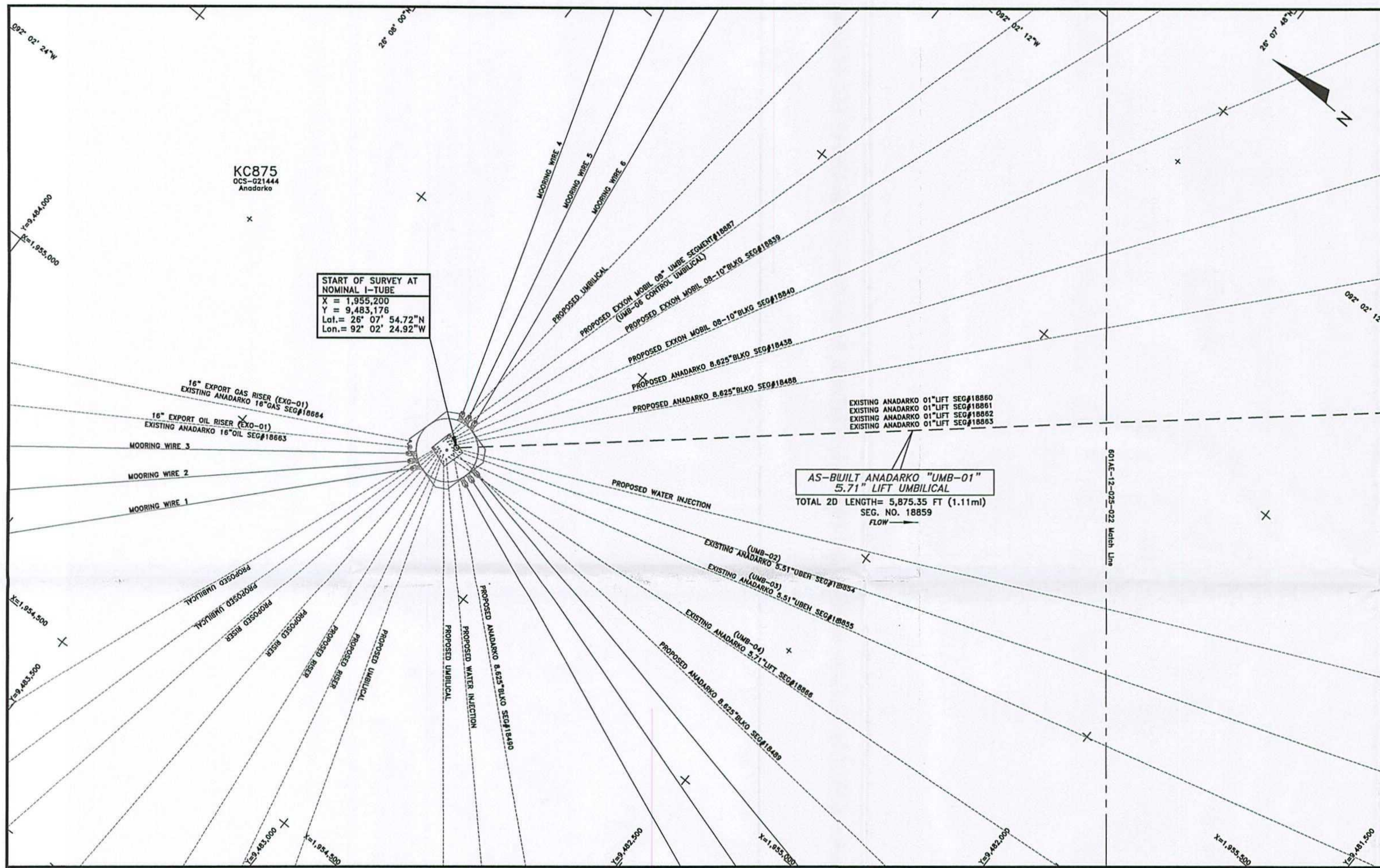


PLAN VIEW



START OF SURVEY AT  
NOMINAL I-TUBE  
X = 1,955,200  
Y = 9,483,176  
Lat. = 26° 07' 54.72"N  
Lon. = 92° 02' 24.92"W

AS-BUILT ANADARKO "UMB-01"  
5.71" LIFT UMBILICAL  
TOTAL 2D LENGTH= 5,875.35 FT (1.11mi)  
SEG. NO. 18859  
FLOW →

- ### NOTES
- 1) UMBILICAL COORDINATES ARE THE POSITIONS OF THE R.O.V. (REMOTELY OPERATED VEHICLE) LOCATED AT THE POINTS USING VERIPOS LD2 ULTRA DGPS RECEIVING SPOTBEAM CORRECTIONS, VERIPOS STANDARD DGPS RECEIVING INMARSAT CORRECTIONS POSITIONING AND SONARDYNE FUSION LBL (LONG BASELINE) ACOUSTIC POSITIONING.
  - 2) SURVEYED COORDINATES TRANSFORMED FROM NAD83 (GPS DATUM) NADCON VERSION 2.1.
  - 3) THIS DRAWING IS NOT FOR NAVIGATION. PIPELINES AND FEATURES IN THE IMMEDIATE VICINITY ARE OBTAINED FROM BOEM (BUREAU OF OCEAN ENERGY MANAGEMENT) & BSEE (BUREAU OF SAFETY AND ENVIRONMENTAL ENFORCEMENT) DATABASE AND CLIENT PROVIDED DATA.
  - 4) AS-BUILT SURVEY DATE: JANUARY 30 & FEBRUARY 18, 2014

- ### LEGEND
- AS-BUILT ANADARKO 5.71" UMBILICAL (UMB-01) SEG#18859
  - CATHERARY
  - EXISTING PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
  - PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
  - UTEC AS-LAID FLYING LEADS
  - MOORING WIRES
  - KC875
  - LEASE BLOCK BOUNDARIES
  - PROPOSED STRUCTURES
  - EXISTING STRUCTURES
  - UTEC AS-FOUND/AS-BUILT STRUCTURES
  - GEOGRAPHICAL TICKS
  - UTM TICKS
  - WELLS

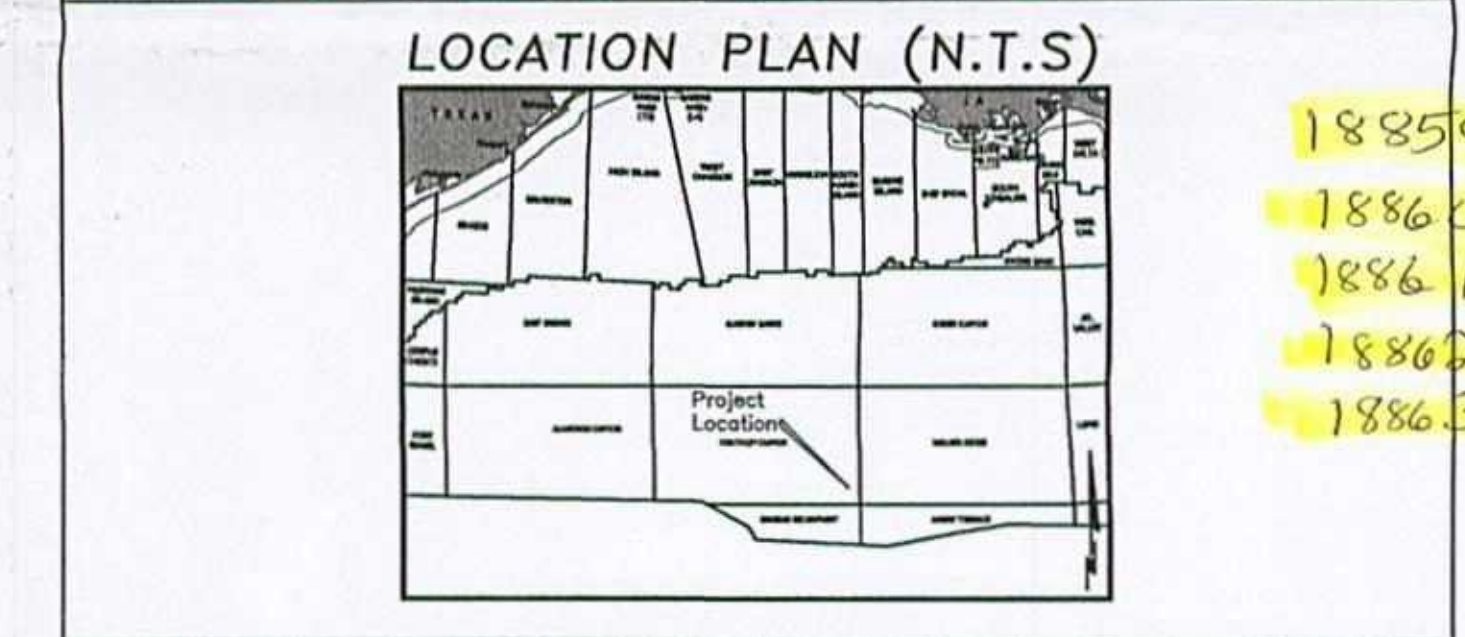
### GEODESY

Survey Datum: NAD 27  
Ellipsoid: Clarke 1866  
Projection: Universal Transverse Mercator ZONE 15N  
Longitude of Central Meridian: 93°W  
False Easting (m): 500 000  
False Northing (m): 0  
Scale Factor at Central Meridian: 0.99960  
Units: US Survey Feet

CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.

Nathan Eby, R.P.L.S.  
TEXAS REG #6198

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AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-01) SEGMENT#18859

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
1	1,955,200	9,483,176	NOMINAL I-TUBE

**Anadarko**  
Petroleum Corporation

**UTEC**  
7240 BRITTMORE RD. SUITE 110  
HOUSTON, TEXAS 77041  
Tel 713-984-8688  
Fax 713-984-8683  
Website www.utecsurgery.com

LUCIUS DEVELOPMENT PROJECT  
AS-BUILT ANADARKO 5.71" UMBILICAL (UMB-01)  
SEGMENT #18859  
KEATHLEY CANYON BLOCK 875  
GULF OF MEXICO  
Scale 1" = 100'

Rev. No.	Date	Comment	Interpr.	Checked	Appr.
0	09/08/14	ISSUED AS FINAL	VR	EG	JL
A2	08/14/14	ISSUED FOR CLIENT COMMENTS	VR	EG	JL
A1	07/24/14	ISSUED FOR CLIENT COMMENTS	VR	EG	JL

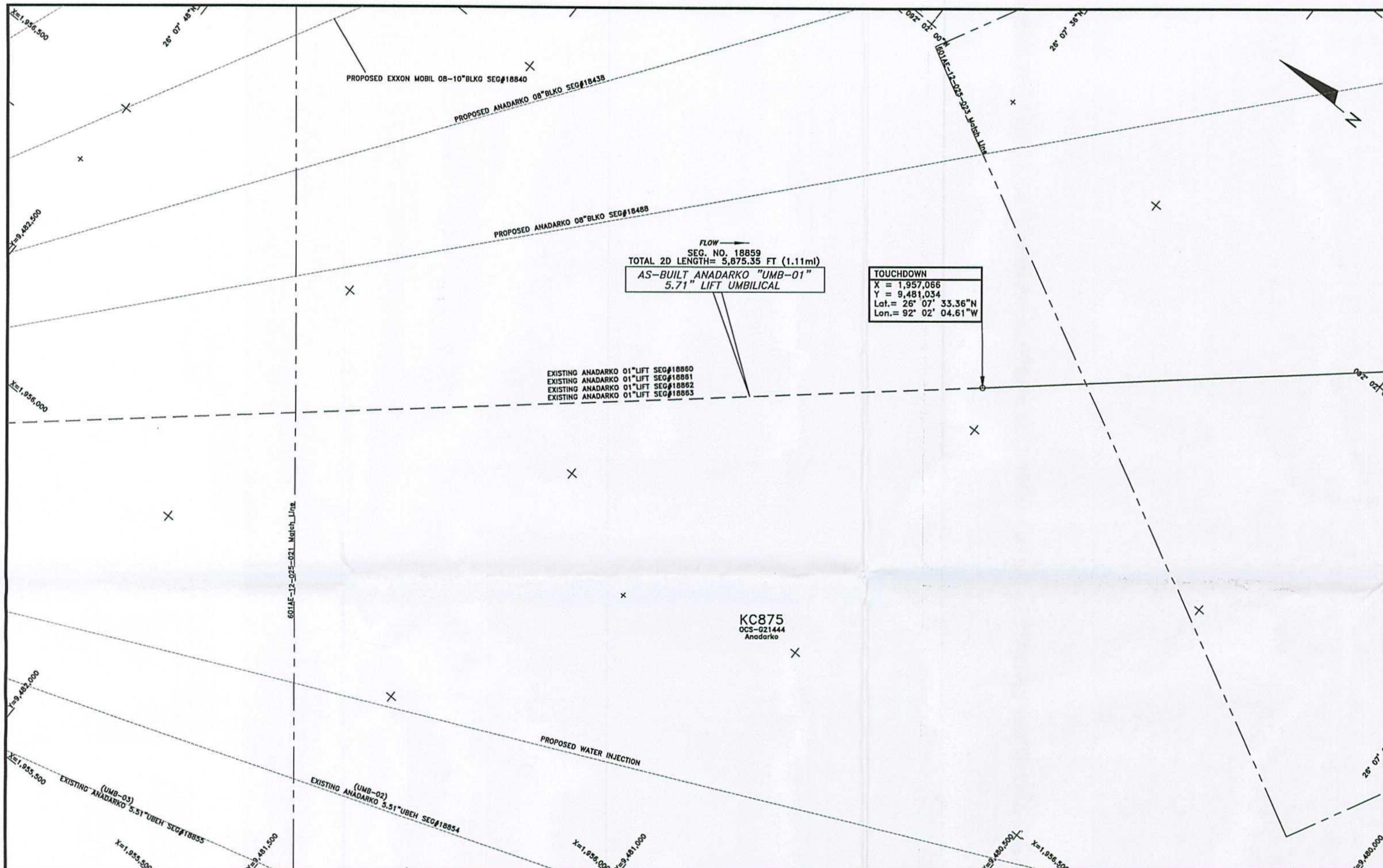
Survey Dates: January 30 & February 18, 19, 2014 | Survey Vessel: GLOBAL ORION

UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025- 021	Sheet 001	Of 003
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Plot Size ANSI D



PLAN VIEW



FLOW →  
 SEG. NO. 18859  
 TOTAL 2D LENGTH= 5,875.35 FT (1.11mi)  
**AS-BUILT ANADARKO "UMB-01"  
 5.71" LIFT UMBILICAL**

**TOUCHDOWN**  
 X = 1,957,066  
 Y = 9,481,034  
 Lat. = 26° 07' 33.36"N  
 Lon. = 92° 02' 04.61"W

EXISTING ANADARKO 01" LIFT SEG#18860  
 EXISTING ANADARKO 01" LIFT SEG#18861  
 EXISTING ANADARKO 01" LIFT SEG#18862  
 EXISTING ANADARKO 01" LIFT SEG#18863

KC875  
 OCS-021444  
 Anadarko

**AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-01) SEGMENT#18859**

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
2	1,957,066	9,481,034	TOUCHDOWN

NOTES

- 1) UMBILICAL COORDINATES ARE THE POSITIONS OF THE R.O.V. (REMOTELY OPERATED VEHICLE) LOCATED AT THE POINTS USING VERIPOS LD2 ULTRA DGPS RECEIVING SPOTBEAM CORRECTIONS, VERIPOS STANDARD DGPS RECEIVING INMARSAT CORRECTIONS POSITIONING AND SONARDYNE FUSION LBL (LONG BASELINE) ACOUSTIC POSITIONING.
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- 4) AS-BUILT SURVEY DATE: JANUARY 30 & FEBRUARY 18, 19, 2014

LEGEND

- AS-BUILT ANADARKO 5.71" UMBILICAL (UMB-01) SEG#18859
- - - CATENARY
- - - EXISTING PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- - - PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- - - UTEC AS-LAID FLYING LEADS
- - - MOORING WIRES
- ▭ LEASE BLOCK BOUNDARIES
- ▭ PROPOSED STRUCTURES
- ▭ EXISTING STRUCTURES
- ▭ UTEC AS-FOUND/AS-BUILT STRUCTURES
- + GEOGRAPHICAL TICKS
- + UTM TICKS
- WELLS

GEODESY

Survey Datum: NAD 27  
 Ellipsoid: Clarke 1866  
 Projection: Universal Transverse Mercator ZONE 15N  
 Longitude of Central Meridian: 93°W  
 False Easting (m): 500 000  
 False Northing (m): 0  
 Scale Factor at Central Meridian: 0.99980  
 Units: US Survey Feet

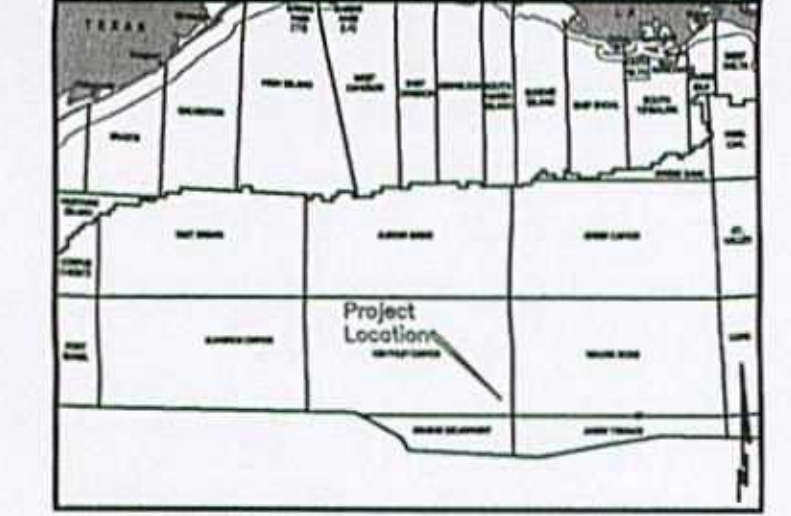
CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.



NATHAN EBY, R.P.L.S.  
 TEXAS REG #6198

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LOCATION PLAN (N.T.S)



**Anadarko**  
 Petroleum Corporation

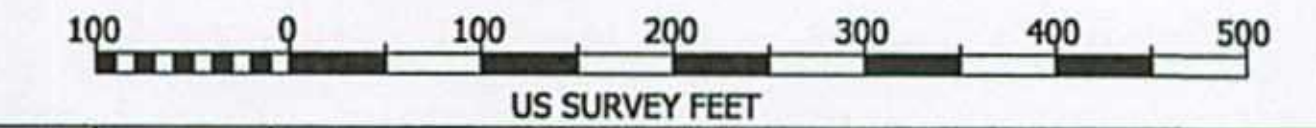
**Technip**  
 TECHNIP USA, Inc.

**UTEC**

7240 BRITTMOORE RD, SUITE 110  
 HOUSTON, TEXAS 77041  
 Tel 713-984-8688  
 Fax 713-984-8683  
 Website www.utecsurgery.com

**LUCIUS DEVELOPMENT PROJECT  
 AS-BUILT ANADARKO 5.71" UMBILICAL (UMB-01)  
 SEGMENT#18859  
 KEATHLEY CANYON BLOCK 875  
 GULF OF MEXICO**

Scale 1" = 100'



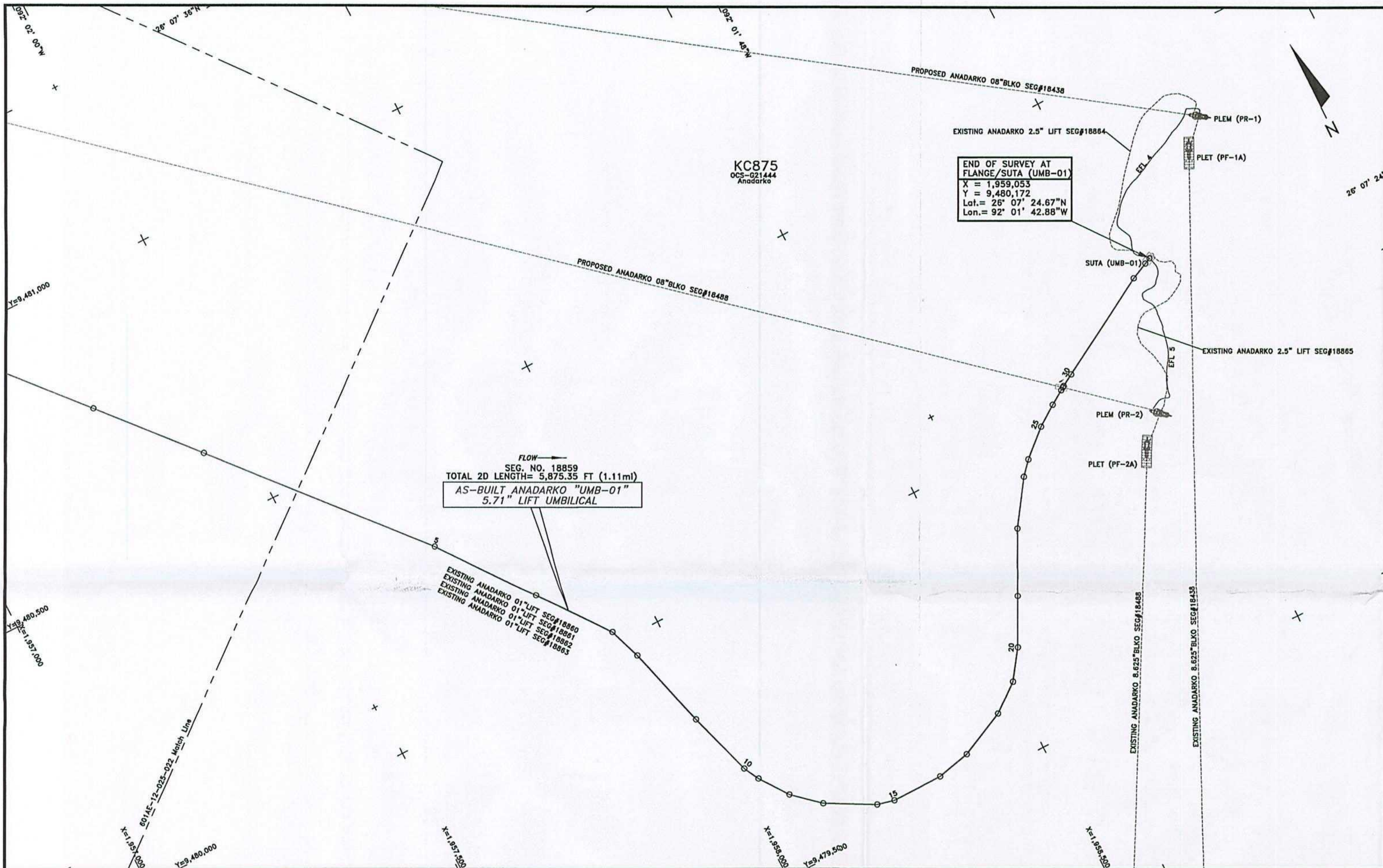
Rev. No.	Date	Comment	Interpr.	Checked	Appr.
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A2	08/14/14	ISSUED FOR CLIENT COMMENTS	VR	EG	JL
A1	07/24/14	ISSUED FOR CLIENT COMMENTS	VR	EG	JL

Survey Dates: January 30 & February 18, 19, 2014 Survey Vessel: GLOBAL ORION

UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025-022	Sheet 002	Of 003
Plot Size ANSI D			



PLAN VIEW



END OF SURVEY AT FLANGE/SUTA (UMB-01)  
 X = 1,959,053  
 Y = 9,480,172  
 Lat. = 26° 07' 24.67"N  
 Lon. = 92° 01' 42.88"W

SEG. NO. 18859  
 TOTAL 2D LENGTH = 5,875.35 FT (1.11mi)  
 AS-BUILT ANADARKO "UMB-01"  
 5.71" LIFT UMBILICAL

AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-01) SEGMENT#18859

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION	POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
3	1,957,290	9,480,779	ROV FIX	28	1,958,815	9,480,042	SPAN TD/ANADARKO 08"BLKO CROSSING SEG#18488
4	1,957,427	9,480,623	START OF MUD ANCHOR SECTION	29	1,958,818	9,480,044	END OF MATTRESS
5	1,957,714	9,480,296	END OF MUD ANCHOR SECTION	30	1,958,838	9,480,055	END OF SPAN
6	1,957,833	9,480,139	ROV FIX	31	1,959,013	9,480,154	START OF BEND RESTRICTOR
7	1,957,922	9,480,020	ROV FIX	32	1,959,042	9,480,167	END OF BEND RESTRICTOR
8	1,957,942	9,479,964	ROV FIX	33	1,959,053	9,480,172	FLANGE/SUTA (UMB-01)
9	1,957,983	9,479,819	ROV FIX	2D LENGTH OF SURVEY POINTS 2 THROUGH 33: 3,034.46' = 0.57 MILES			
10	1,958,019	9,479,705	ROV FIX				
11	1,958,033	9,479,678	ROV FIX				
12	1,958,069	9,479,628	ROV FIX				
13	1,958,115	9,479,588	ROV FIX				
14	1,958,196	9,479,544	ROV FIX				
15	1,958,226	9,479,537	ROV FIX				
16	1,958,317	9,479,537	ROV FIX				
17	1,958,376	9,479,550	ROV FIX				
18	1,958,457	9,479,589	ROV FIX				
19	1,958,504	9,479,625	ROV FIX				
20	1,958,539	9,479,674	ROV FIX				
21	1,958,580	9,479,754	ROV FIX				
22	1,958,634	9,479,861	ROV FIX				
23	1,958,685	9,479,936	ROV FIX				
24	1,958,705	9,479,959	ROV FIX				
25	1,958,751	9,479,999	ROV FIX				
26	1,958,786	9,480,023	START OF SPAN				
27	1,958,810	9,480,039	START OF MATTRESS				

NOTES

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- 4) AS-BUILT SURVEY DATE: JANUARY 30 & FEBRUARY 18, 2014

LEGEND

- AS-BUILT ANADARKO 5.71" UMBILICAL (UMB-01) SEG#18859
- - - CATENARY
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- - - PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
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- + UTM TICKS
- o WELLS

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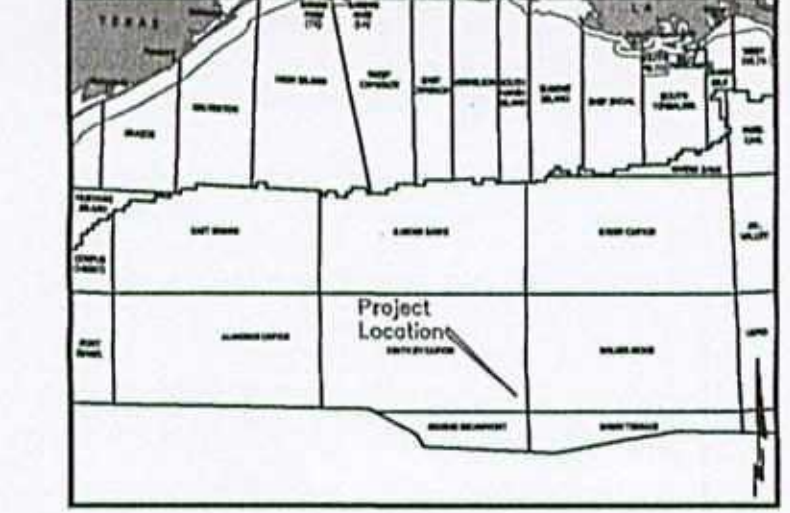
CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.



NATHAN EBY, R.P.L.S.  
 TEXAS REG #6198

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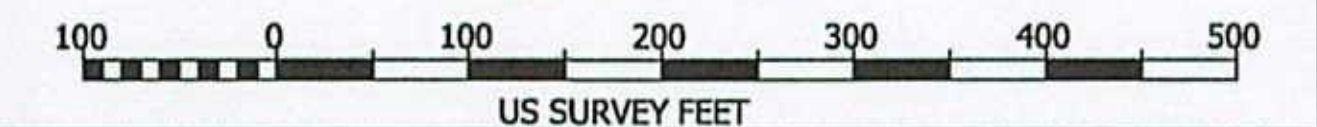
LOCATION PLAN (N.T.S)



7240 BRITTMOORE RD. SUITE 110  
 HOUSTON, TEXAS 77041  
 Tel 713-984-8688  
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LUCIUS DEVELOPMENT PROJECT  
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 SEGMENT#18859  
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 GULF OF MEXICO

Scale 1" = 100'



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Survey Dates: January 30 & February 18, 2014 | Survey Vessel: GLOBAL ORION  
 UTEC Ref. No. 601AE-12-025 | UTEC Drawing No. 601AE-12-025-023 | Sheet 033 of 003  
 Plot Size ANSI D