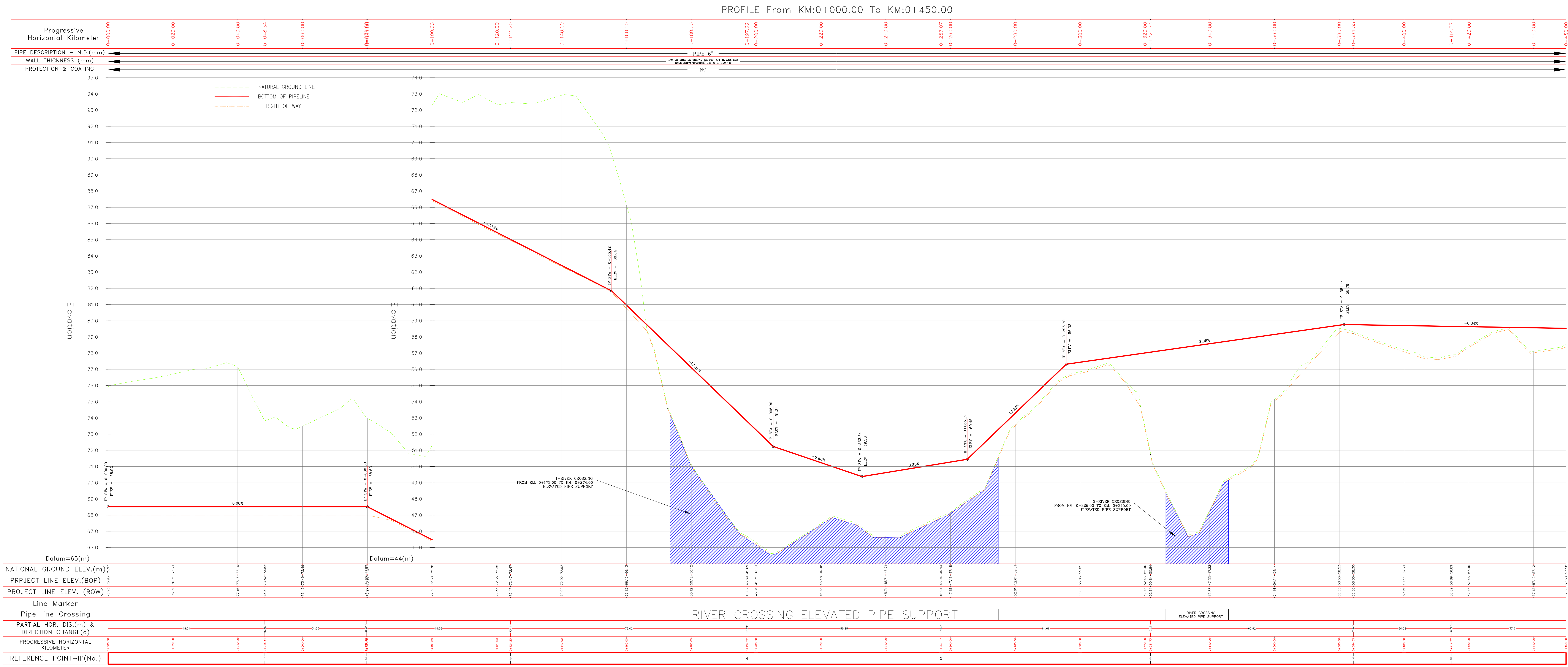
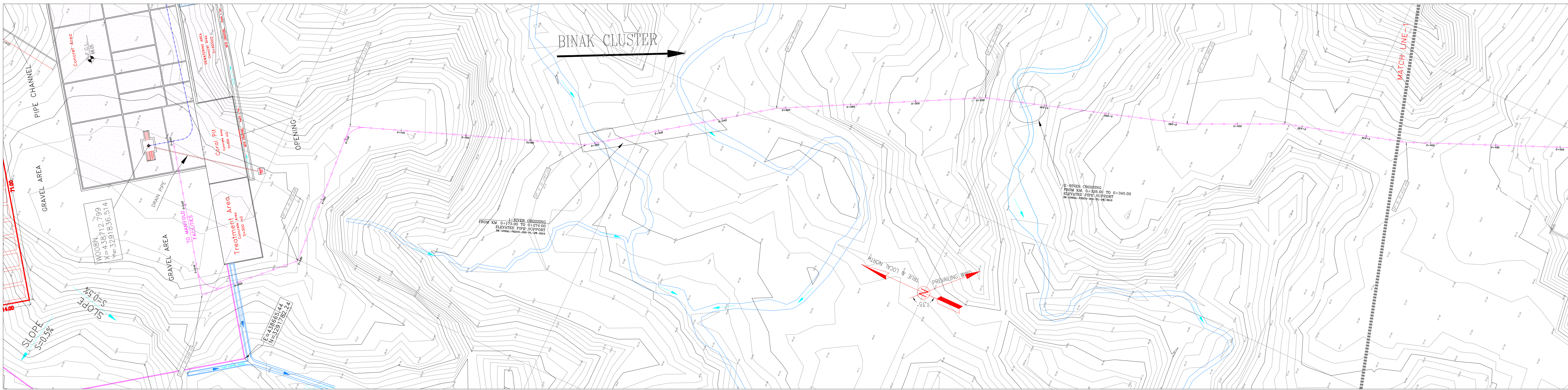




Crossing List					Coordinate of Bench Marks (UTM)				COORDINATES OF INTERSECTION POINTS (UTM)												
Item	Description	Start (KM)	End (KM)	Reference Sheet	Note	Points	Northing (m)	Easting (m)	Elevation (m)	IP No.	KILOMETER	Northing (m)	Easting (m)	IP No.	KILOMETER	Northing (m)	Easting (m)	IP No.	KILOMETER	Northing (m)	Easting (m)
1	RIVER CROSSING	0+173.00	0+274.00	BK-GNRL-PEDCO-000-PL-DW-0010	ELEVATED PIPE SUPPORT	BM1	3290863.132	438665.839	69.495	0	0+000.00	3291830.21	438717.36								
										1	0+048.34	3291802.35	438677.77								
										2	0+079.68	3291779.88	438699.63								
										3	0+124.20	3291782.43	438744.08								
										4	0+197.22	3291713.87	438769.21								
2	RIVER CROSSING	0+326.00	0+345.00	BK-GNRL-PEDCO-000-PL-DW-0010	ELEVATED PIPE SUPPORT	BM2	3291094.731	438668.962	61.149	5	0+257.07	3291665.07	438803.85								
										6	0+321.73	3291607.68	438833.66								
										7	0+384.35	3291547.85	438852.12								
										8	0+414.57	3291520.36	438864.70								
																	</				

D00	AUG.2023	IFC	R.BERLOUIE	M.FAKHARIAN	A.M.MOHSENI	** **
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES WO08N WELLHEAD FACILITIES						
PROJECT NO.:			971020			
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):			
 HURGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: Flow line Plan & Profile Drawings – WO08N						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
H=1:500 V=1:100	A0	BK-WO08N-PEDCO-110-SU-DW-0001			1 OF 3	D00

NOTES

1- ALL COORDINATES AND ELEVATIONS ARE IN METER.

2- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION

3- GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:
HORIZONTAL COORDINATE SYSTEM: WGS84/UTM ZONE 39
ELLIPSOID: WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM: MEAN SEA LEVEL

4- THE PIPELINE MINOR CROSSINGS INCLUDING TRACK, UNSURFACED, SECONDARY ASPHALT ROADS, WATER COURSES, FLOODWAYS, EXISTING UNDERGROUND PIPES/CABLES AND ETC. TO BE EXECUTED AS PER THE PROJECT PIPELINE TYPICAL DRAWINGS.

5- THE PIPELINE MAJOR CROSSINGS INCLUDING RIVERS AND MAIN ASPHALT ROADS SHALL BE EXECUTED ACCORDING TO THE RELATED SPECIFIC DETAILED DRAWINGS.

6- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (WORN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.

7- THE EXACT LOCATION AND NUMBER OF SUPPORT OF HILLSIDE ANCHORS SHALL BE ADJUSTED & CONFIRMED BY THE CLIENT REPRESENTATIVE AT SITE

ABBREVIATIONS

N.G.L.=Natural Ground Level
B.O.P.L.=Bottom of Pipe Level
R.O.W.L.=Right of Way Level
PC=Pipe Line Crossing
OF=Optical Fiber
B.M.=Bench Mark

AR=Asphalt Road
GR=Gravel Road
PLC=Pipe Line Corridor
PL=Pipe Line
CH=Channel

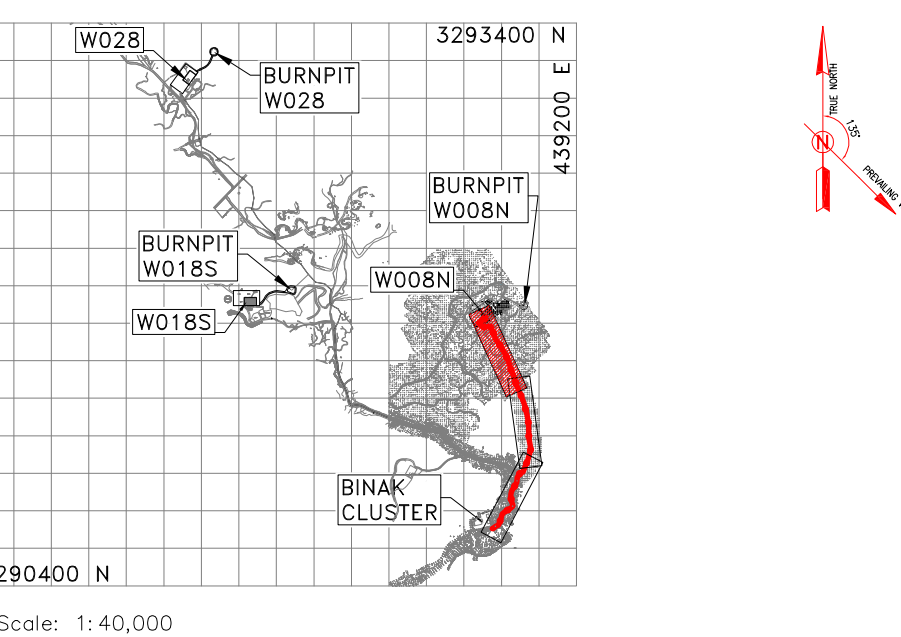
LEGEND

Existing GRAVEL ROAD
New GRAVEL ROAD
ASPHALT ROAD
STAIR
TRENCH
EMBANKMENT
FENCE
BURNING PIT LINE
WATER LINE
BUILDING
CONCRETE AREA
SEPTIC
MANHOLE
POLE
HELIPAD
CHANNEL
RIVER
WATER COURSE
CONTOURS
SPOT HEIGHT
TRIG POINT
CULVERT
WELL LOCATION
WELL
SITE
CAMP SITE
Existing OIL Pipe Line
New OIL Pipe Line
GAS Pipe Line (UG)

REFERENCE DRAWING

General Civil Layout - WO08N	BK-WO08N-PEDCO-110-CV-PY-0001
Civil and Structural drawings - WO08N	BK-WO08N-PEDCO-110-CV-PY-0002
Plot Plan Drawing - WO08N	BK-WO08N-PEDCO-110-PI-DW-0001
Piping Plan - WO08N	BK-WO08N-PEDCO-110-PI-DW-0002
Standard Drawing For A/G Pipeline Road Crossing	BK-GNRL-PEDCO-000-PL-DW-0005
Standard Drawing For Existing Pipeline Crossing	BK-GNRL-PEDCO-000-PL-DW-0006
Standard Drawing For Above Ground Pipeline Construction R.O.W	BK-GNRL-PEDCO-000-PL-DW-0002
Standard Drawing For Culvert & Details	BK-GNRL-PEDCO-000-CI-DW-0014
Pipeline Standard Drawing For Cover Slabs And Set-On-Weight	BK-GNRL-PEDCO-000-PL-DW-0013
Pipeline Standard Drawing For River Crossing	BK-GNRL-PEDCO-000-PL-DW-0014
Pipeline Standard Drawing For In-Pipe Support	BK-GNRL-PEDCO-000-PL-DW-0004
Pipeline Standard Drawing For Pipeline Cold Bending	BK-GNRL-PEDCO-000-PL-SW-0003
Standard Drawing For Concrete Continuous Weight	BK-GNRL-PEDCO-000-CV-DW-0010

KEY PLAN



Scale: 1:40,000

***	*****	**	***	*****	***	*****
REV.	DESCRIPTION	BY	DATE	BY	DATE	
			CHECKED		REV. APPR.	

اسم و کلمه نسخ این نقشه و محتوای آن را برای مقاصد دیگر شرکت ملی نفت ایران بدون مجوز میسر نیست.

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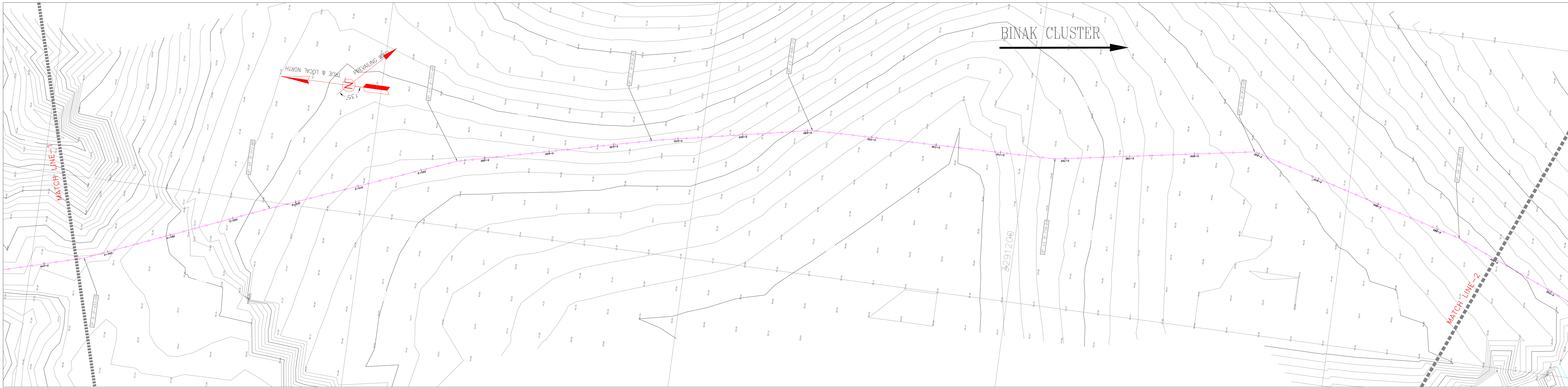
BINAK OILFIELD DEVELOPMENT SUB-SURFACE WORK PACKAGES WO08N WELLHEAD FACILITIES

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION	BY:	DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	A	707871	01	D00



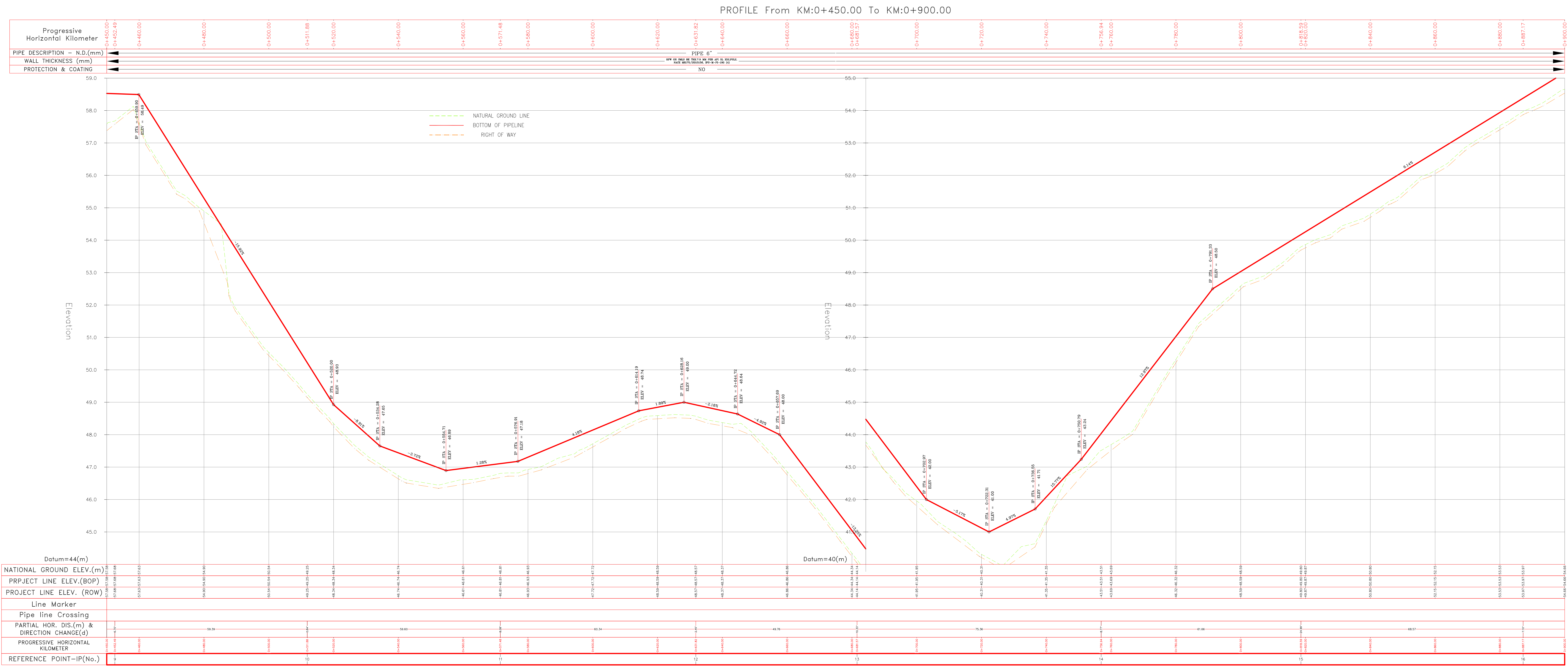
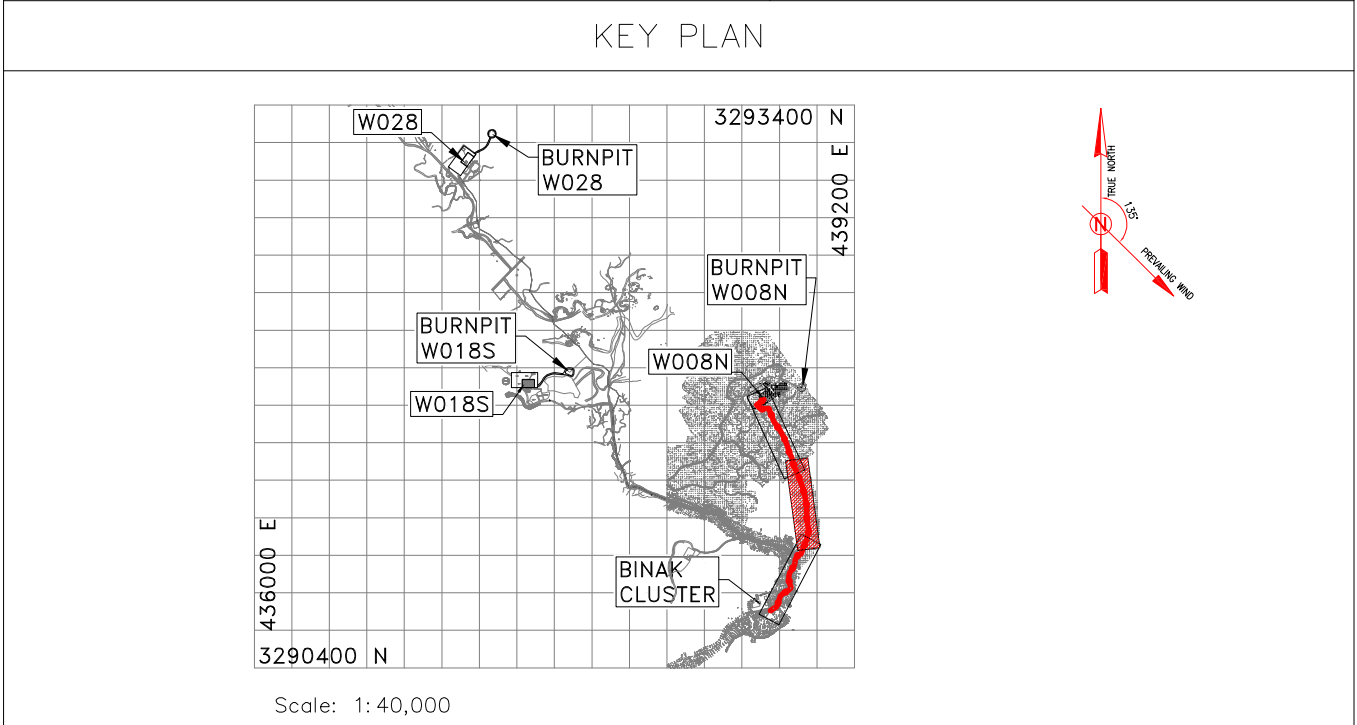
- NOTES
- 1- ALL COORDINATES AND ELEVATIONS ARE IN METER.
 - 2- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.
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ELLIPSOID: WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM: MEAN SEA LEVEL
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 - 7- THE EXACT LOCATION AND NUMBER OF SUPPORT OF HILLSIDE ANCHORS SHALL BE ADJUSTED & CONFIRMED BY THE CLIENT REPRESENTATIVE AT SITE.

WELL NAME	PRESSURE (SUM/WIN) (PSIG)	PIPING DESIGN RATING	TOTAL LENGTH	SIZE
W008N (ASMAN)	172.405/203.58	API 3000	1328.19 m	6 inch

ABBREVIATIONS	
N.G.L.=Natural Ground Level	AR=Asphalt Road
B.O.P.L.=Bottom of Pipe Level	GR=Gravel Road
R.O.W.L.=Right of Way Level	PLC=Pipe Line Corridor
PC=Pipe Line Crossing	PL=Pipe Line
OC=Optical Fiber	CH=Channel
B.M.=Bench Mark	

LEGEND	
Existing GRAVEL ROAD	CHANNEL
New GRAVEL ROAD	RIVER
ASPHALT ROAD	WATER COURSE
STAIR	CONTOURS
TRENCH	SPOT HEIGHT
EMBANKMENT	TRIG POINT
FENCE	WATER LINE
BURNING PIT LINE	CULVERT
CONCRETE AREA	WELL LOCATION
SEPTIC	WELL
MANHOLE	SITE
POLE	CAMP SITE
HELIPAD	
Existing OIL Pipe Line	
New OIL Pipe Line	
GAS Pipe Line (UG)	

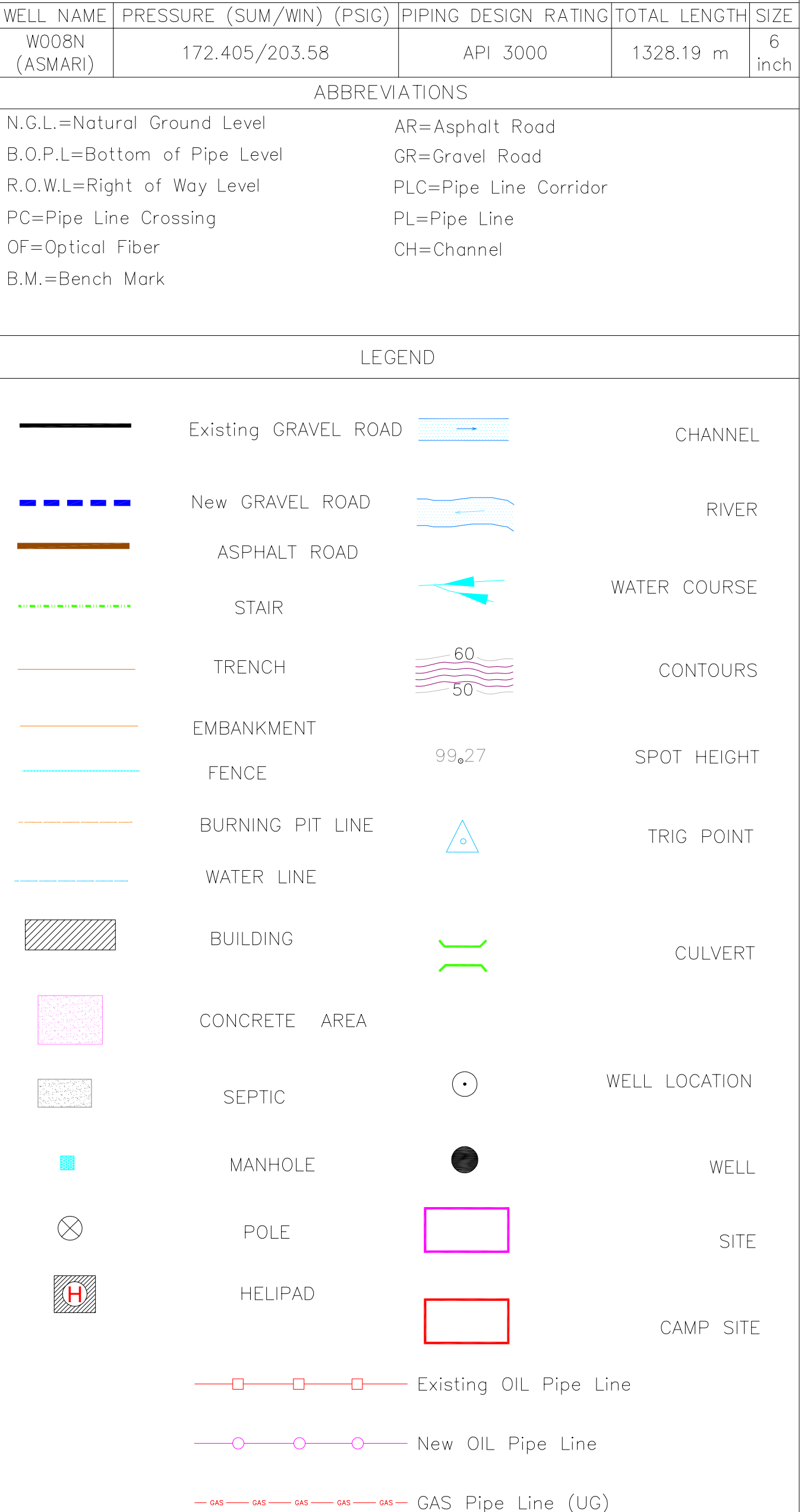
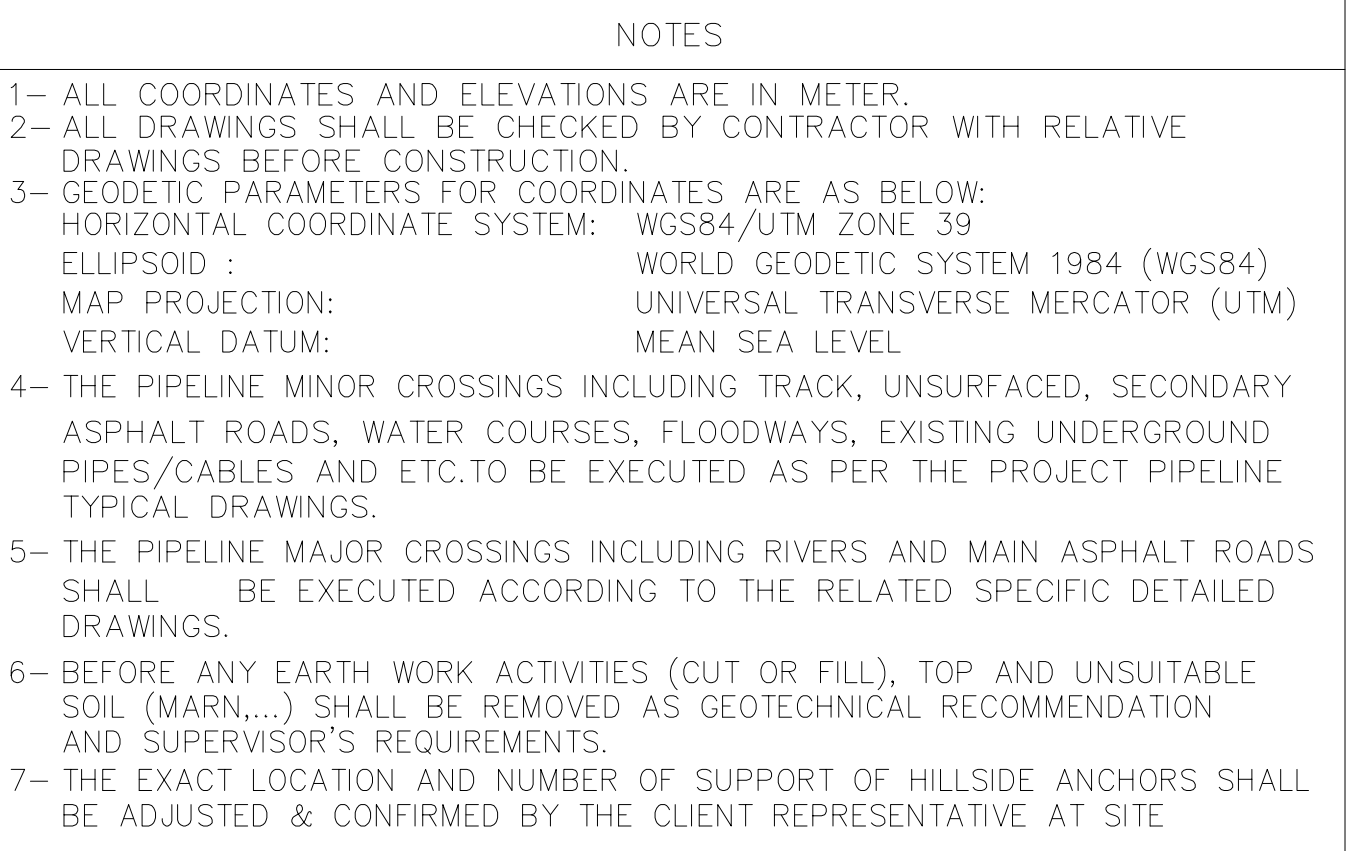
REFERENCE DRAWING	DRG. No.
General Civil Layout - W008N	BK-W008N-PEDCO-110-CV-PY-0001
Civil and Structural drawings - W008N	BK-W008N-PEDCO-110-CV-PY-0002
Plot Plan Drawing - W008N	BK-W008N-PEDCO-110-PI-DW-0001
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Standard Drawing For Culvert & Details	BK-GNRL-PEDCO-000-CI-DW-0014
Pipeline Standard Drawing For Cover Slabs And Set-On-Weight	BK-GNRL-PEDCO-000-PL-DW-0013
Pipeline Standard Drawing For River Crossing	BK-GNRL-PEDCO-000-PL-DW-0014
Pipeline Standard Drawing For Anchor Support	BK-GNRL-PEDCO-000-PL-DW-0004
Pipeline Standard Drawing For In-Pipe Support	BK-GNRL-PEDCO-000-PL-DW-0010
Specification For Pipeline Cold Bending	BK-GNRL-PEDCO-000-PL-SN-0003
Standard Drawing For Concrete Continuous Weight	BK-GNRL-PEDCO-000-CV-DW-0010



Crossing List						Coordinate of Bench Marks (UTM)				COORDINATES OF INTERSECTION POINTS (UTM)											
Item	Description	Start (KM)	End (KM)	Reference Sheet	Note	Points	Northing (m)	Easting (m)	Elevation (m)	IP No.	KILOMETER	Northing (m)	Easting (m)	IP No.	KILOMETER	Northing (m)	Easting (m)	IP No.	KILOMETER	Northing (m)	Easting (m)
						BM1	3290863.132	438865.839	69.495	9	0+452.89	3291483.92	438879.15								
										10	0+511.88	3291429.13	438898.07								
										11	0+571.48	3291373.81	438920.26								
										12	0+631.82	3291315.21	438934.63								
										13	0+681.57	3291266.42	438944.40								
						BM2	3291094.731	438668.962	61.149	14	0+756.94	3291191.07	438945.71								
										15	0+818.39	3291130.31	438956.17								
										16	0+887.17	3291064.14	438938.17								

D00	AUG.2023	IFC	R.BERLOUIE	M.FAKHARIAN	A.M.MOHSENI	** **
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES W008N WELLHEAD FACILITIES						
PROJECT NO.:			971020			
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):			
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE:						
Flow line Plan & Profile Drawings – W008N						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
H=1:500 V=1:50	A0	BK-W008N-PEDCO-110-SU-DW-0001			2 OF 3	D00

***	*****	** **	*** **	***	*** **
REV.	DESCRIPTION	BY	DATE	BY	DATE
CHECKED					
REV. APPR.					
اسم و کلمه نسخ این نقشه و سنی اقباس متعلق به شرکت ملی مناطق نفت خیز جنوب می باشد.					
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BINAK OILFIELD DEVELOPMENT SUB-SURFACE WORK PACKAGES W008N WELLHEAD FACILITIES					
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.	
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
APPROVED FOR CONSTRUCTION		BY:		DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET REVISION
053-073-9184	F	4	A	707871	02 D00



D00	AUG.2023	IFC	R.BERLOUIE	M.TAKHARIAN	A.M.MOHSINI	** ** *	
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	
PROJECT NAME:							
BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES W008N WELLHEAD FACILITIES							
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Flow line Plan & Profile Drawings – W008N							
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	
H=1:500 V=1:50	A0	BK–W008N–PEDCO–110–SU–DW–0001			3 OF 3	D00	

Map of the Burnaby area showing the Burnaby Woodson and Burnaby Woobson areas. The map includes a grid with coordinates (43000 N, 43500 N, 44000 N, 44500 N, 45000 N, 45500 N, 46000 N, 46500 N, 47000 N, 47500 N, 48000 N, 48500 N, 49000 N, 49500 N, 50000 N, 50500 N, 51000 N, 51500 N, 52000 N, 52500 N, 53000 N, 53500 N, 54000 N, 54500 N, 55000 N, 55500 N, 56000 N, 56500 N, 57000 N, 57500 N, 58000 N, 58500 N, 59000 N, 59500 N, 60000 N, 60500 N, 61000 N, 61500 N, 62000 N, 62500 N, 63000 N, 63500 N, 64000 N, 64500 N, 65000 N, 65500 N, 66000 N, 66500 N, 67000 N, 67500 N, 68000 N, 68500 N, 69000 N, 69500 N, 70000 N, 70500 N, 71000 N, 71500 N, 72000 N, 72500 N, 73000 N, 73500 N, 74000 N, 74500 N, 75000 N, 75500 N, 76000 N, 76500 N, 77000 N, 77500 N, 78000 N, 78500 N, 79000 N, 79500 N, 80000 N, 80500 N, 81000 N, 81500 N, 82000 N, 82500 N, 83000 N, 83500 N, 84000 N, 84500 N, 85000 N, 85500 N, 86000 N, 86500 N, 87000 N, 87500 N, 88000 N, 88500 N, 89000 N, 89500 N, 90000 N, 90500 N, 91000 N, 91500 N, 92000 N, 92500 N, 93000 N, 93500 N, 94000 N, 94500 N, 95000 N, 95500 N, 96000 N, 96500 N, 97000 N, 97500 N, 98000 N, 98500 N, 99000 N, 99500 N, 100000 N). The map also shows the Burnaby Woodson and Burnaby Woobson areas, with a red arrow indicating the direction of the Burnaby Cluster.