



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.

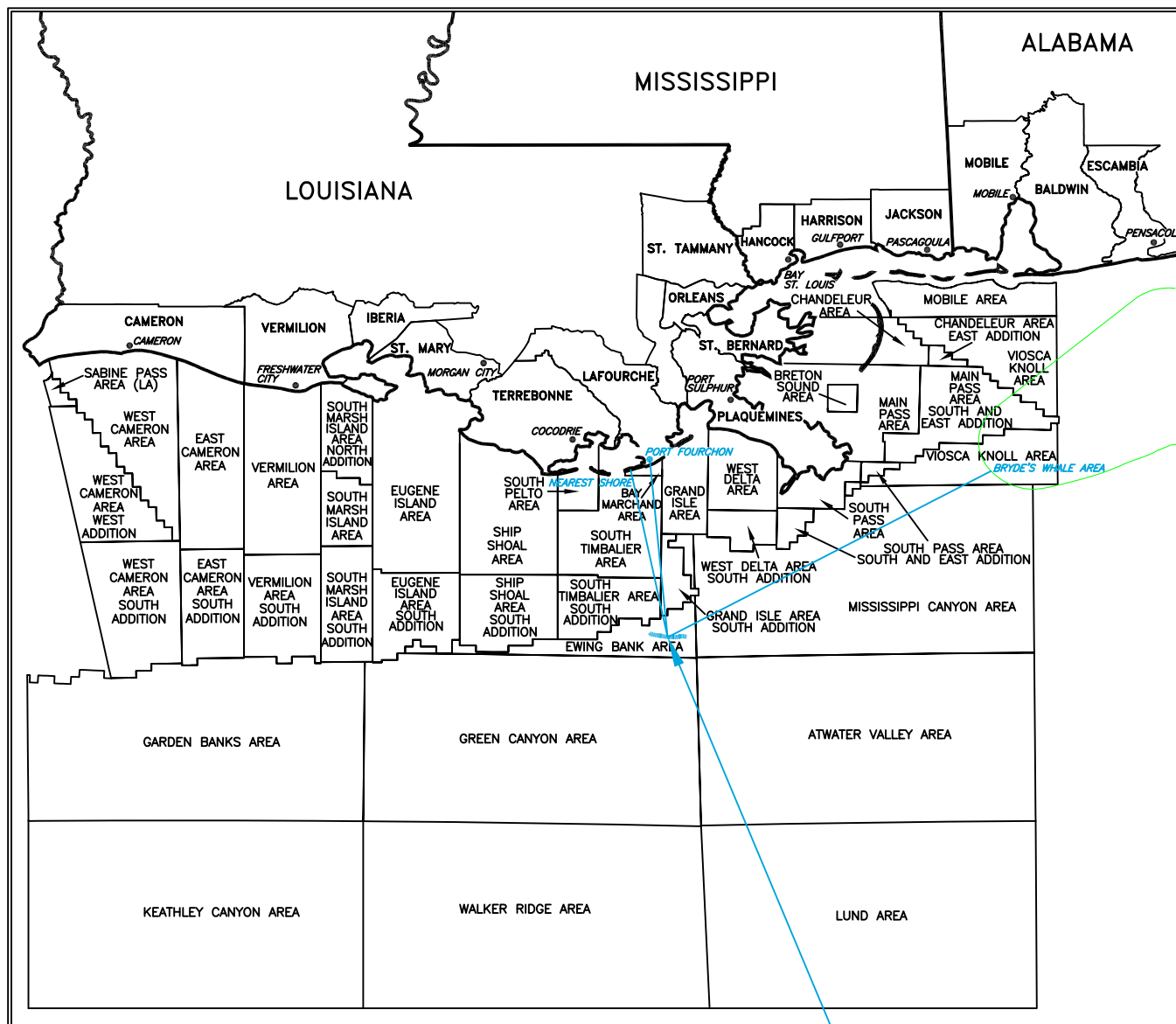
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

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 LAFORCHE 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

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 753-5283(LAND) • Fax 752-5418

DRAWN BY: MVT

DATE: 8/12/2020

JOB No.: 20-027

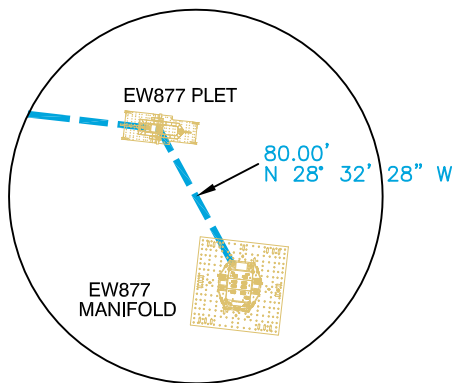
DRAWING No.: 20-027-PER-PL

REV. No.:

REV. DATE:

SCALE: N.T.S.

SHEET 1 OF 7



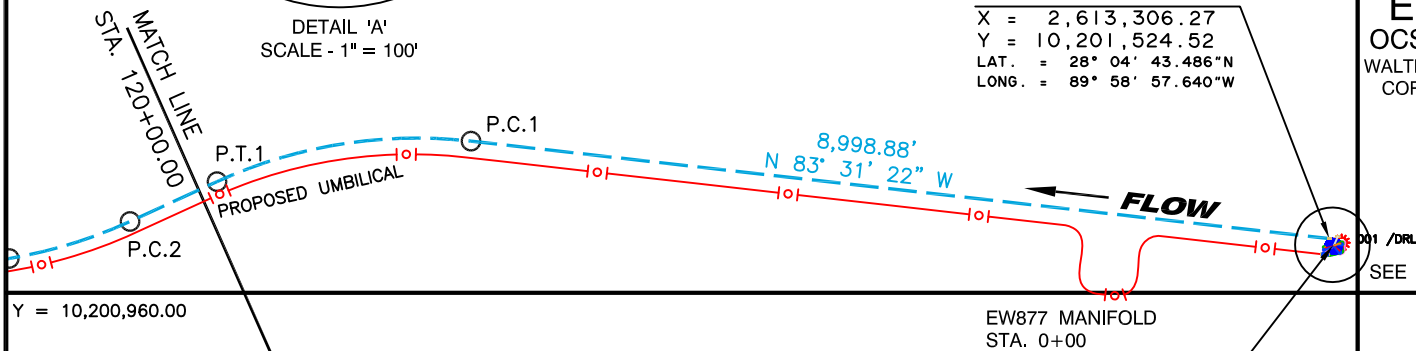
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X =	2,602,983.42
Y =	10,202,696.50
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X =	2,604,364.83
Y =	10,202,539.67
P. T. STA.	117+90.94
X =	2,601,719.33
Y =	10,202,117.74
R =	5,000.00'
L =	2,712.06'

EW877
OCS-G35295
LLOG EXPLORATION OFFSHORE LLC

X = 2,613,600.00



EW878
OCS-G18169
WALTER OIL & GAS CORPORATION



PROPOSED 8" BULK OIL PIPELINE

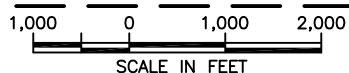
TOTAL LENGTH - 73,063.73' (13.84 MI)

EW877 MANIFOLD
STA. 0+00
X = 2,613,344.49
Y = 10,201,454.24
LAT. = 28° 04' 42.782"N
LONG. = 89° 58' 57.233"W

SEE DETAIL 'A'

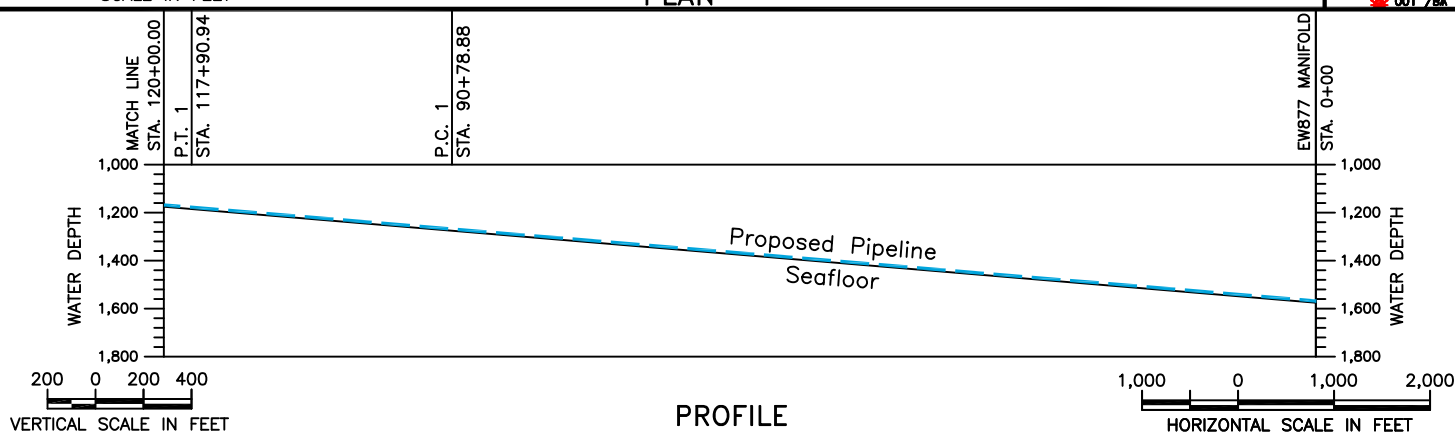
EW922
OCS-Open

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



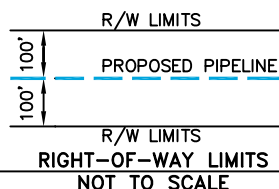
PLAN

001 / BA



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 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

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



**LOUISIANA LAND
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Phone 753-5283(LAND) • Fax 752-5418

DRAWN BY: MVT

DATE: 8/12/2020

JOB No.: 20-027

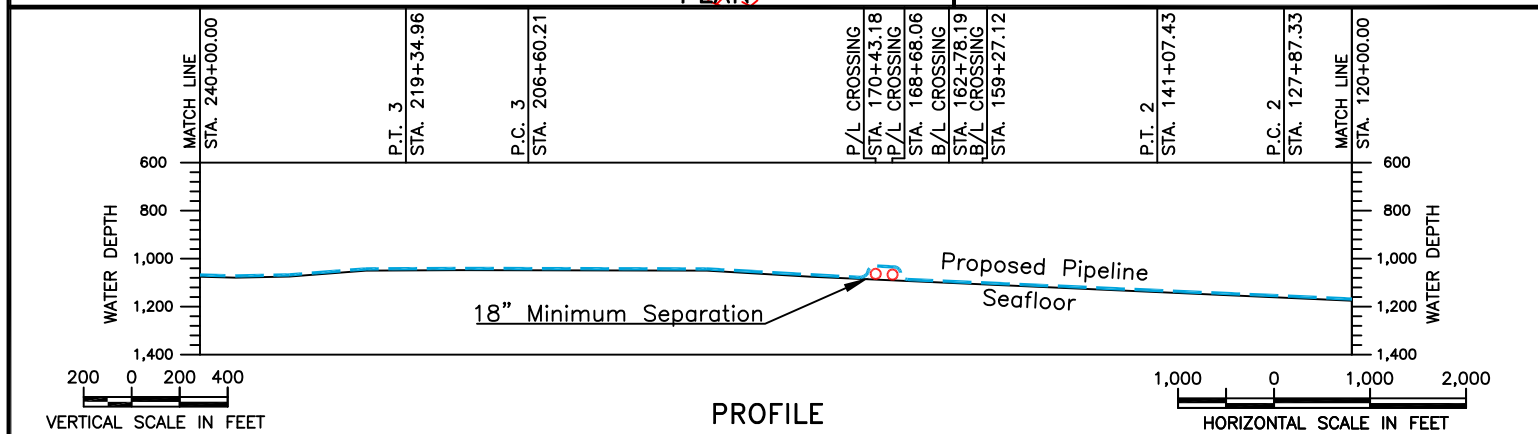
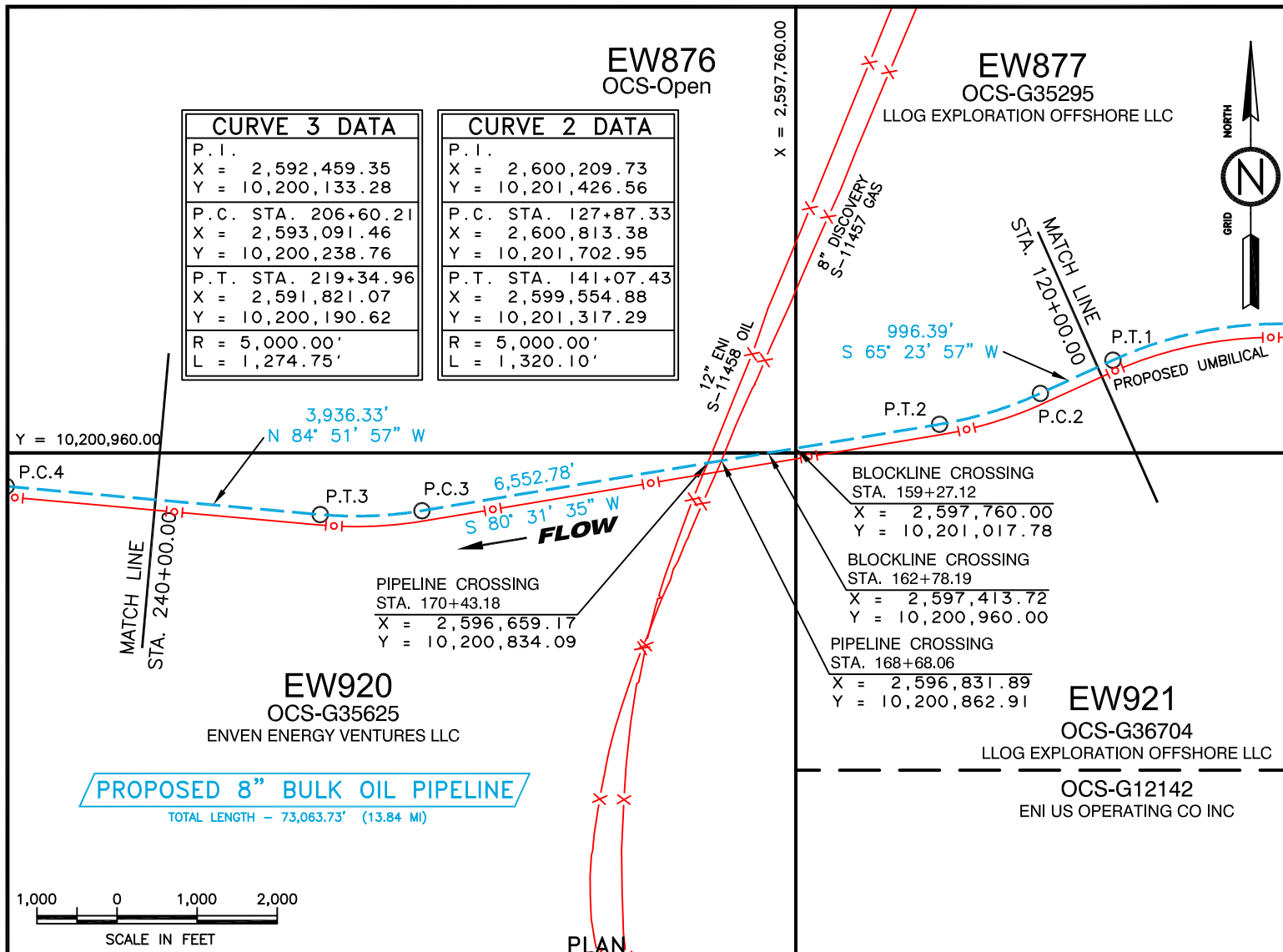
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REV. No.: 1

REV. DATE:

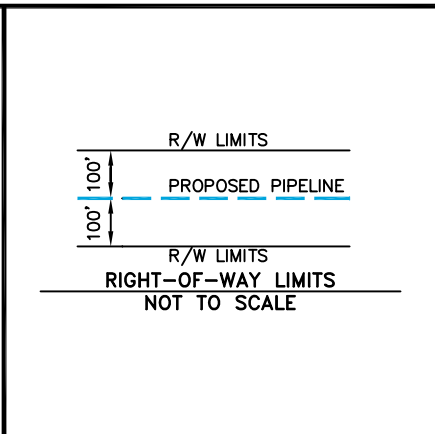
SCALE: AS NOTED

SHEET 2 OF 7



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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	
DATUM: NAD 27	PROJECTION: U.T.M.
SPHEROID: CLARKE 1866	ZONE: 15
<div style="display: flex; justify-content: space-between;"> <div> Echo OFFSHORE LLC <small>36499 Perkins Road Prairieville, Louisiana 70769 Tel: 225-673-2163</small> </div> <div> LOUISIANA LAND SURVEYING, INC. <small>17732 Highland Road • Suite G-126 Baton Rouge • Louisiana • 70810 Phone 753-5263(LAND) • Fax 752-5418</small> </div> </div>	
DRAWN BY: MVT	DATE: 8/12/2020
REV. No.:	REV. DATE:
JOB No.: 20-027	SCALE: AS NOTED
DRAWING No.: 20-027-PER-PL	SHEET 3 OF 7

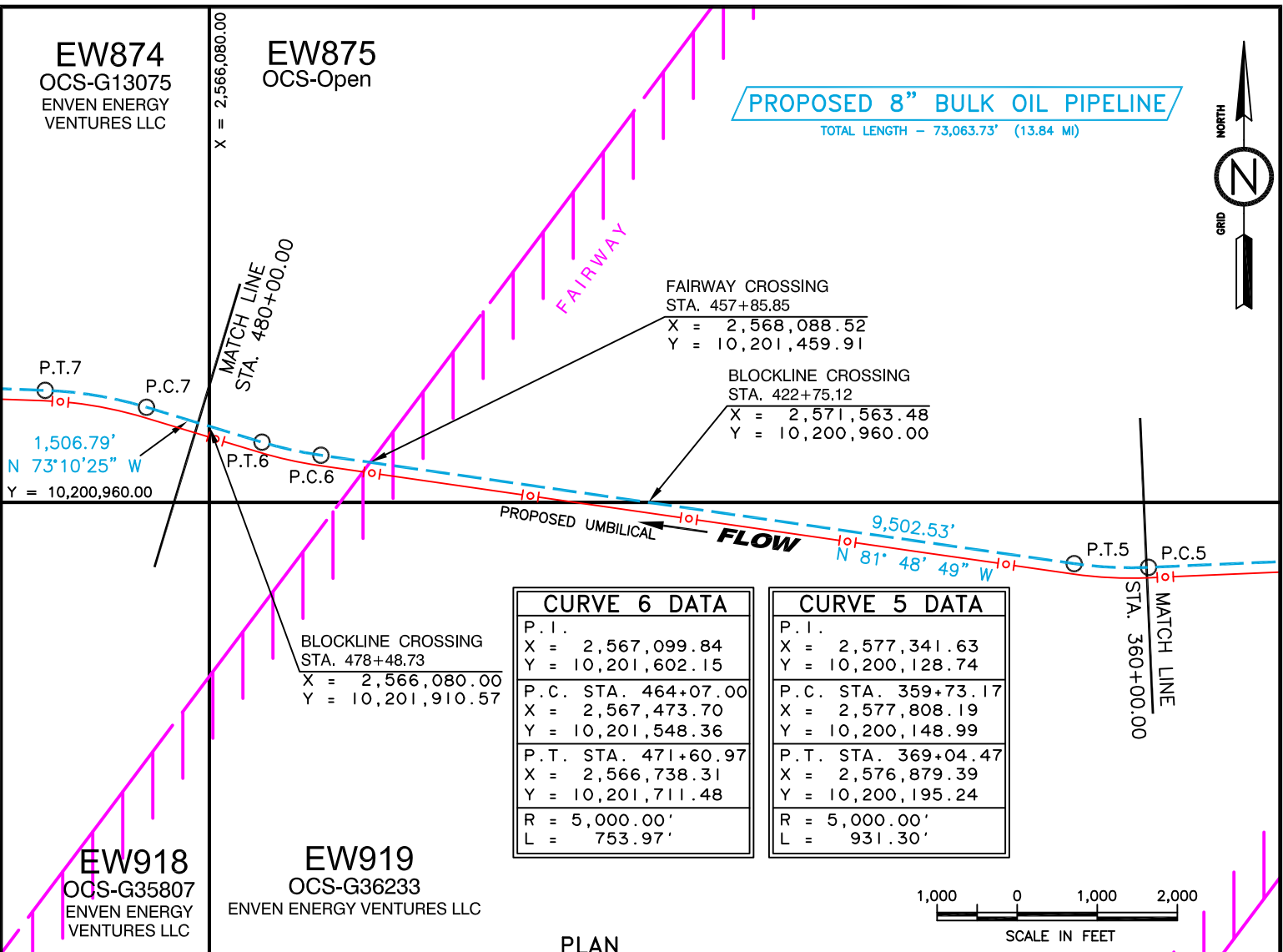
SHEET 4 OF 7

EW874
OCS-G13075
ENVEN ENERGY
VENTURES LLC

EW875
OCS-Open

PROPOSED 8" BULK OIL PIPELINE

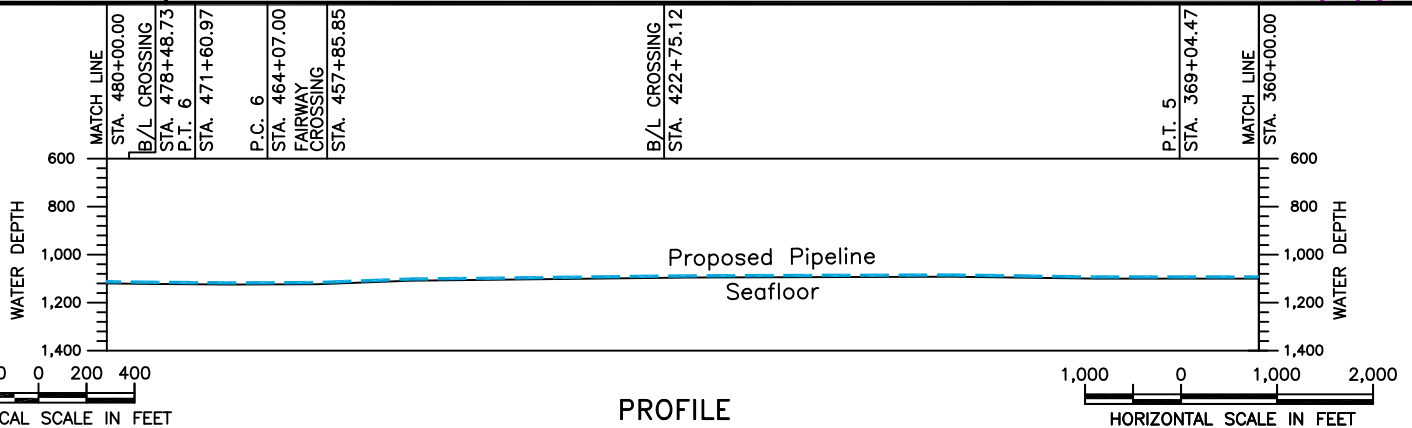
TOTAL LENGTH - 73,063.73' (13.84 MI)



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'	

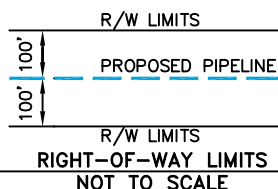
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P.C. STA. 359+73.17	X = 2,577,808.19 Y = 10,200,148.99
P.T. STA. 369+04.47	X = 2,576,879.39 Y = 10,200,195.24
R = 5,000.00'	
L = 931.30'	

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 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

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



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Phone 753-5283(LAND) • Fax 752-5418

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DATE: 8/12/2020

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DRAWING No.: 20-027-PER-PL

REV. No.:

REV. DATE:

SCALE: AS NOTED

SHEET 5 OF 7

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



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

X = 2,542,814.70

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.

X = 2,544,606.31

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

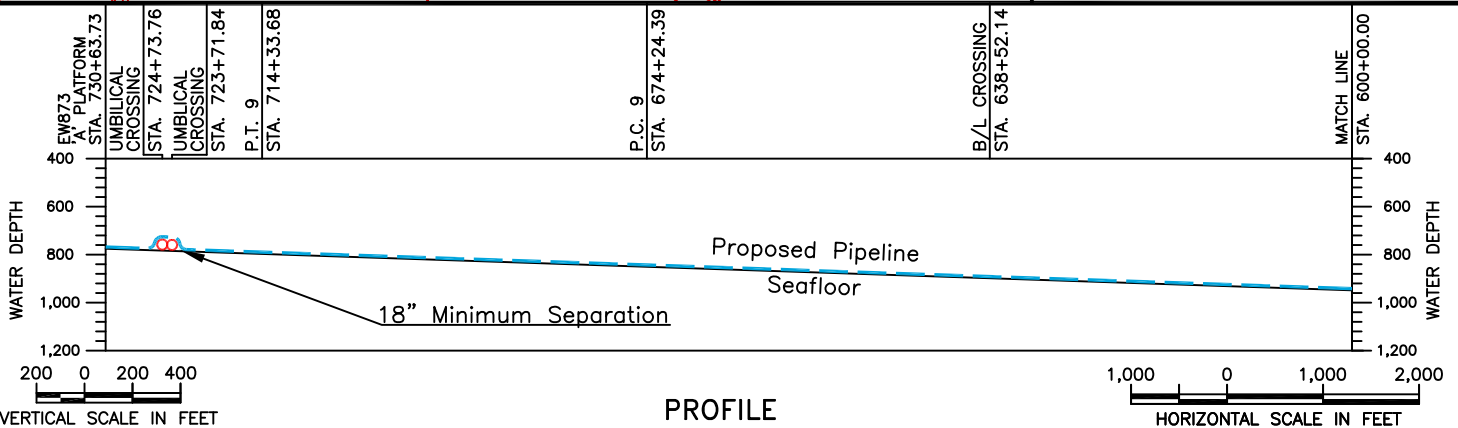
R = 5,000.00'

L = 4,009.29'

1,000 0 1,000 2,000

SCALE IN FEET

PLAN



PROFILE

HORIZONTAL SCALE IN FEET

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



R/W LIMITS

PROPOSED PIPELINE

R/W LIMITS

RIGHT-OF-WAY LIMITS

NOT TO SCALE

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

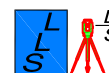
PROJECTION: U.T.M.

SPHEROID: CLARKE 1866

ZONE: 15

Echo
OFFSHORE LLC

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



**LOUISIANA LAND
SURVEYING, INC.**
17732 Highland Road • Suite G-12
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.:

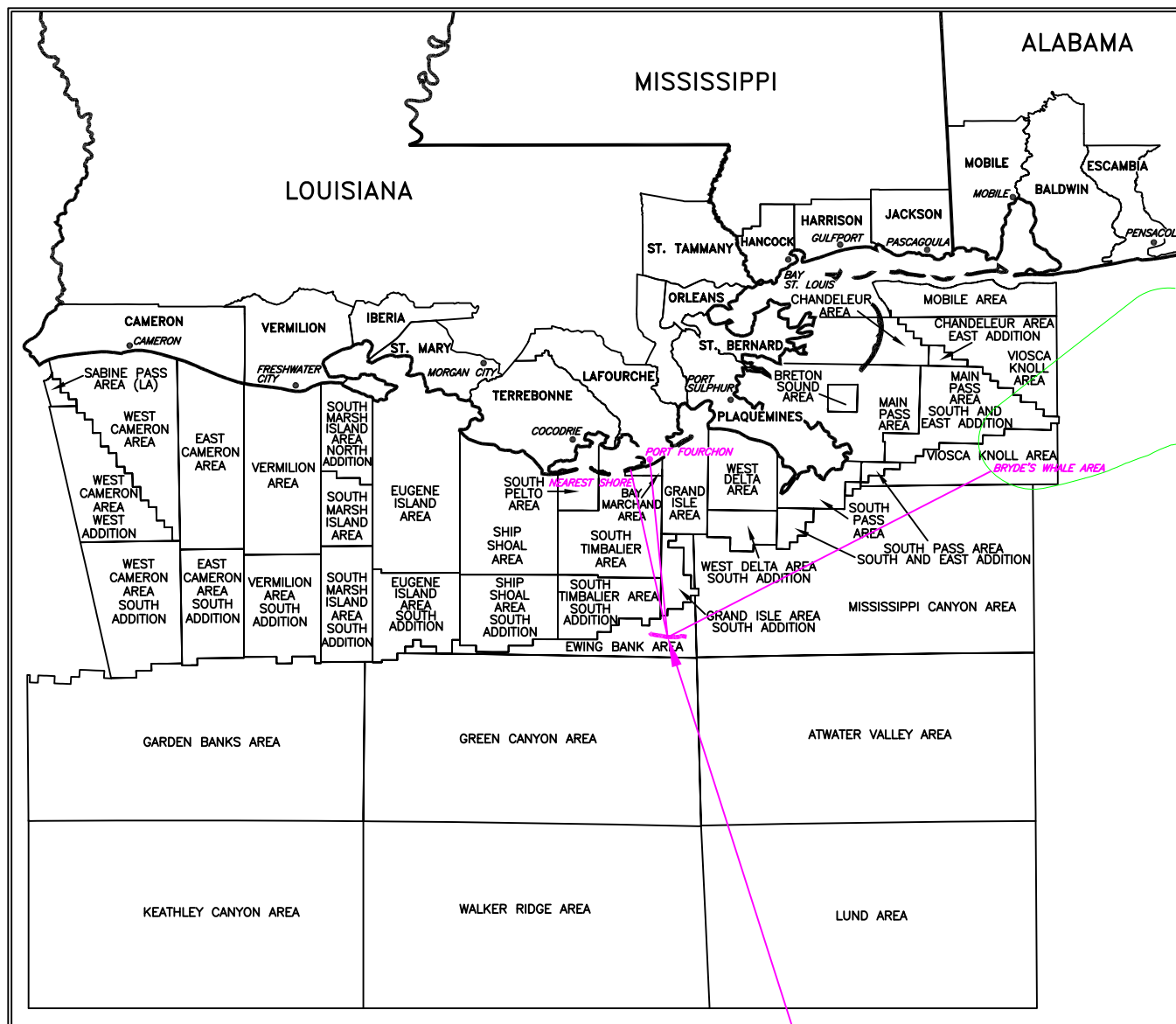
REV. DATE:

SCALE: AS NOTED

SHEET 7 OF 7

REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA

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



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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: 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



EW873 'A' PLATFORM
STA. 0+00

X = 2,542,416.01
Y = 10,207,800.84
LAT. = 28° 06' 02.350"N
LONG. = 90° 12' 06.720"W

1,000.00'
S 28° 29' 22" E

UMBILICAL CROSSING
STA. 26+04.07

X = 2,543,869.29
Y = 10,205,657.85

BLOCKLINE CROSSING
STA. 93+55.58

X = 2,550,240.00
Y = 10,203,830.68

P.T. 1

13,779.06'
S 81° 48' 49" E
FLOW

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'

MATCH LINE
STA. 120+00.00

1,000 0 1,000 2,000
SCALE IN FEET

PLAN

EW873 'A' PLATFORM
STA. 0+00

P.C. 1
STA. 10+00.00

UMBILICAL
CROSSING
STA. 26+04.07

P.T. 1
STA. 56+53.41

B/L CROSSING
STA. 93+55.58

MATCH LINE
STA. 120+00.00

WATER DEPTH

Proposed Umbilical
Seafloor

18" Minimum Separation

WATER DEPTH

200 0 200 400
VERTICAL SCALE IN FEET

PROFILE

1,000 0 1,000 2,000
HORIZONTAL SCALE IN FEET

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REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA

R/W LIMITS

100'
PROPOSED UMBILICAL
100'

R/W LIMITS

RIGHT-OF-WAY LIMITS
NOT TO SCALE

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
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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 2 OF 8



PROPOSED 4" UMBILICAL

TOTAL LENGTH - 74,050.99' (14.02 MI)

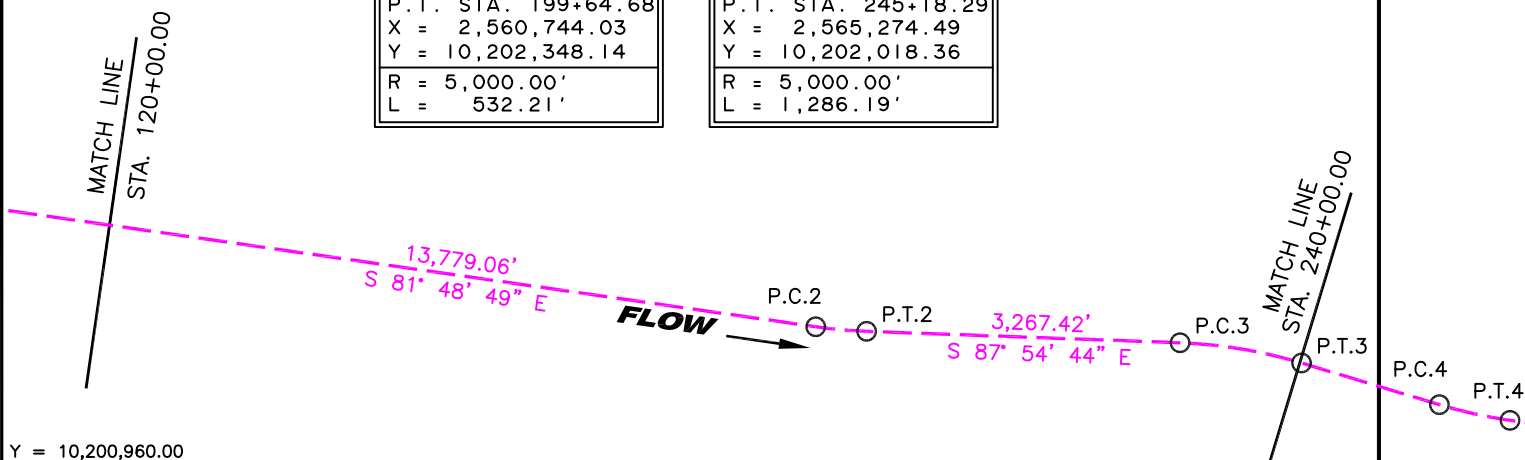
EW874
OCS-G13075
ENVEN ENERGY VENTURES LLC

EW875
OCS-Open

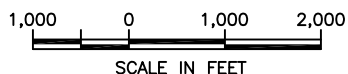
X = 2,566,080.00

CURVE 2 DATA	
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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.	
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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'



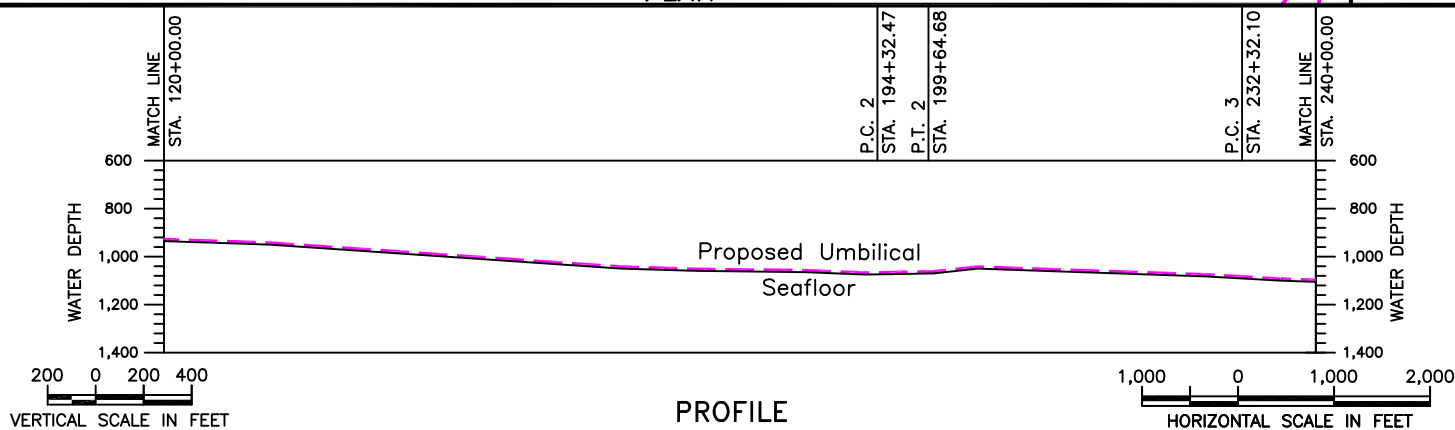
Y = 10,200,960.00



PLAN

EW918
OCS-G35807
ENVEN ENERGY VENTURES LLC

EW919
OCS-G36233
ENVEN ENERGY VENTURES LLC



THIS IS TO CERTIFY THAT THIS PLAT WAS PREPARED
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THE BEST OF MY KNOWLEDGE.



R/W LIMITS
100'
PROPOSED UMBILICAL
100'
R/W LIMITS
RIGHT-OF-WAY LIMITS
NOT TO SCALE

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

Echo
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JOB No.: 20-027

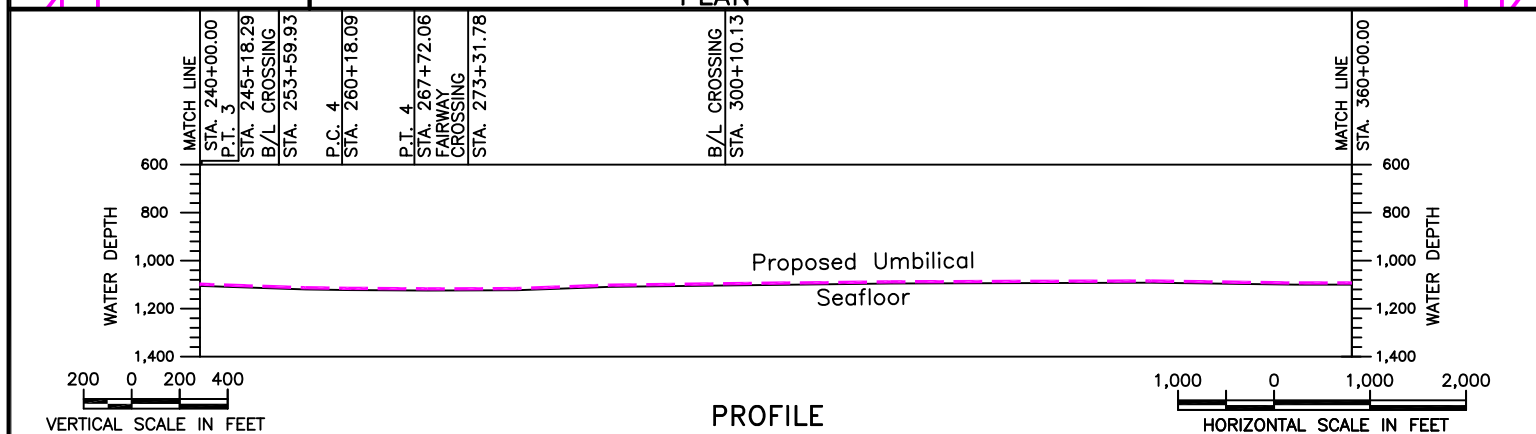
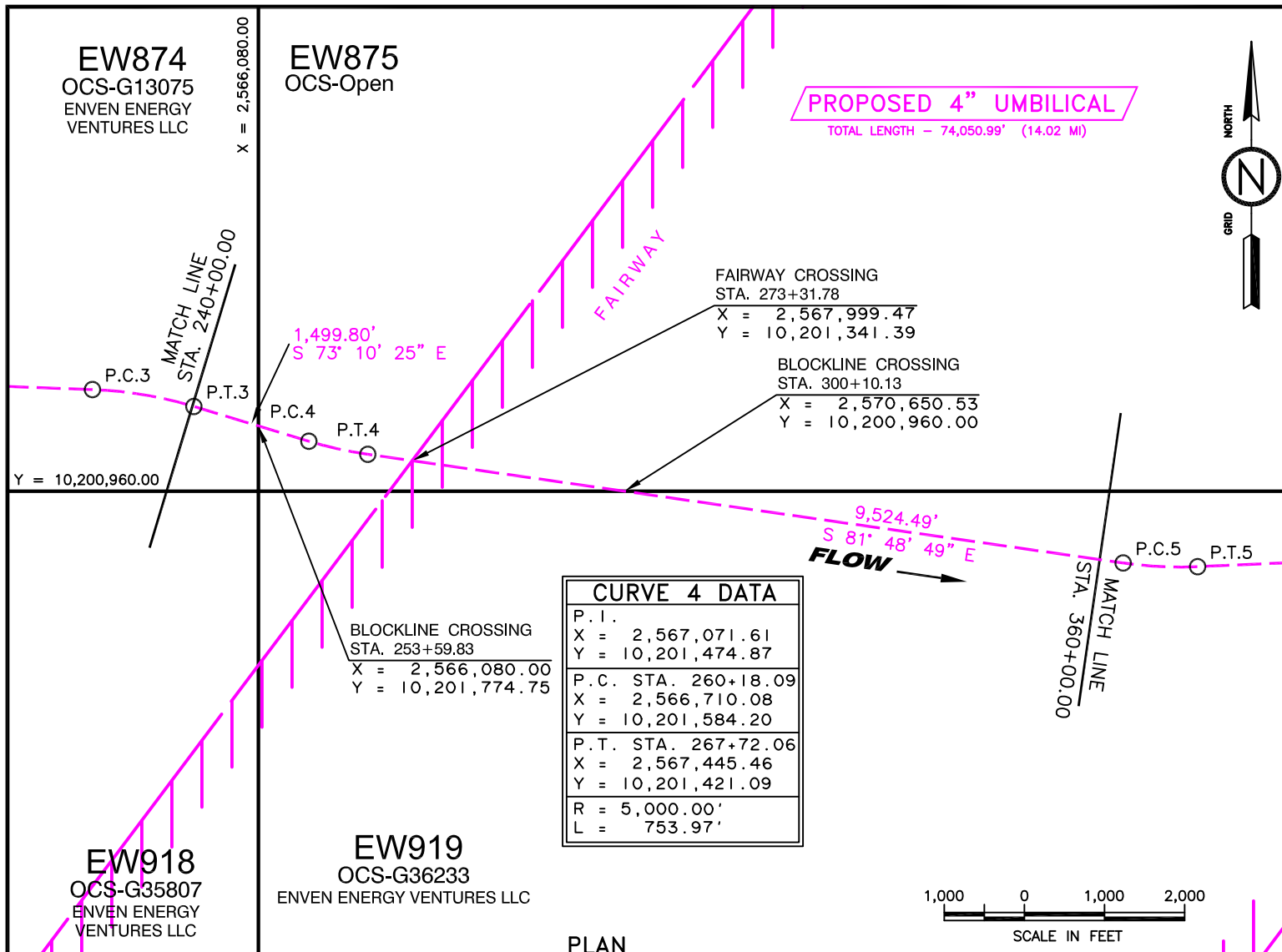
DRAWING No.: 20-027-PER-UM

REV. No.:

REV. DATE:

SCALE: AS NOTED

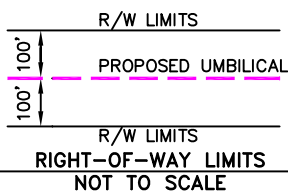
SHEET 3 OF 8



THIS IS TO CERTIFY THAT THIS PLAT WAS PREPARED
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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 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

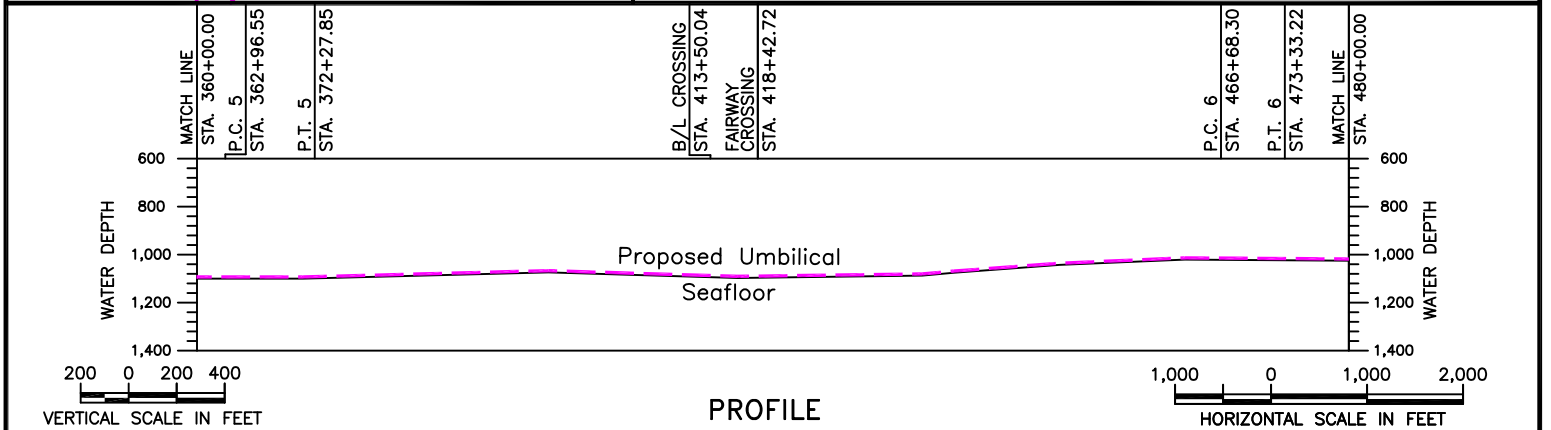
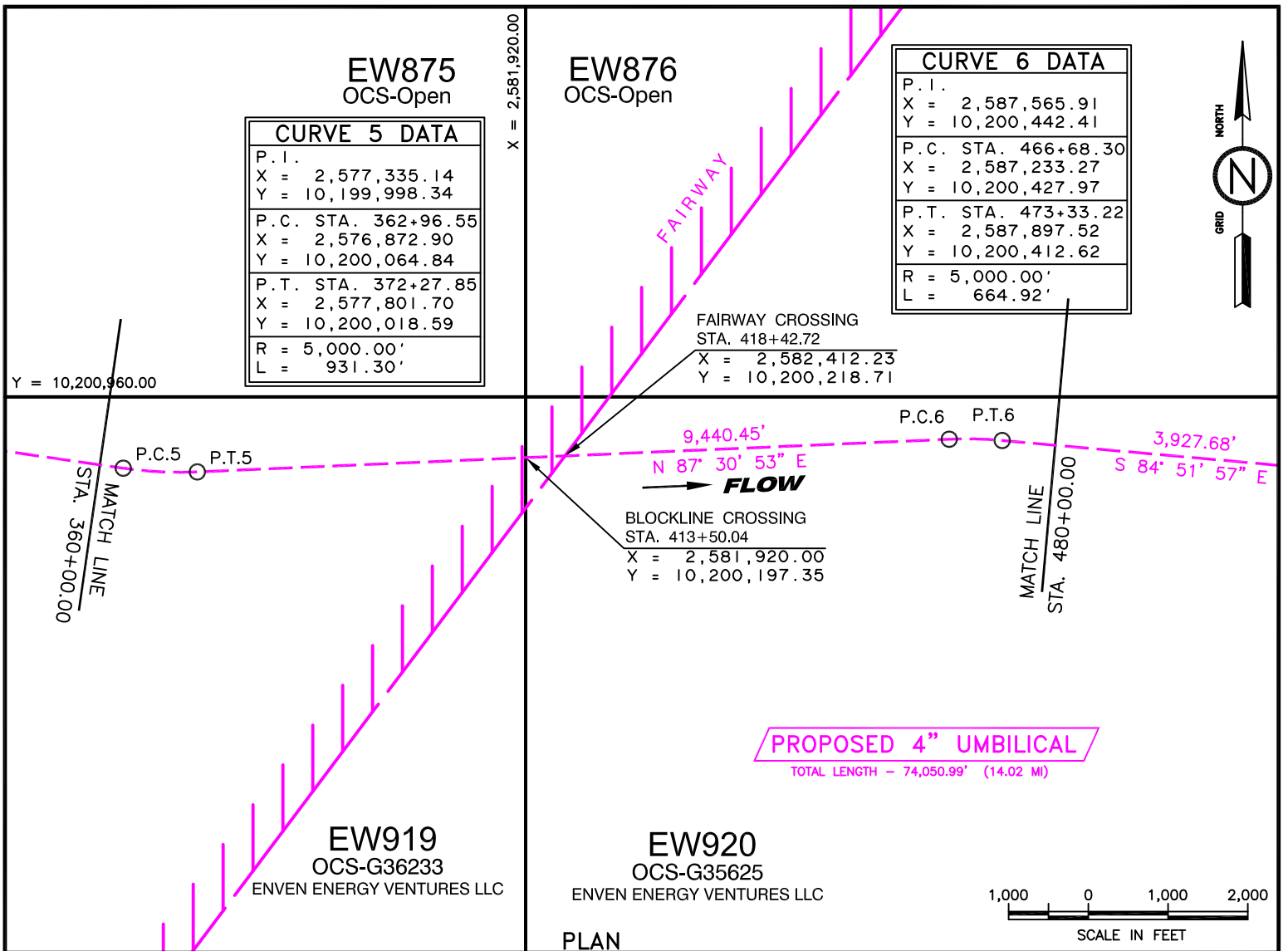
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REV. DATE:

SCALE: AS NOTED

SHEET 4 OF 8



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STATE OF LOUISIANA

CURTIS M. CHANEY
REG. NO. 4829
REGISTERED
PROFESSIONAL
LAND SURVEYOR

REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA

R/W LIMITS

100'

PROPOSED UMBILICAL

100'

R/W LIMITS

RIGHT-OF-WAY LIMITS
NOT TO SCALE

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

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DATUM: NAD 27

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ZONE: 16

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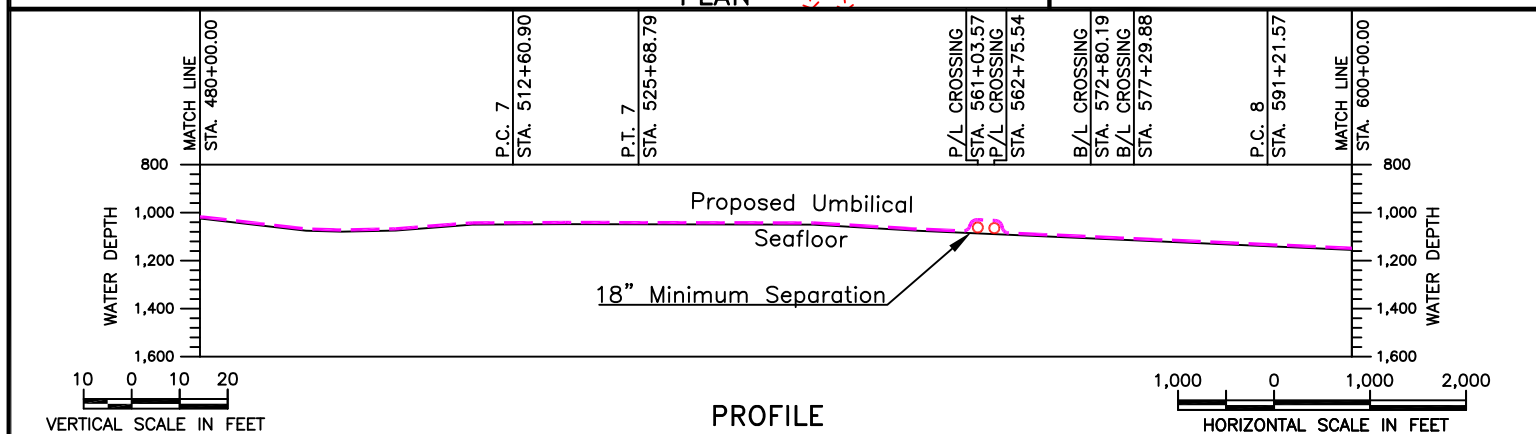
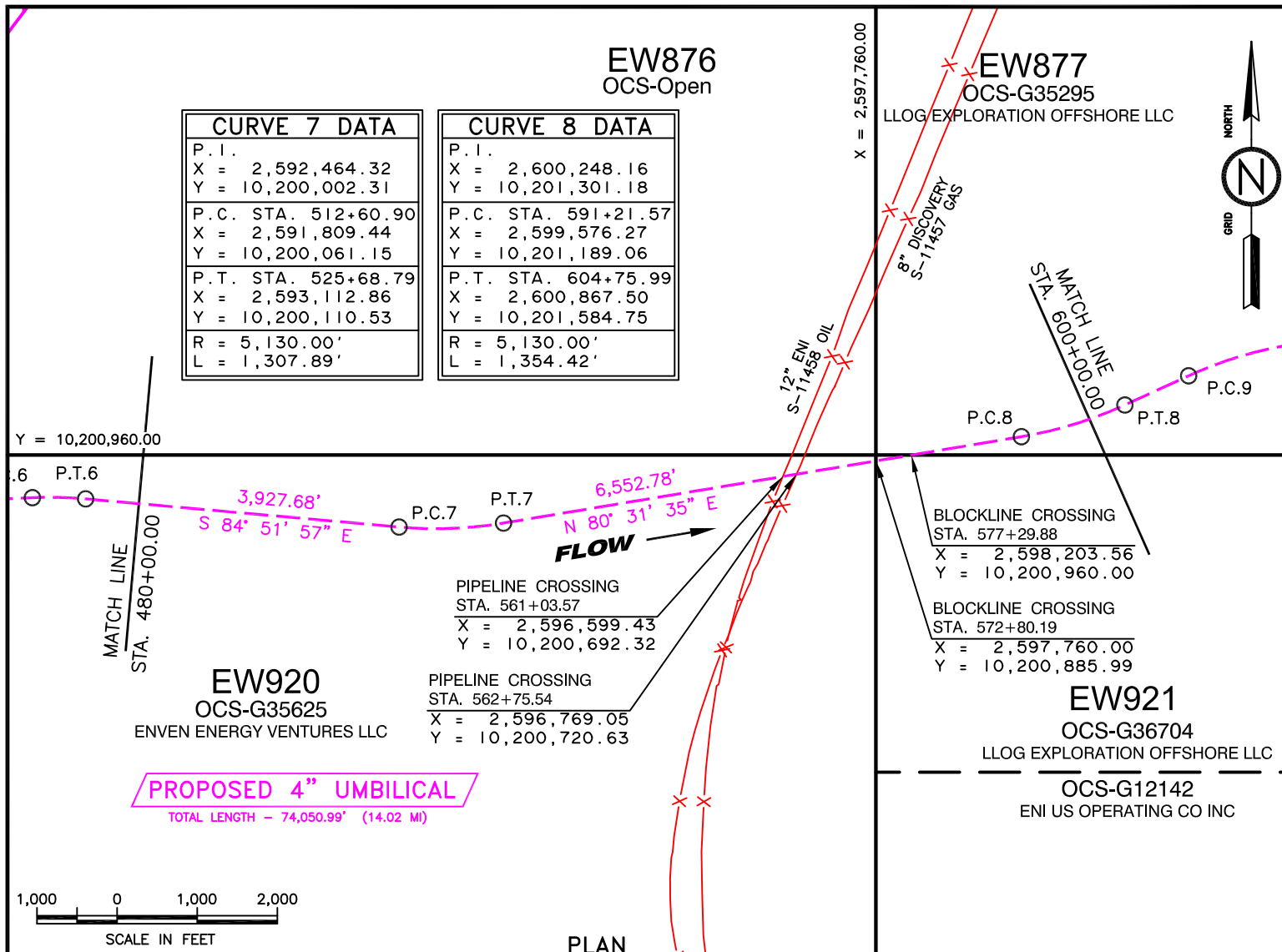
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REV. DATE:

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SHEET 5 OF 8



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REG. PROFESSIONAL LAND SURVEYOR NO. 4829
STATE OF LOUISIANA

R/W LIMITS

100'

PROPOSED UMBILICAL

100'

R/W LIMITS

RIGHT-OF-WAY LIMITS
NOT TO SCALE

LLOG EXPLORATION OFFSHORE, L.L.C.



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GULF OF MEXICO

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SPHEROID: CLARKE 1866

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DRAWING No.: 20-027-PER-UM

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REV. DATE:

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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'

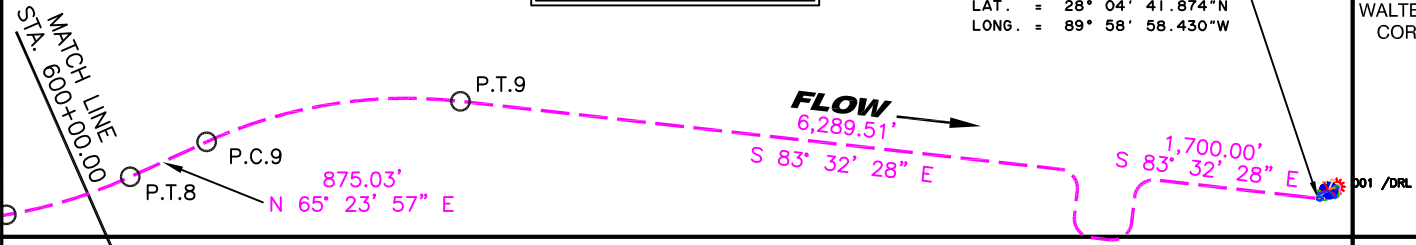
EW877
OCS-G35295
LLOG EXPLORATION OFFSHORE LLC

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

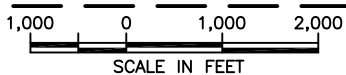
EW921

OCS-G36704

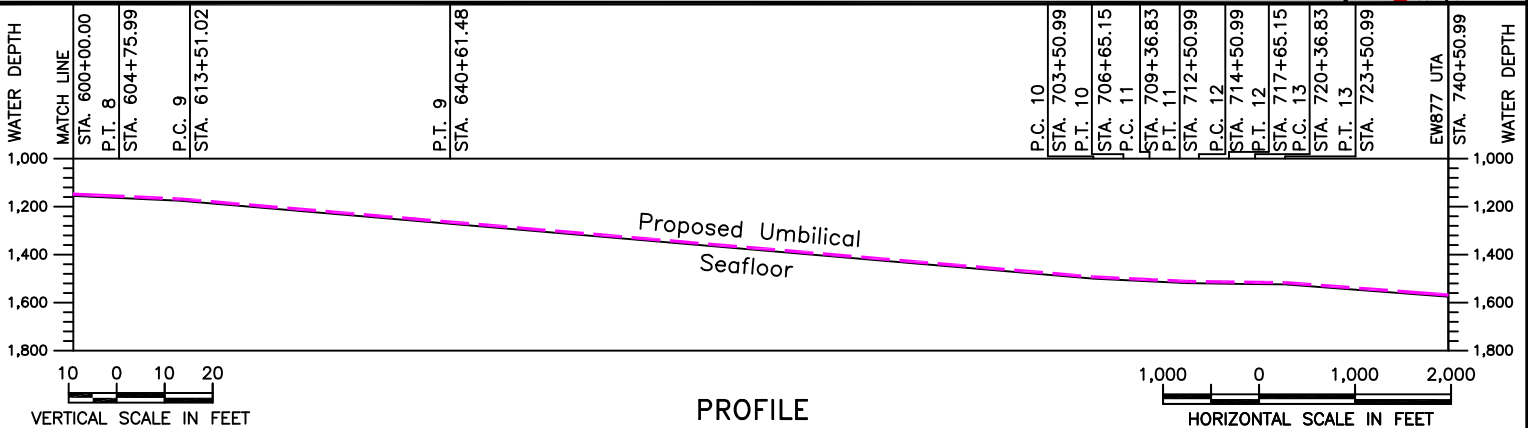
LLOG EXPLORATION OFFSHORE LLC

OCS-G12142

ENI US OPERATING CO INC



PLAN

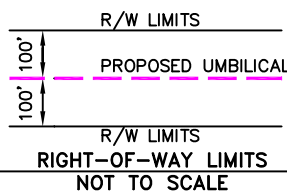


PROFILE

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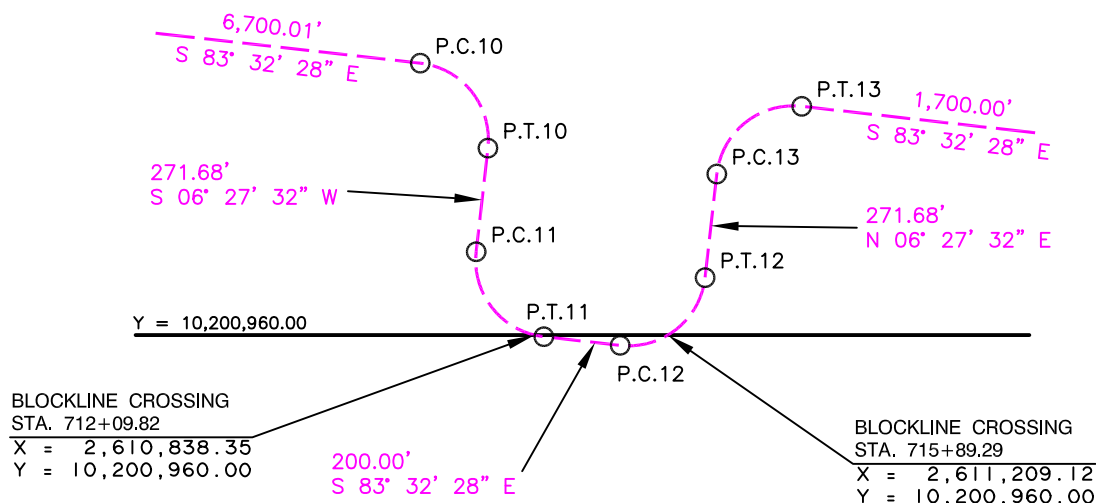
SHEET 7 OF 8

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'

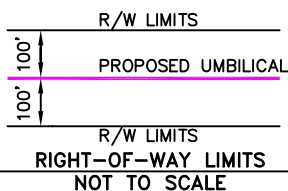
CURVE 13 DATA	
P.I.	
X =	2,611,351.52
Y =	10,201,573.62
P.C. STA.	720+36.83
X =	2,611,329.03
Y =	10,201,374.89
P.T. STA.	723+50.99
X =	2,611,550.26
Y =	10,201,551.13
R =	200.00'
L =	314.16'



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SHEET 8 OF 8