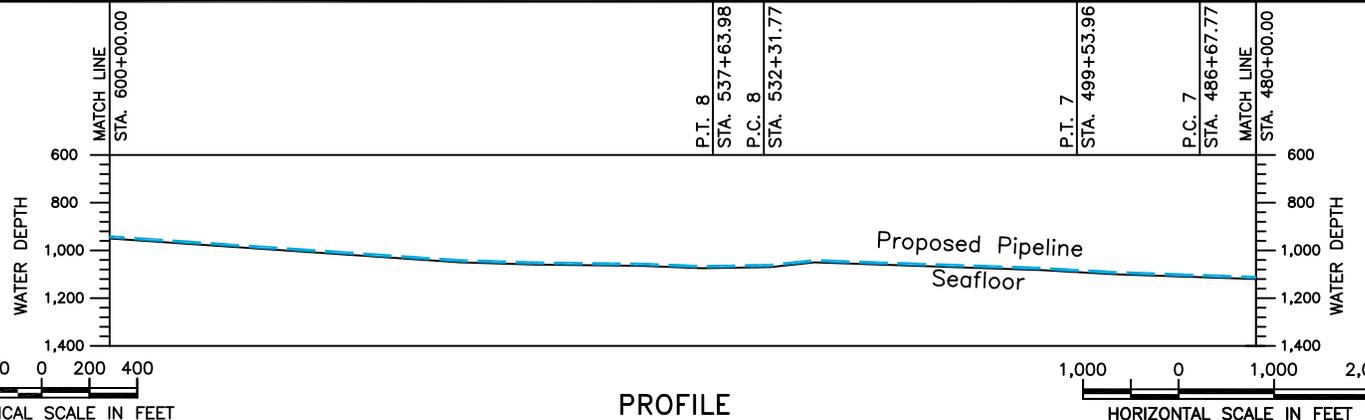
Y = 10,200,960.00

EW918
OCS-G35807
ENVEN ENERGY VENTURES LLC

EW919
OCS-G36233
ENVEN ENERGY VENTURES LLC



PLAN

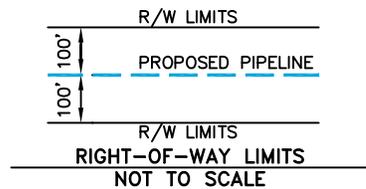


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STATE OF LOUISIANA



LLOG EXPLORATION OFFSHORE, L.L.C.		LLOG exploration	
PROPOSED 8" BULK OIL PIPELINE ROUTE BLOCK 877 MANIFOLD TO BLOCK 873 'A' PLATFORM EWING BANK AREA GULF OF MEXICO			
DATUM: NAD 27		PROJECTION: U.T.M.	
SPHEROID: CLARKE 1866		ZONE: 15	
Echo OFFSHORE LLC		LOUISIANA LAND SURVEYING, INC.	
36499 Perkins Road Prairieville, Louisiana 70769 Tel: 225-673-2163		17732 Highland Road • Suite G-122 Baton Rouge • Louisiana • 70810 Phone 753-5283(LAND) • Fax 752-5418	
DRAWN BY: MVT	DATE: 8/12/2020	JOB No.: 20-027	DRAWING No.: 20-027-PER-PL
REV. No.:	REV. DATE:	SCALE: AS NOTED	SHEET 6 OF 7

PROPOSED 8" BULK OIL PIPELINE

TOTAL LENGTH - 73,063.73' (13.84 MI)

EW873
OCS-G12136
ENVEN ENERGY VENTURES LLC

EW874
OCS-G13075
ENVEN ENERGY VENTURES LLC



X = 2,550,240.00

EW873 'A' PLATFORM
STA. 730+63.73

X = 2,542,409.28
Y = 10,207,810.83
LAT. = 28° 06' 02.451"N
LONG. = 90° 12' 06.793"W

1,630.06'
N 35° 52' 13" W

UNVERIFIED UMBILICAL CROSSING
STA. 724+73.76

X = 2,542,754.97
Y = 10,207,332.75

UNVERIFIED UMBILICAL CROSSING
STA. 723+71.84

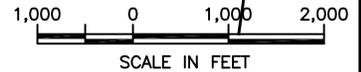
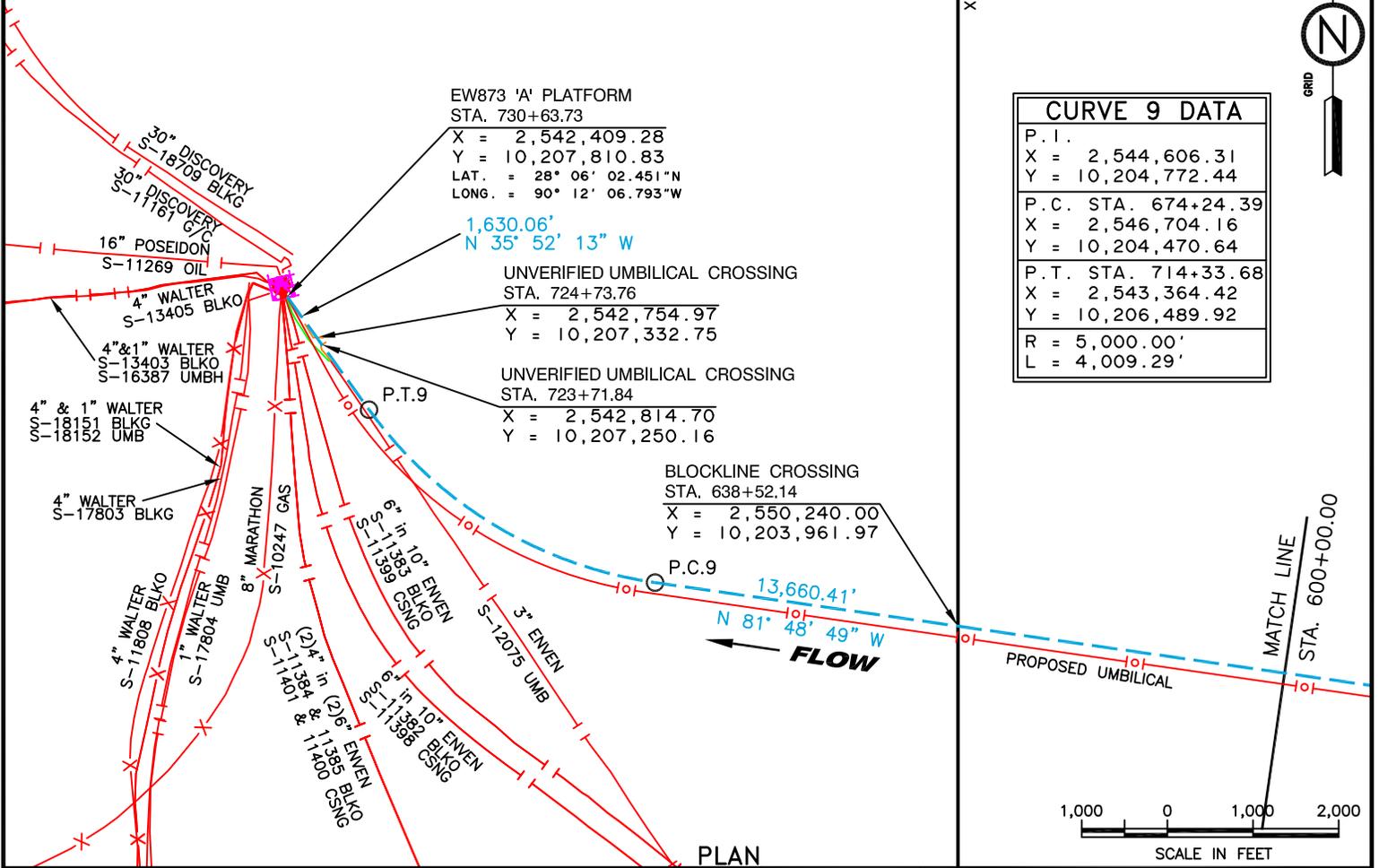
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Y = 10,207,250.16

BLOCKLINE CROSSING
STA. 638+52.14

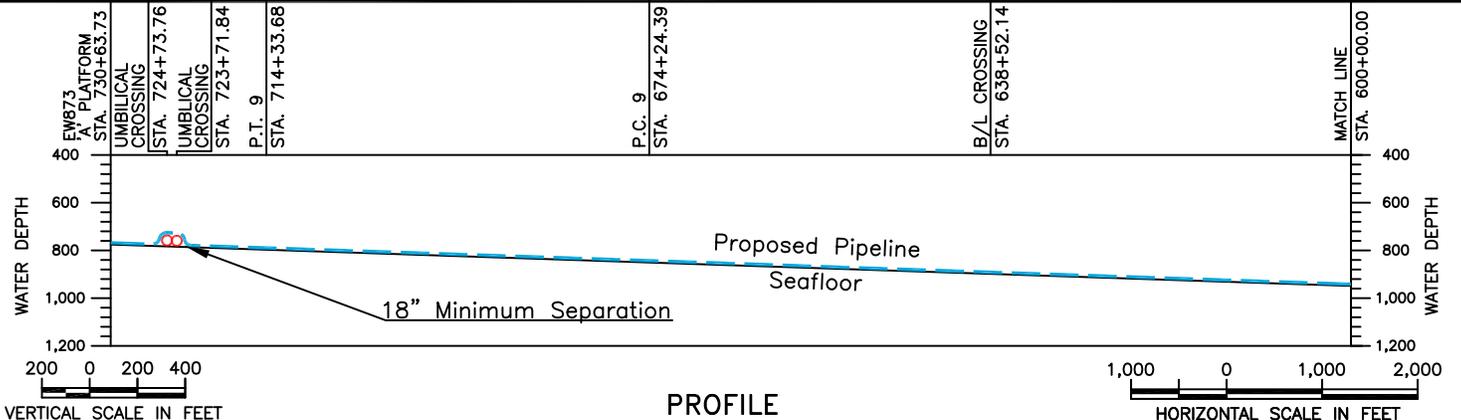
X = 2,550,240.00
Y = 10,203,961.97

P.C.9
13,660.41'
N 81° 48' 49" W
FLOW

CURVE 9 DATA	
P.I.	
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Y =	10,204,772.44
P.C. STA.	674+24.39
X =	2,546,704.16
Y =	10,204,470.64
P.T. STA.	714+33.68
X =	2,543,364.42
Y =	10,206,489.92
R =	5,000.00'
L =	4,009.29'



PLAN

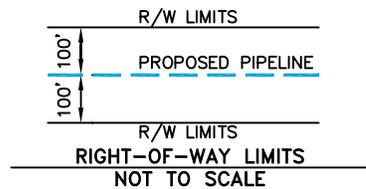


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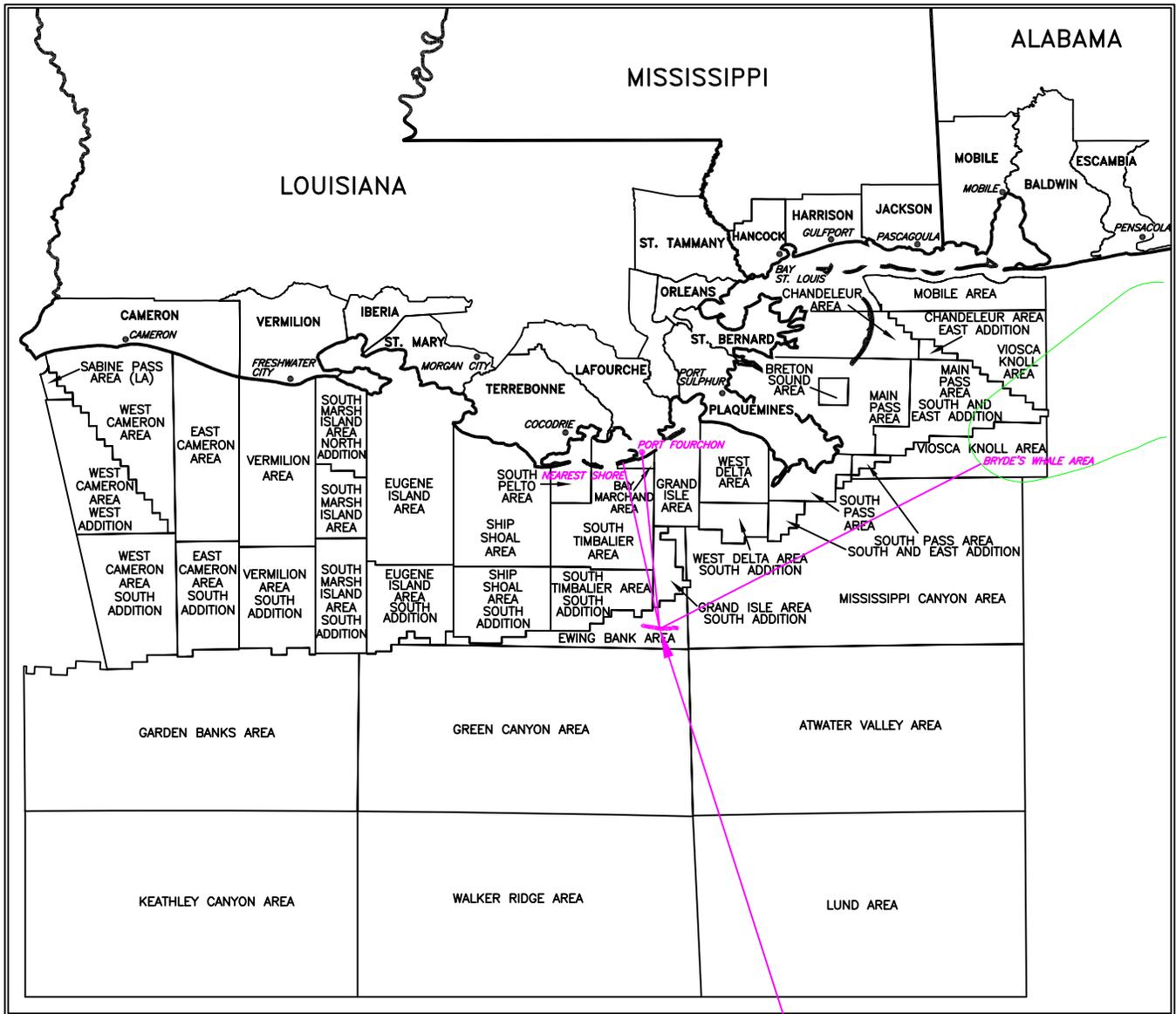


REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA



LLOG EXPLORATION OFFSHORE, L.L.C.		PROPOSED 8" BULK OIL PIPELINE ROUTE BLOCK 877 MANIFOLD TO BLOCK 873 'A' PLATFORM EWING BANK AREA GULF OF MEXICO	
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LOUISIANA GULF COAST INDEX
BOEM O.C.S. LEASING AREAS



PROPOSED 4" UMBILICAL

~69 STATUTE (60 NAUTICAL) MILES TO LAFOURCHE PARISH (NEAREST SHORE)
 COORDINATE TO NEAREST POINT ON SHORELINE X = 2,488,313 Y = 10,554,077
 ~72 STATUTE (62 NAUTICAL) MILES TO PORT FOURCHON, LA
 ~135 STATUTE (117 NAUTICAL) MILES TO BRYDE'S WHALE AREA

**LLOG EXPLORATION
OFFSHORE, L.L.C.**



PROPOSED 4" UMBILICAL ROUTE
 BLOCK 873 'A' PLATFORM TO BLOCK 877 UTA
 EWING BANK AREA
 GULF OF MEXICO

DATUM: NAD 27 PROJECTION: U.T.M.
 SPHEROID: CLARKE 1866 ZONE: 15

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

**LOUISIANA LAND
SURVEYING, INC.**
 17732 Highland Road • Suite G-126
 Baton Rouge • Louisiana • 70810
 Phone 753-5263(LAND) • Fax 752-5418

DRAWN BY: MVT DATE: 8/12/2020 JOB No.: 20-027 DRAWING No.: 20-027-PER-UM
 REV. No.: REV. DATE: SCALE: N.T.S SHEET 1 OF 8

PROPOSED 4" UMBILICAL

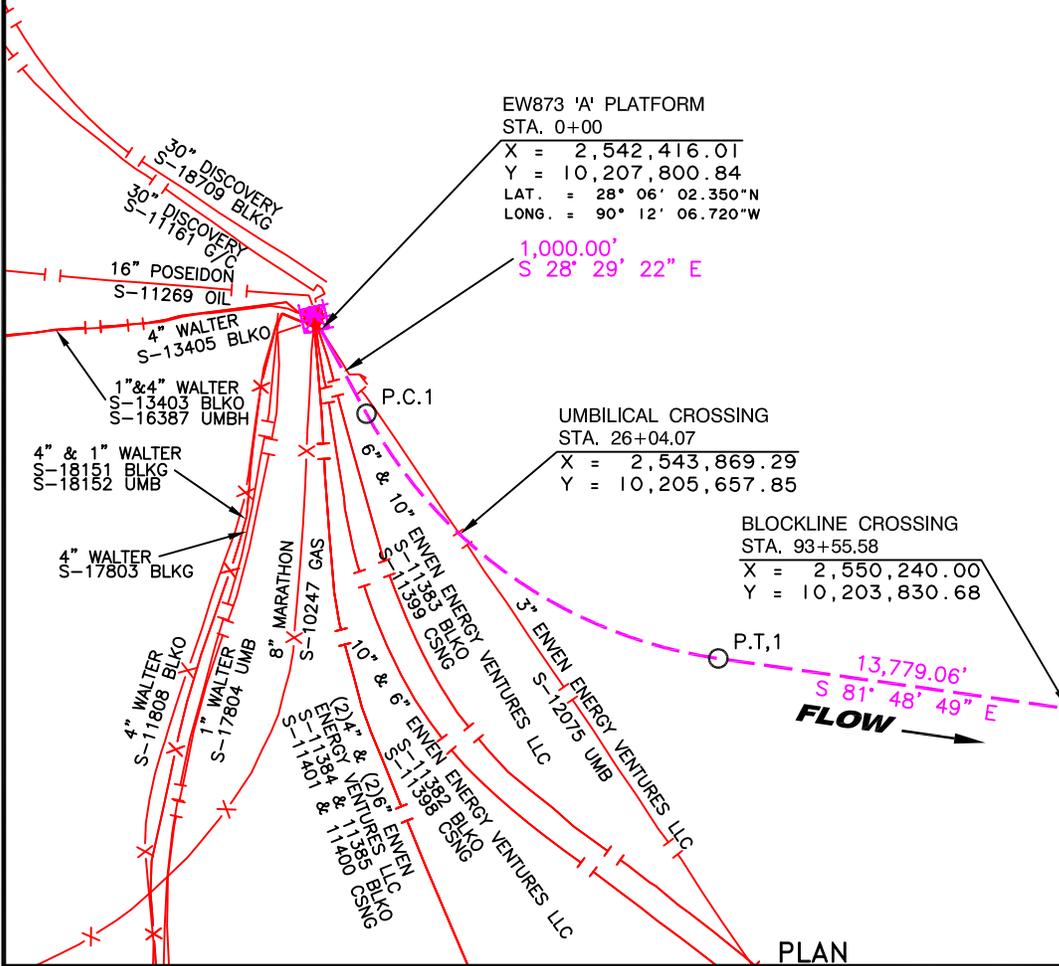
TOTAL LENGTH - 74,050.99' (14.02 MI)

EW873
OCS-G12136
ENVEN ENERGY VENTURES LLC

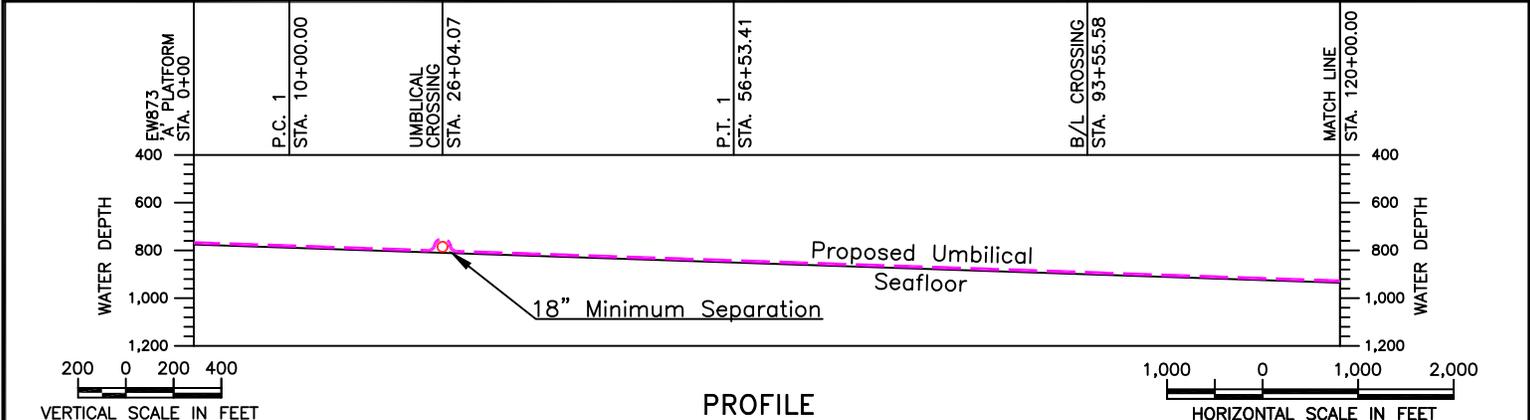
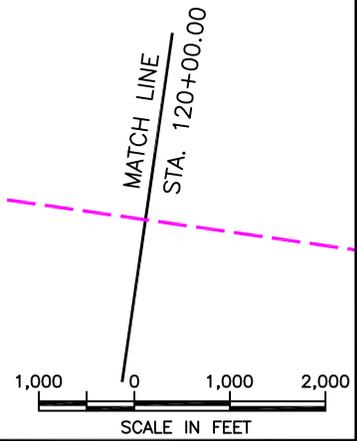
EW874
OCS-G13075
ENVEN ENERGY VENTURES LLC



X = 2,550,240.00

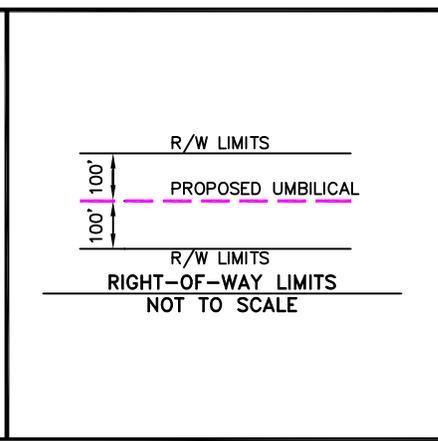


CURVE 1 DATA	
P. I.	
X =	2,544,090.54
Y =	10,204,715.36
P. C. STA.	10+00.00
X =	2,542,893.00
Y =	10,206,921.93
P. T. STA.	56+53.41
X =	2,546,575.55
Y =	10,204,357.86
R =	5,000.00'
L =	4,653.41'



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



LLOG EXPLORATION OFFSHORE, L.L.C.			
PROPOSED 4" UMBILICAL ROUTE BLOCK 873 'A' PLATFORM TO BLOCK 877 UTA EWING BANK AREA GULF OF MEXICO			
DATUM: NAD 27		PROJECTION: U.T.M.	
SPHEROID: CLARKE 1866		ZONE: 15	
36499 Perkins Road Prairieville, Louisiana 70769 Tel: 225-673-2163		17732 Highland Road • Suite G-126 Baton Rouge • Louisiana • 70810 Phone 753-5263(LAND) • Fax 752-5418	
DRAWN BY: MVT	DATE: 8/12/2020	JOB No.: 20-027	DRAWING No.: 20-027-PER-UM
REV. No.:	REV. DATE:	SCALE: AS NOTED	SHEET 2 OF 8



PROPOSED 4" UMBILICAL
TOTAL LENGTH - 74,050.99' (14.02 MI)

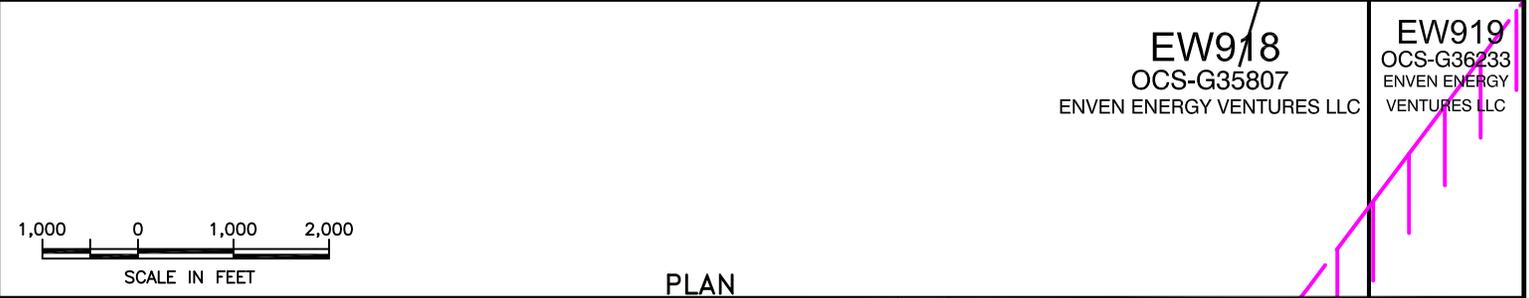
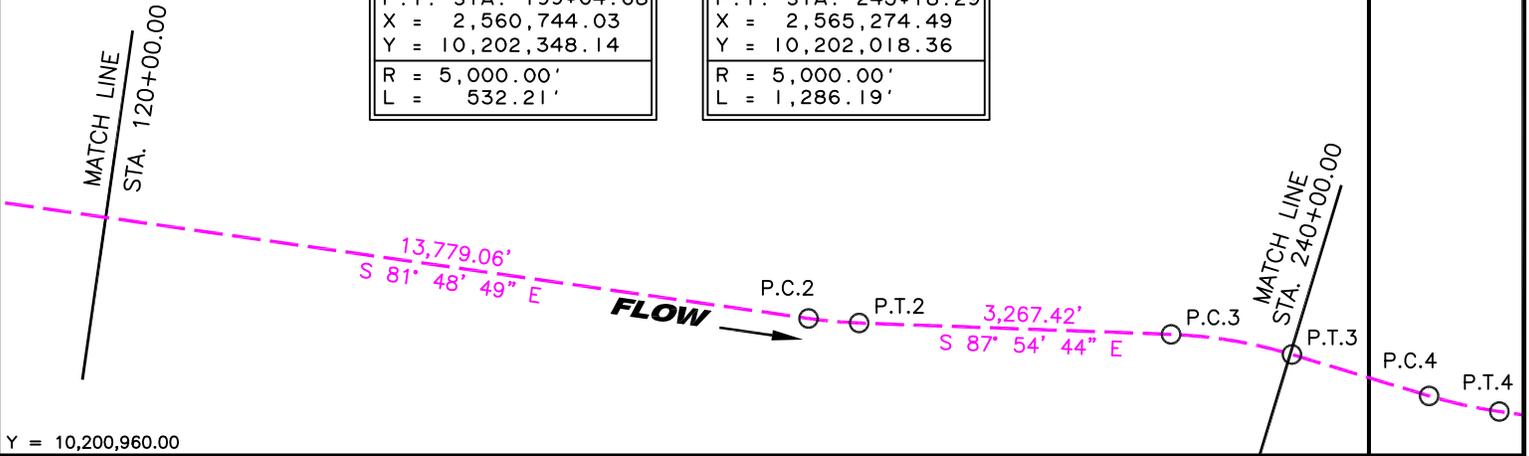
EW874
OCS-G13075
ENVEN ENERGY VENTURES LLC

EW875
OCS-Open

X = 2,566,080.00

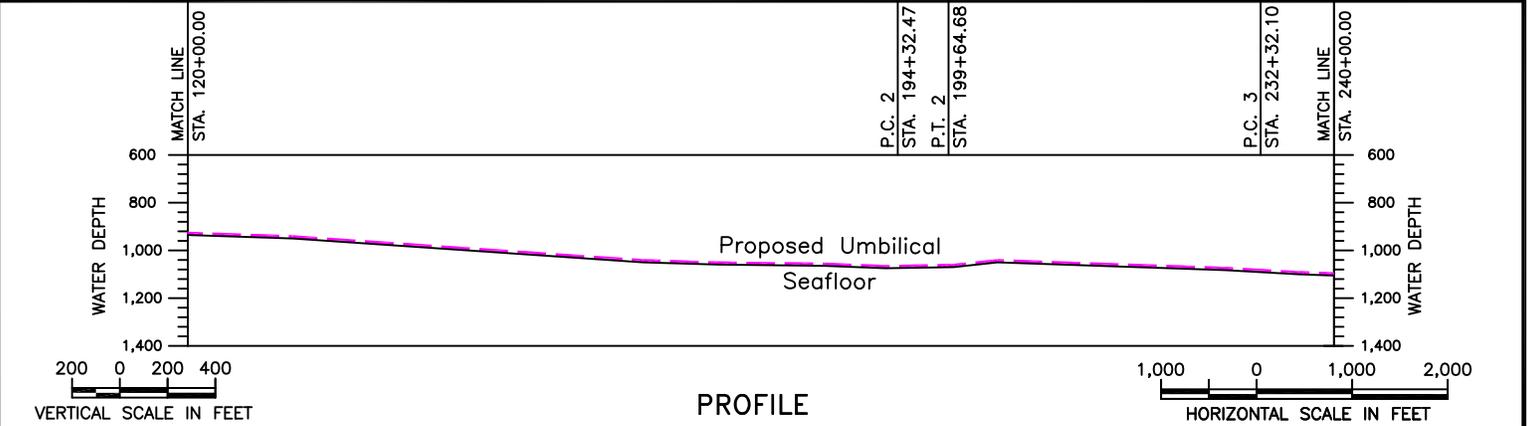
CURVE 2 DATA	
P.I.	
X =	2,560,477.85
Y =	10,202,357.85
P.C. STA.	194+32.47
X =	2,560,214.20
Y =	10,202,395.77
P.T. STA.	199+64.68
X =	2,560,744.03
Y =	10,202,348.14
R =	5,000.00'
L =	532.21'

CURVE 3 DATA	
P.I.	
X =	2,564,655.52
Y =	10,202,205.55
P.C. STA.	232+32.10
X =	2,564,009.28
Y =	10,202,229.11
P.T. STA.	245+18.29
X =	2,565,274.49
Y =	10,202,018.36
R =	5,000.00'
L =	1,286.19'



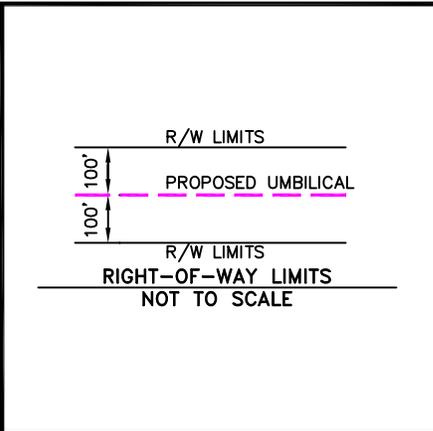
EW918
OCS-G35807
ENVEN ENERGY VENTURES LLC

EW919
OCS-G36233
ENVEN ENERGY VENTURES LLC

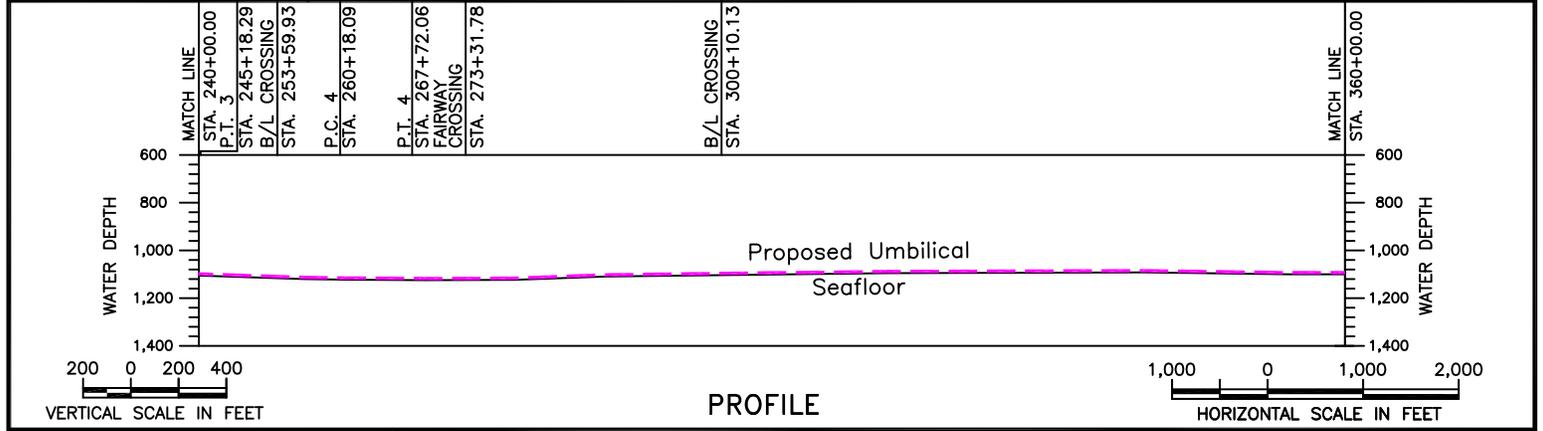
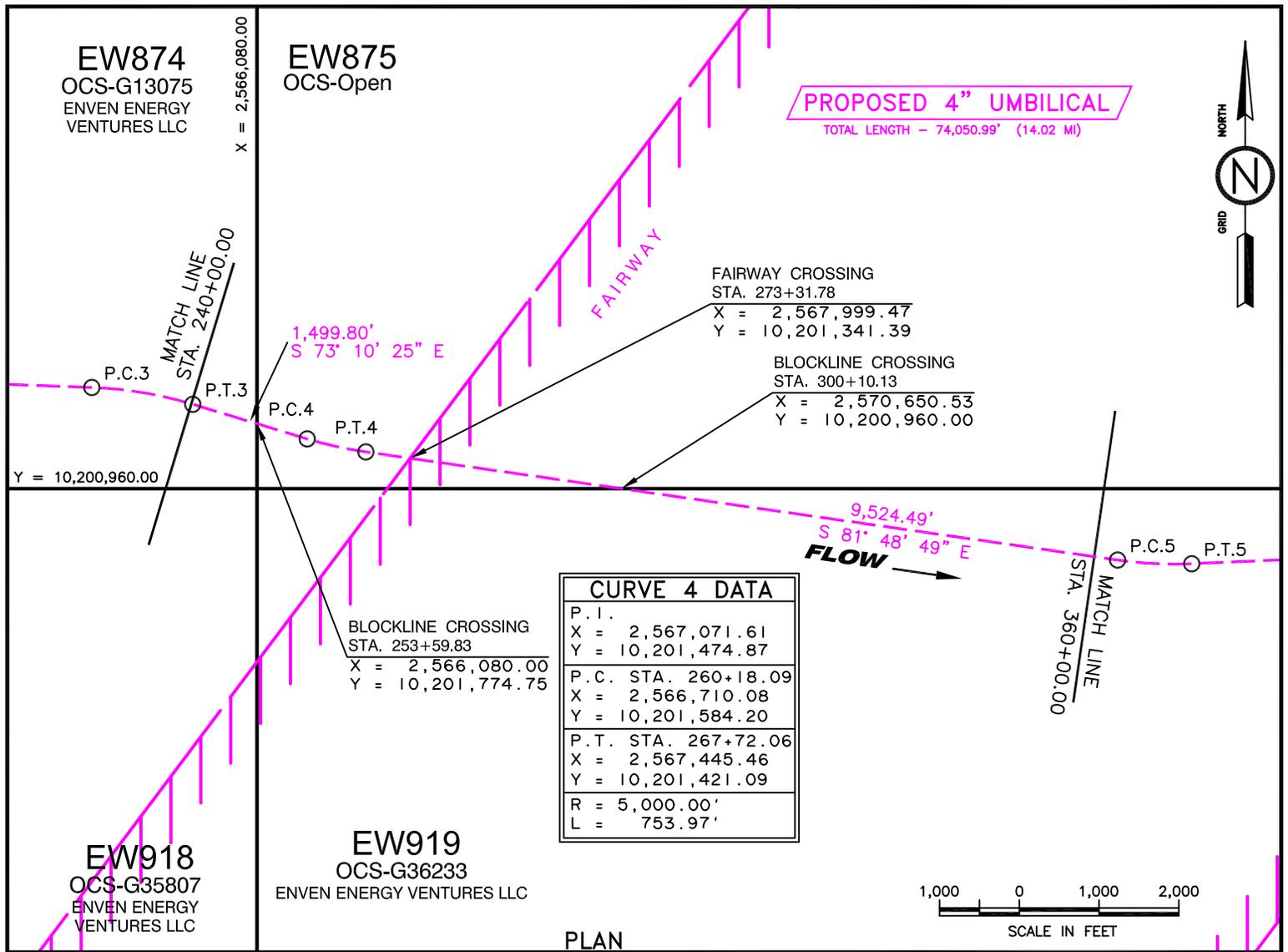


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REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA

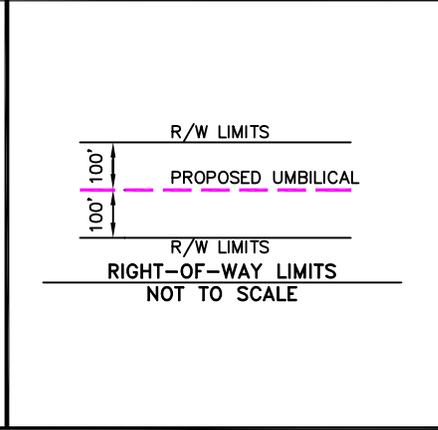


LLOG EXPLORATION OFFSHORE, L.L.C.			
PROPOSED 4" UMBILICAL ROUTE BLOCK 873 'A' PLATFORM TO BLOCK 877 UTA EWING BANK AREA GULF OF MEXICO			
DATUM: NAD 27		PROJECTION: U.T.M.	
SPHEROID: CLARKE 1866		ZONE: 16	
36499 Perkins Road Prairieville, Louisiana 70769 Tel: 225-673-2163		17732 Highland Road • Suite G-122 Baton Rouge • Louisiana • 70810 Phone 753-5263(LAND) • Fax 752-5418	
DRAWN BY: MVT	DATE: 8/12/2020	JOB No.: 20-027	DRAWING No.: 20-027-PER-UM
REV. No.:	REV. DATE:	SCALE: AS NOTED	SHEET 3 OF 8



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



LLOG EXPLORATION OFFSHORE, L.L.C.

PROPOSED 4" UMBILICAL ROUTE
BLOCK 873 'A' PLATFORM TO BLOCK 877 UTA
EWING BANK AREA
GULF OF MEXICO

DATUM: NAD 27 PROJECTION: U.T.M.

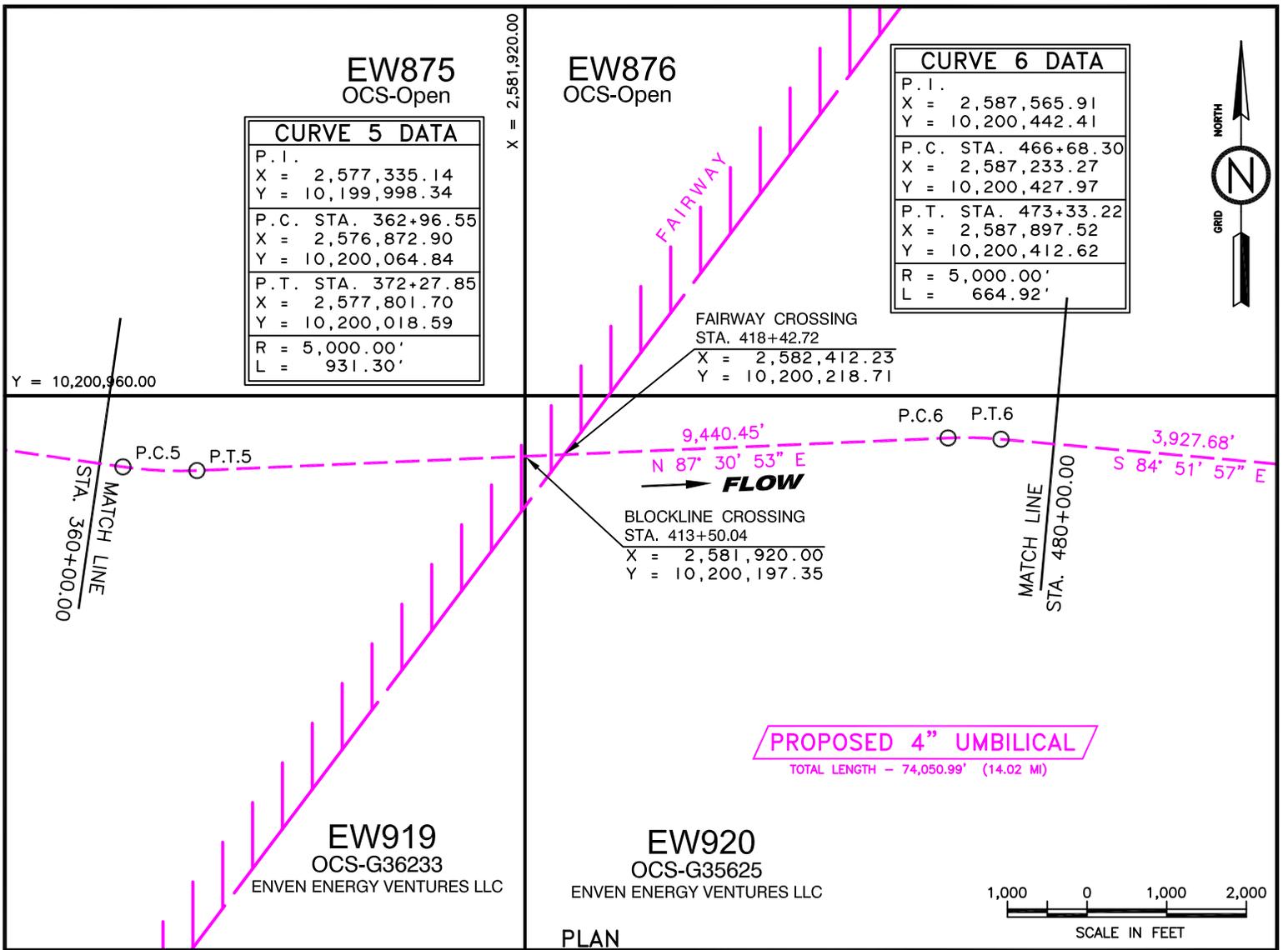
SPHEROID: CLARKE 1866 ZONE: 15

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

LOUISIANA LAND SURVEYING, INC.
17732 Highland Road • Suite G-122
Baton Rouge • Louisiana • 70810
Phone 753-5263(LAND) • Fax 752-5418

DRAWN BY: MVT DATE: 8/12/2020 JOB No.: 20-027 DRAWING No.: 20-027-PER-UM

REV. No.: REV. DATE: SCALE: AS NOTED **SHEET 4 OF 8**



EW875
OCS-Open

CURVE 5 DATA	
P. I.	
X =	2,577,335.14
Y =	10,199,998.34
P. C. STA.	362+96.55
X =	2,576,872.90
Y =	10,200,064.84
P. T. STA.	372+27.85
X =	2,577,801.70
Y =	10,200,018.59
R =	5,000.00'
L =	931.30'

EW876
OCS-Open

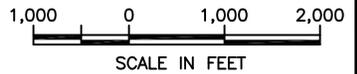
CURVE 6 DATA	
P. I.	
X =	2,587,565.91
Y =	10,200,442.41
P. C. STA.	466+68.30
X =	2,587,233.27
Y =	10,200,427.97
P. T. STA.	473+33.22
X =	2,587,897.52
Y =	10,200,412.62
R =	5,000.00'
L =	664.92'



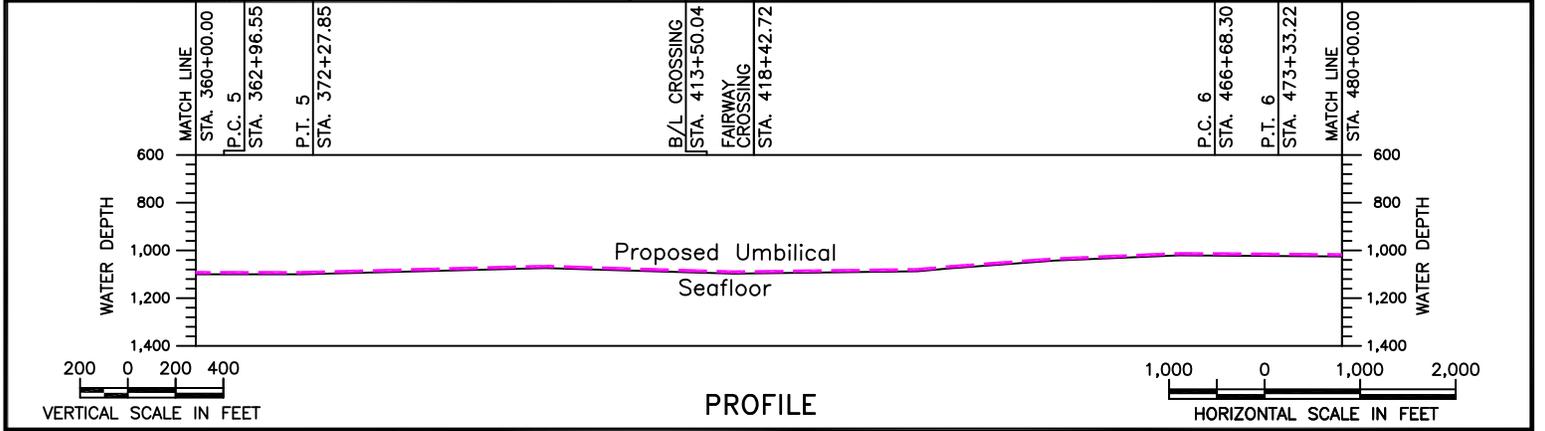
PROPOSED 4" UMBILICAL
TOTAL LENGTH - 74,050.99' (14.02 MI)

EW919
OCS-G36233
ENVEN ENERGY VENTURES LLC

EW920
OCS-G35625
ENVEN ENERGY VENTURES LLC

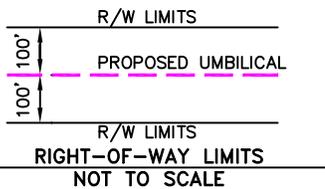


PLAN



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

LLOG EXPLORATION OFFSHORE, L.L.C.			
PROPOSED 4" UMBILICAL ROUTE BLOCK 873 'A' PLATFORM TO BLOCK 877 UTA EWING BANK AREA GULF OF MEXICO			
DATUM: NAD 27		PROJECTION: U.T.M.	
SPHEROID: CLARKE 1866		ZONE: 16	
36499 Perkins Road Prairieville, Louisiana 70769 Tel: 225-673-2163		17732 Highland Road • Suite G-126 Baton Rouge • Louisiana • 70810 Phone 753-5263(LAND) • Fax 752-5418	
DRAWN BY: MVT	DATE: 8/12/2020	JOB No.: 20-027	DRAWING No.: 20-027-PER-UM
REV. No.:	REV. DATE:	SCALE: AS NOTED	SHEET 5 OF 8

EW876
OCS-Open

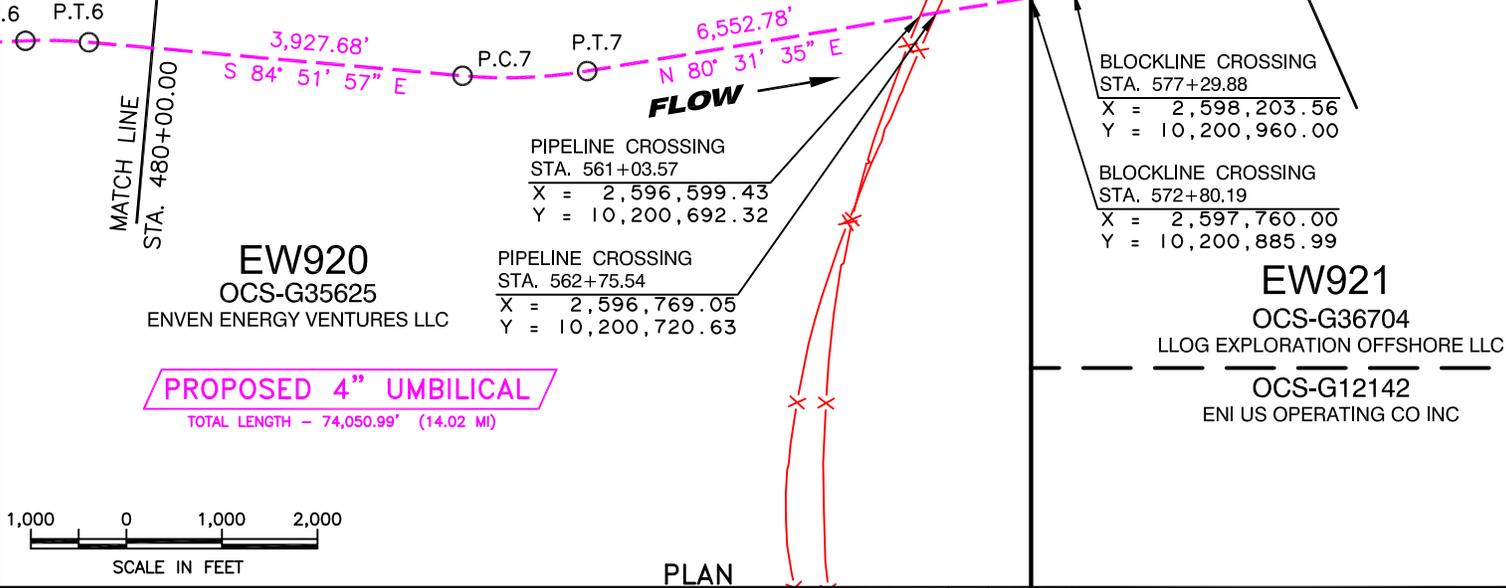
EW877
OCS-G35295
LLOG EXPLORATION OFFSHORE LLC

CURVE 7 DATA	
P. I.	
X =	2,592,464.32
Y =	10,200,002.31
P. C. STA.	512+60.90
X =	2,591,809.44
Y =	10,200,061.15
P. T. STA.	525+68.79
X =	2,593,112.86
Y =	10,200,110.53
R =	5,130.00'
L =	1,307.89'

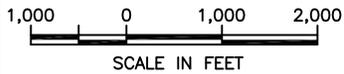
CURVE 8 DATA	
P. I.	
X =	2,600,248.16
Y =	10,201,301.18
P. C. STA.	591+21.57
X =	2,599,576.27
Y =	10,201,189.06
P. T. STA.	604+75.99
X =	2,600,867.50
Y =	10,201,584.75
R =	5,130.00'
L =	1,354.42'



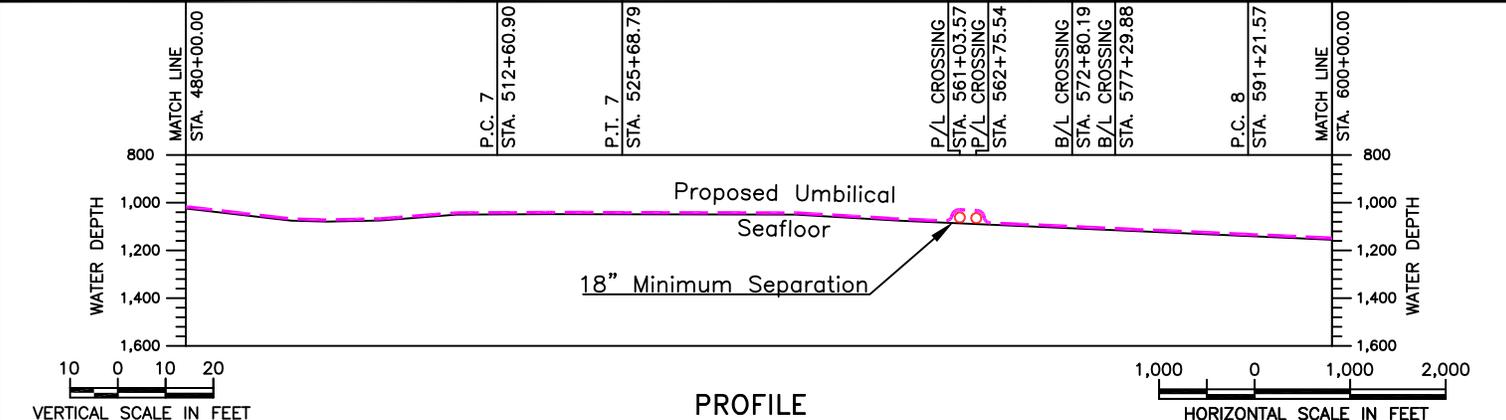
Y = 10,200,960.00



PROPOSED 4" UMBILICAL
TOTAL LENGTH - 74,050.99' (14.02 MI)



PLAN

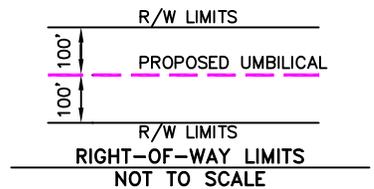


PROFILE

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REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA



LLOG EXPLORATION OFFSHORE, L.L.C.



PROPOSED 4" UMBILICAL ROUTE
BLOCK 873 'A' PLATFORM TO BLOCK 877 UTA
EWING BANK AREA
GULF OF MEXICO

DATUM: NAD 27 PROJECTION: U.T.M.
SPHEROID: CLARKE 1866 ZONE: 15

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

LOUISIANA LAND SURVEYING, INC.
17732 Highland Road • Suite G-126
Baton Rouge • Louisiana • 70810
Phone 753-5263(LAND) • Fax 752-5418

DRAWN BY: MVT DATE: 8/12/2020 JOB No.: 20-027 DRAWING No.: 20-027-PER-UM
REV. No.: REV. DATE: SCALE: AS NOTED SHEET 6 OF 8

CURVE 9 DATA	
P. I.	
X =	2,602,926.41
Y =	10,202,527.42
P. C. STA.	613+51.02
X =	2,601,663.10
Y =	10,201,949.01
P. T. STA.	640+61.48
X =	2,604,307.01
Y =	10,202,371.12
R =	5,000.00'
L =	2,710.46'

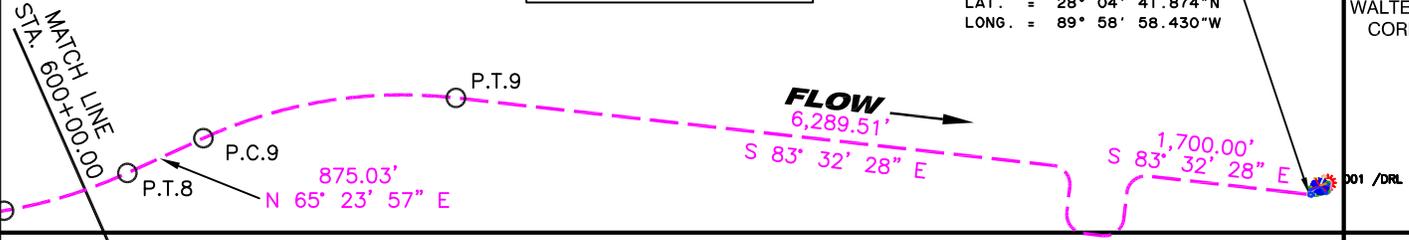
EW877
OCS-G35295
LLOG EXPLORATION OFFSHORE LLC

X = 2,613,600.00



EW878
OCS-G18169
WALTER OIL & GAS CORPORATION

EW877 UTA
STA. 740+50.99
X = 2,613,239.47
Y = 10,201,359.89
LAT. = 28° 04' 41.874"N
LONG. = 89° 58' 58.430"W

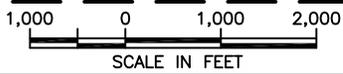


SEE DETAIL SHEET 8

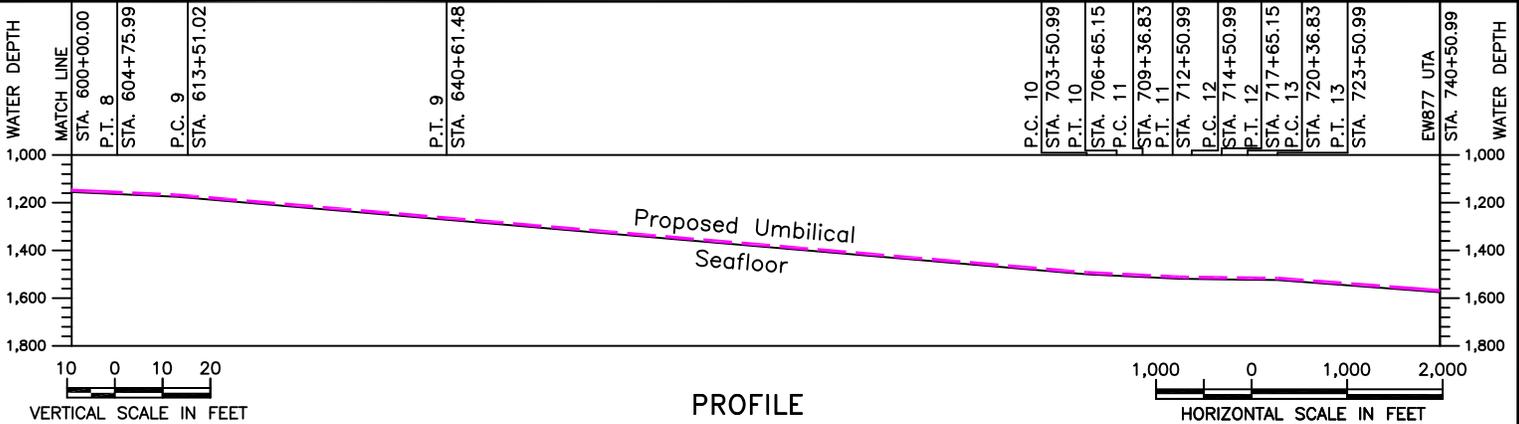
PROPOSED 4" UMBILICAL
TOTAL LENGTH - 74,050.99' (14.02 MI)

EW922
OCS-Open

EW921
OCS-G36704
LLOG EXPLORATION OFFSHORE LLC
OCS-G12142
ENI US OPERATING CO INC

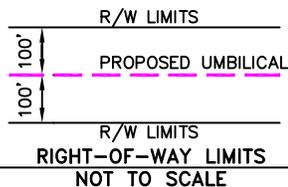


PLAN



PROFILE

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REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA

LLOG EXPLORATION OFFSHORE, L.L.C.



PROPOSED 4" UMBILICAL ROUTE
BLOCK 873 'A' PLATFORM TO BLOCK 877 UTA
EWING BANK AREA
GULF OF MEXICO

DATUM: NAD 27

PROJECTION: U.T.M.

SPHEROID: CLARKE 1866

ZONE: 15

Echo OFFSHORE LLC
36499 Perkins Road
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DRAWN BY: MVT

DATE: 8/12/2020

JOB No.: 20-027

DRAWING No.: 20-027-PER-UM

REV. No.:

REV. DATE:

SCALE: AS NOTED

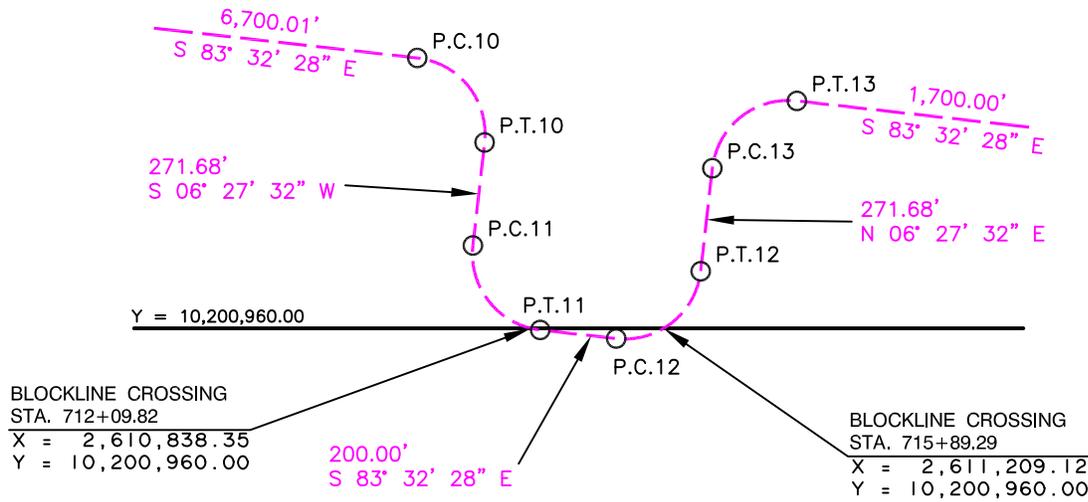
SHEET 7 OF 8

CURVE 10 DATA	
P.I.	
X =	2,610,755.33
Y =	10,201,641.12
P.C. STA.	703+50.99
X =	2,610,556.60
Y =	10,201,663.62
P.T. STA.	706+65.15
X =	2,610,732.84
Y =	10,201,442.39
R =	200.00'
L =	314.16'

CURVE 11 DATA	
P.I.	
X =	2,610,679.78
Y =	10,200,973.70
P.C. STA.	709+36.83
X =	2,610,702.27
Y =	10,201,172.43
P.T. STA.	712+50.99
X =	2,610,878.51
Y =	10,200,951.20
R =	200.00'
L =	314.16'

CURVE 12 DATA	
P.I.	
X =	2,611,275.97
Y =	10,200,906.21
P.C. STA.	714+50.99
X =	2,611,077.24
Y =	10,200,928.71
P.T. STA.	717+65.15
X =	2,611,298.47
Y =	10,200,104.94
R =	200.00'
L =	314.16'

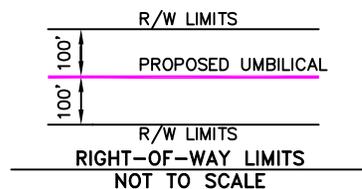
CURVE 13 DATA	
P.I.	
X =	2,611,351.52
Y =	10,201,573.62
P.C. STA.	720+36.83
X =	2,611,329.03
Y =	10,201,374.89
P.T. STA.	723+50.99
X =	2,611,550.26
Y =	10,201,551.13
R =	200.00'
L =	314.16'



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



LLOG EXPLORATION OFFSHORE, L.L.C.



PROPOSED 4" UMBILICAL ROUTE
BLOCK 873 'A' PLATFORM TO BLOCK 877 UTA
EWING BANK AREA
GULF OF MEXICO

DATUM: NAD 27

PROJECTION: U.T.M.

SPHEROID: CLARKE 1866

ZONE: 15

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DRAWN BY: MVT

DATE: 8/12/2020

JOB No.: 20-027

DRAWING No.: 20-027-PER-UM

REV. No.:

REV. DATE:

SCALE: AS NOTED

SHEET 8 OF 8