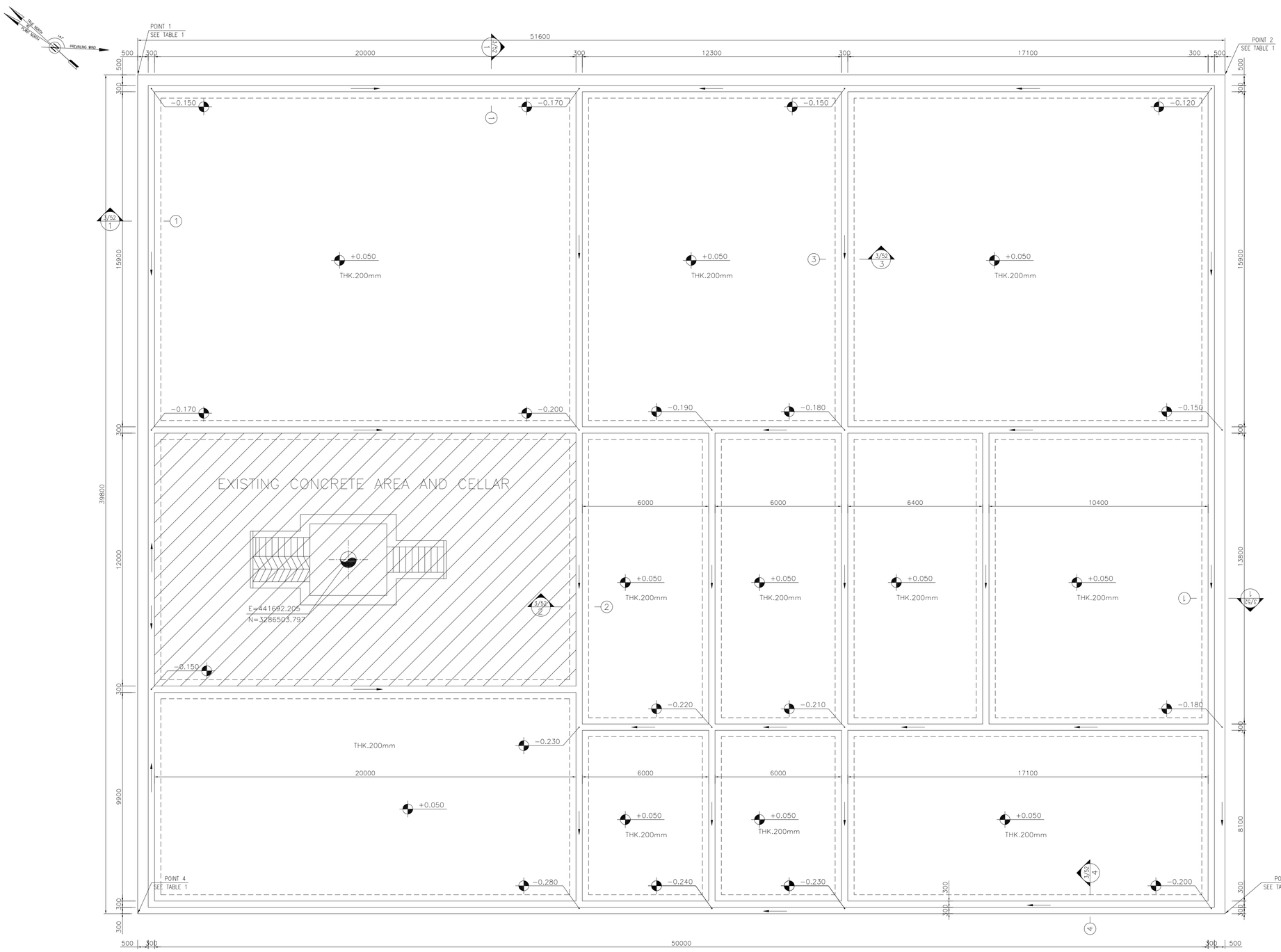

WELLPAD FOUNDATION PLAN

1:100 (1) FORMWORK

TABLE 1 (CORNERS COORDINATES)		
POINT 1	441702.64	3286526.60
POINT 2	441737.11	3286488.21
POINT 3	441673.02	3286500.01
POINT 4	441707.50	3286461.62

NOTES

1- ALL COORDINATES ARE IN METER.

2- ALL DIMENSIONS ARE IN MILLIMETERS AND ELEVATIONS ARE IN METER.

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

4- ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS: "BK-GNRL-PEDCO-000-ST-SP-0001",28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF MAIN CONCRETE IS 25 MPa(ON CYLINDRICAL SPECIMEN)

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6- REINFORCING BARS SHALL BE S400 ACCORDING TO: ISIRI3132 AND INBC9 WITH MINIMUM TENSILE YIELD STRENGTH 400 N/mm^2

7- MINIMUM FOUNDATION NET CONCRETE COVER SHALL BE 75 mm.

8- SPECIFICATIONS OF THERMO PLAST ACRYLIC COLOR, BASED ON No.3758 NATIONAL STANDARD CODE:
DENSITY : 4.1-5.1 gr/cm3
THICKNESS : 300-400 MICRON
GLOSS : DULL
SOLID MATERIAL PERCENTAGE BY WEIGHT : 75%±2
SOLID MATERIAL PERCENTAGE BY VOLUME : 48%±2

9- JOINT SEALANT MATERIALS SHALL BE WATER-RESISTANT POLYURETHANE OR SILICONE SCH AS "AEROLASTIC 1674" OR SIMILAR AND SHALL CONFORM TO BS-4254 FOR VERTICAL JOINTS IN WALLS & SHALL BE FOLLOWED ASTM D2499. THE FILLING MATERIAL MUST BE APPROVED BY THE WORKSHOP SUPERVISION.

10- CONTRACTION JOINTS SHALL BE CONSIDERED IN CONCRETE SLABS EVERY 6m.

11- GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:

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ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR(UTM)
VERTICAL DATUM:	MSL

12- ACCORDING TO THE GEOTECHNICAL REPORT SHOULD BE USED OF CEMENT TYPE2.

13- JOINT FILLER SHALL BE ELASTIC MATERIAL. POLY ETHYLENE SHEETS OR CORK PARTICLES OR EQUIVALENT MATERIALS CAN BE USED.

±0.00 = +58.72(R.G.L.)MSL

LEGEND AND ABBREVIATION

REINFORCED CONCRETE	T.O.F.	TOP OF FOUNDATION
LEAN CONCRETE	T.O.W.	TOP OF WALL
CEMENT BLOCK WALL	T.O.C.	TOP OF CONCRETE
GRAVEL	T.O.PIT	TOP OF PIT
SUB GRADE	B.O.P.	BOTTOM OF PIPE
SLOPE	R.G.L.	ROUGH GRADING LEVEL

REFERENCE DRAWING	DRG. No.
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GENERAL NOTES - REINFORCED CONCRETE STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0012
GENERAL CIVIL LAYOUT -W035	BK-W035-PEDCO-110-CV-PY-0001
ROUGH GRADING PLANS -W035	BK-W035-PEDCO-110-CV-DW-0001
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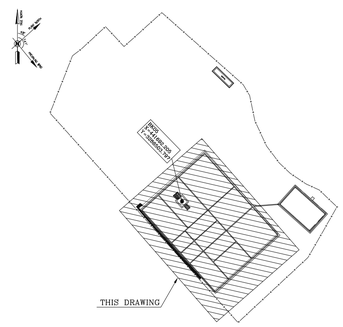
SPECIFICATION FOR ROAD & PAVING	BK-GNRAL-PEDCO-000-CV-SP-0002

KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R. BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR(GC): PEDCO — PETROIRAN DEVELOPMENT COMPANY

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

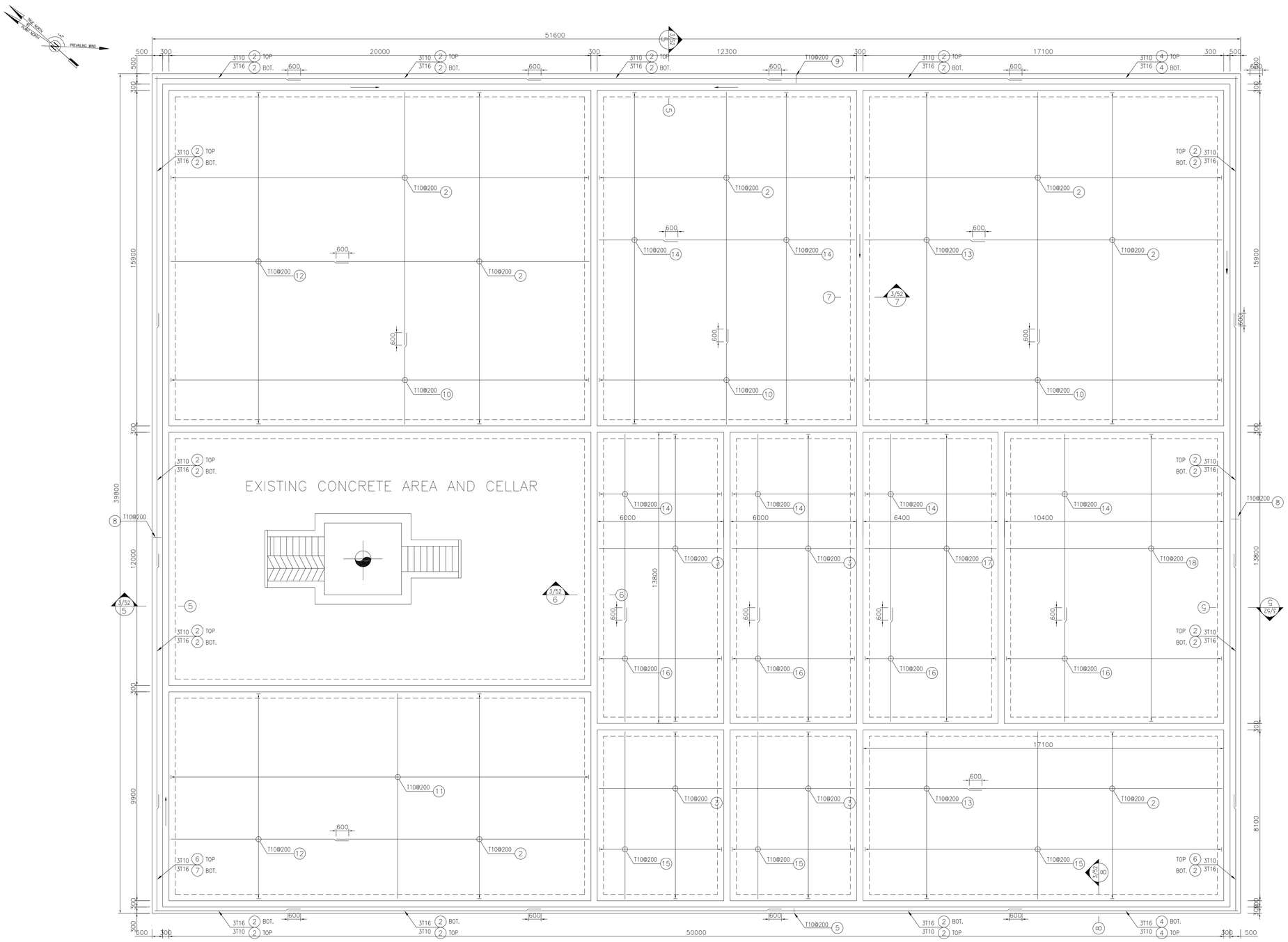
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK05
WELLPAD FOUNDATION FORMWORK PLAN

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A1	BK-BK05-PEDCO-110-CV-DW-0001	1 OF 52	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	1	D00



WELLPAD FOUNDATION PLAN
REINFORCEMENT
1:100

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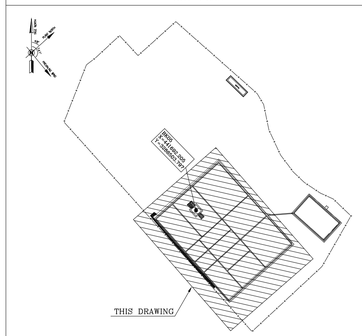
KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
***	**********	**	***.****	**	***.****
D00	JUN.2023	IFC	R. BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

CHECKED | REV. APPR.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

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EPD/EPC CONTRACTOR(GC): PETROIRAN DEVELOPMENT COMPANY PEDCO

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

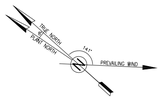
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

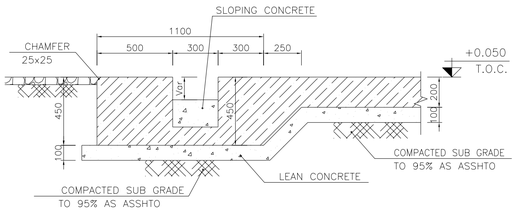
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
APPROVED FOR CONSTRUCTION | BY: | DATE:

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK05
WELLPAD FOUNDATION REINFORCEMENT PLAN

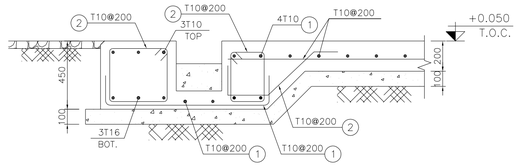
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A1	BK-BK05-PEDCO-110-CV-DW-0001	2 OF 52	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	2	D00

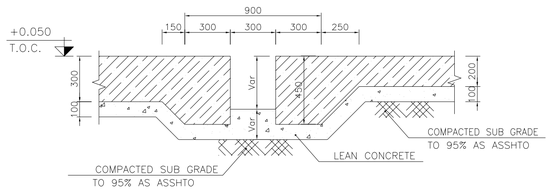




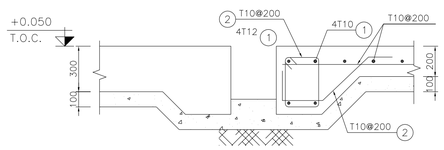
1/52 — 1:20 — 1 — TYPICAL CHANNEL SECTION IN BOUNDARY SIDE



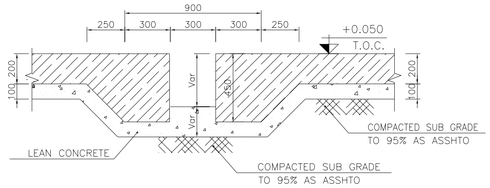
2/52 — 1:20 — 5 — TYPICAL CHANNEL SECTION IN BOUNDARY SIDE



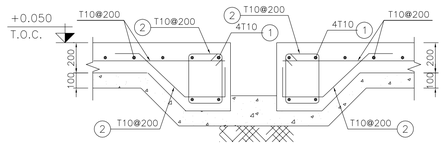
1/52 — 1:20 — 2 — TYPICAL CHANNEL SECTION IN MIDDLE SIDE



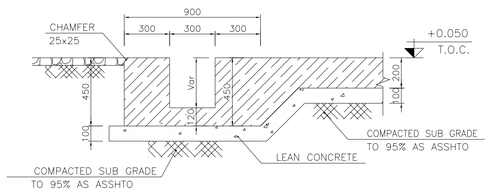
2/52 — 1:20 — 6 — TYPICAL CHANNEL SECTION IN MIDDLE SIDE



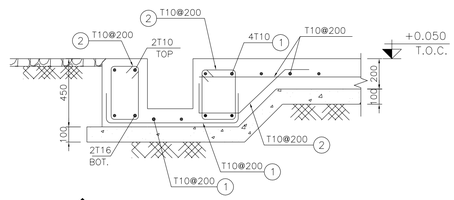
1/52 — 1:20 — 3 — TYPICAL CHANNEL SECTION IN MIDDLE SIDE



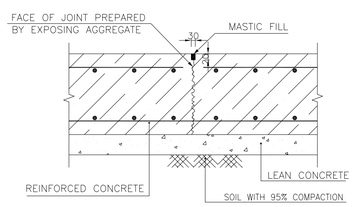
2/52 — 1:20 — 7 — TYPICAL CHANNEL SECTION IN MIDDLE SIDE



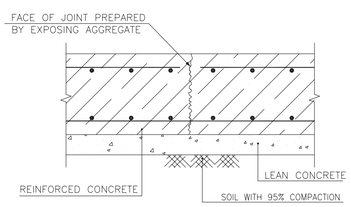
1/52 — 1:20 — 4 — TYPICAL CHANNEL SECTION IN BOUNDARY SIDE



2/52 — 1:20 — 8 — TYPICAL CHANNEL SECTION IN BOUNDARY SIDE



– — N.T.S. — 9 — TYPICAL CONTRACTION JOINT EVERY 6000



– — N.T.S. — 10 — TYPICAL CONSTRUCTION JOINT

Pos	Spec.	Shape	L/A	No.	T10
1	T10	11800 / 200	12.000	30	360.000
2	T10	12000	12.000	577	6924.000
3	T10	5850	5.850	222	1298.700
4	T10	10900	10.900	8	87.200
5	T10	200 / 350 / 100	1.300	253	328.900
6	T10	6150	6.150	4	24.600
7	T10	6120	6.120	2	12.240
8	T10	350 / 400 / 100	1.300	404	525.200
9	T10	350 / 400 / 100	1.700	253	430.100
10	T10	4400	4.400	248	1091.200
11	T10	9750	9.750	100	975.000
12	T10	8450	8.450	130	1098.500
13	T10	6000	6.000	121	726.000
14	T10	9000	9.000	307	2763.000
15	T10	7950	7.950	149	1184.550
16	T10	5450	5.450	147	801.150
17	T10	6650	6.650	70	465.500
18	T10	10650	10.650	70	745.500
TOTAL LENGTH OR AREA (m/m2)					19841.34
UNIT WEIGHT (Kg)					0.617
WEIGHT (Kg)					12242.11
GRAND TOTAL (Kg)					12300 Kg.

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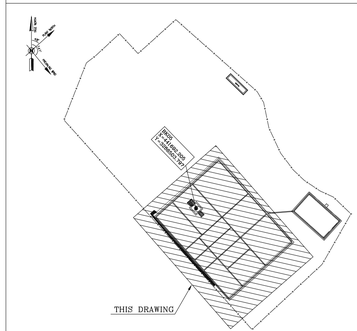

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REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

REV.	DESCRIPTION	BY	DATE	BY	DATE
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PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR(GC): PEDCO — PETROIRAN DEVELOPMENT COMPANY

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK05 WELLPAD AND RIG FOUNDATION DETAILS & SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A1	BK-BK05-PEDCO-110-CV-DW-0001	3 OF 52	D00

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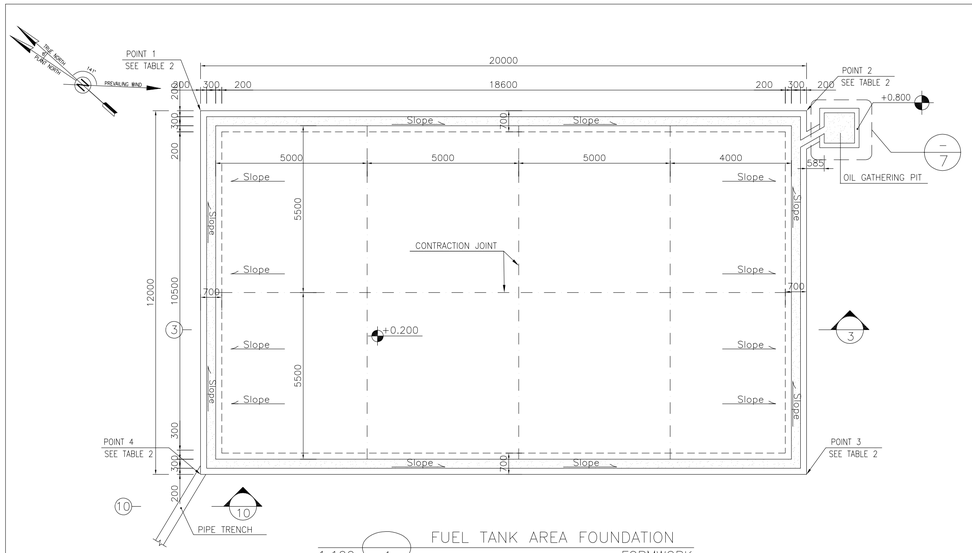
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

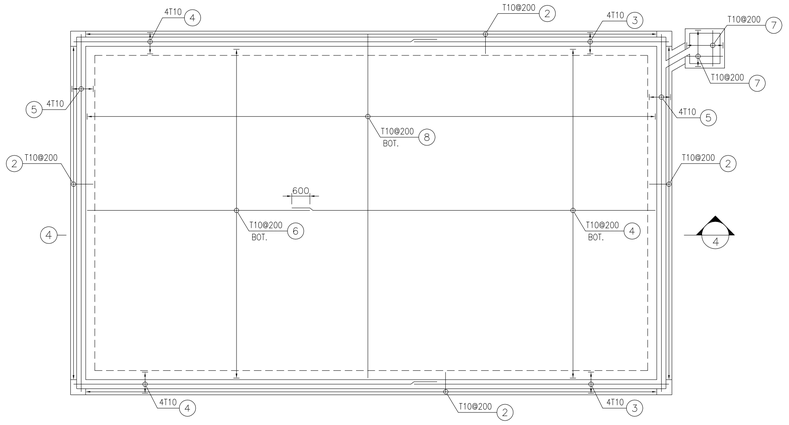
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
APPROVED FOR CONSTRUCTION | BY: | DATE:

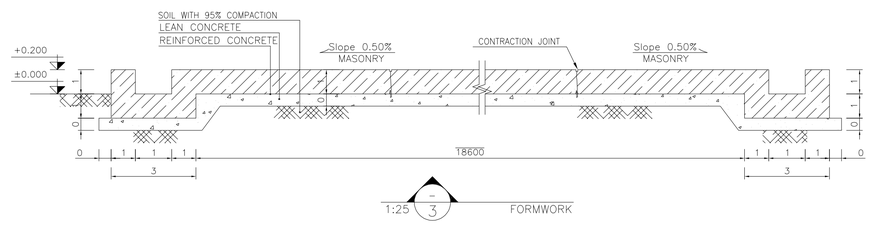
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	3	D00



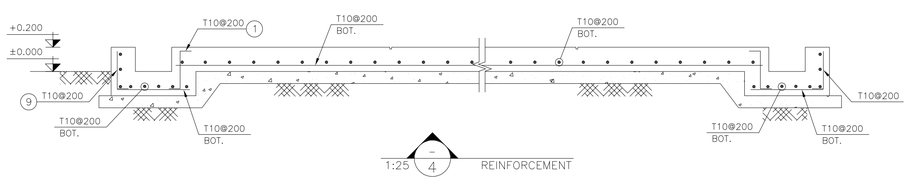
1:100 (1) FUEL TANK AREA FOUNDATION FORMWORK



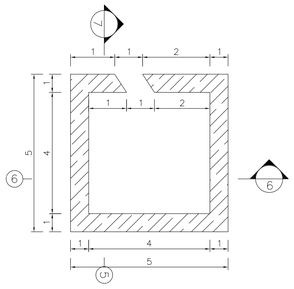
1:100 (2) FUEL TANK AREA FOUNDATION REINFORCEMENT



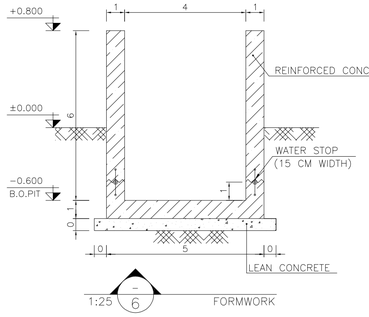
1:25 (3) FORMWORK



1:25 (4) REINFORCEMENT



1:25 (5) OIL GATHERING PIT



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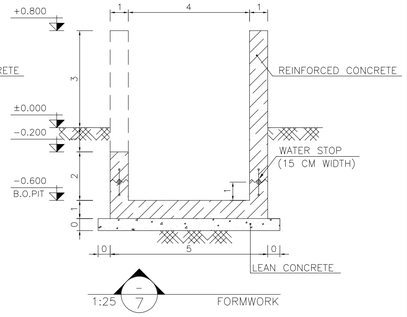

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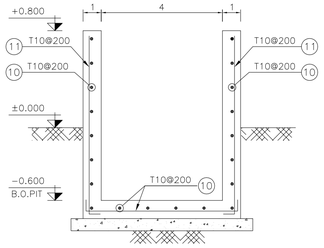

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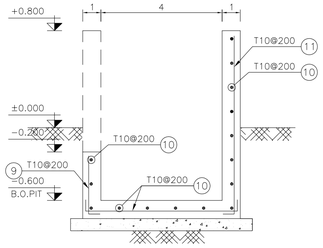

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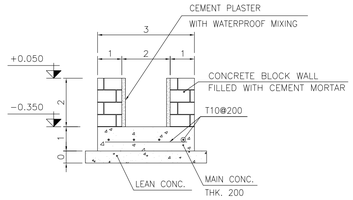
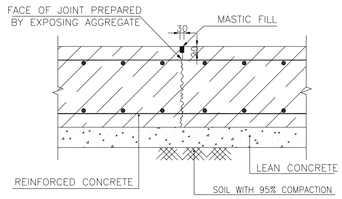
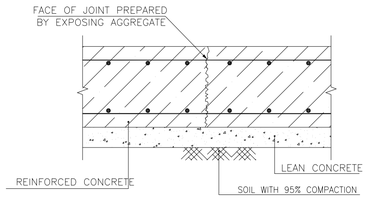


1:25 (10) TYPICAL SECTION OF PIPE TRENCH



N.T.S. (11) TYPICAL CONTRACTION JOINT EVERY 4000



N.T.S. (12) TYPICAL CONSTRUCTION JOINT

Pos	Spec.	Shape	L/A	No.	T10
1	T10	150 1250 150	1.550	312	483.600
2	T10	700	0.700	306	214.200
3	T10	8415	8.415	8	67.320
4	T10	12000	12.000	64	768.000
5	T10	11800	11.800	8	94.400
6	T10	7350	7.350	56	411.600
7	T10	1650	1.650	14	23.100
8	T10	9000	9.000	95	855.000
9	T10	150 1250	1.400	314	439.600
10	T10	1150	1.15	37	42.550
11	T10	150 1400	1.55	34	52.700
TOTAL LENGTH OR AREA (m/m2)					3452.07
UNIT WEIGHT (Kg)					0.617
WEIGHT (Kg)					2129.93
GRAND TOTAL (Kg)					2130 Kg.

TABLE 2 (CORNERS COORDINATES)		
POINT 1		
POINT 2		
POINT 3		
POINT 4		

NOTES

1- ALL COORDINATES ARE IN METER.
2- ALL DIMENSIONS ARE IN MILLIMETERS AND ELEVATIONS ARE IN METER.
3- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.
4- ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS: "BK-GNRL-PEDCO-000-ST-SP-0001",28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF MAIN CONCRETE IS 25 MPa(ON CYLINDRICAL SPECIMEN)
5- ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS: "BK-GNRL-PEDCO-000-ST-SP-0001",28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF LEAN CONCRETE IS 15 MPa(ON CYLINDRICAL SPECIMEN)
6- REINFORCING BARS SHALL BE S400 ACCORDING TO: ISIRI3132 AND INBC9 WITH MINIMUM TENSILE YIELD STRENGTH 400 N/mm^2
7- MINIMUM FOUNDATION NET CONCRETE COVER SHALL BE 75 mm.
8- SPECIFICATIONS OF THERMO PLAST ACRYLIC COLOR, BASED ON No.3758 NATIONAL STANDARD CODE:
DENSITY : 4.1-5.1 gr/cm3
THICKNESS : 300-400 MICRON
GLOSS : DULL
SOLID MATERIAL PERCENTAGE BY WEIGHT : 75%±2
SOLID MATERIAL PERCENTAGE BY VOLUME : 48%±2
9- JOINT SEALANT MATERIALS SHALL BE WATER-RESISTANT POLYURETHANE OR SILICONE SCH AS "AEROLASTIC 1674" OR SIMILAR AND SHALL CONFORM TO BS-4254 FOR VERTICAL JOINTS IN WALLS & SHALL BE FOLLOWED ASTM D2499. THE FILLING MATERIAL MUST BE APPROVED BY THE WORKSHOP SUPERVISION.
10- CONTRACTION JOINTS SHALL BE CONSIDERED IN CONCRETE SLABS EVERY 6m.
11- 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: MSL
12- ACCORDING TO THE GEOTECHNICAL REPORT SHOULD BE USED OF CEMENT TYPE2.
13- JOINT FILLER SHALL BE ELASTIC MATERIAL. POLY ETHYLENE SHEETS OR CORK PARTICLES OR EQUIVALENT MATERIALS CAN BE USED.

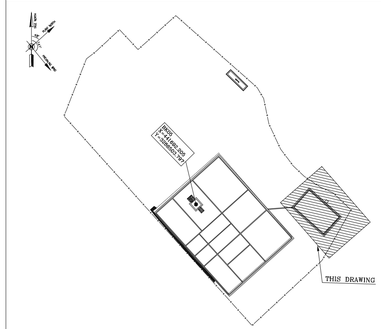
±0.00 = +58.72(R.G.L.)MSL

LEGEND AND ABBREVIATION

REINFORCED CONCRETE	T.O.F.	TOP OF FOUNDATION
LEAN CONCRETE	T.O.W.	TOP OF WALL
CEMENT BLOCK WALL	T.O.C.	TOP OF CONCRETE
GRAVEL	T.O.PIT	TOP OF PIT
SUB GRADE	B.O.P.	BOTTOM OF PIPE
SLOPE	R.G.L.	ROUGH GRADING LEVEL

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR FENCE & GATE	BK-GNRAL-PEDCO-000-CV-SP-0003
GENERAL NOTES - STEEL STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0011
GENERAL NOTES - REINFORCED CONCRETE STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0012
GENERAL CIVIL LAYOUT -W035	BK-W035-PEDCO-110-CV-PY-0001
ROUGH GRADING PLANS -W035	BK-W035-PEDCO-110-CV-DW-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
STANDARD DETAILS OF MISCELLANEOUS ITEMS	BK-GNRAL-PEDCO-000-CV-DW-0040
SPECIFICATION FOR EARTH WORK	BK-GNRAL-PEDCO-000-CV-SP-0004
SPECIFICATION FOR ROAD & PAVING	BK-GNRAL-PEDCO-000-CV-SP-0002

KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
***	**********	**	***.****	**	***.****
		CHECKED		REV. APPR.	
D00	JUN.2023	IFC	R. BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR(GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

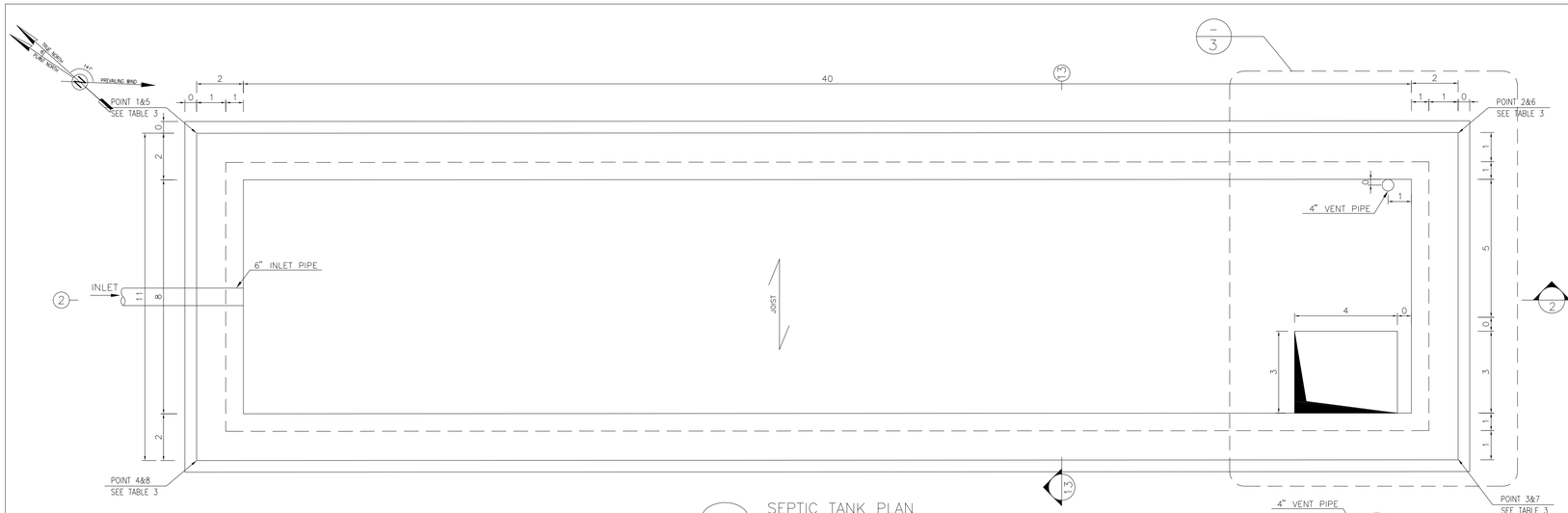
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK05
GAS OIL PAD FORMWORK & REINFORCEMENT PLAN-SECTION

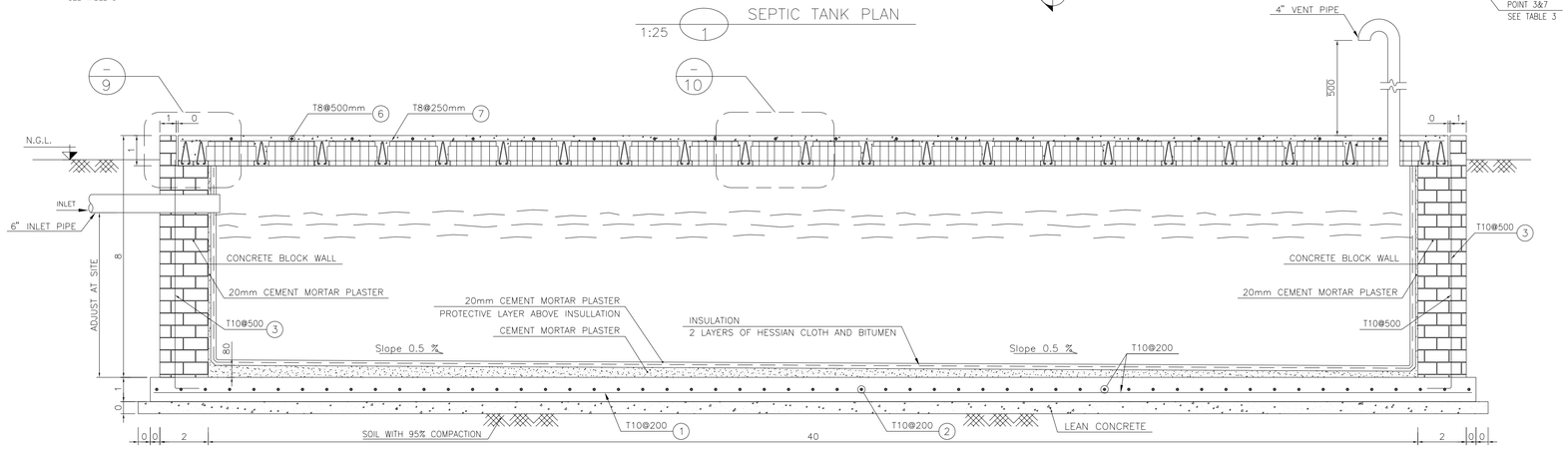
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A1	BK-BK05-PEDCO-110-CV-DW-0001	4 OF 52	D00

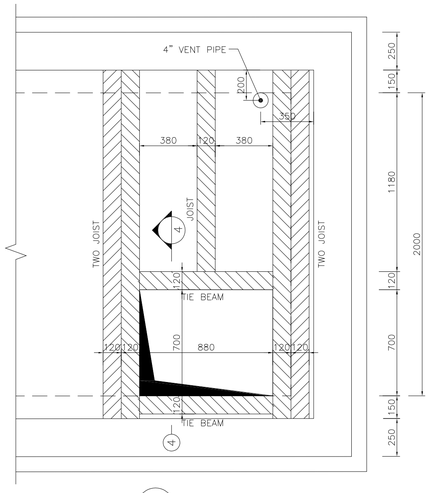
APPROVED FOR CONSTRUCTION			BY:		DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	4	D00



SEPTIC TANK PLAN

1:25 (1)





1:20 (3)

1:25 (2) FORMWORK REINFORCEMENT

TABLE 3 (CORNERS COORDINATES)		
POINT 1	441708.05	3286565.57
POINT 2	441715.92	3286557.94
POINT 3	441713.86	3286555.81
POINT 4	441705.99	3286563.44

NOTES

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THICKNESS : 300-400 MICRON
GLOSS : DULL
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SOLID MATERIAL PERCENTAGE BY VOLUME : 48%±2
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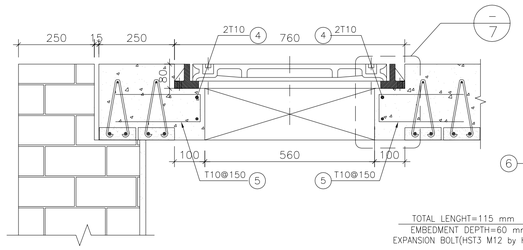
±0.00 = +58.72(R.G.L.)MSL

LEGEND AND ABBREVIATION

REINFORCED CONCRETE	T.O.F.	TOP OF FOUNDATION
LEAN CONCRETE	T.O.W.	TOP OF WALL
CEMENT BLOCK WALL	T.O.C.	TOP OF CONCRETE
GRAVEL	T.O.PIT	TOP OF PIT
SUB GRADE	B.O.P.	BOTTOM OF PIPE
SLOPE	R.G.L.	ROUGH GRADING LEVEL

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR FENCE & GATE	BK-GNRAL-PEDCO-000-CV-SP-0003
GENERAL NOTES - STEEL STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0011
GENERAL NOTES - REINFORCED CONCRETE STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0012
GENERAL CIVIL LAYOUT -W035	BK-W035-PEDCO-110-CV-PY-0001
ROUGH GRADING PLANS -W035	BK-W035-PEDCO-110-CV-DW-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
STANDARD DETAILS OF MISCELLANEOUS ITEMS	BK-GNRAL-PEDCO-000-CV-DW-0040
SPECIFICATION FOR EARTH WORK	BK-GNRAL-PEDCO-000-CV-SP-0004
SPECIFICATION FOR ROAD & PAVING	BK-GNRAL-PEDCO-000-CV-SP-0002



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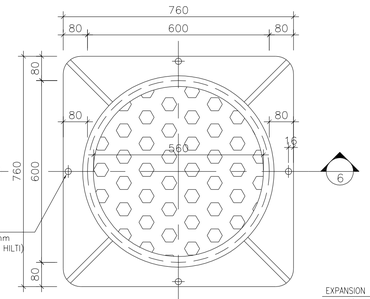
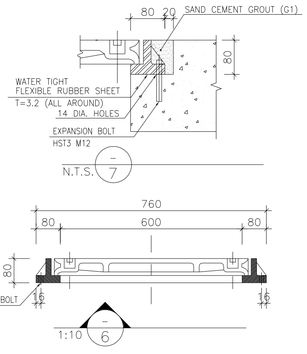
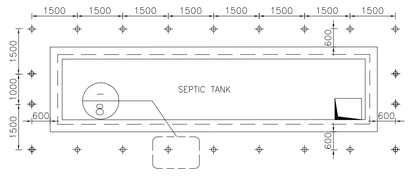


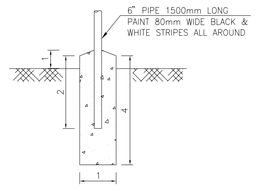
1:10 (5) DUCTILE IRON DETAIL

HEAVY DUTY DUCTILE IRON COATED FLAT COVERS AND FRAMES

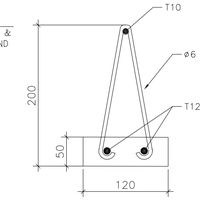




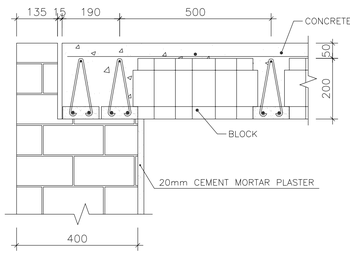
1:100 (14) ARRANGMENT OF MARKERS



1:25 (8) DETAIL OF MARKERS



1:10 (9) JOIST DETAIL



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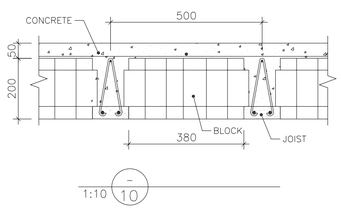
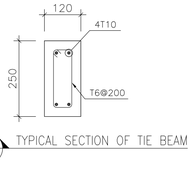
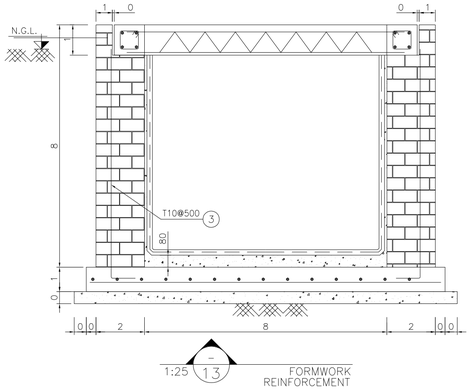


1:10 (10)



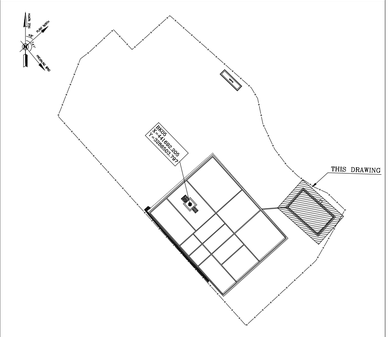
1:10 (12) TYPICAL SECTION OF TIE BEAM



1:25 (13) FORMWORK REINFORCEMENT

BAR BENDING SCHEDULE - SEPTIC TANK					
Pos	Spec.	Shape	L/A	No.	T10
1	T10	10800	10.80	14	151.20
2	T10	2800	2.80	18	50.40
3	T10	150 | 2050	2.20	52	114.40
4	T10	150 | 1000	1.150	4	4.600
5	T10	350 | 100 | 350	0.800	12	9.600
6	T10	2400	2.400	22	52.80
7	T10	10400	10.40	11	114.40
TOTAL LENGTH OR AREA (m/m2)					497.40
UNIT WEIGTH (Kg)					0.617
WEIGTH (Kg)					306.90
GRAND TOTAL (Kg)					310

KEY PLAN



REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D00	JUN.2023	IFC	R. BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**

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

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

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EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR(GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

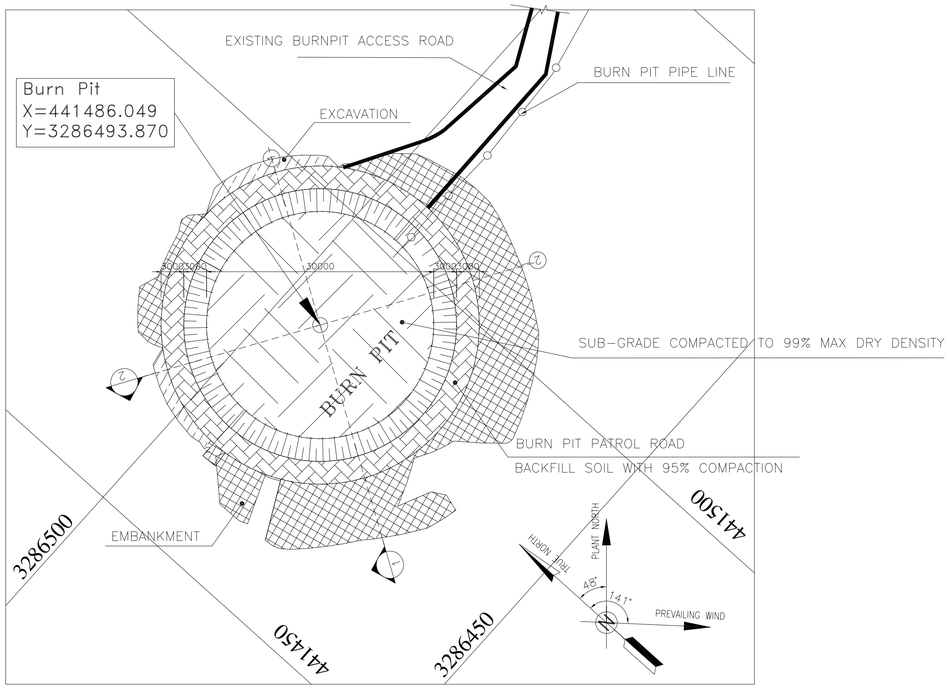
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK05
SEPTIC TANK FORMWORK & REINFORCEMENT PLAN-SECTION

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A1	BK-BK05-PEDCO-110-CV-DW-0001	5 OF 52	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	5	D00



BURN PIT PLAN
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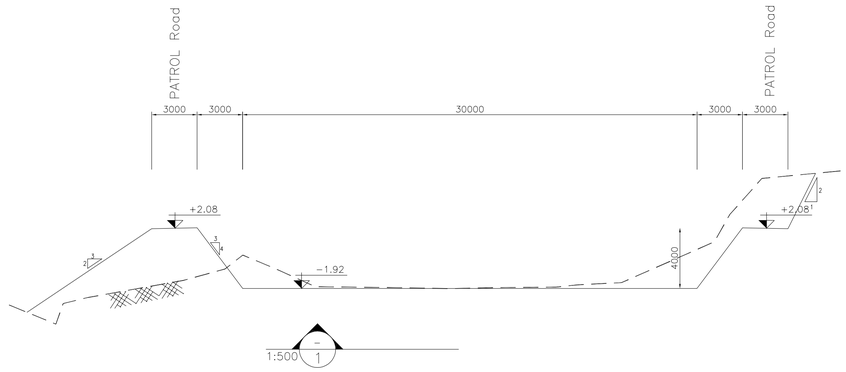

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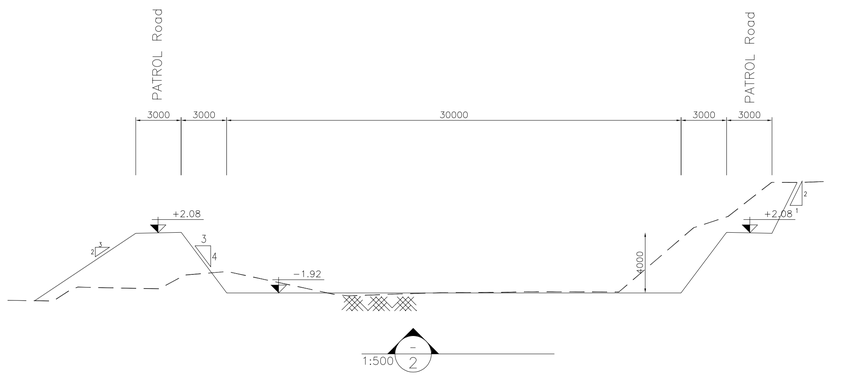

1:500 (2)

NOTES

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6- REINFORCING BARS SHALL BE S400 ACCORDING TO: ISIRI3132 AND INBC9 WITH MINIMUM TENSILE YIELD STRENGTH 400 N/mm^2
7- MINIMUM FOUNDATION NET CONCRETE COVER SHALL BE 75 mm.
8- SPECIFICATIONS OF THERMO PLAST ACRYLIC COLOR, BASED ON No.3758 NATIONAL STANDARD CODE:
DENSITY : 4.1-5.1 gr/cm
THICKNESS : 300-400 MICRON
GLOSS : DULL
SOLID MATERIAL PERCENTAGE BY WEIGHT : 75%±2
SOLID MATERIAL PERCENTAGE BY VOLUME : 48%±2
9- JOINT SEALANT MATERIALS SHALL BE WETHER-RESISTANT POLYURETHANE OR SILICONE SCH AS "AEROLASTIC 1674" OR SIMILAR AND SHALL CONFORM TO BS-4254 FOR VERTICAL JOINTS IN WALLS. THE FILLING MATERIAL MUST BE APPROVED BY THE WORKSHOP SUPERVISION
10- CONTRACTION JOINTS SHALL BE CONSIDERED IN CONCRETE SLABS EVERY 6m.
11- 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:	MSL

12- ACCORDING TO THE GEOTECHNICAL REPORT SHOULD BE USED OF CEMENT TYPE2.

±0.00 = +58.72(R.G.L.)MSL

LEGEND AND ABBREVIATION

	REINFORCED CONCRETE		SUB GRADE
	LEAN CONCRETE		SLOPE
	CEMENT BLOCK WALL		EXISTING CONCRETE AREA
	GRAVEL		
T.O.F.	TOP OF FOUNDATION		Excavation
T.O.W.	TOP OF WALL		Embankment
T.O.C.	TOP OF CONCRETE		
T.O.PIT	TOP OF PIT		
B.O.P.	BOTTOM OF PIPE		
R.G.L.	ROUGH GRADING LEVEL		
T.O.R	TOP OF ROAD		

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR FENCE & GATE	BK-GNRAL-PEDCO-000-CV-SP-0003
STANDARD DRAWING FOR FENCE & GATE DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0009
GENERAL NOTES - STEEL STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0011
GENERAL NOTES - REINFORCED CONCRETE STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0012
GENERAL CIVIL LAYOUT - BK05	BK-BK05-PEDCO-110-CV-PY-0001
ROUGH GRADING PLANS - BK05	BK-BK05-PEDCO-110-CV-DW-0003
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
STANDARD DETAILS OF MISCELLANEOUS ITEMS	BK-GNRAL-PEDCO-000-CV-DW-0040
SPECIFICATION FOR EARTH WORK	BK-GNRAL-PEDCO-000-CV-SP-0004
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STRUCTURAL DRAWING FOR SECURITY BUILDING FOR WELL PADS-BK-05	BK-BK05-PEDCO-110-ST-DW-0003
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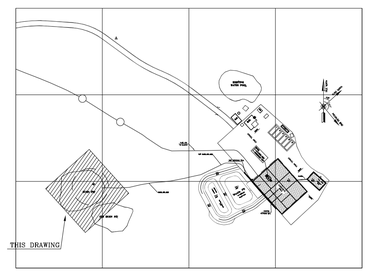
FOUNDATION DRAWING FOR DIESEL GENERATOR SHELTER FOR WELL PADS-BK-05	BK-BK05-PEDCO-110-ST-DW-0007
STRUCTURAL DRAWING FOR DIESEL GENERATOR SHELTER FOR WELL PADS-BK-05	BK-BK05-PEDCO-110-ST-DW-0008

KEY PLAN



Cut/Fill Summary

Name	Cut Factor	Fill Factor	Cut	Fill
ROUGH GRADING (BURNPIT-BK05)	**1.000**	**1.000**	1102.51 Cu.M.	1760.87 Cu.M.
			TOTAL=2863.38 Cu.M.	

Cut and Fill Volume Table for Burn Pit Area

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**

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

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR(GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK05
BURN PIT PLAN-SECTIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
APPROVED FOR CONSTRUCTION BY: DATE:

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A1	BK-BK05-PEDCO-110-CV-DW-0001	6 OF 52	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	6	D00

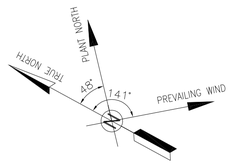
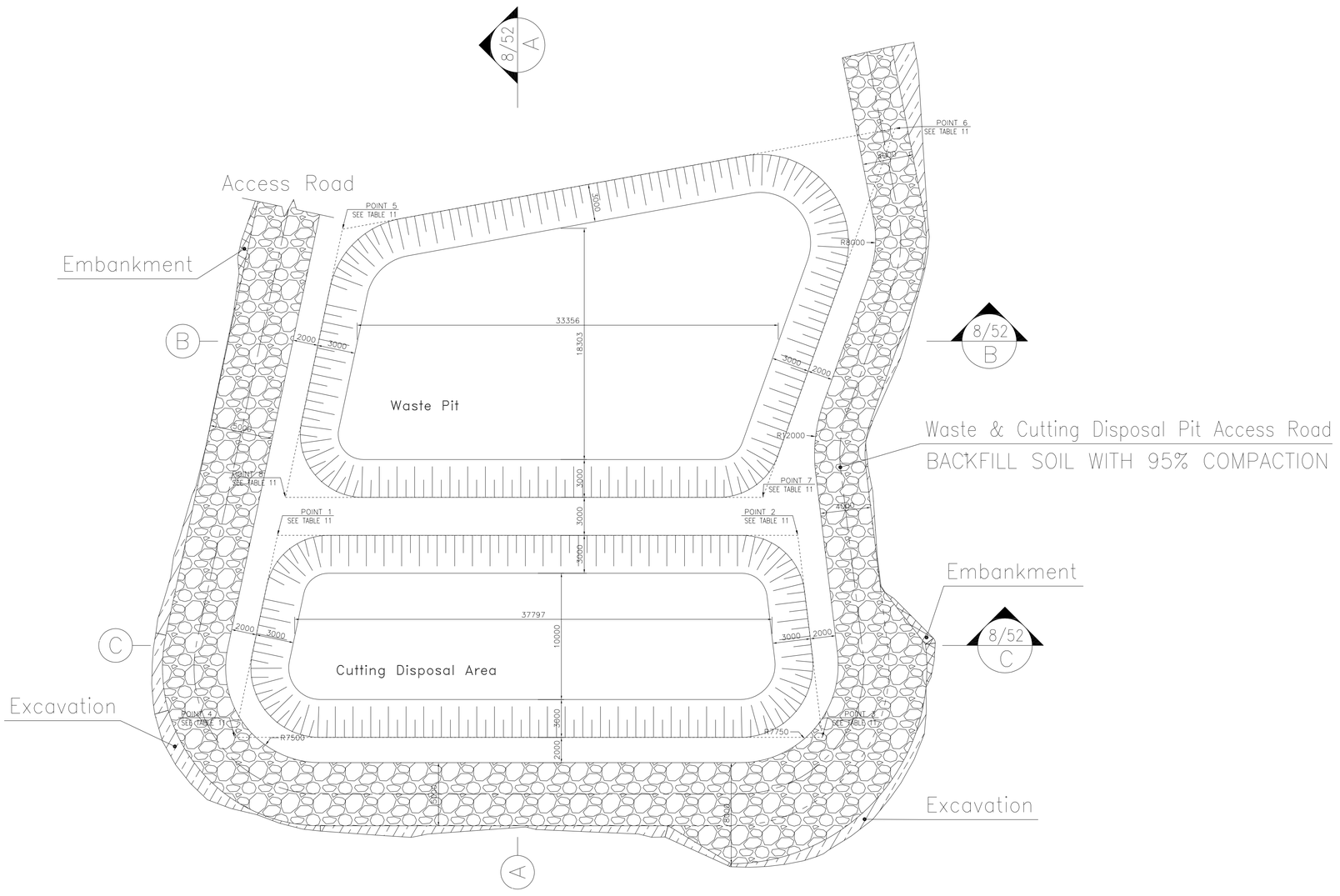


TABLE 11 (CORNERS COORDINATES)		
Point 1	E=441632.049	N=3286504.561
Point 2	E=441651.768	N=3286468.369
Point 3	E=441638.649	N=3286459.007
Point 4	E=441616.374	N=3286499.889
Point 5	E=441655.792	N=3286511.638
Point 6	E=441683.743	N=3286477.021
Point 7	E=441653.082	N=3286472.229
Point 8	E=441634.988	N=3286505.437



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VERTICAL DATUM:	MSL

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±0.00 = +58.72(R.G.L.)MSL

LEGEND AND ABBREVIATION

	REINFORCED CONCRETE		SUB GRADE
	LEAN CONCRETE		SLOPE
	CEMENT BLOCK WALL		EXISTING CONCRETE AREA
	GRAVEL		
T.O.F.	TOP OF FOUNDATION		Excavation
T.O.W.	TOP OF WALL		Embankment
T.O.C.	TOP OF CONCRETE		
T.O.PIT	TOP OF PIT		
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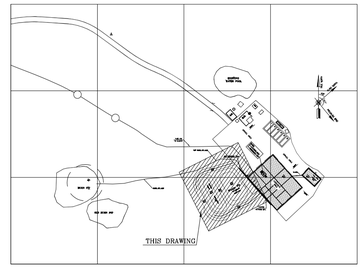
KEY PLAN



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

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**

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PROJECT NAME:	BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.:	971020
EPC CONTRACTOR:	HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR(GC):	PETROIRAN DEVELOPMENT COMPANY (PEDCO)
DRAWING TITLE:	CIVIL AND STRUCTURAL DRAWINGS-BK05 BURN PIT PLAN-SECTIONS

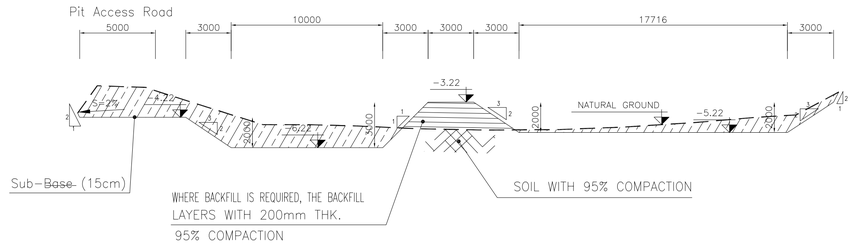
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

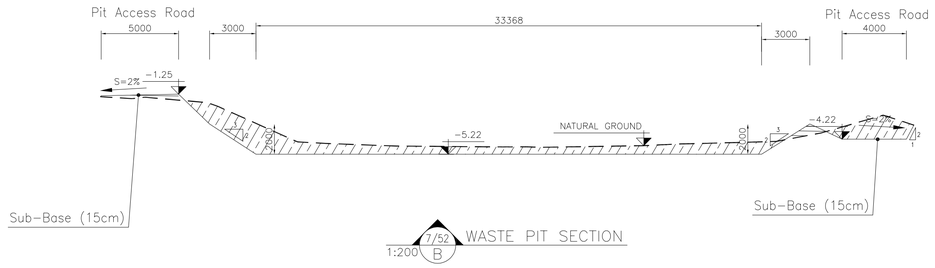
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

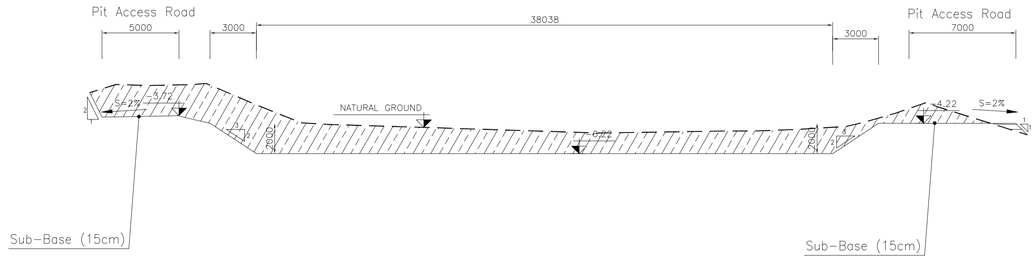
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
AS SHOWN	A1	BK-BK05-PEDCO-110-CV-DW-0001	7 OF 52	D00	053-073-9184	F	4	S	708459	7	D00



7/52 A 1:200 WASTE PIT & CUTTING DISPOSAL AREA SECTION



7/52 B 1:200 WASTE PIT SECTION



7/52 C 1:200 CUTTING DISPOSAL AREA SECTION

Cut/Fill Summary

Name	Cut Factor	Fill Factor	Cut	Fill
ROUGH GRADING (WastePIT & Cutting Disposal Area -BK05)	**1.000**	**1.000**	3231.50 Cu.M.	325.91 Cu.M.
			TOTAL=3557.41 Cu.M.	

Cut and Fill Volume Table for Waste Pit & Cutting Disopsal Area

NOTES

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VERTICAL DATUM:	MSL

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±0.00 = +58.72(R.G.L.)MSL

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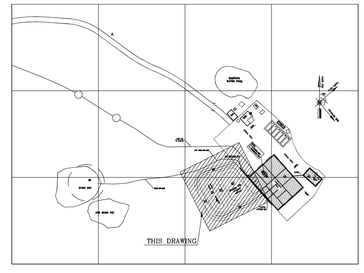
KEY PLAN



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

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**

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PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES
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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

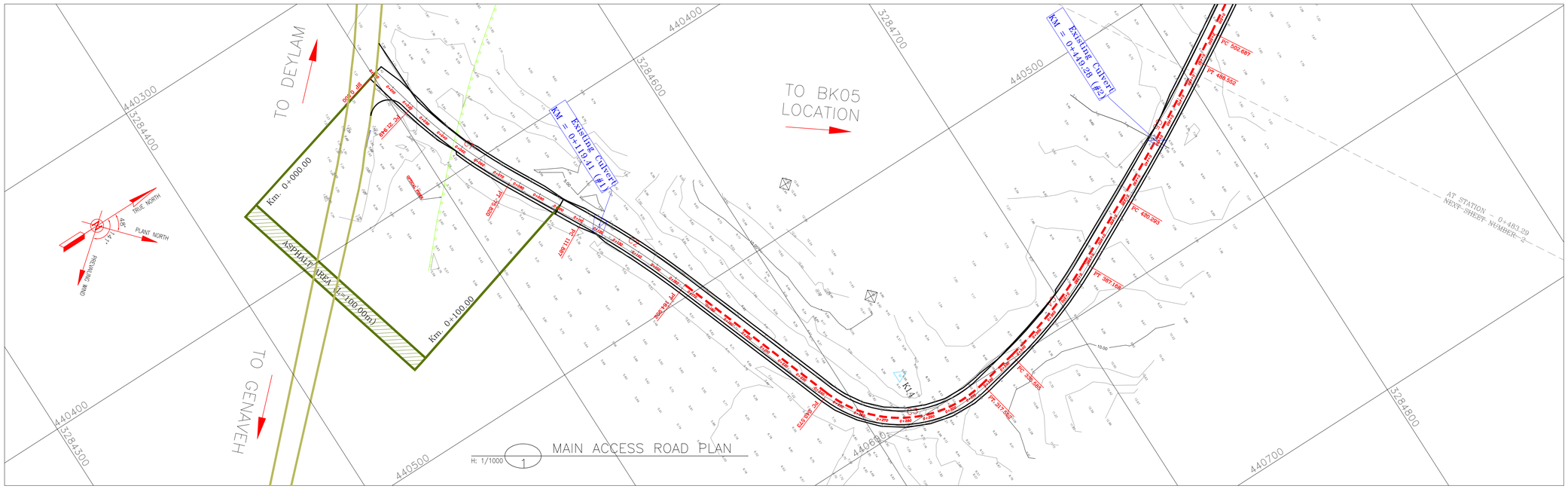
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK05
BURN PIT PLAN-SECTIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
APPROVED FOR CONSTRUCTION | BY: | DATE:

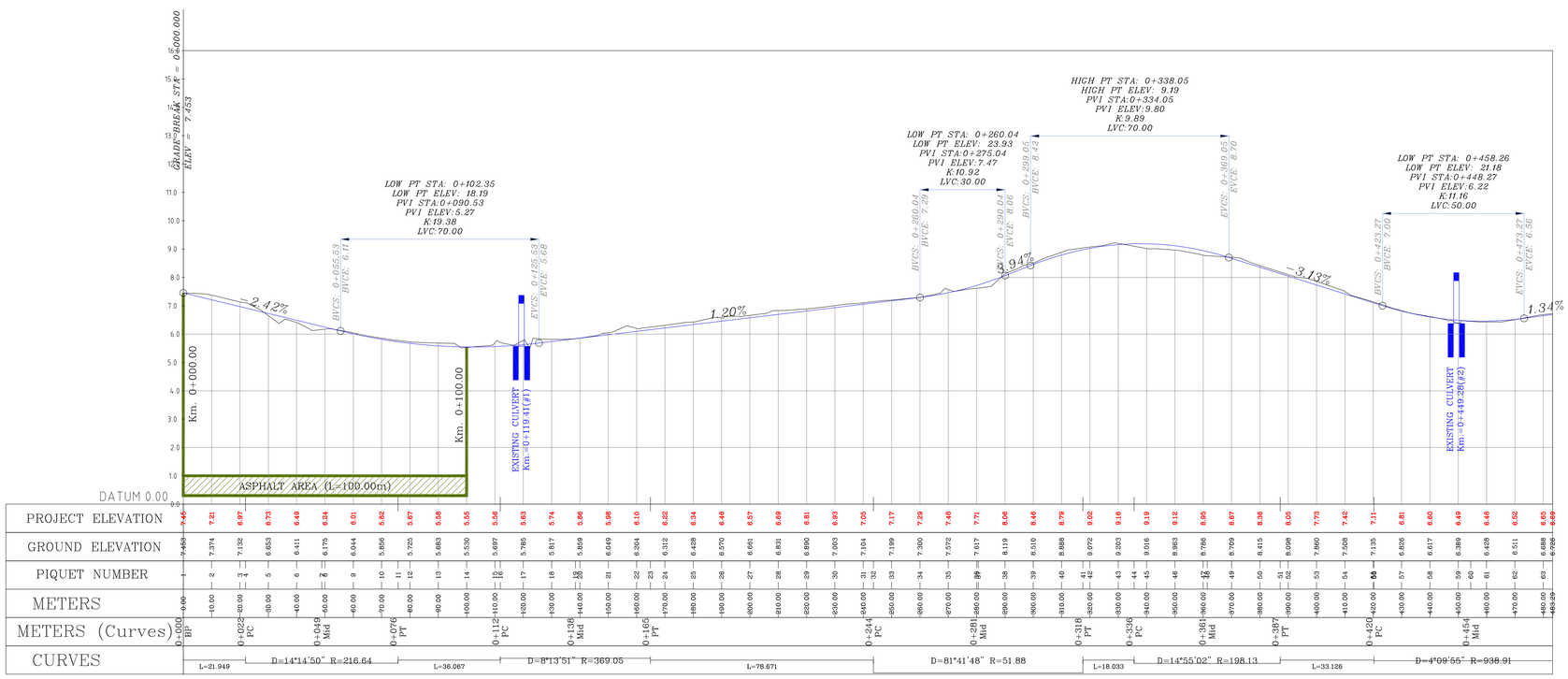
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A1	BK-BK05-PEDCO-110-CV-DW-0001	8 OF 52	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	8	D00



MAIN ACCESS ROAD PLAN

H: 1/1000 (1)



MAIN ACCESS ROAD PROFILE

H: 1/1000
V: 1/100

(2)

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:	MSL

4-THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

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

6-RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.

7-PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001

8-THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

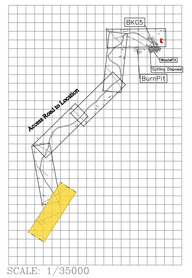
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK05	BK-BK05-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK05	BK-BK05-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK05	BK-BK05-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK05	BK-BK05-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK05	BK-BK05-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



SCALE: 1/35000

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C1	216.64	53.87	N68° 51' 03.95"E	(440365.00,3284507.51)	(440415.11,3284526.89)
C2	369.05	53.01	N65° 50' 34.25"E	(440446.87,3284543.98)	(440495.21,3284565.65)
C3	51.88	73.98	N29° 06' 35.72"E	(440569.11,3284592.61)	(440602.13,3284651.91)
C4	198.13	51.58	N19° 11' 48.92"W	(440598.46,3284669.57)	(440581.55,3284718.14)
C5	938.91	68.26	N28° 44' 17.38"W	(440566.69,3284747.75)	(440533.87,3284807.59)

Station	Northing	Easting
0+000.00	3284502.19	440343.70
0+010.00	3284504.61	440353.40
0+020.00	3284507.03	440363.11
0+030.00	3284509.60	440372.77
0+040.00	3284512.60	440382.31
0+050.00	3284516.04	440391.70
0+060.00	3284519.91	440400.92
0+070.00	3284524.20	440409.95
0+080.00	3284528.87	440418.79
0+090.00	3284533.61	440427.60
0+100.00	3284538.35	440436.41
0+110.00	3284543.08	440445.21
0+120.00	3284547.74	440454.06
0+130.00	3284552.16	440463.03
0+140.00	3284556.34	440472.12
0+150.00	3284560.27	440481.31
0+160.00	3284563.94	440490.61
0+170.00	3284567.40	440499.99
0+180.00	3284570.83	440509.39
0+190.00	3284574.25	440518.78
0+200.00	3284577.68	440528.18

Station	Northing	Easting
0+210.00	3284581.11	440537.57
0+220.00	3284584.54	440546.97
0+230.00	3284587.96	440556.36
0+240.00	3284591.39	440565.76
0+250.00	3284595.18	440575.00
0+260.00	3284600.57	440583.40
0+270.00	3284607.47	440589.62
0+280.00	3284615.63	440596.39
0+290.00	3284624.73	440600.48
0+300.00	3284634.45	440602.75
0+310.00	3284644.43	440603.12
0+320.00	3284654.31	440601.63
0+330.00	3284664.10	440599.60
0+340.00	3284673.88	440597.51
0+350.00	3284683.56	440595.02
0+360.00	3284693.11	440592.04
0+370.00	3284702.49	440588.58
0+380.00	3284711.68	440584.65
0+390.00	3284720.68	440580.28
0+400.00	3284729.61	440575.79

Station	Northing	Easting
0+410.00	3284738.55	440571.30
0+420.00	3284747.49	440566.82
0+430.00	3284756.40	440562.29
0+440.00	3284765.27	440557.66
0+450.00	3284774.08	440552.94
0+460.00	3284782.85	440548.13
0+470.00	3284791.56	440543.22
0+480.00	3284800.22	440538.22

Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5-BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6-BK5	441552.844	3286457.422	63.624
GPS1-BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK05
ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK05-PEDCO-110-CV-DW-0001	9 OF 52	D00

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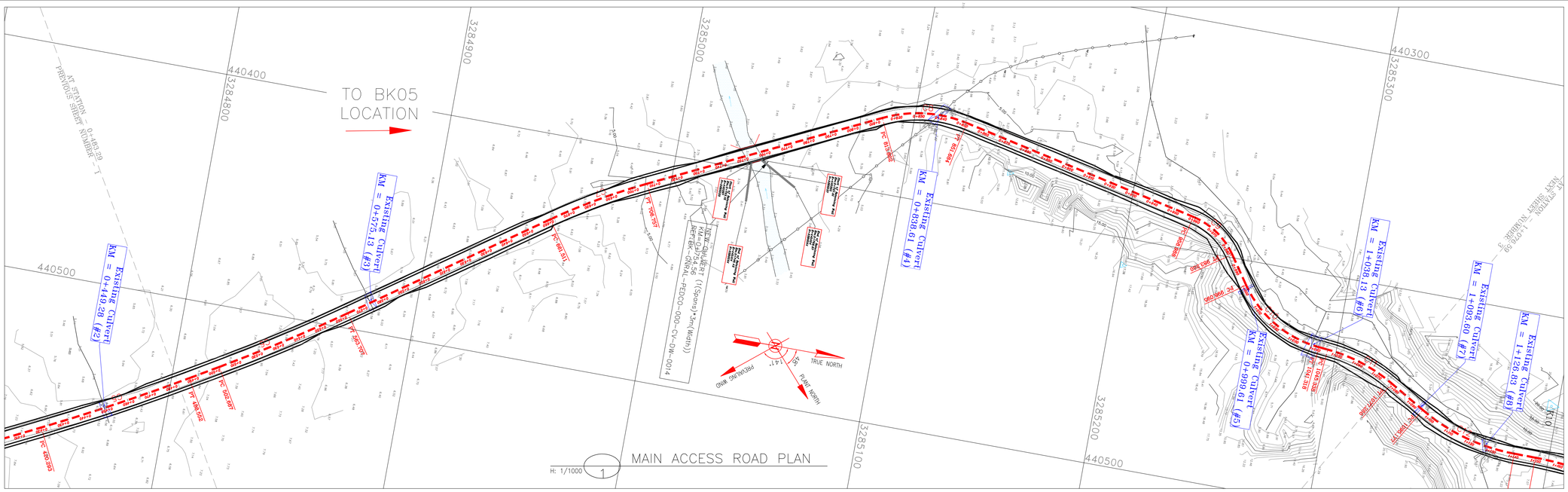
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

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	S	708459	9	D00


TO BK05 LOCATION
AT STATION 0+480.29 PREVIOUS SHEET NUMBER : 1
NEXT SHEET NUMBER : 3
440400
440500
440300
3284800
3284900
3285000
3285100
3285200
3285300
KM = 0+449.92 Existing Culvert (#2)
KM = 0+576.13 Existing Culvert (#3)
KM = 0+638.19 Existing Culvert (#4)
KM = 0+999.61 Existing Culvert (#7)
KM = 1+028.13 Existing Culvert (#8)
KM = 1+126.83 Existing Culvert (#9)
EXISTING CULVERT (1Span(s)*3m(Width)) KM=0+754.56 REF:BK-GNRAL-PEDCO-000-CV-DW-0014
PC 526.493
PT 586.556
PC 647.487
PT 706.787
PC 838.966
PT 898.647
PC 1060.958
PT 1120.518
PC 1247.966
PT 1307.526
PC 1428.647
PT 1488.207
PC 1549.127
PT 1608.687
PC 1729.807
PT 1789.367
PC 1850.287
PT 1909.847
PC 2030.967
PT 2090.527
PC 2151.447
PT 2211.007
PC 2332.127
PT 2391.687
PC 2452.607
PT 2512.167
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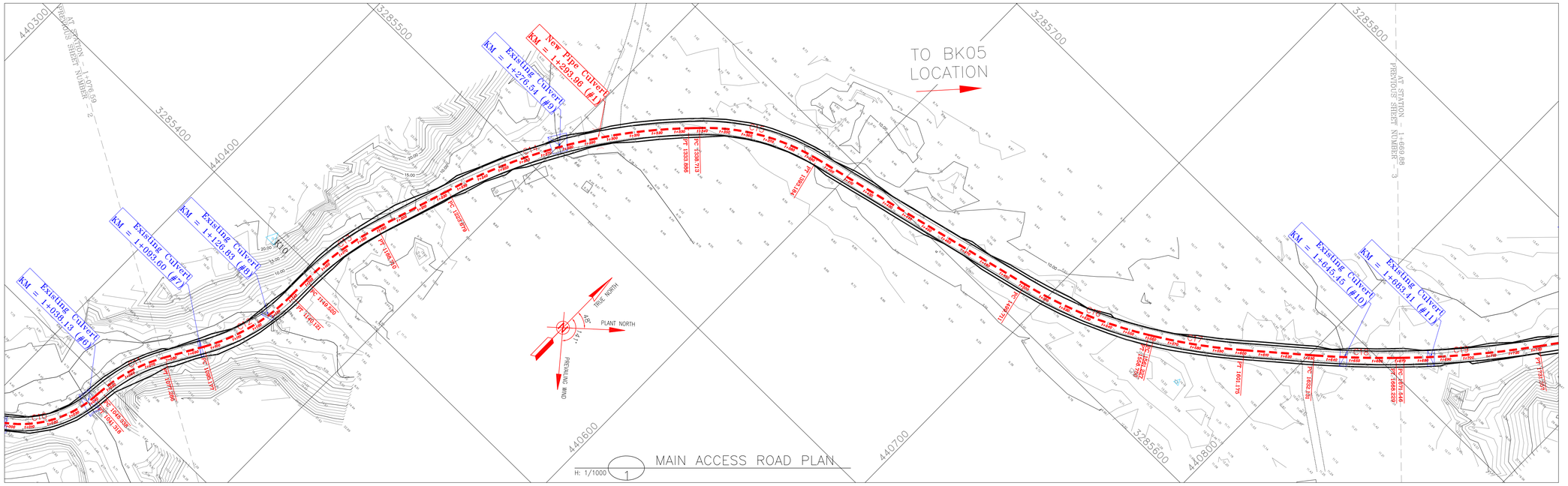
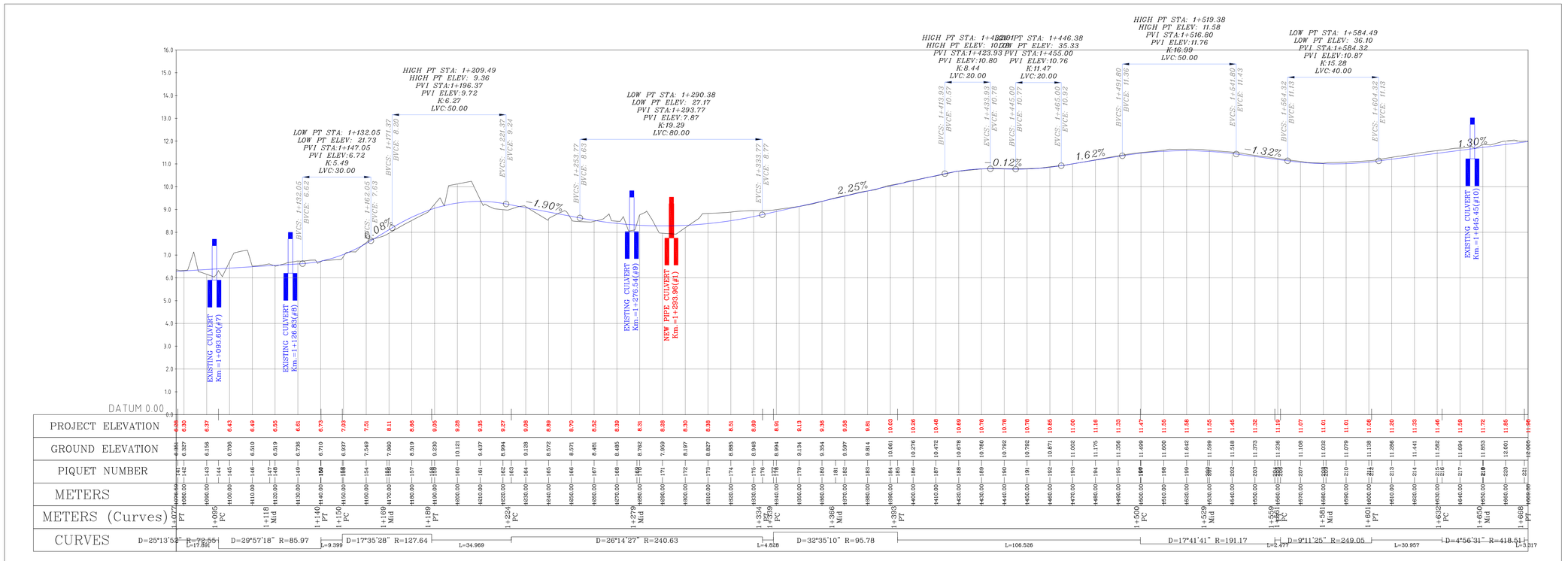
PT 2813.327
PC



H: 1/1000

1 MAIN ACCESS ROAD PLAN



H: 1/1000
V: 1/100

2 MAIN ACCESS ROAD PROFILE

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: MSL
4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.
5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

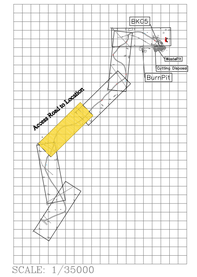
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER / POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK05	BK-BK05-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK05	BK-BK05-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report - BK05	BK-BK05-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK05	BK-BK05-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK05	BK-BK05-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



SCALE: 1/35000

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C12	85.97	44.94	N15° 12' 13.76"E	(440450.66,3285341.95)	(440462.32,3285384.83)
C13	127.64	39.19	N9° 01' 18.61"E	(440462.35,3285394.23)	(440468.47,3285432.78)
C14	240.63	110.21	N30° 56' 16.21"E	(440479.17,3285466.07)	(440535.34,3285559.77)
C15	95.78	54.47	N60° 21' 04.94"E	(440538.70,3285563.24)	(440585.40,3285589.83)
C16	191.17	59.04	N67° 47' 49.57"E	(440689.05,3285614.43)	(440743.49,3285636.66)
C17	249.05	39.95	N54° 21' 16.57"E	(440745.61,3285637.93)	(440778.04,3285661.19)
C18	418.51	36.10	N47° 17' 18.58"E	(440801.67,3285681.19)	(440828.19,3285705.66)

Station	Northing	Easting
1+080.00	3285328.83	440443.03
1+090.00	3285337.47	440448.06
1+100.00	3285346.18	440452.97
1+110.00	3285355.34	440456.98
1+120.00	3285364.90	440459.89
1+130.00	3285374.73	440461.68
1+140.00	3285384.71	440462.32
1+150.00	3285394.71	440462.36
1+160.00	3285404.69	440462.82
1+170.00	3285414.61	440464.07
1+180.00	3285424.40	440466.09
1+190.00	3285434.01	440468.87
1+200.00	3285443.53	440471.93
1+210.00	3285453.05	440474.99
1+220.00	3285462.57	440478.05
1+230.00	3285472.06	440481.19
1+240.00	3285481.43	440484.69
1+250.00	3285490.64	440488.58
1+260.00	3285499.68	440492.85
1+270.00	3285508.54	440497.49
1+280.00	3285517.19	440502.50

Station	Northing	Easting
1+290.00	3285525.64	440507.86
1+300.00	3285533.85	440513.56
1+310.00	3285541.81	440519.61
1+320.00	3285549.52	440525.98
1+330.00	3285556.96	440532.66
1+340.00	3285564.16	440539.60
1+350.00	3285570.87	440547.00
1+360.00	3285576.78	440555.07
1+370.00	3285581.81	440563.71
1+380.00	3285585.91	440572.82
1+390.00	3285589.04	440582.31
1+400.00	3285591.40	440592.03
1+410.00	3285593.71	440601.76
1+420.00	3285596.02	440611.49
1+430.00	3285598.33	440621.22
1+440.00	3285600.64	440630.95
1+450.00	3285602.95	440640.68
1+460.00	3285605.26	440650.41
1+470.00	3285607.57	440660.14
1+480.00	3285609.88	440669.87

Station	Northing	Easting
1+490.00	3285612.19	440679.60
1+500.00	3285614.50	440689.33
1+510.00	3285617.08	440698.99
1+520.00	3285620.16	440708.50
1+530.00	3285623.73	440717.84
1+540.00	3285627.79	440726.98
1+550.00	3285632.32	440735.89
1+560.00	3285637.30	440744.56
1+570.00	3285642.59	440753.05
1+580.00	3285648.21	440761.32
1+590.00	3285654.16	440769.35
1+600.00	3285660.43	440777.14
1+610.00	3285666.89	440784.78
1+620.00	3285673.35	440792.41
1+630.00	3285679.81	440800.04
1+640.00	3285686.33	440807.63
1+650.00	3285693.02	440815.06
1+660.00	3285699.88	440822.33

Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5-BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6-BK5	441552.844	3286457.422	63.624
GPS1-BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
APPROVED FOR CONSTRUCTION | BY: | DATE:

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK05
ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK05-PEDCO-110-CV-DW-0001	11 OF 52	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
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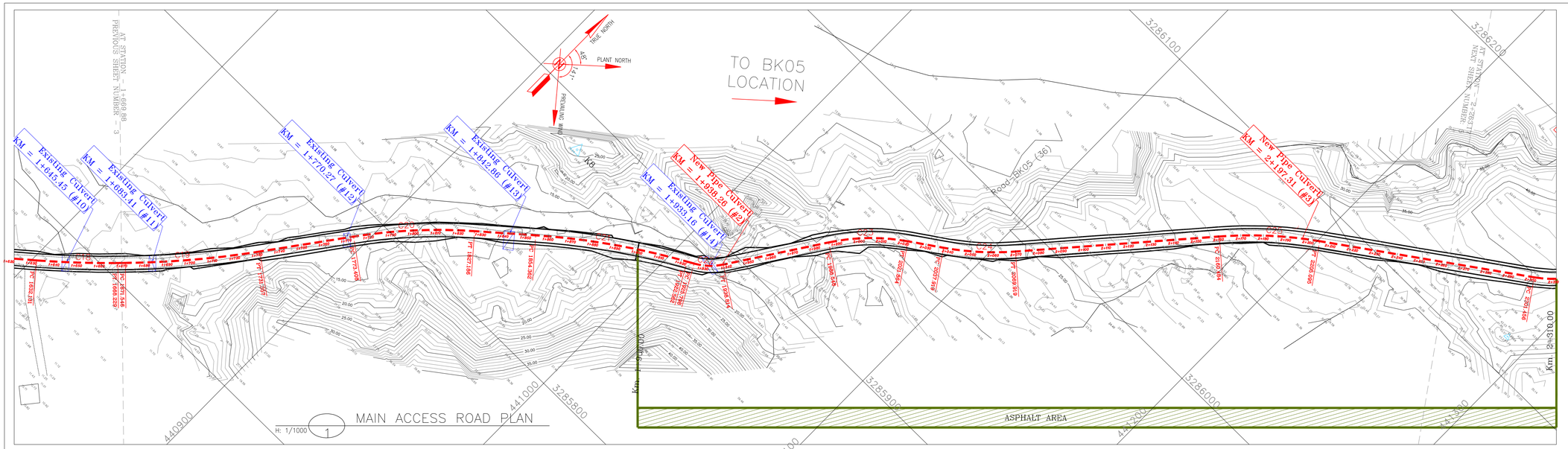

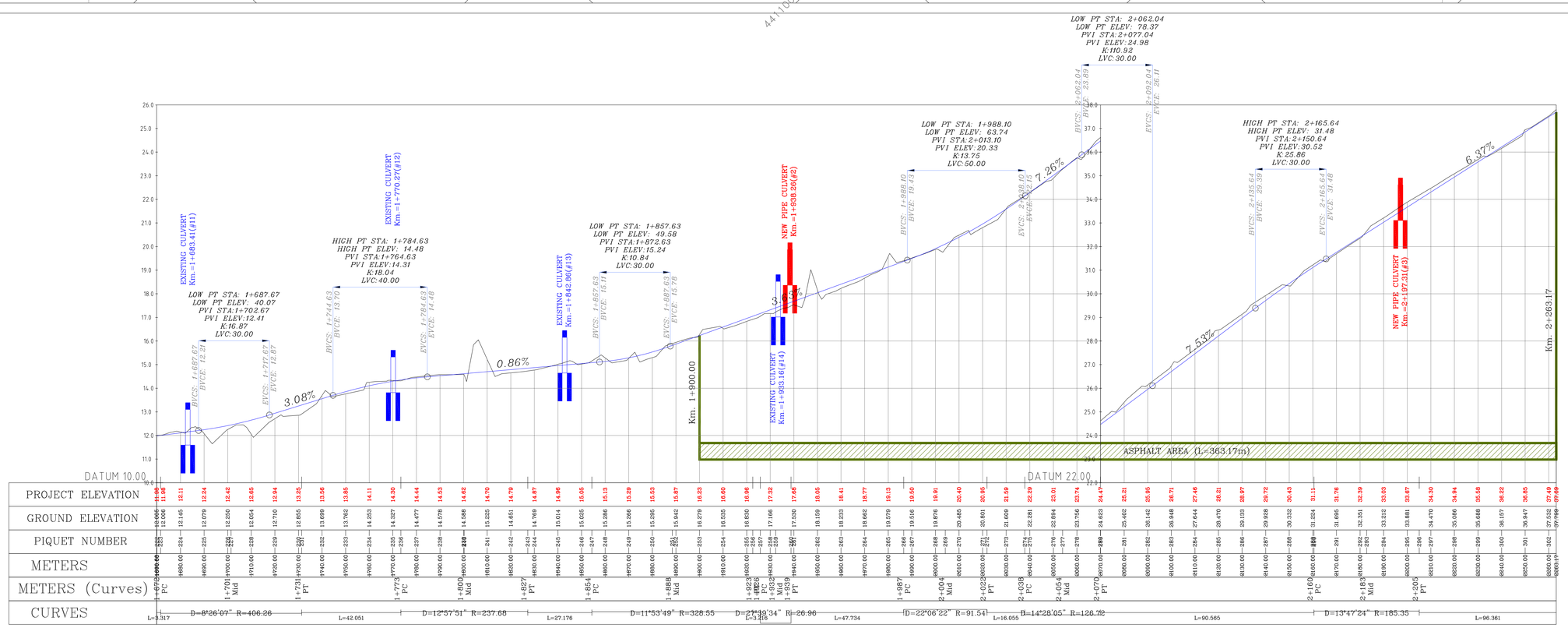

MAIN ACCESS ROAD PROFILE

H: 1/1000
V: 1/100
2

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ELLIPSOID : WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (UTM)
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8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER / POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK05	BK-BK05-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK05	BK-BK05-PEDCO-110-CV-PY-0003
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Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK05	BK-BK05-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK05	BK-BK05-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile–BK05	BK-BK05-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VERTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
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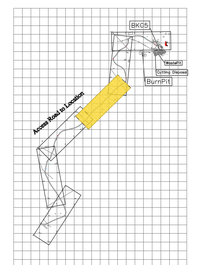
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C19	406.26	59.81	N40° 35' 59.60"E	(440830.52,3285708.02)	(440869.41,3285753.39)
C20	237.68	53.78	N42° 51' 51.36"E	(440894.36,3285787.24)	(440930.86,3285826.58)
C21	328.55	68.22	N55° 17' 41.01"E	(440951.48,3285844.28)	(441007.46,3285883.05)
C22	26.96	13.02	N47° 24' 48.54"E	(441010.28,3285884.60)	(441019.77,3285893.32)
C23	91.54	35.32	N44° 38' 12.63"E	(441046.17,3285933.09)	(441070.83,3285958.06)
C24	126.72	32.00	N48° 27' 21.15"E	(441084.10,3285967.11)	(441107.98,3285988.28)
C25	185.35	44.61	N48° 07' 00.51"E	(441167.66,3286056.40)	(441200.80,3286086.11)

Station	Northing	Easting
1+670.00	3285706.92	440829.43
1+680.00	3285714.08	440836.42
1+690.00	3285721.40	440843.23
1+700.00	3285728.89	440849.86
1+710.00	3285736.54	440856.30
1+720.00	3285744.34	440862.55
1+730.00	3285752.30	440868.61
1+740.00	3285760.35	440874.54
1+750.00	3285768.40	440880.47
1+760.00	3285776.45	440886.40
1+770.00	3285784.50	440892.33
1+780.00	3285792.50	440898.34
1+790.00	3285800.25	440904.66
1+800.00	3285807.73	440911.29
1+810.00	3285814.92	440918.24
1+820.00	3285821.81	440925.48
1+830.00	3285828.41	440933.00
1+840.00	3285834.93	440940.58
1+850.00	3285841.44	440948.17
1+860.00	3285847.92	440955.79
1+870.00	3285854.18	440963.58

Station	Northing	Easting
1+880.00	3285860.21	440971.56
1+890.00	3285865.99	440979.72
1+900.00	3285871.52	440988.05
1+910.00	3285876.79	440996.55
1+920.00	3285881.80	441005.20
1+930.00	3285886.90	441013.79
1+940.00	3285894.31	441020.43
1+950.00	3285902.64	441025.96
1+960.00	3285910.97	441031.49
1+970.00	3285919.30	441037.02
1+980.00	3285927.63	441042.55
1+990.00	3285935.93	441048.14
2+000.00	3285943.71	441054.41
2+010.00	3285950.76	441061.50
2+020.00	3285957.00	441069.31
2+030.00	3285962.65	441077.56
2+040.00	3285968.30	441085.81
2+050.00	3285974.39	441093.74
2+060.00	3285981.08	441101.16
2+070.00	3285988.34	441108.04
2+080.00	3285995.86	441114.63

Station	Northing	Easting
2+090.00	3286003.38	441121.22
2+100.00	3286010.91	441127.81
2+110.00	3286018.43	441134.40
2+120.00	3286025.95	441140.99
2+130.00	3286033.47	441147.57
2+140.00	3286040.99	441154.16
2+150.00	3286048.51	441160.75
2+160.00	3286056.04	441167.34
2+170.00	3286063.56	441174.11
2+180.00	3286070.38	441181.27
2+190.00	3286076.96	441188.80
2+200.00	3286083.13	441196.66
2+210.00	3286088.92	441204.81
2+220.00	3286094.66	441213.01
2+230.00	3286100.39	441221.20
2+240.00	3286106.13	441229.39
2+250.00	3286111.86	441237.59
2+260.00	3286117.59	441245.78

Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5-BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6-BK5	441552.844	3286457.422	63.624
GPS1-BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK05 ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK05-PEDCO-110-CV-DW-0001	12 OF 52	D00

REV.	DESCRIPTION	BY	DATE	BY	DATE
***	**********	**.**	***.****	**.**	***.****

أصل و كليه نسخ اين نقشه و حق اقتباس متعلق به شركت ملي مناطق نفت خيز جنوب ميباشد.

THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS

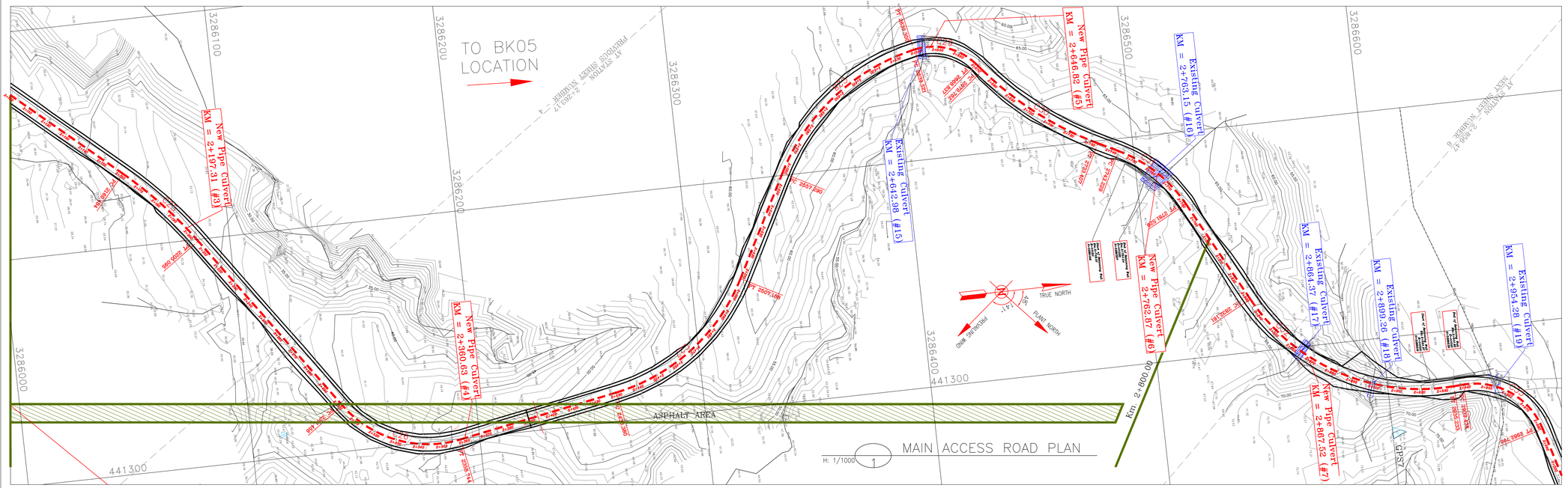
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

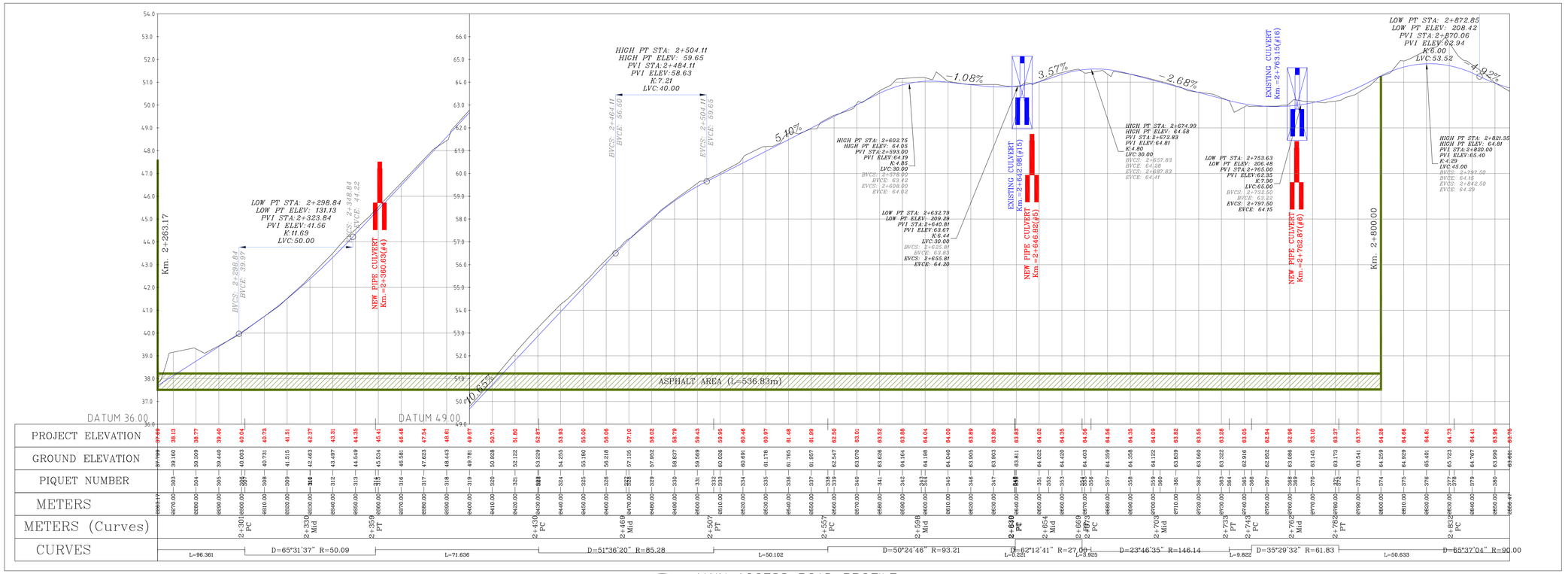
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

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	S	708459	12	D00





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	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
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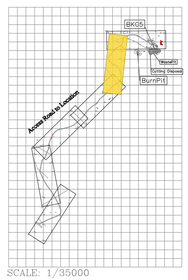
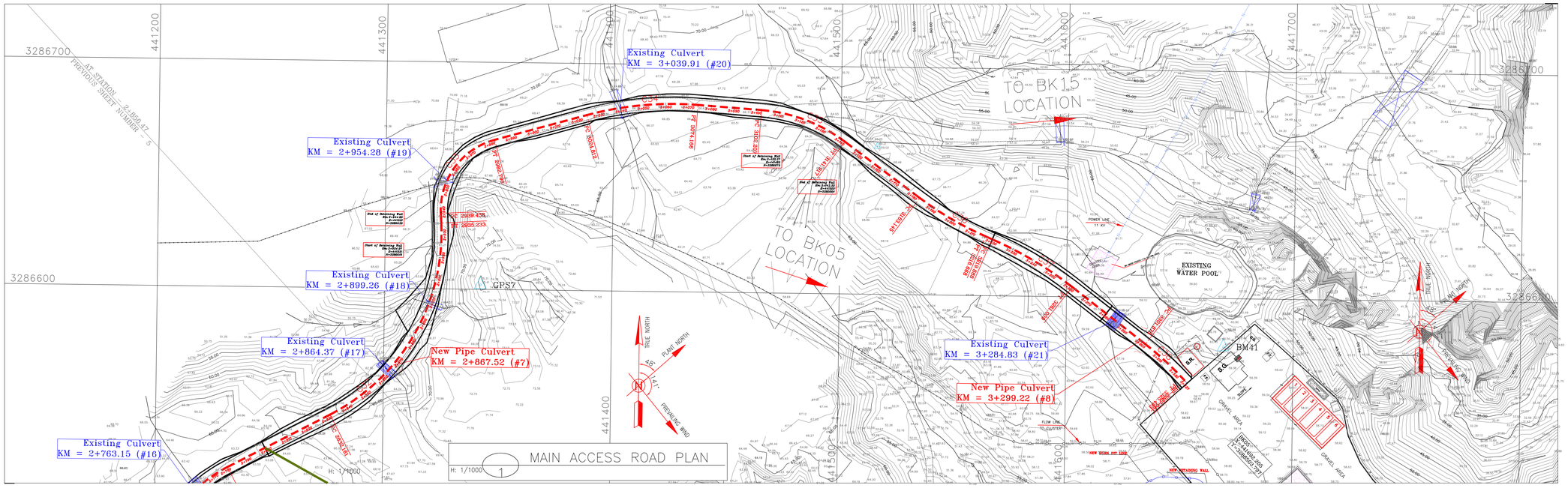
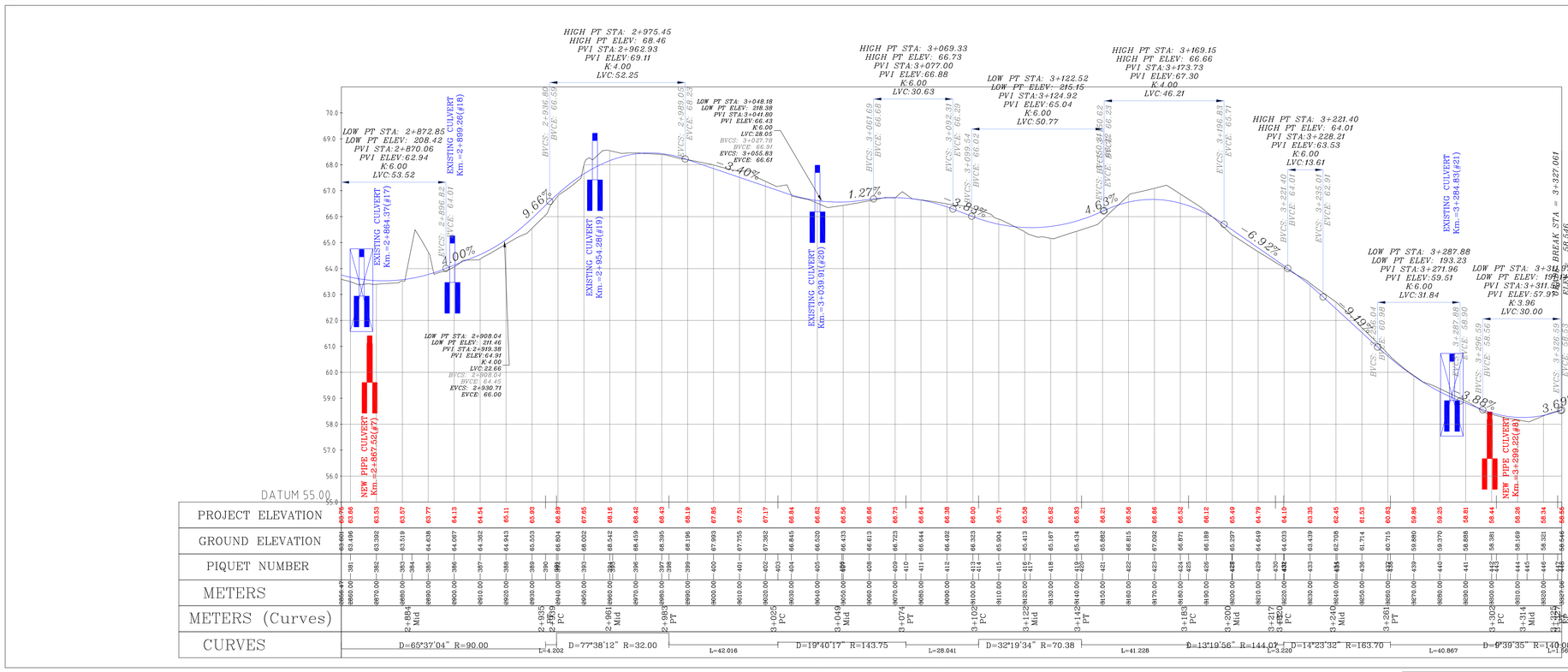
KEY PLAN







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	ASPHALT ROAD		RIVER
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	DAYLIGHT		CAMP SITE
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	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

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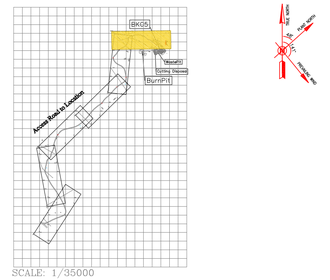

SCALE: 1/35000

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C33	32.00	43.36	N35° 25' 11.11"E	(441324.35,3286633.19)	(441347.60,3286665.89)
C34	143.75	49.35	N84° 04' 25.44"E	(441388.03,3286677.30)	(441436.88,3286682.37)
C35	70.38	39.71	S69° 55' 39.18"E	(441464.86,3286680.46)	(441501.66,3286667.01)
C36	144.07	33.52	S60° 25' 50.17"E	(441534.92,3286642.64)	(441564.01,3286626.13)
C37	163.70	41.12	S59° 54' 01.87"E	(441566.98,3286624.88)	(441602.46,3286604.31)
C38	140.08	23.62	S47° 52' 27.96"E	(441634.97,3286579.55)	(441652.46,3286563.73)

Station	Northing	Easting
2+860.00	3286560.59	441298.95
2+870.00	3286568.09	441305.55
2+880.00	3286576.29	441311.27
2+890.00	3286585.06	441316.06
2+900.00	3286594.32	441319.83
2+910.00	3286603.93	441322.56
2+920.00	3286613.79	441324.21
2+930.00	3286623.77	441324.75
2+940.00	3286633.76	441324.32
2+950.00	3286643.65	441325.46
2+960.00	3286652.72	441329.58
2+970.00	3286660.07	441336.29
2+980.00	3286665.01	441344.94
2+990.00	3286667.84	441354.53
3+000.00	3286670.56	441364.15
3+010.00	3286673.28	441373.78
3+020.00	3286675.99	441383.40
3+030.00	3286678.62	441393.05
3+040.00	3286680.65	441402.84
3+050.00	3286681.99	441412.75
3+060.00	3286682.64	441422.73

Station	Northing	Easting
3+070.00	3286682.60	441432.72
3+080.00	3286681.97	441442.70
3+090.00	3286681.29	441452.68
3+100.00	3286680.61	441462.66
3+110.00	3286679.50	441472.59
3+120.00	3286677.03	441482.27
3+130.00	3286673.21	441491.50
3+140.00	3286668.12	441500.10
3+150.00	3286662.23	441508.18
3+160.00	3286656.32	441516.25
3+170.00	3286650.41	441524.32
3+180.00	3286644.50	441532.38
3+190.00	3286638.72	441540.54
3+200.00	3286633.49	441549.07
3+210.00	3286628.87	441557.93
3+220.00	3286624.84	441567.08
3+230.00	3286620.66	441576.16
3+240.00	3286615.94	441584.98
3+250.00	3286610.68	441593.48
3+260.00	3286604.92	441601.65
3+270.00	3286598.87	441609.61

Station	Northing	Easting
3+280.00	3286592.81	441617.57
3+290.00	3286586.75	441625.52
3+300.00	3286580.69	441633.48
3+310.00	3286574.44	441641.29
3+320.00	3286567.67	441648.64
3+327.06	3286562.58	441653.53

Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5-BK15	441785.148	3287231.638	83.923
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BM41	441669.351	3286578.783	62.854
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GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

REV.	DATE	DESCRIPTION	BY	DATE	BY	DATE
***	**********		**.**	***.****	**.**	***.****
			CHECKED		REV. APPR.	
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK05
ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK05-PEDCO-110-CV-DW-0001	14 OF 52	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.

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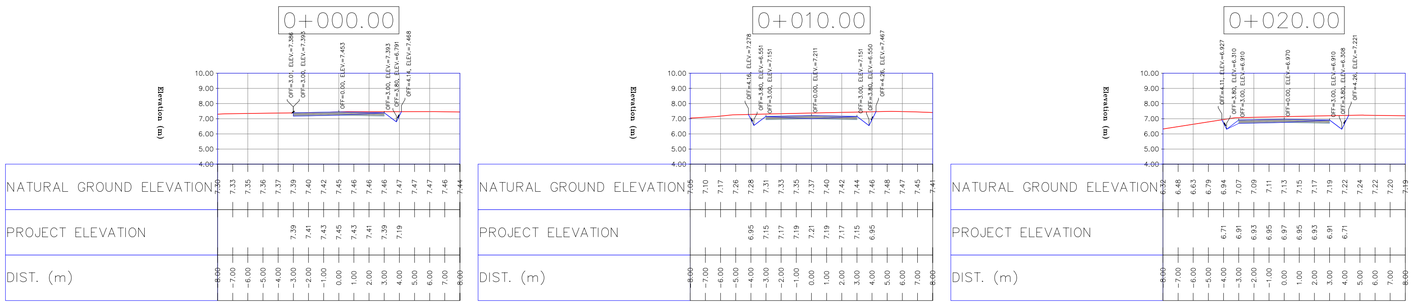
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

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	S	708459	14	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:	MSL

4–THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
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- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK–GNRAL–PEDCO–000–CV–SP–0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

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8–THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK05	BK–BK05–PEDCO–110–CV–PY–0001
Rough Grading Plan–BK05	BK–BK05–PEDCO–110–CV–PY–0003
Specification For Earth Work	BK–GNRAL–PEDCO–000–CV–SP–0004
Standard Drawing For Slope Protection Details	BK–GNRAL–PEDCO–000–CV–DW–0002
Geotechnical Investigation Report – BK05	BK–BK05–PEDCO–110–GT–RT–0001
Specification For Road & Paving	BK–GNRAL–PEDCO–000–CV–SP–0002
MTO For Civil Works – BK05	BK–BK05–PEDCO–110–CV–MT–0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK–GNRAL–PEDCO–000–CV–DW–0014
Over Head Line Plan and Profile–BK05	BK–BK05–PEDCO–110–SU–DW–0001

ABBREVIATION

PT= POINT OF TANGENT
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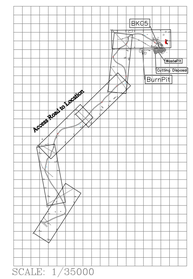
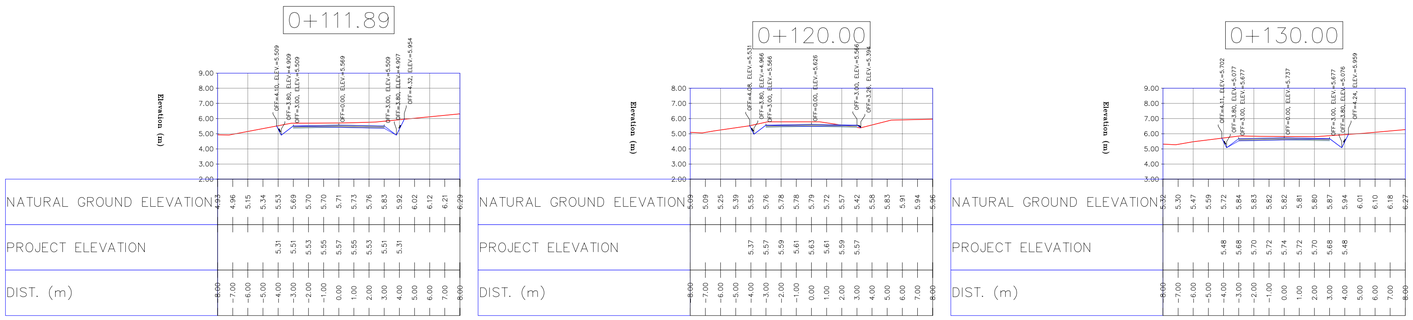
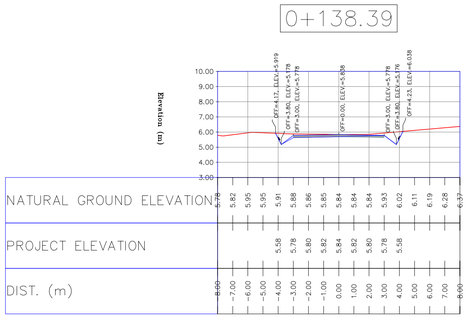
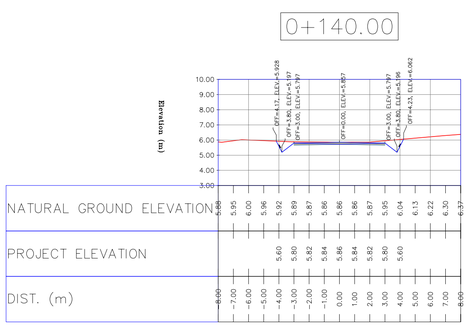
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

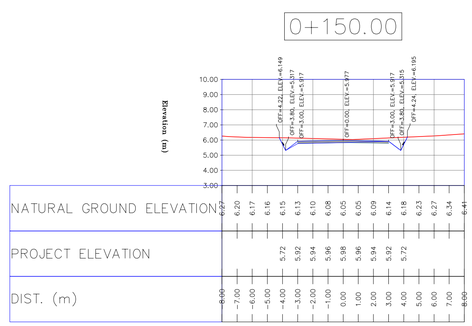
KEY PLAN

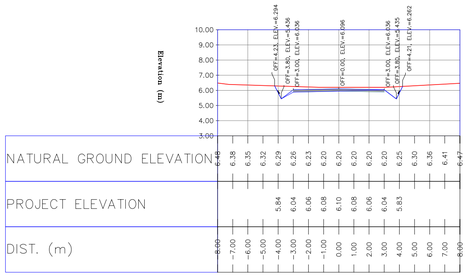

BK05
Access Road to Location
BurnPit1
Flare
Separator
Tanks
Header
Wellhead
Well
Well
Well

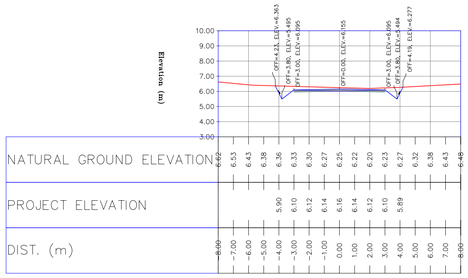


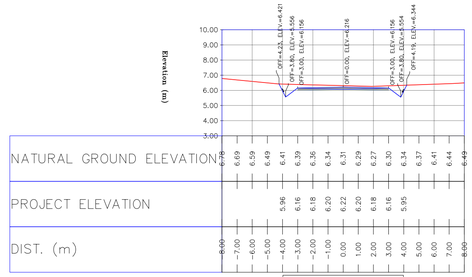


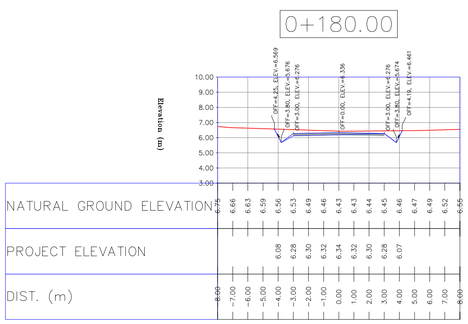


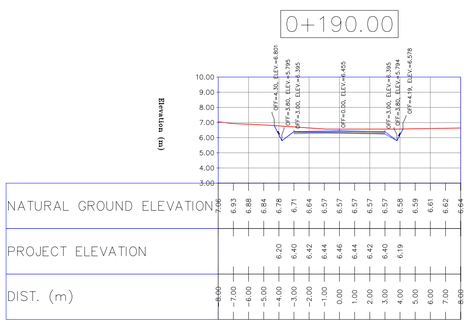


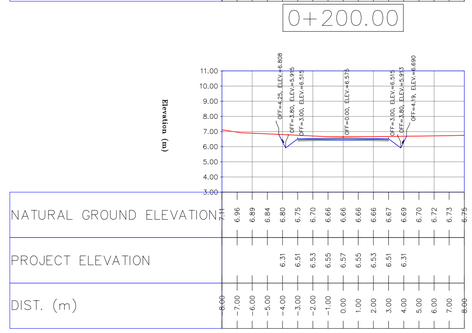












NOTES

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ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

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LEGEND

⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
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	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
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60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
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Rough Grading Plan-BK05	BK-BK05-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
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MTO For Civil Works - BK05	BK-BK05-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
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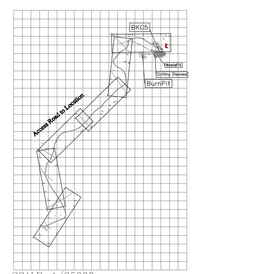
KEY PLAN



SCALE: 1/35000

Coordinate of Bench Marks (UTM-ZONE 39N)

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

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK05
ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	16 OF 52	D00

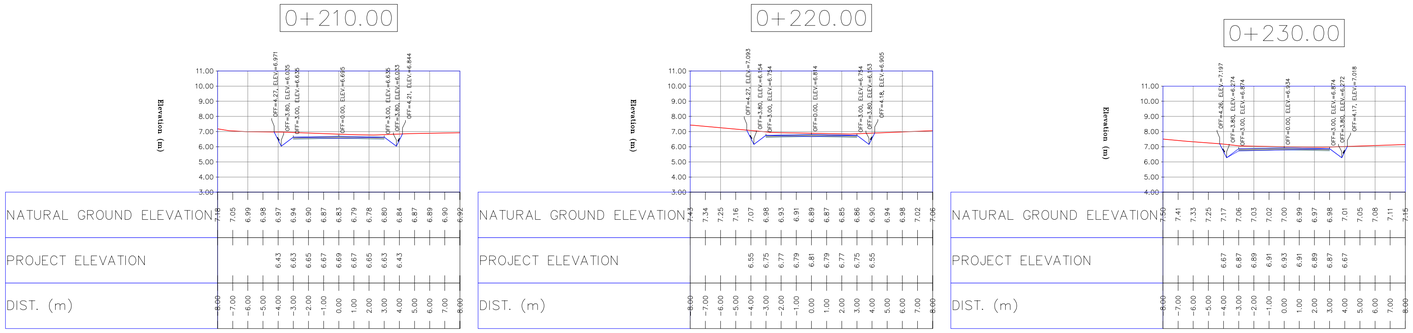
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

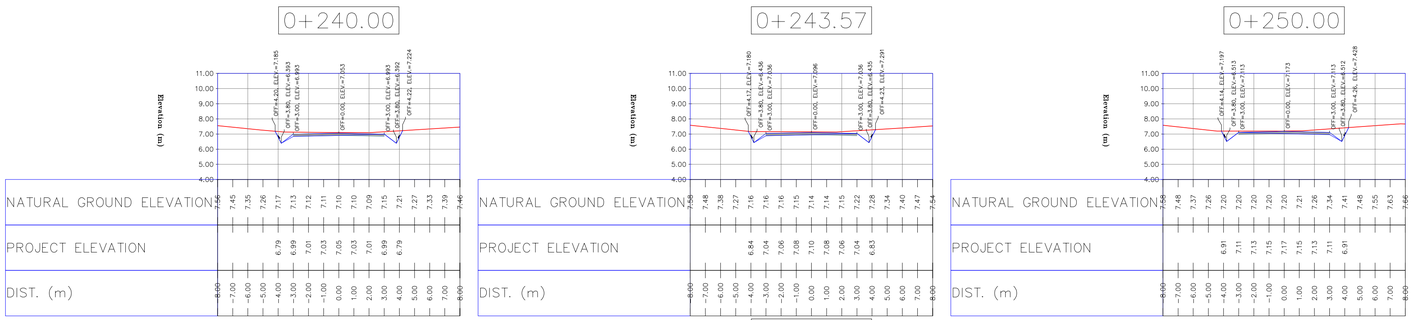
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

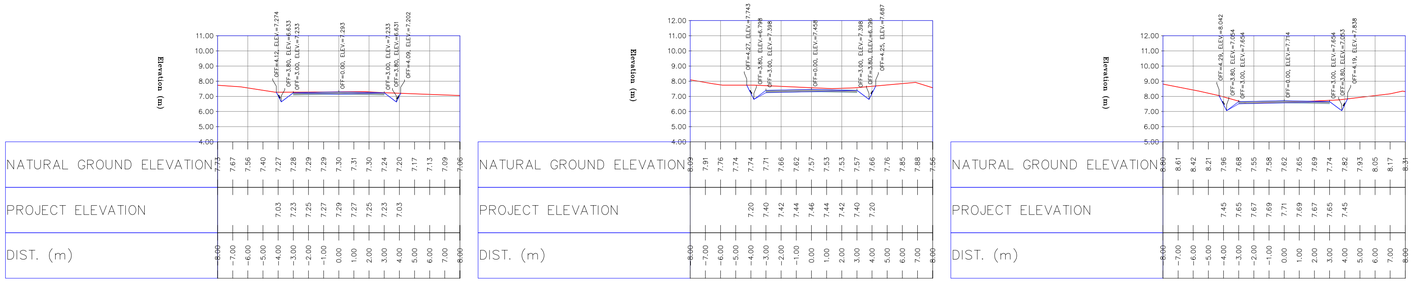
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

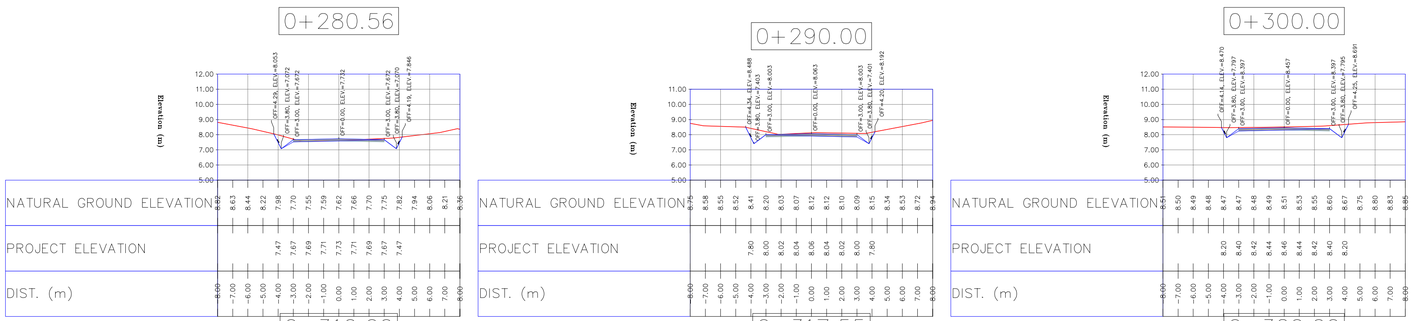
APPROVED FOR CONSTRUCTION	BY:	DATE:

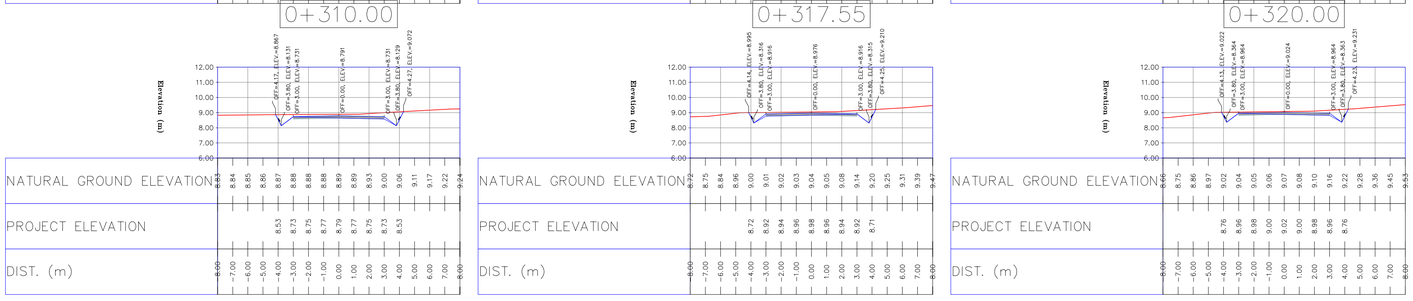
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	16	D00











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LEGEND

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	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
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60 / 50	CONTOURS		EXISTING AREA
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REFERENCE DRAWING	DRG. No.
General Civil Layout -BK05	BK-BK05-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK05	BK-BK05-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report - BK05	BK-BK05-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
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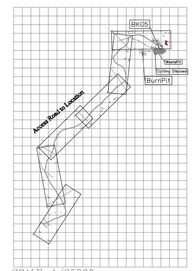
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



SCALE: 1/35000

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.

THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK05
ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	17 OF 52	D00

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
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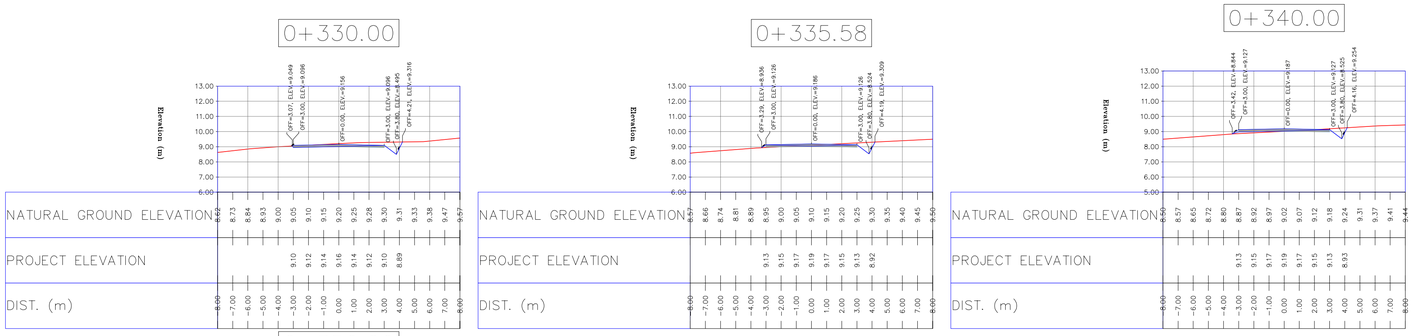
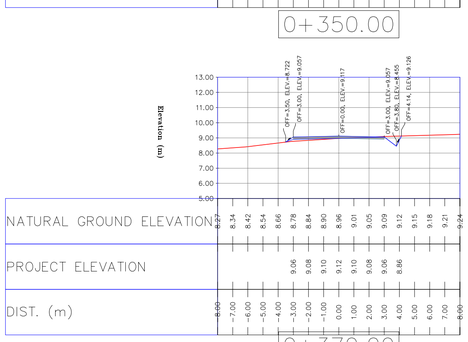
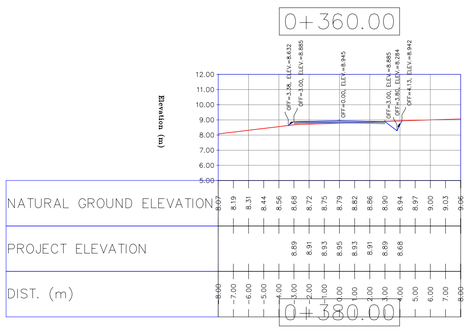
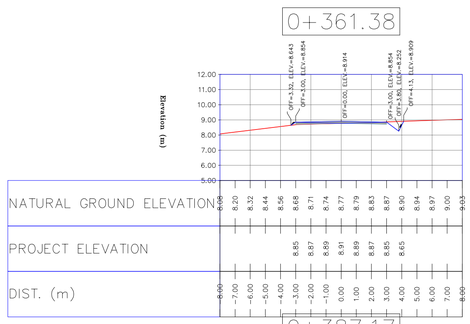
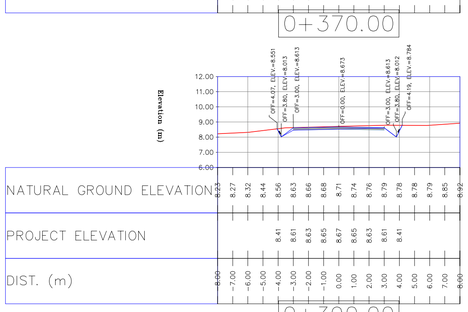
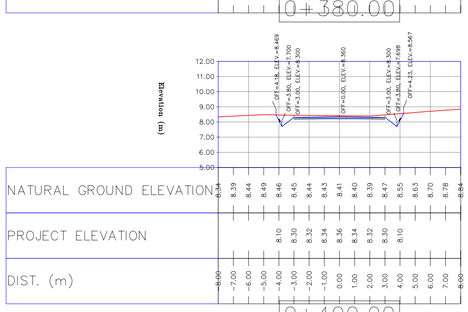


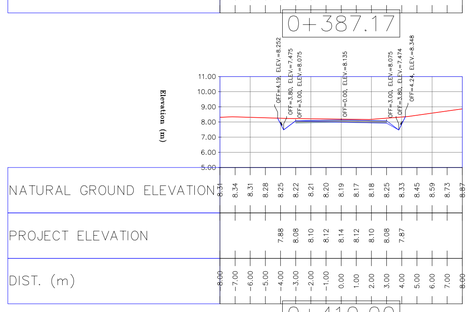


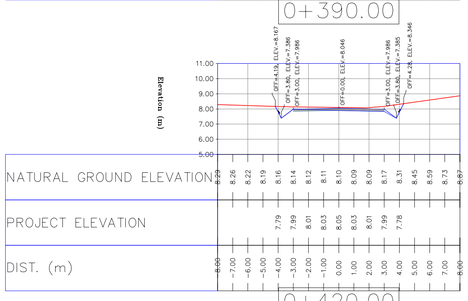


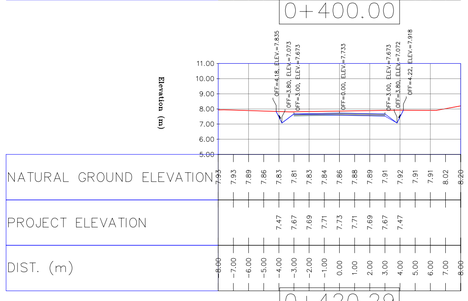


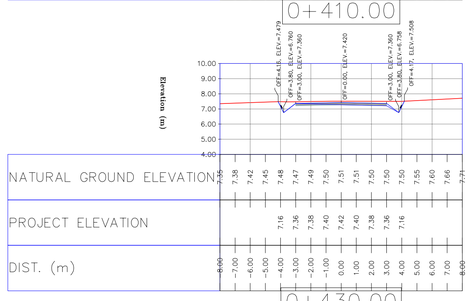


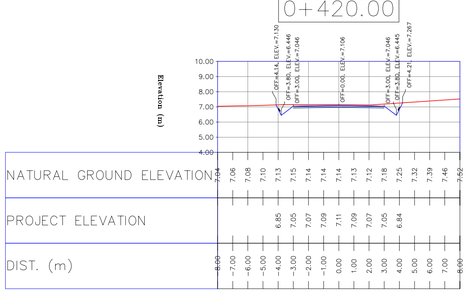


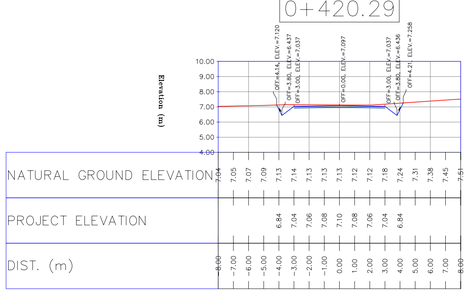


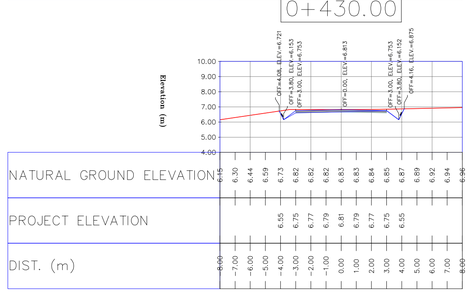












Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5-BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6-BK5	441552.844	3286457.422	63.624
GPS1-BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

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: MSL
4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

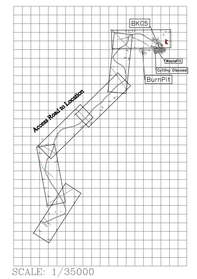
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK05	BK-BK05-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK05	BK-BK05-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK05	BK-BK05-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK05	BK-BK05-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile–BK05	BK-BK05-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VERTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



REV.	DESCRIPTION	BY / CHECKED	DATE / REV. APPR.	BY	DATE
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.PAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK05
ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	18 OF 52	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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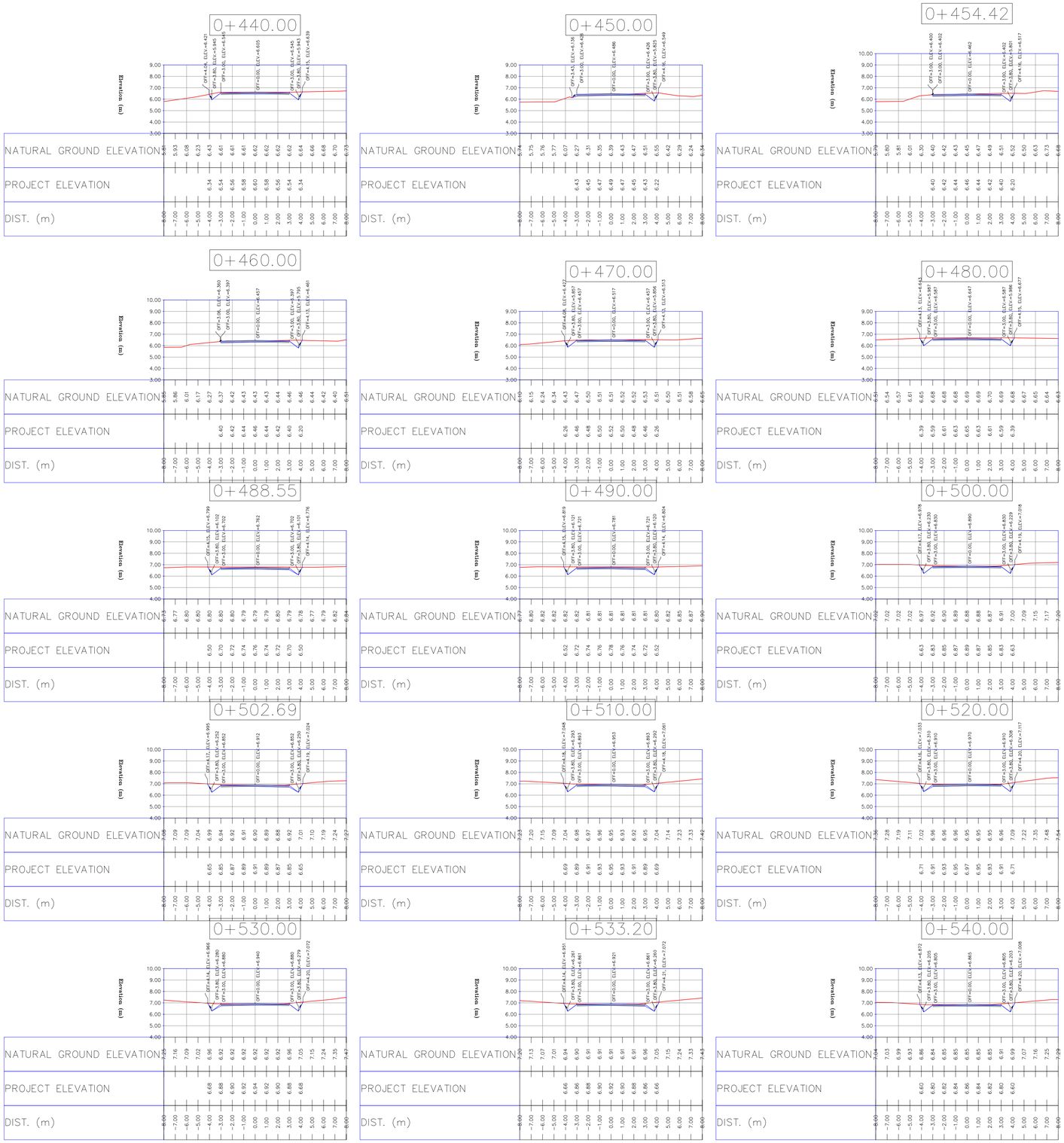
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

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	S	708459	18	D00



NOTES

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HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

4–THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
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- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK–GNRAL–PEDCO–000–CV–SP–0004".
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8–THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
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60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK05	BK–BK05–PEDCO–110–CV–PY–0001
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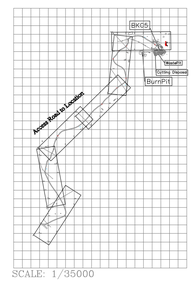
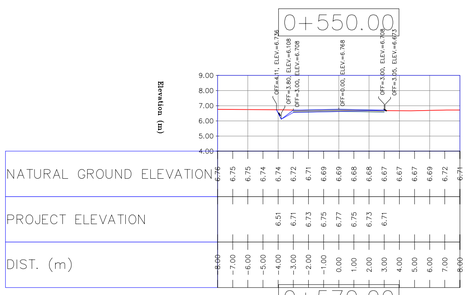
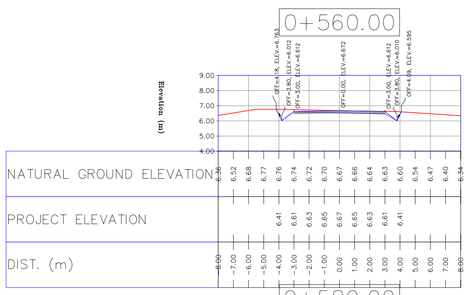
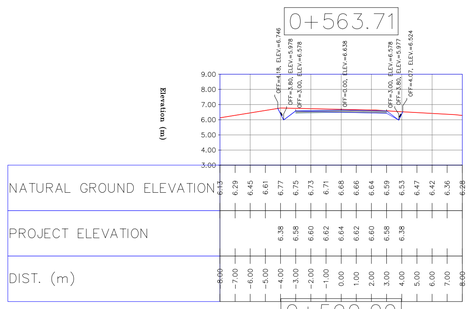
EVCE= END OF VERTICAL CURVE ELEVATION

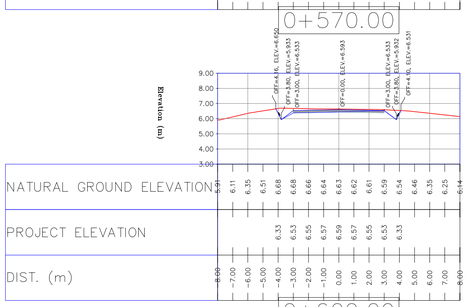
KEY PLAN

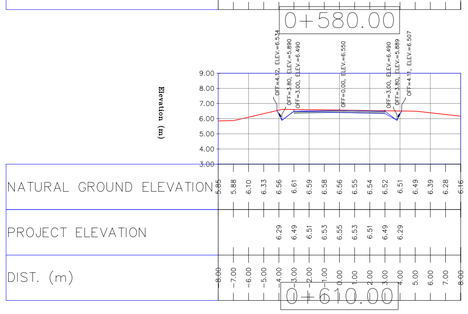


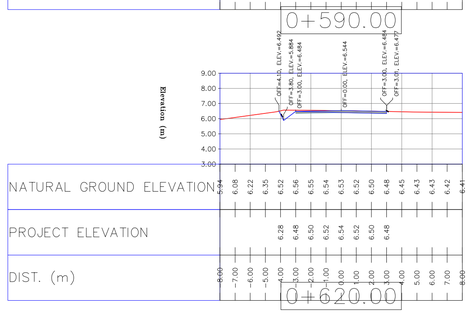


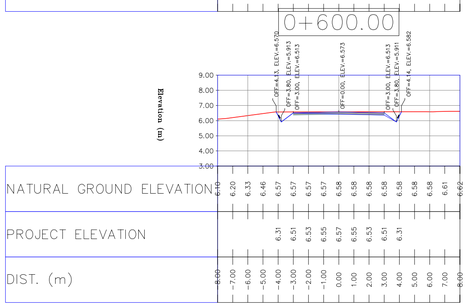


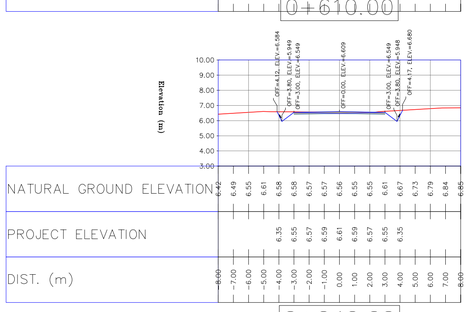


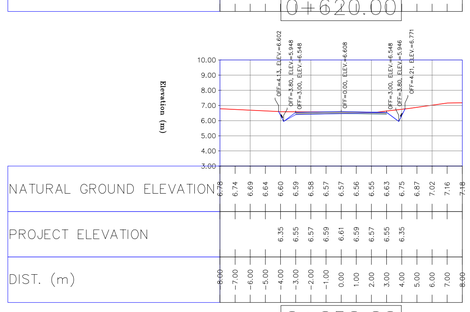


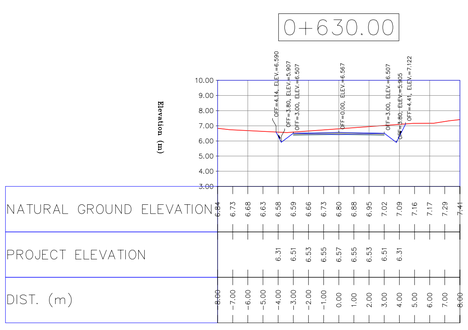


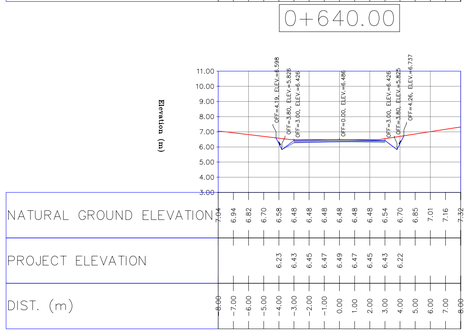


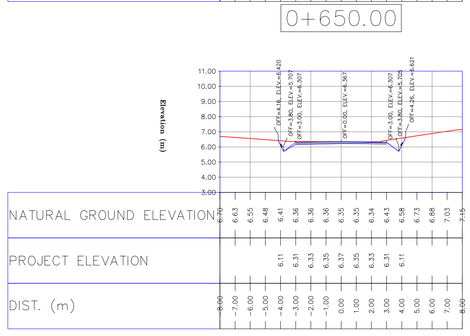


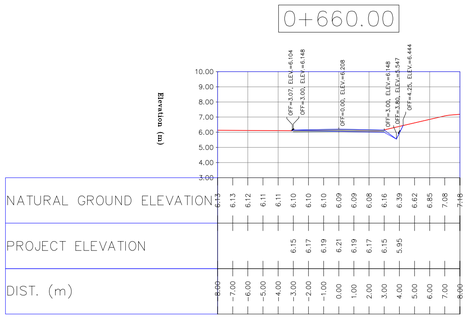


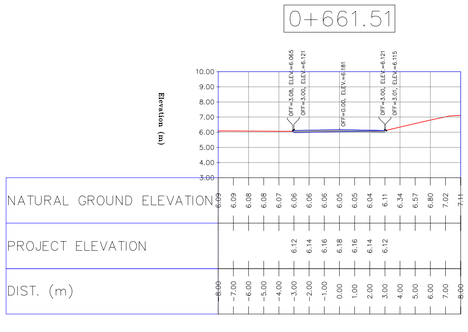


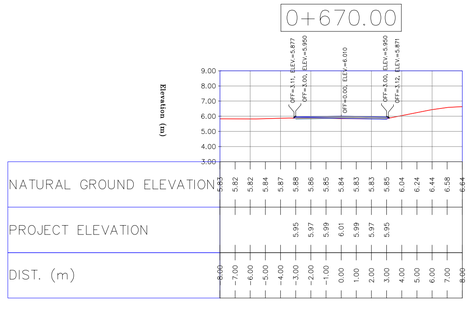












NOTES

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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:	MSL

4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
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- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

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7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK05	BK-BK05-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK05	BK-BK05-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK05	BK-BK05-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK05	BK-BK05-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile–BK05	BK-BK05-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
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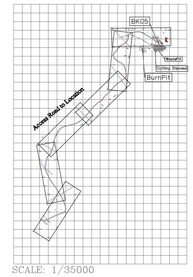
KEY PLAN



SCALE: 1/35000

Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
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REV.	DESCRIPTION	BY	DATE	BY	DATE
***	**********	**.**	***.****	**.**	***.****
		CHECKED		REV. APPR.	

D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK05
ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	20 OF 52	D00

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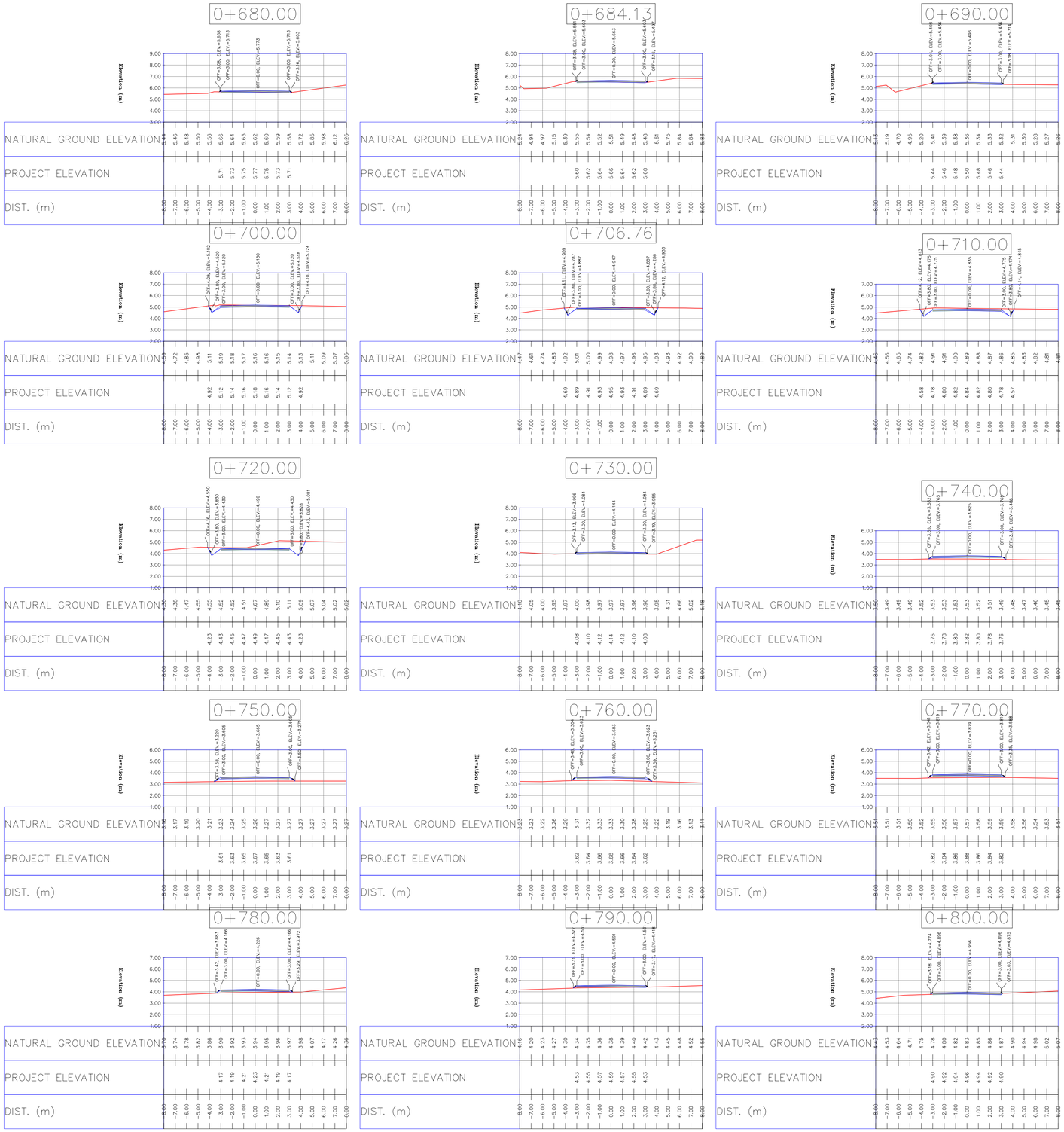
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

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	S	708459	20	D00



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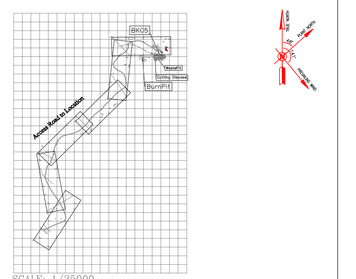
KEY PLAN



SCALE: 1/35000

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D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK05
ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	21 OF 52	D00

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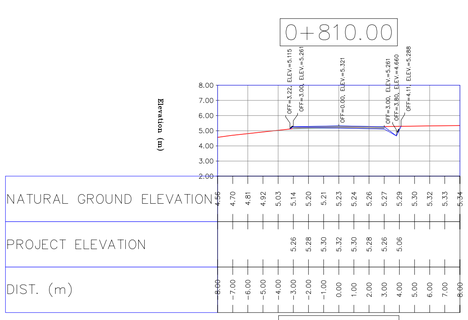
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

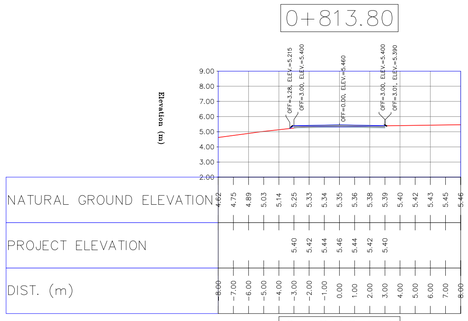
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

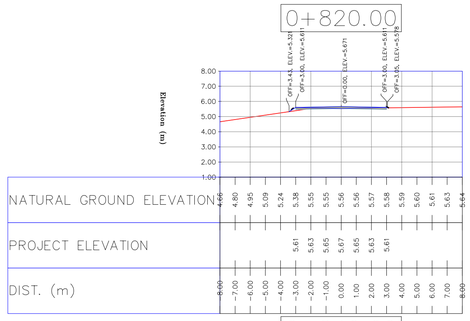
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

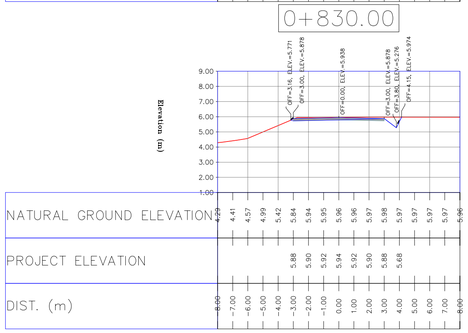
APPROVED FOR CONSTRUCTION	BY:	DATE:

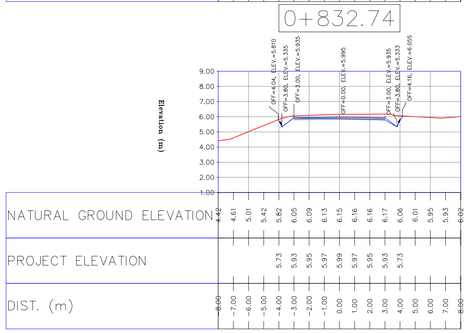
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	21	D00

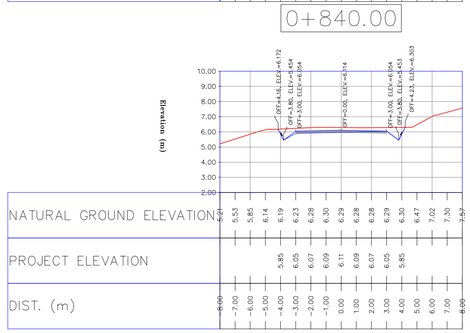


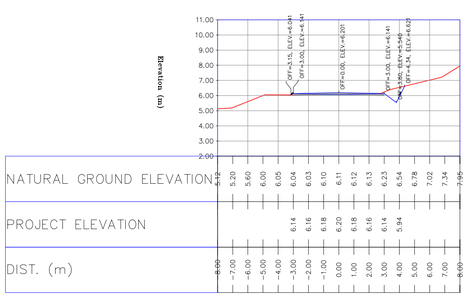


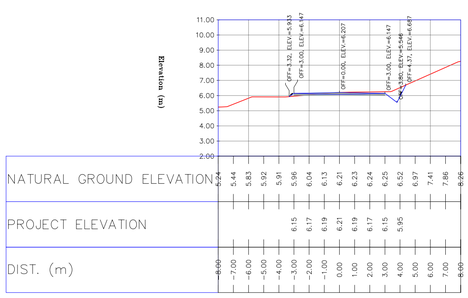


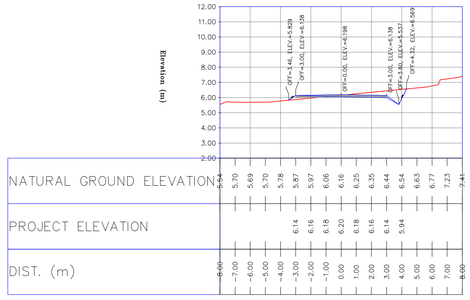


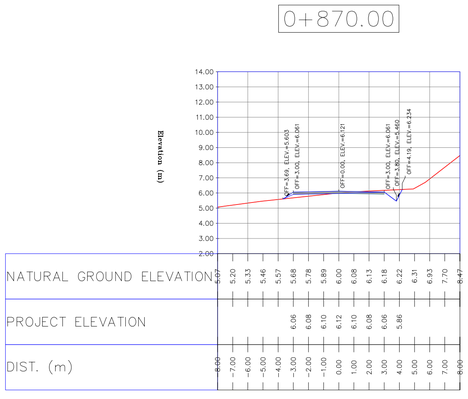


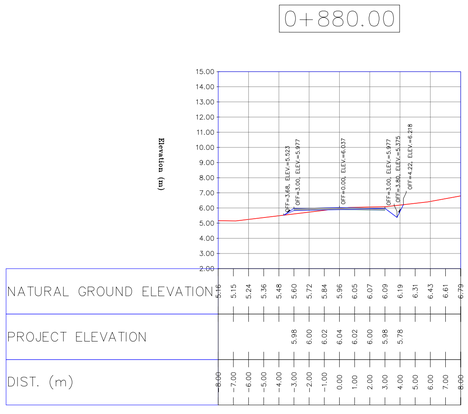


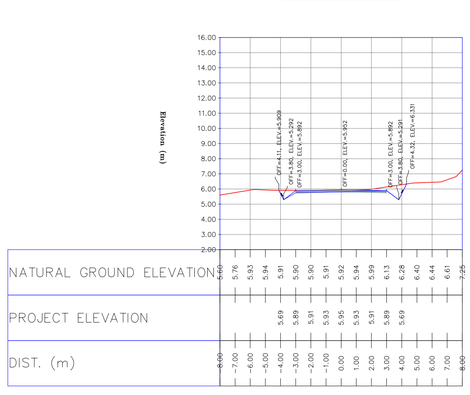












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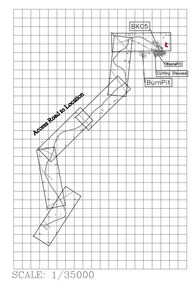

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ACCESS ROAD PLAN AND PROFILE

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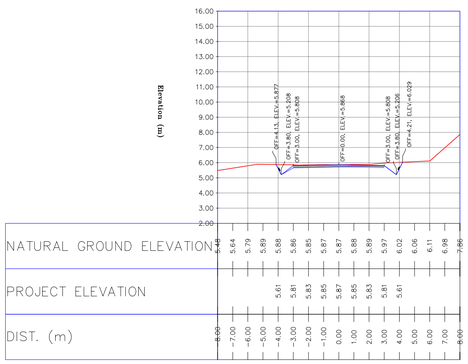
0+900.00


Elevation (m)
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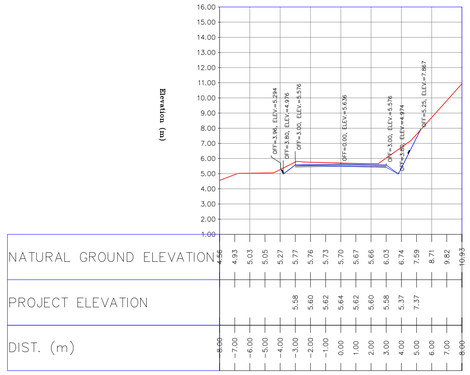
OFF=3.90, ELEV=5.508
OFF=3.00, ELEV=5.808
OFF=0.00, ELEV=5.868
OFF=3.00, ELEV=5.808
OFF=3.80, ELEV=5.206
OFF=4.21, ELEV=6.029

| | | |

0+971.13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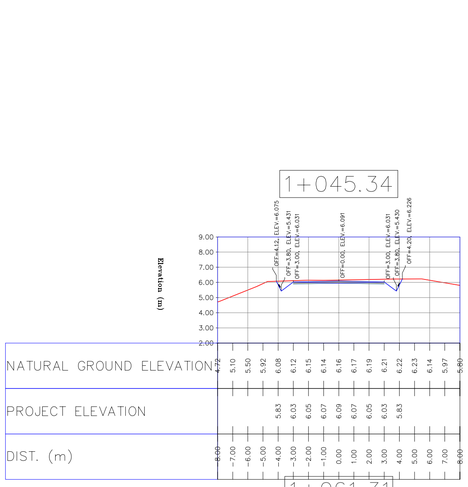
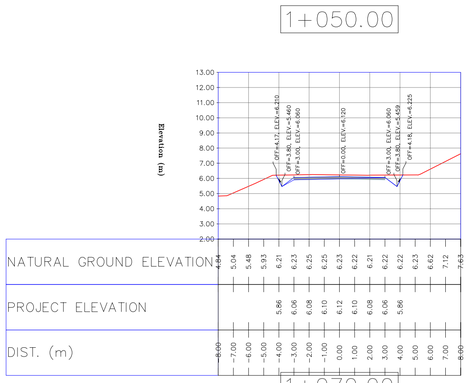
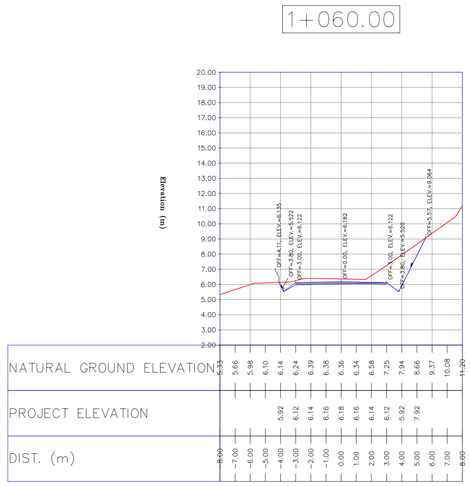
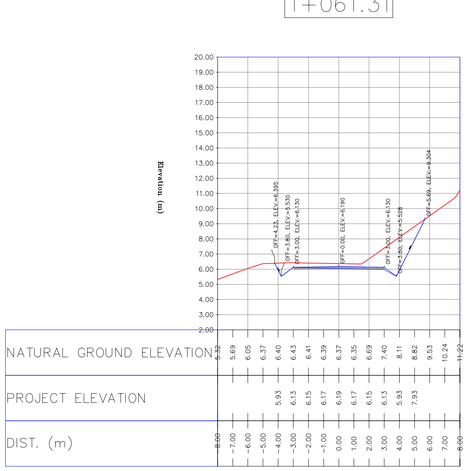
OFF=3.80, ELEV=4.976
OFF=3.00, ELEV=5.578
OFF=0.00, ELEV=5.636
OFF=3.00, ELEV=5.578
OFF=3.80, ELEV=4.974
OFF=10.25, ELEV=7.987

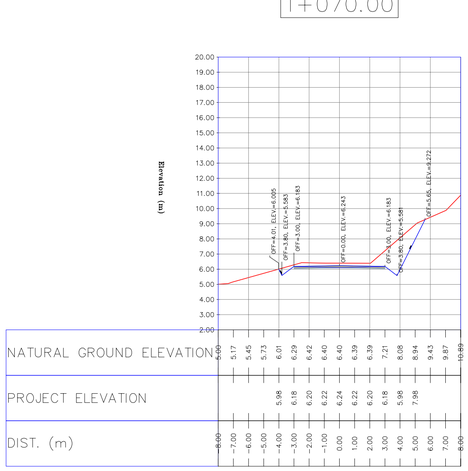
| | | |

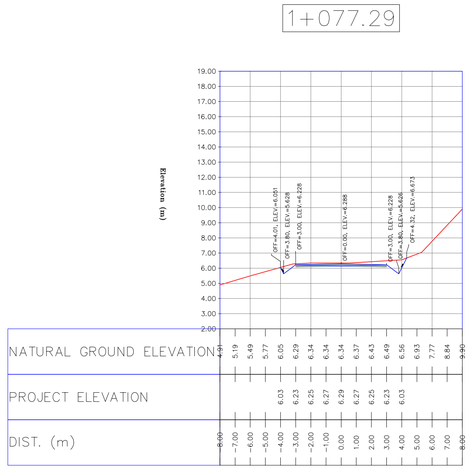


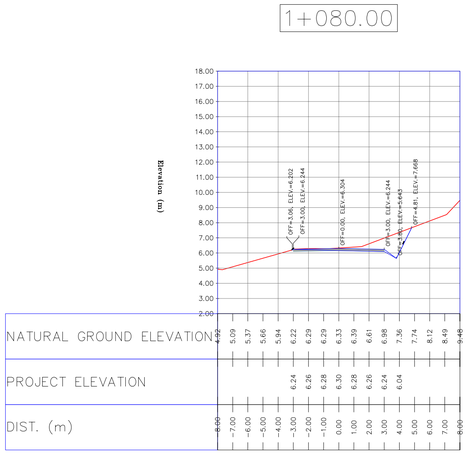


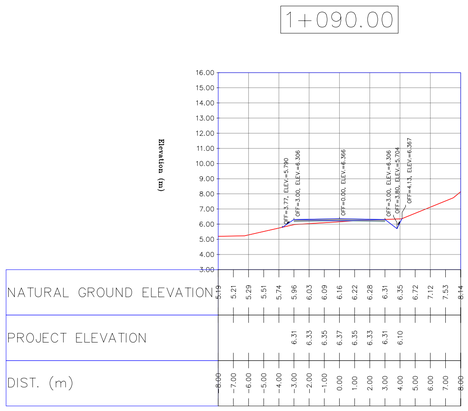


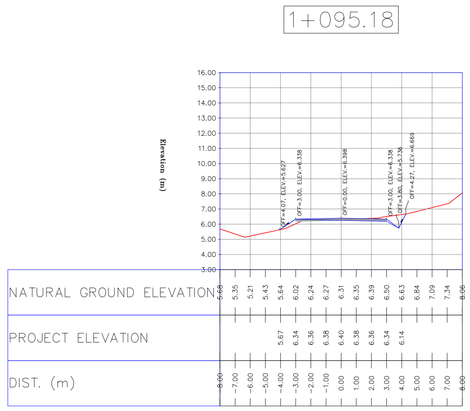












NOTES

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:	MSL

4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK05	BK-BK05-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK05	BK-BK05-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK05	BK-BK05-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK05	BK-BK05-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile–BK05	BK-BK05-PEDCO-110-SU-DW-0001

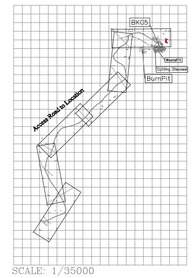
ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5-BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6-BK5	441552.844	3286457.422	63.624
GPS1-BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

KEY PLAN



SCALE: 1/35000

REV.	DESCRIPTION	BY	DATE	BY	DATE
***	**********	** **	*** ****	** **	*** ****
		CHECKED		REV. APPR.	
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	** **
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF
N.I.S.O.C./ FIELDS

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK05
ACCESS ROAD PLAN AND PROFILE

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
APPROVED FOR CONSTRUCTION | BY: | DATE:

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	25 OF 52	D00	053-073-9184	F	4	S	708459	25	D00

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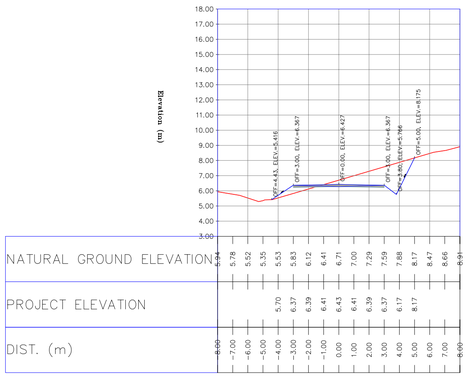
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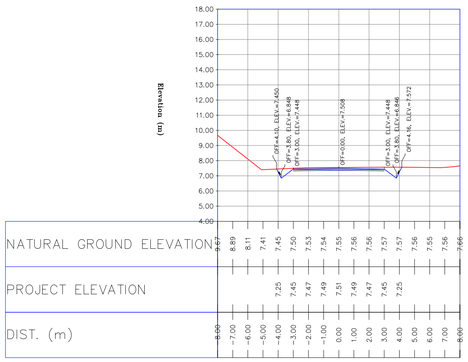
| | | |

1+160.00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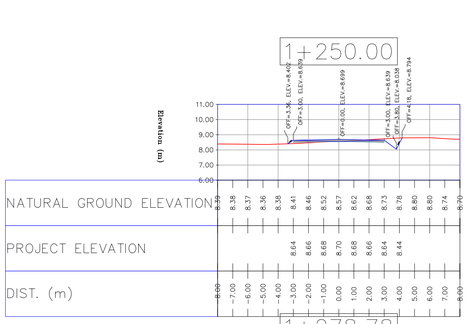
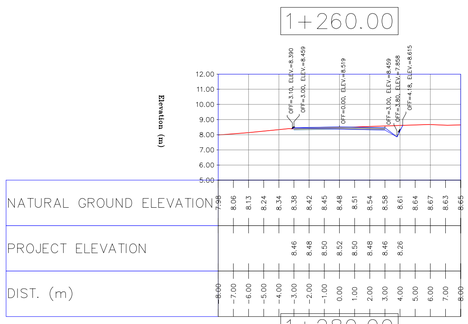
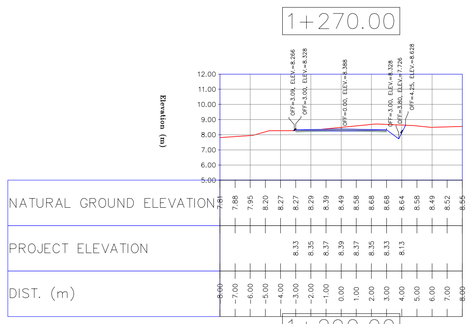
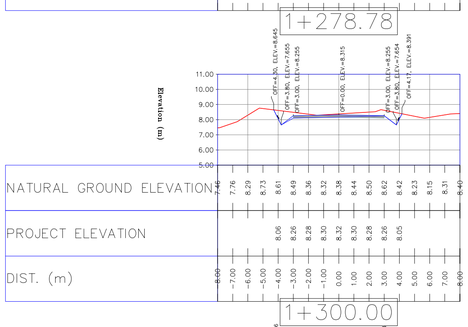
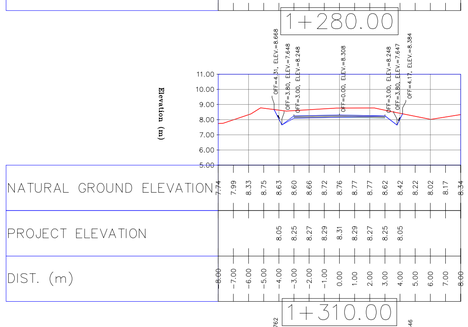
| | | |

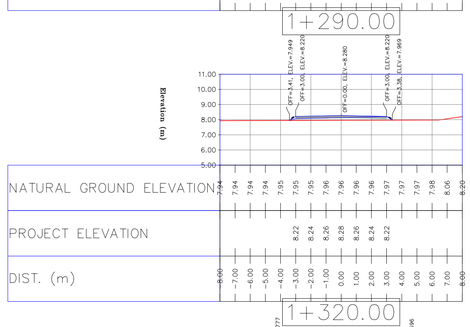


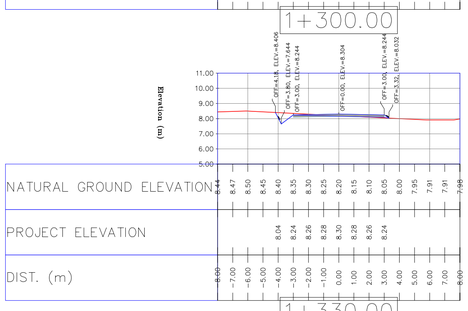


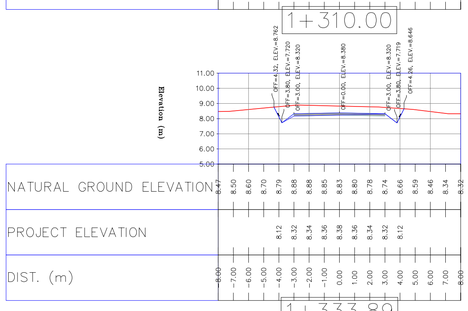


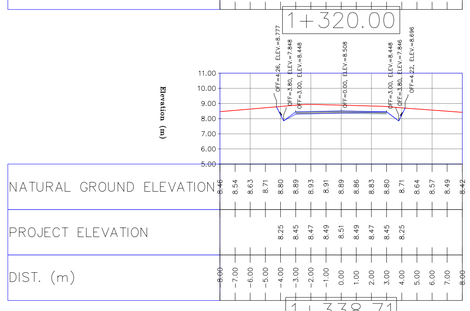


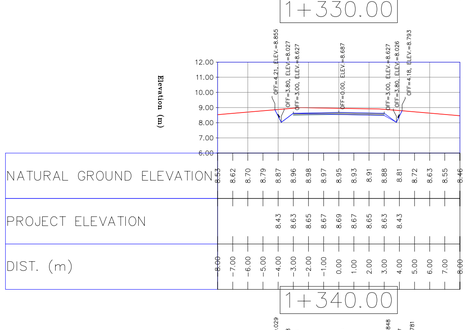


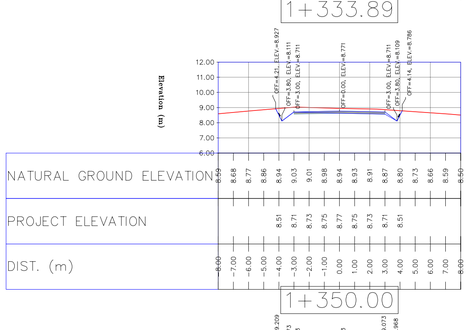


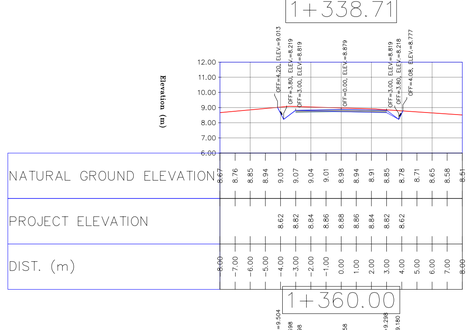


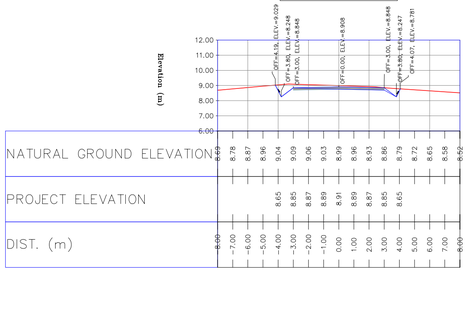


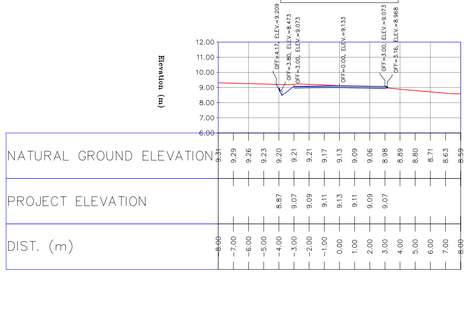


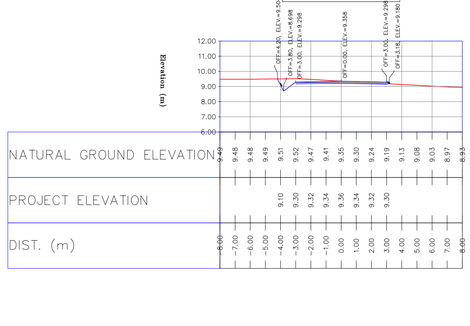












NOTES

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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:	MSL

4–THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK–GNRAL–PEDCO–000–CV–SP–0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5–BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6–RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7–PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK–SSGRL–PEDCO–110–PI–DW–0001
8–THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK05	BK–BK05–PEDCO–110–CV–PY–0001
Rough Grading Plan–BK05	BK–BK05–PEDCO–110–CV–PY–0003
Specification For Earth Work	BK–GNRAL–PEDCO–000–CV–SP–0004
Standard Drawing For Slope Protection Details	BK–GNRAL–PEDCO–000–CV–DW–0002
Geotechnical Investigation Report – BK05	BK–BK05–PEDCO–110–GT–RT–0001
Specification For Road & Paving	BK–GNRAL–PEDCO–000–CV–SP–0002
MTO For Civil Works – BK05	BK–BK05–PEDCO–110–CV–MT–0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK–GNRAL–PEDCO–000–CV–DW–0014
Over Head Line Plan and Profile–BK05	BK–BK05–PEDCO–110–SU–DW–0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

Coordinate of Bench Marks (UTM–ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5-BK15	441785.148	3287231.638	83.923
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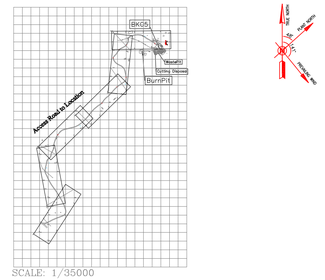
GPS6-BK5	441552.844	3286457.422	63.624
GPS1-BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

KEY PLAN



SCALE: 1/35000

REV.	DESCRIPTION	BY	DATE	BY	DATE
				CHECKED	REV. APPR.
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D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB–SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY – PEDCO

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK05
ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK–BK05–PEDCO–110–CV–DW–0001	28 OF 52	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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BINAK OILFIELD DEVELOPMENT
SUB–SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

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
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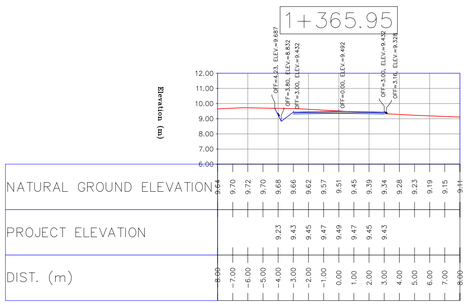

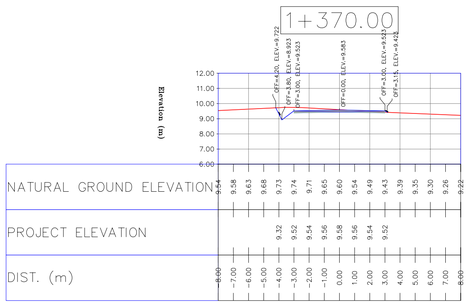

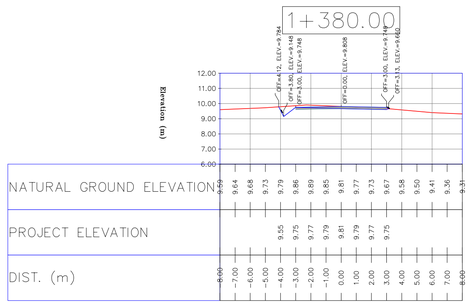

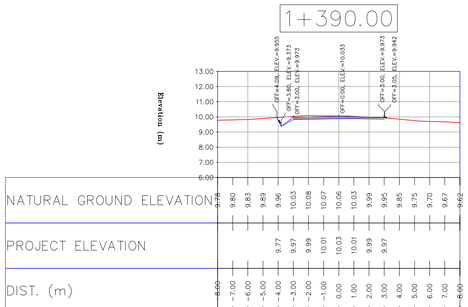

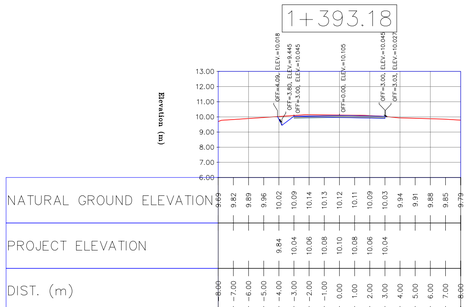

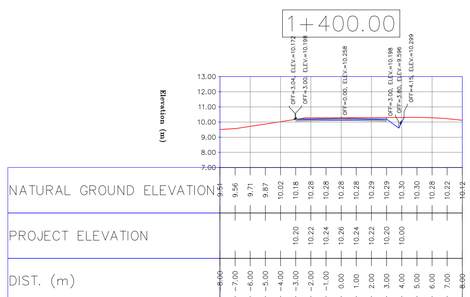

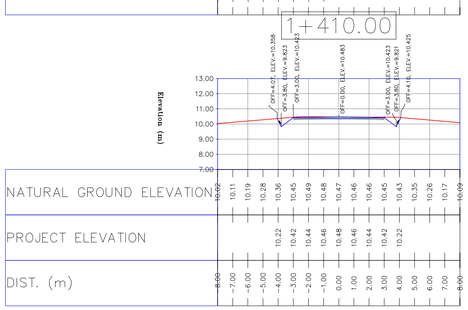

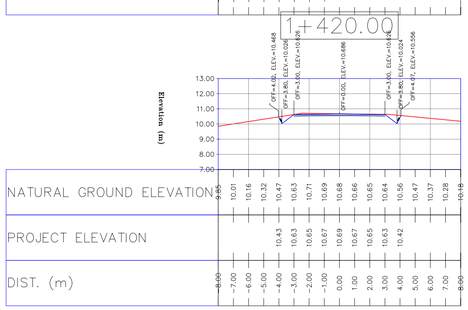

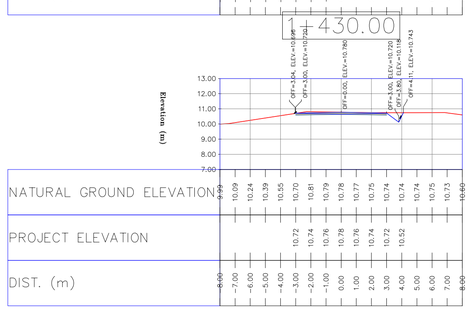

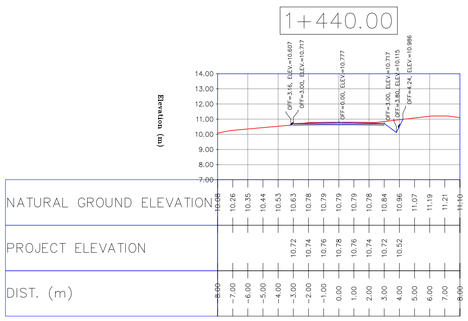

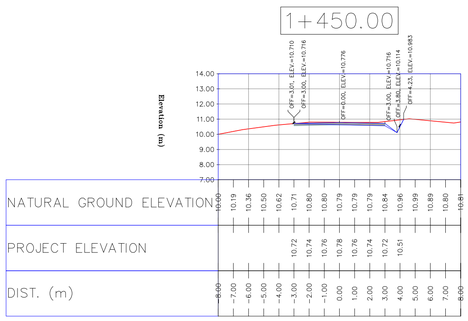

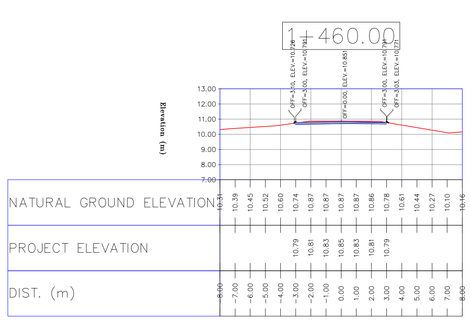

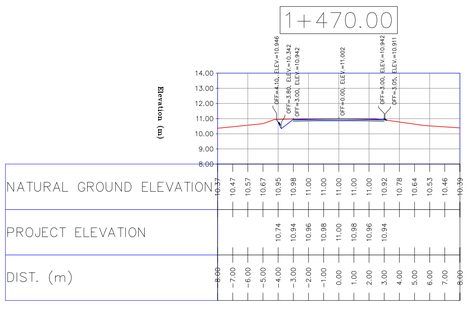

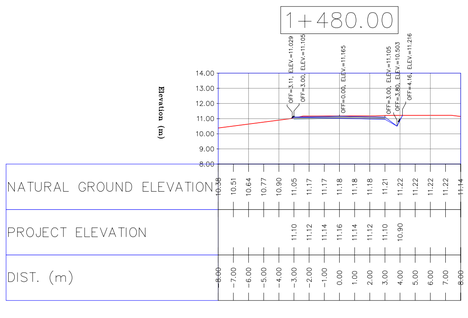

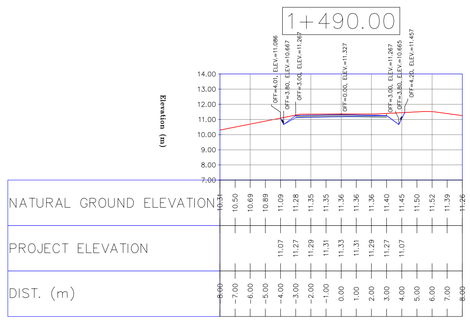

NOTES

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HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

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- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

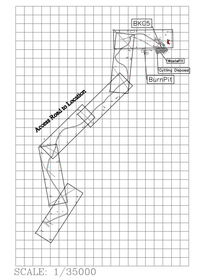
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK05	BK-BK05-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK05	BK-BK05-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK05	BK-BK05-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK05	BK-BK05-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile–BK05	BK-BK05-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VERTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



SCALE: 1/35000

Coordinate of Bench Marks (UTM-ZONE 39N)			
Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5-BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6-BK5	441552.844	3286457.422	63.624
GPS1-BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.PAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK05
ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	29 OF 52	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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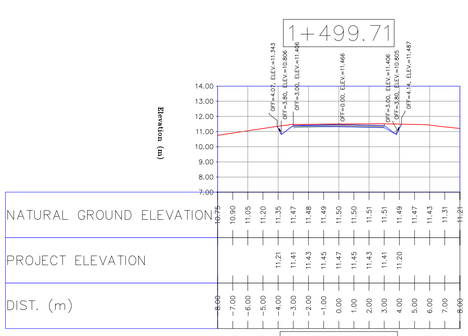
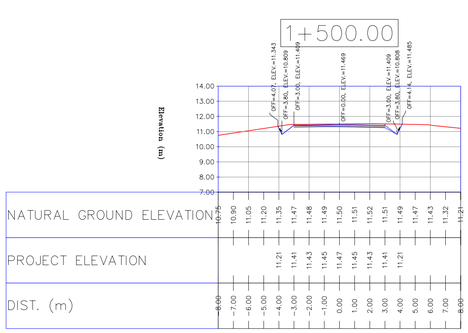
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

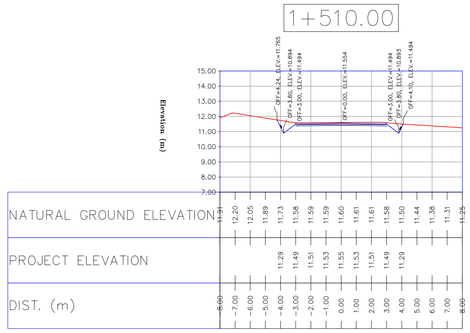
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

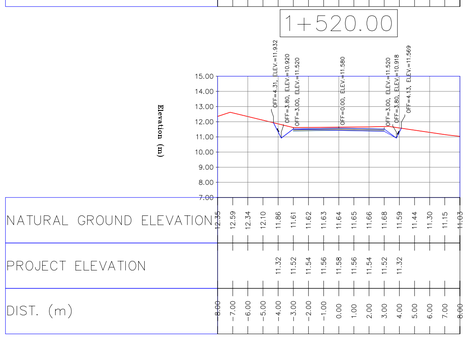
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
APPROVED FOR CONSTRUCTION BY: DATE:

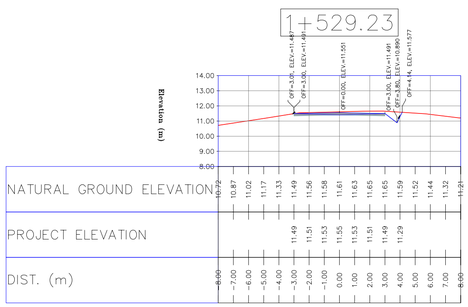
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	29	D00

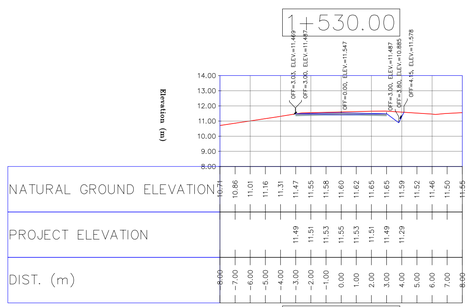


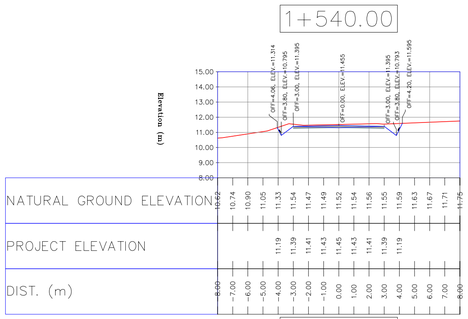


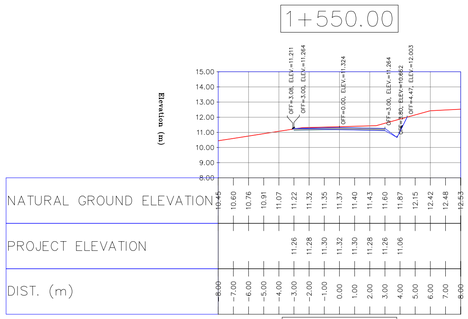


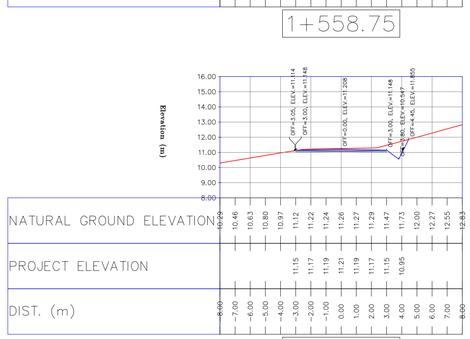


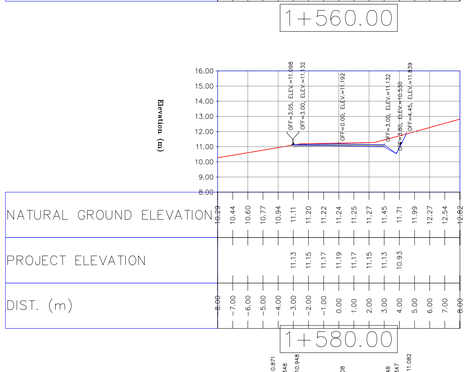


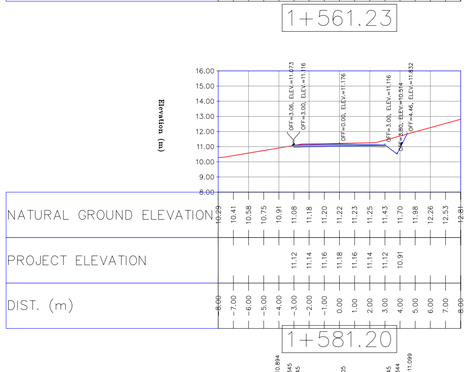


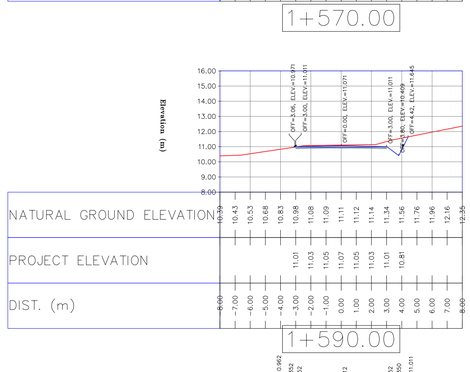


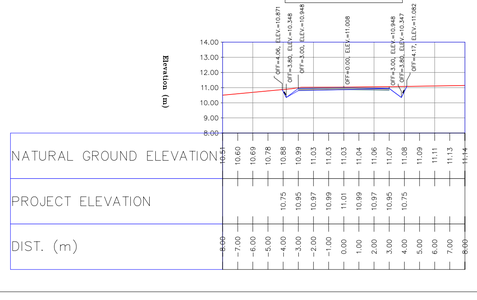


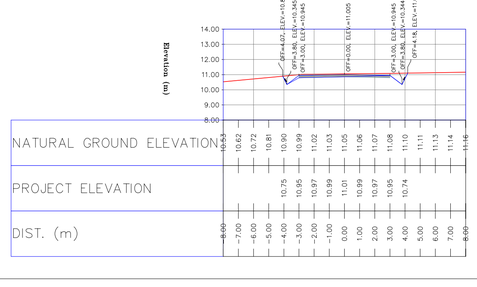


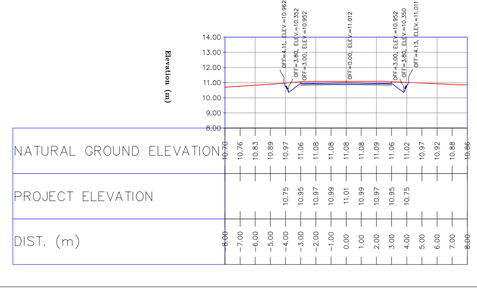












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LEGEND

⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER / POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK05	BK-BK05-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK05	BK-BK05-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report - BK05	BK-BK05-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK05	BK-BK05-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK05	BK-BK05-PEDCO-110-SU-DW-0001

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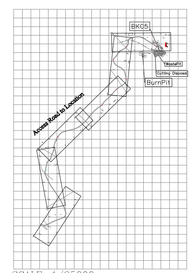
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



SCALE: 1/35000

Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5-BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6-BK5	441552.844	3286457.422	63.624
GPS1-BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

REV.	DESCRIPTION	BY	DATE	BY	DATE
***	**********	**.**	***.****	**.**	***.****
		CHECKED		REV. APPR.	
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK05 ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	30 OF 52	D00

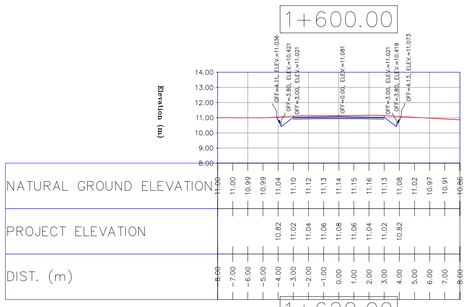
اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS

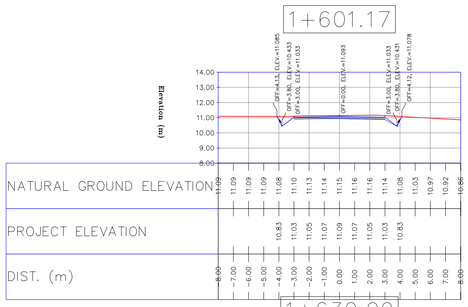
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

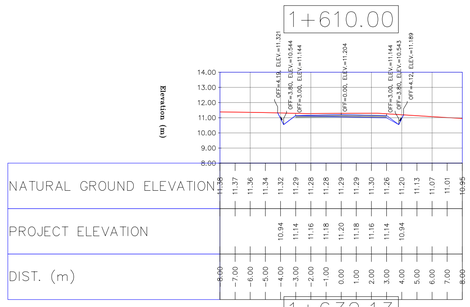
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

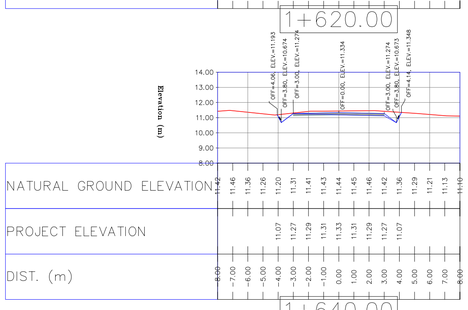
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

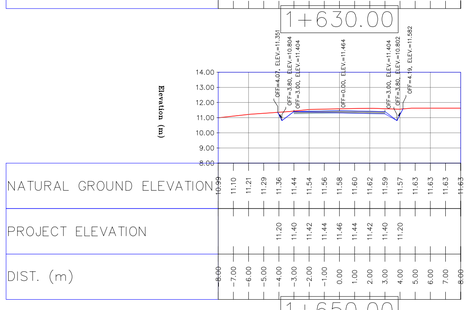
APPROVED FOR CONSTRUCTION			BY:		DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	30	D00

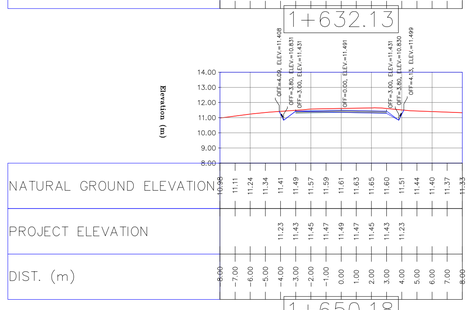


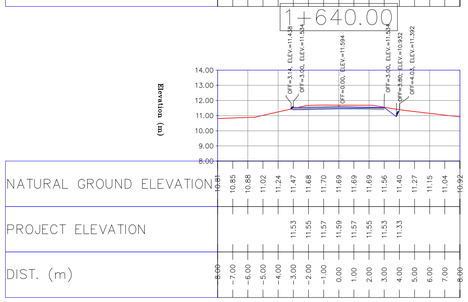


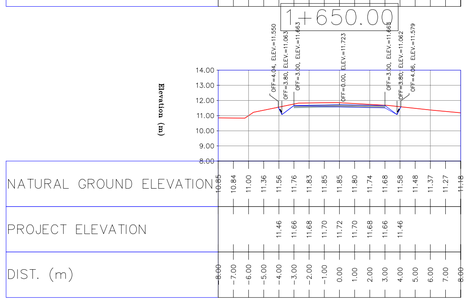


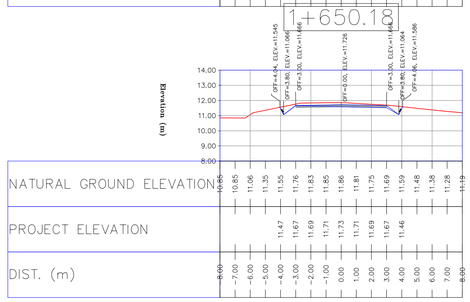


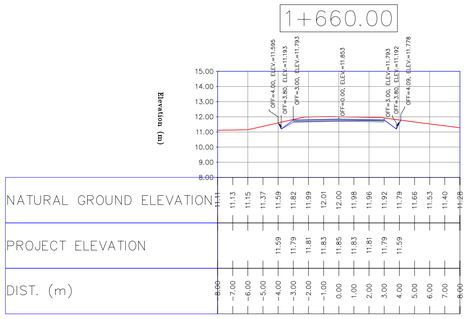


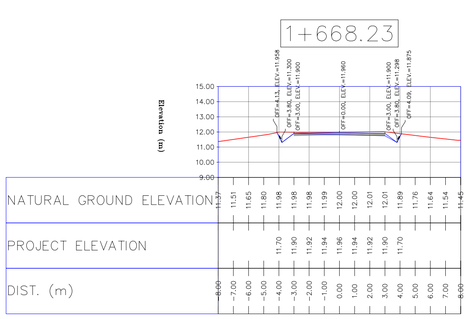


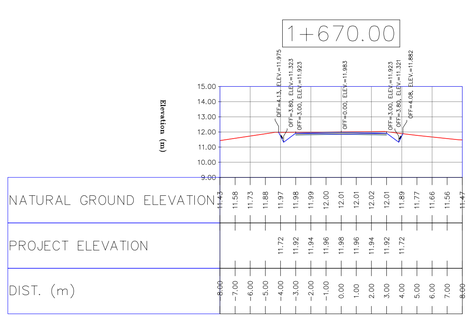


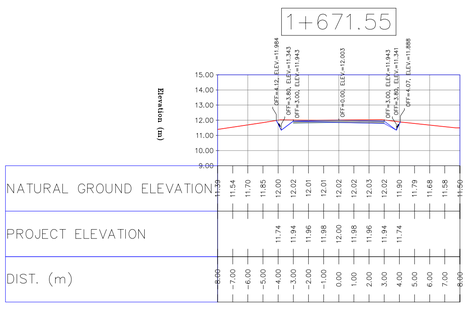


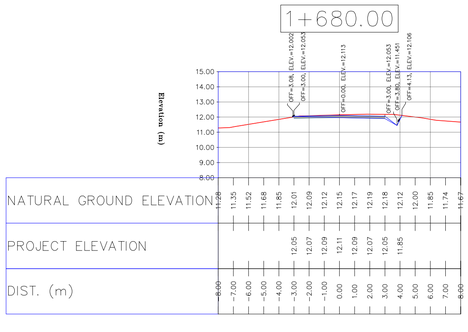


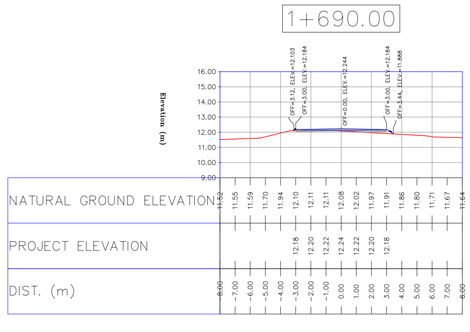












NOTES

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:	MSL

4–THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK–GNRAL–PEDCO–000–CV–SP–0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5–BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6–RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7–PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK–SSGRL–PEDCO–110–PI–DW–0001
8–THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

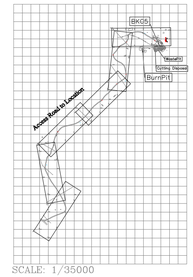
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK05	BK–BK05–PEDCO–110–CV–PY–0001
Rough Grading Plan–BK05	BK–BK05–PEDCO–110–CV–PY–0003
Specification For Earth Work	BK–GNRAL–PEDCO–000–CV–SP–0004
Standard Drawing For Slope Protection Details	BK–GNRAL–PEDCO–000–CV–DW–0002
Geotechnical Investigation Report – BK05	BK–BK05–PEDCO–110–GT–RT–0001
Specification For Road & Paving	BK–GNRAL–PEDCO–000–CV–SP–0002
MTO For Civil Works – BK05	BK–BK05–PEDCO–110–CV–MT–0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK–GNRAL–PEDCO–000–CV–DW–0014
Over Head Line Plan and Profile–BK05	BK–BK05–PEDCO–110–SU–DW–0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



SCALE: 1/35000

Coordinate of Bench Marks (UTM–ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5-BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6-BK5	441552.844	3286457.422	63.624
GPS1-BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

REV.	DESCRIPTION	BY	DATE	BY	DATE
***	**********	**.**	***.****	**.**	***.****
		CHECKED		REV. APPR.	
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB–SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY – PEDCO

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK05
ACCESS ROAD PLAN AND PROFILE

BINAK OILFIELD DEVELOPMENT
SUB–SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
APPROVED FOR CONSTRUCTION | BY: | DATE:

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK–BK05–PEDCO–110–CV–DW–0001	31 OF 52	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053–073–9184	F	4	S	708459	31	D00

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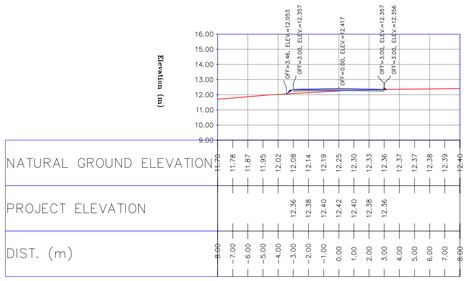
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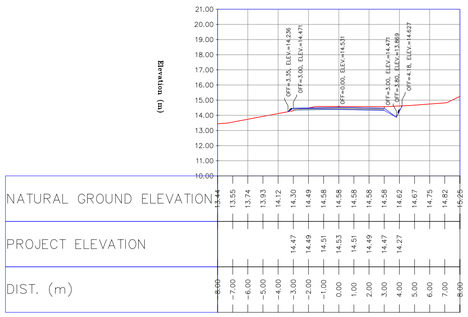
| | | |

1+790.00



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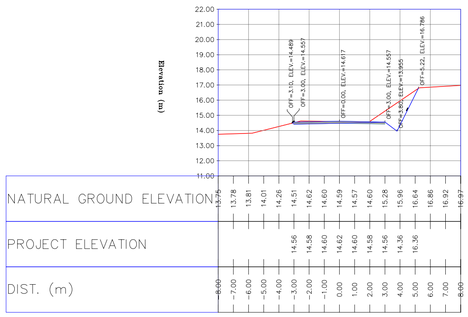

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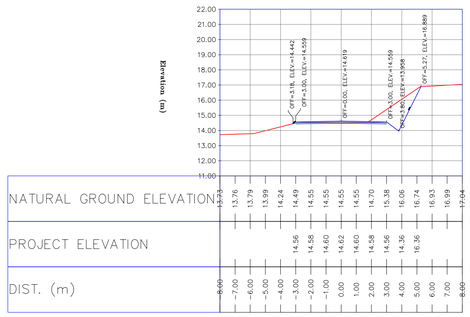

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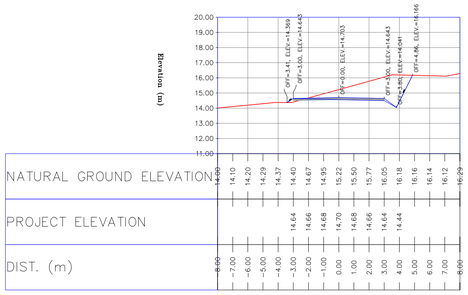

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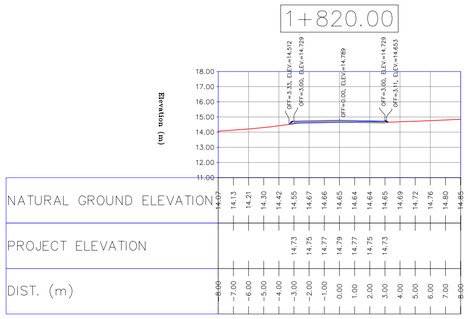

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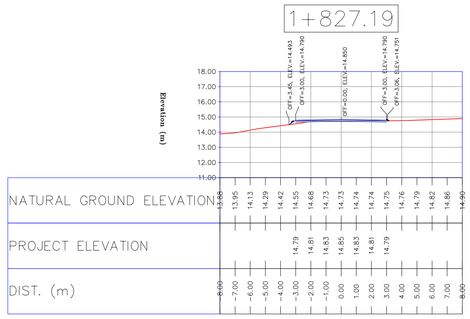

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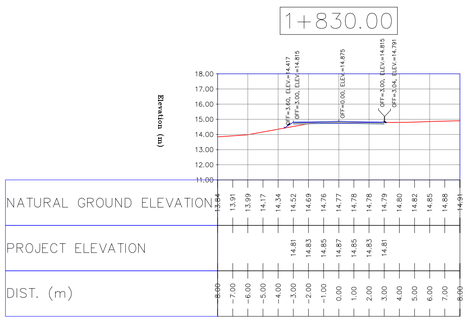

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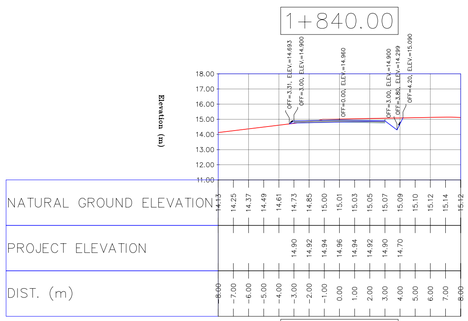

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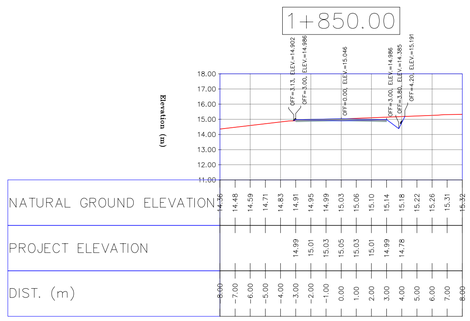

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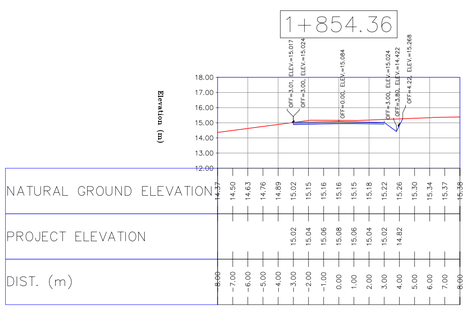

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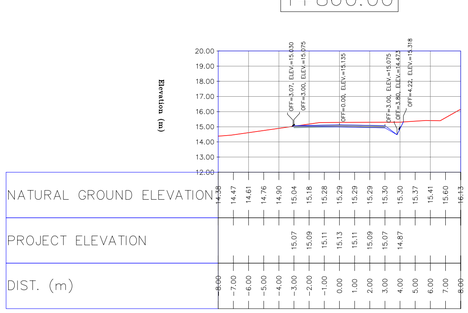

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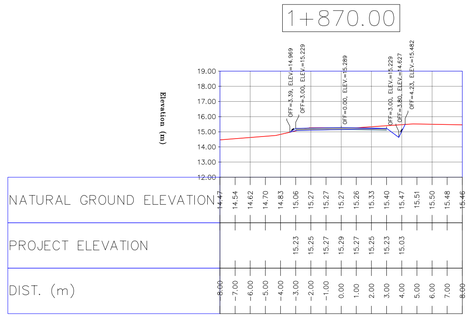

Coordinate of Bench Marks (UTM-ZONE 39N)

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K23	441993.94	3287809.804	155.106

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: MSL
4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

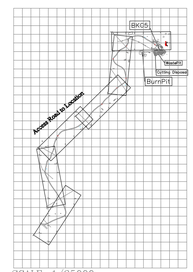
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK05	BK-BK05-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK05	BK-BK05-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK05	BK-BK05-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK05	BK-BK05-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK05	BK-BK05-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VERTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



SCALE: 1/35000

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

D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY – PEDCO

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK05
ACCESS ROAD PLAN AND PROFILE

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

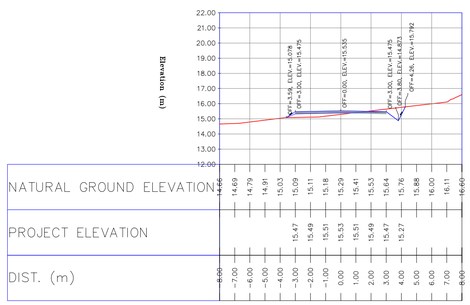
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	33 OF 52	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	33	D00

1+880.00


Elevation (m)
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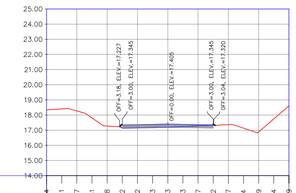
OFF=3.00, ELEV=15.475
OFF=0.00, ELEV=15.535
OFF=3.00, ELEV=15.435
OFF=4.26, ELEV=15.792

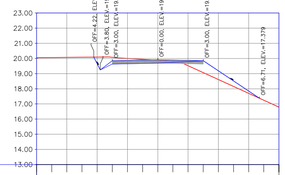
| | | |

1+932.31


Elevation (m)
OFF=3.158, ELEV=17.227
OFF=3.509, ELEV=17.345
OFF=0.000, ELEV=17.465
OFF=3.050, ELEV=17.345
OFF=3.514, ELEV=17.320

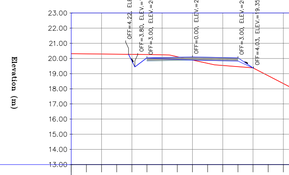
| | | |

2+000.00



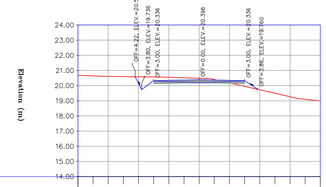
NATURAL GROUND ELEVATION	20.56	20.07	20.08	20.09	20.08	20.00	19.94	19.88	19.81	19.52	19.07	18.61	18.16	17.70	17.25	16.79				
PROJECT ELEVATION		19.65	19.85	19.87	19.89	19.91	19.89	19.87	19.85	19.18	18.52	17.85								
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00			

2+004.21



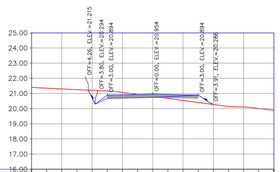
NATURAL GROUND ELEVATION	20.32	20.31	20.30	20.29	20.27	20.26	20.24	20.12	19.90	19.68	19.54	19.46	19.37	18.86	18.34	17.83	17.31			
PROJECT ELEVATION		19.85	20.05	20.07	20.09	20.11	20.09	20.09	20.07	20.07	20.05	19.38								
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00			

2+010.00



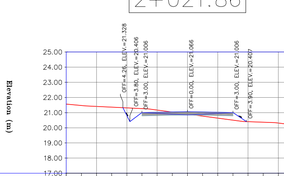
NATURAL GROUND ELEVATION	20.65	20.64	20.61	20.60	20.58	20.57	20.55	20.52	20.49	20.40	20.18	19.95	19.73	19.50	19.27	19.10	18.99			
PROJECT ELEVATION		20.14	20.34	20.36	20.38	20.40	20.38	20.36	20.34											
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00			

2+020.00



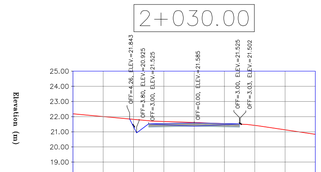
NATURAL GROUND ELEVATION	21.41	21.34	21.30	21.25	21.20	21.16	21.07	20.93	20.80	20.67	20.54	20.41	20.27	20.14	20.01	19.88				
PROJECT ELEVATION		20.69	20.89	20.91	20.93	20.95	20.93	20.91	20.89											
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00			

2+021.86



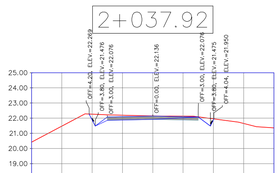
NATURAL GROUND ELEVATION	21.52	21.47	21.41	21.36	21.32	21.27	21.17	21.04	20.90	20.77	20.64	20.50	20.40	20.37	20.31	20.19	20.07			
PROJECT ELEVATION		20.81	21.01	21.03	21.05	21.07	21.05	21.03	21.01											
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00			

2+030.00



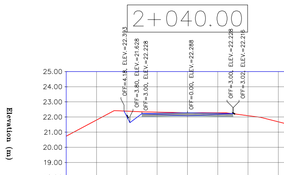
NATURAL GROUND ELEVATION	22.19	22.10	22.00	21.91	21.82	21.73	21.68	21.64	21.61	21.57	21.54	21.50	21.42	21.28	21.13	20.99	20.84			
PROJECT ELEVATION		21.33	21.53	21.55	21.57	21.59	21.57	21.55	21.53											
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00			

2+037.92



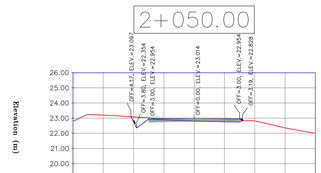
NATURAL GROUND ELEVATION	20.42	20.95	21.47	22.00	22.26	22.22	22.20	22.17	22.15	22.13	22.09	21.96	21.82	21.65	21.42	21.36				
PROJECT ELEVATION		21.88	22.08	22.10	22.12	22.14	22.12	22.10	22.08	21.87										
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00			

2+040.00



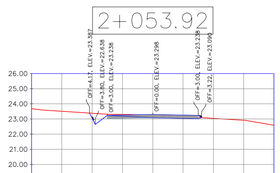
NATURAL GROUND ELEVATION	20.74	21.27	21.80	22.33	22.39	22.35	22.32	22.30	22.28	22.28	22.22	22.09	21.94	21.68	21.49	21.42				
PROJECT ELEVATION		22.03	22.23	22.25	22.27	22.29	22.27	22.25	22.23											
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00			

2+050.00



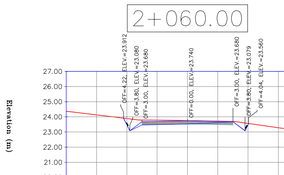
NATURAL GROUND ELEVATION	22.60	23.24	23.20	23.15	23.09	23.02	22.99	22.96	22.93	22.83	22.83	22.83	22.82	22.59	22.35	22.17	22.00			
PROJECT ELEVATION		22.75	22.95	22.97	22.99	23.01	22.99	22.97	22.95											
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00			

2+053.92



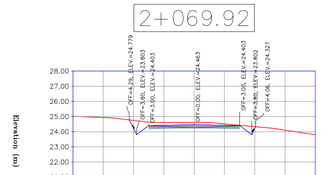
NATURAL GROUND ELEVATION	22.66	23.57	23.51	23.44	23.38	23.31	23.29	23.30	23.28	23.23	23.17	23.10	23.04	22.98	22.92	22.76	22.59			
PROJECT ELEVATION		23.04	23.24	23.26	23.28	23.30	23.28	23.26	23.24											
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00			

2+060.00



NATURAL GROUND ELEVATION	24.37	24.25	24.13	24.01	23.89	23.78	23.78	23.77	23.76	23.74	23.72	23.70	23.68	23.57	23.42	23.28	23.13	22.97		
PROJECT ELEVATION		23.48	23.68	23.70	23.72	23.74	23.72	23.70	23.68	23.48										
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00			

2+069.92



NATURAL GROUND ELEVATION	25.02	24.98	24.94	24.86	24.74	24.63	24.61	24.61	24.62	24.61	24.52	24.42	24.33	24.24	24.10	23.95	23.80			
PROJECT ELEVATION		24.20	24.40	24.42	24.44	24.46	24.44	24.42	24.40	24.20										
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00			

Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5-BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6-BK5	441552.844	3286457.422	63.624
GPS1-BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

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: MSL
4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

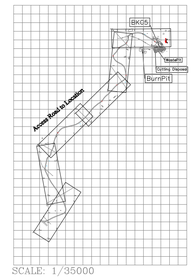
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK05	BK-BK05-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK05	BK-BK05-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK05	BK-BK05-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK05	BK-BK05-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK05	BK-BK05-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



SCALE: 1/35000

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY – PEDCO

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK05 ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	36 OF 52	D00

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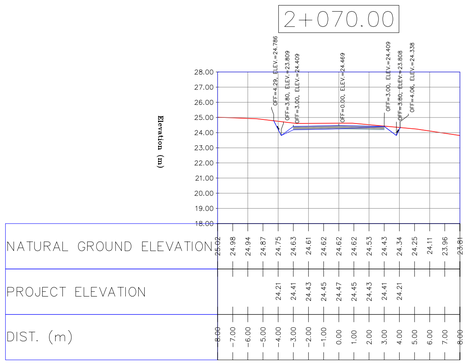
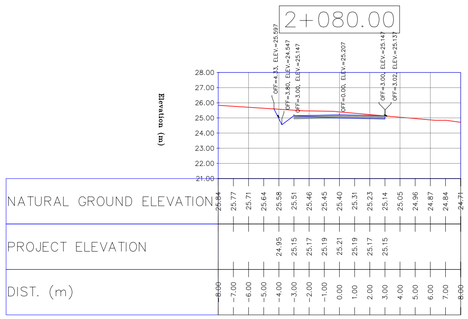
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

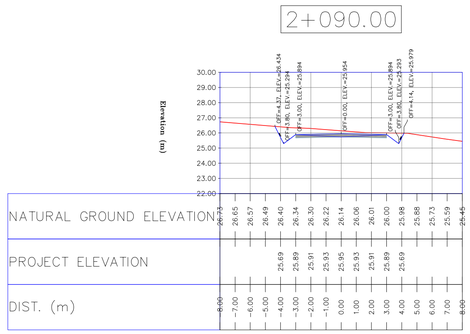
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

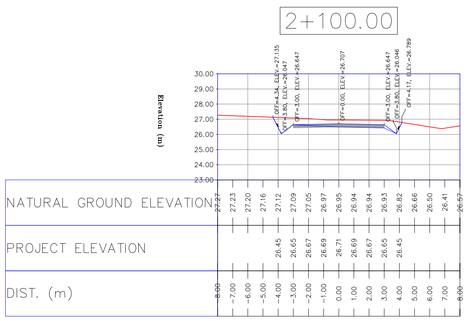
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
APPROVED FOR CONSTRUCTION | BY: | DATE:

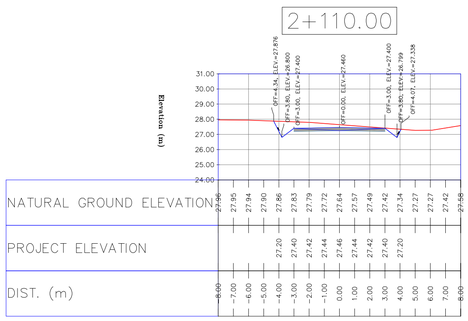
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	36	D00

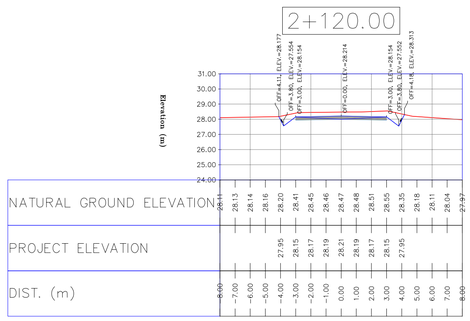


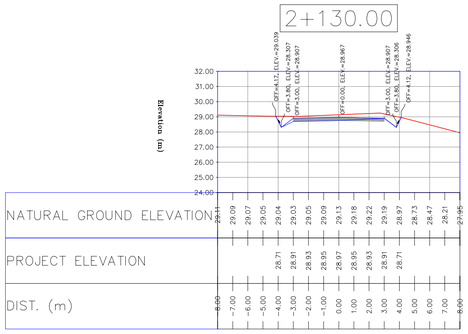


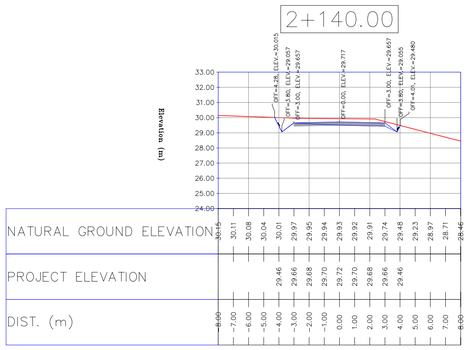


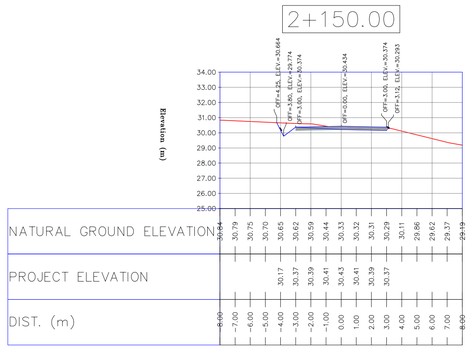


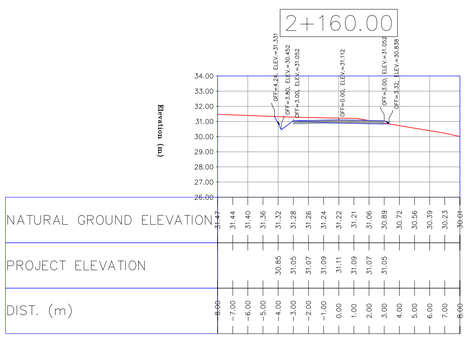


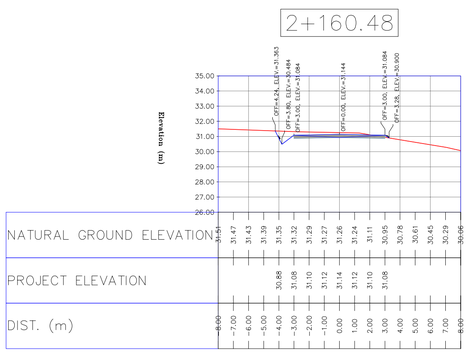


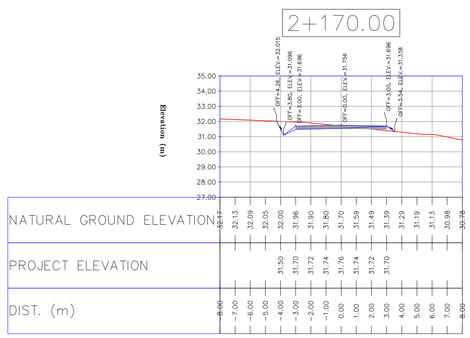












NOTES

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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:	MSL

4–THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK–GNRAL–PEDCO–000–CV–SP–0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

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

6–RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.

7–PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK–SSGRL–PEDCO–110–PI–DW–0001

8–THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK05	BK–BK05–PEDCO–110–CV–PY–0001
Rough Grading Plan–BK05	BK–BK05–PEDCO–110–CV–PY–0003
Specification For Earth Work	BK–GNRAL–PEDCO–000–CV–SP–0004
Standard Drawing For Slope Protection Details	BK–GNRAL–PEDCO–000–CV–DW–0002
Geotechnical Investigation Report – BK05	BK–BK05–PEDCO–110–GT–RT–0001
Specification For Road & Paving	BK–GNRAL–PEDCO–000–CV–SP–0002
MTO For Civil Works – BK05	BK–BK05–PEDCO–110–CV–MT–0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK–GNRAL–PEDCO–000–CV–DW–0014
Over Head Line Plan and Profile–BK05	BK–BK05–PEDCO–110–SU–DW–0001

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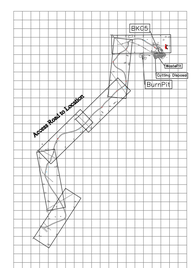
KEY PLAN



SCALE: 1/35000

Coordinate of Bench Marks (UTM–ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5–BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6–BK5	441552.844	3286457.422	63.624
GPS1–BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

REV.	DESCRIPTION	BY	DATE	BY	DATE
***	**********	**	*** ****	**	*** ****
		CHECKED		REV. APPR.	
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB–SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK05
ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK–BK05–PEDCO–110–CV–DW–0001	37 OF 52	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.

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BINAK OILFIELD DEVELOPMENT
SUB–SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

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
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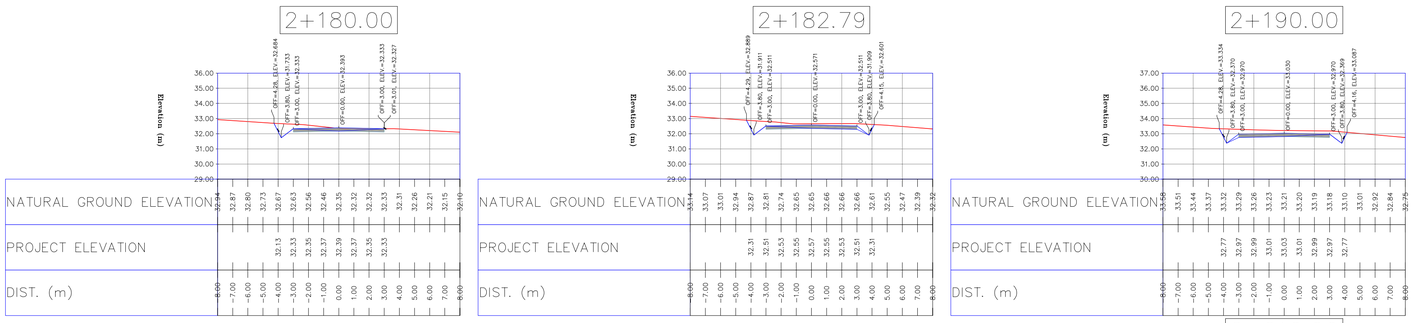

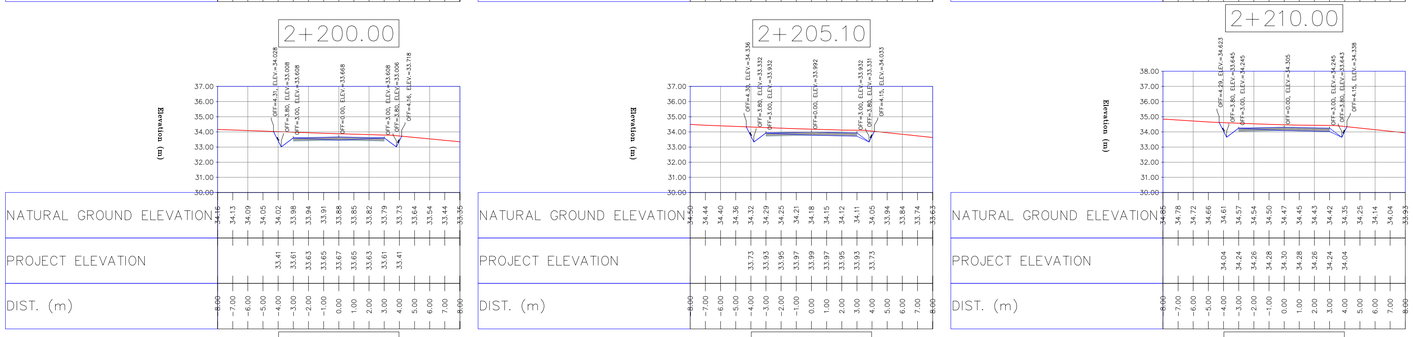

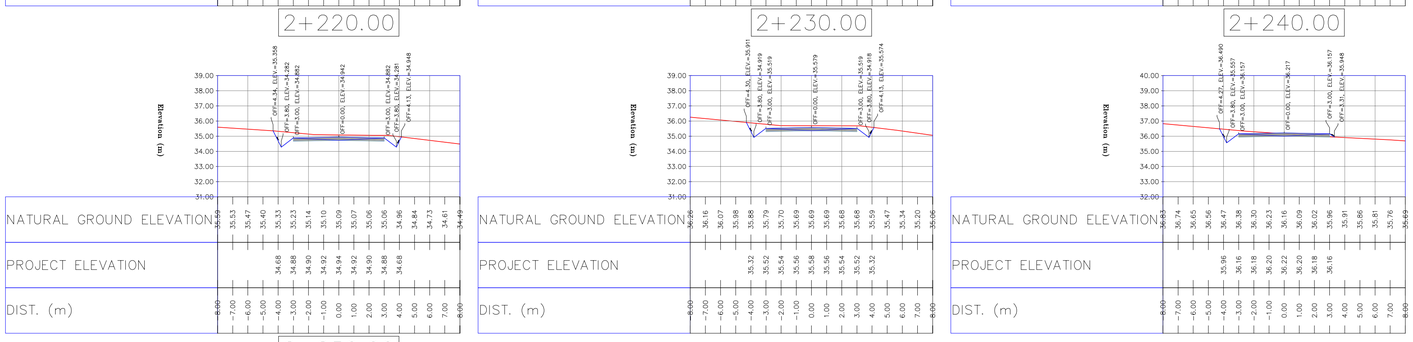

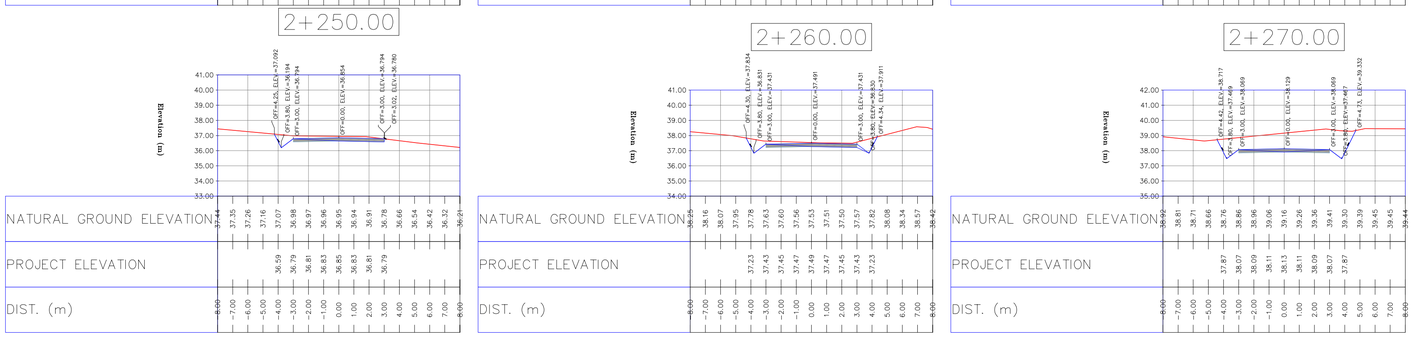

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REFERENCE DRAWING	DRG. No.
General Civil Layout -BK05	BK-BK05-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK05	BK-BK05-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
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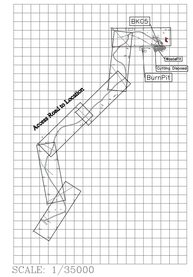
KEY PLAN



SCALE: 1/35000

Coordinate of Bench Marks (UTM-ZONE 39N)

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		CHECKED		REV. APPR.	
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

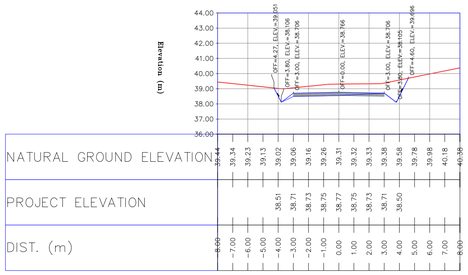
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK05
ACCESS ROAD PLAN AND PROFILE

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
APPROVED FOR CONSTRUCTION | BY: | DATE:

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	38 OF 52	D00	053-073-9184	F	4	S	708459	38	D00

2+280.00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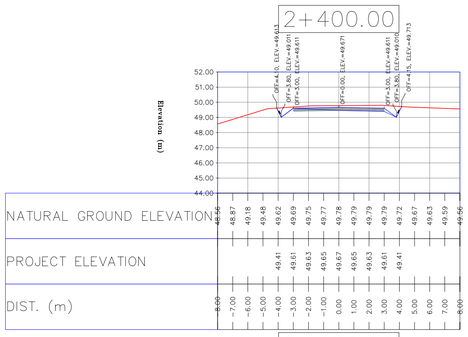

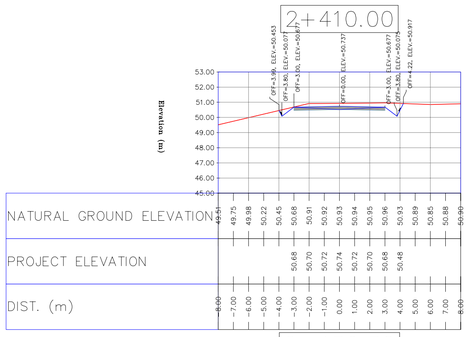

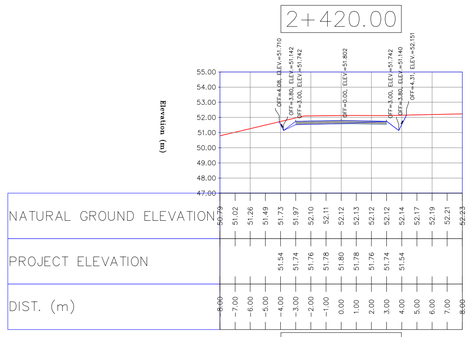

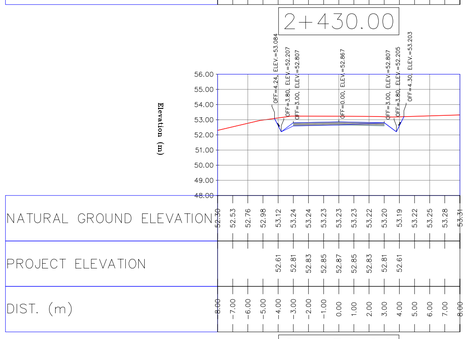

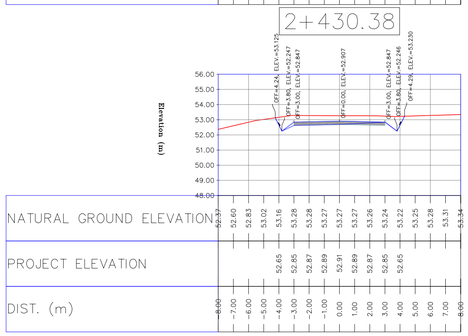

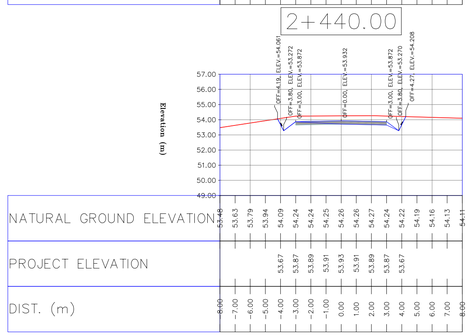

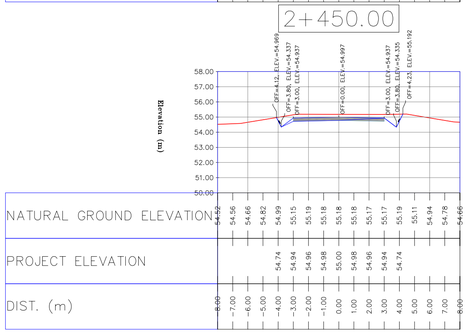

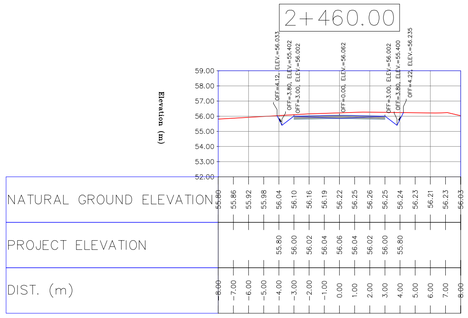

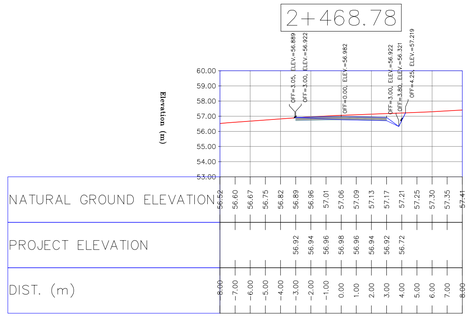

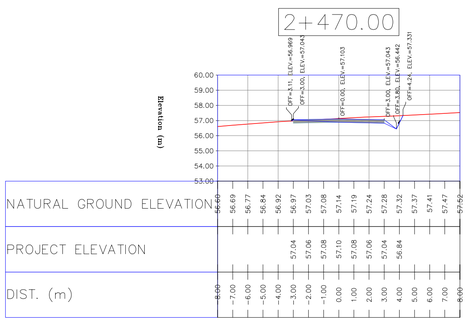

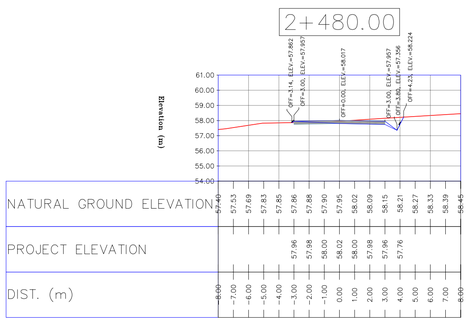

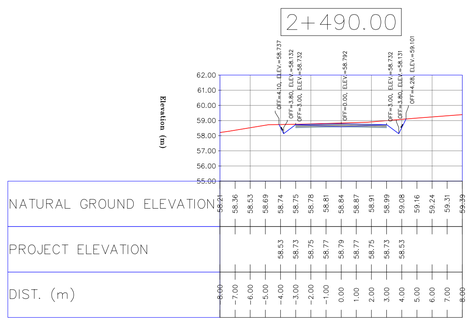

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– PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK–GNRAL–PEDCO–000–CV–SP–0004".
– GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.
5–BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6–RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7–PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK–SSGRL–PEDCO–110–PI–DW–0001
8–THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK05	BK–BK05–PEDCO–110–CV–PY–0001
Rough Grading Plan–BK05	BK–BK05–PEDCO–110–CV–PY–0003
Specification For Earth Work	BK–GNRAL–PEDCO–000–CV–SP–0004
Standard Drawing For Slope Protection Details	BK–GNRAL–PEDCO–000–CV–DW–0002
Geotechnical Investigation Report – BK05	BK–BK05–PEDCO–110–GT–RT–0001
Specification For Road & Paving	BK–GNRAL–PEDCO–000–CV–SP–0002
MTO For Civil Works – BK05	BK–BK05–PEDCO–110–CV–MT–0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK–GNRAL–PEDCO–000–CV–DW–0014
Over Head Line Plan and Profile–BK05	BK–BK05–PEDCO–110–SU–DW–0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
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LVC= LENGTH OF VERTICAL CURVE
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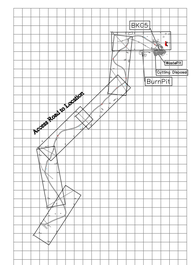
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



SCALE: 1/35000

Coordinate of Bench Marks (UTM–ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
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GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	** **	*** ****	** **	*** ****
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	** **
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB–SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY – PEDCO

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK05
ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK–BK05–PEDCO–110–CV–DW–0001	40 OF 52	D00

BINAK OILFIELD DEVELOPMENT
SUB–SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

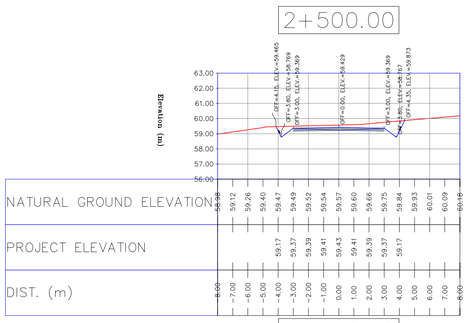
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION	BY:	DATE:

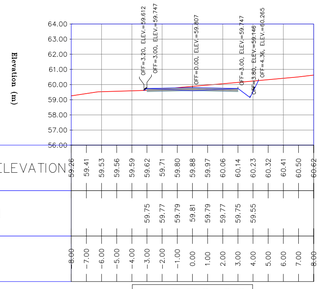
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	40	D00

2+500.00



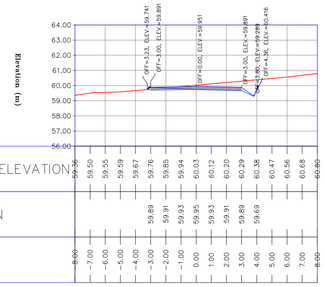
NATURAL GROUND ELEVATION	59.58	59.12	59.26	59.40	59.47	59.49	59.52	59.54	59.57	59.60	59.66	59.75	59.84	59.93	60.01	60.09	60.18
PROJECT ELEVATION		59.17		59.37		59.39		59.41	59.43	59.39		59.37	59.17				
DIST. (m)	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+507.19



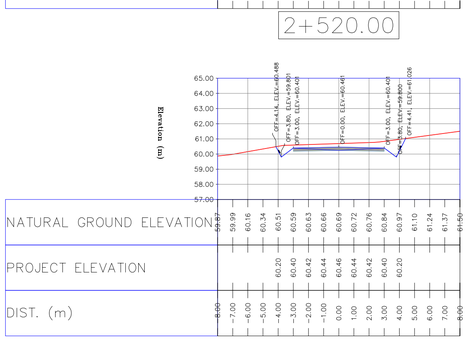
NATURAL GROUND ELEVATION	59.26	59.41	59.53	59.56	59.59	59.62	59.71	59.80	59.97	60.06	60.14	60.23	60.32	60.41	60.50	60.62	
PROJECT ELEVATION		59.75		59.77		59.79		59.81		59.79	59.77	59.75	59.55				
DIST. (m)	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+510.00



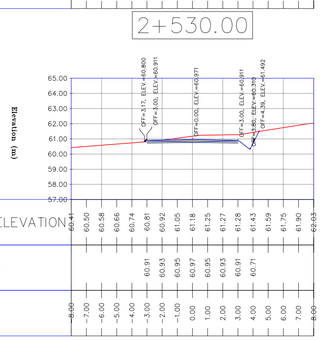
NATURAL GROUND ELEVATION	59.36	59.50	59.55	59.59	59.67	59.76	59.85	59.94	60.03	60.12	60.20	60.29	60.38	60.47	60.56	60.68	60.80
PROJECT ELEVATION		59.89		59.91		59.93		59.95		59.93	59.91	59.89	59.69				
DIST. (m)	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+520.00



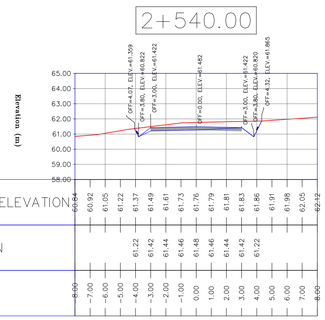
NATURAL GROUND ELEVATION	59.61	59.99	60.16	60.34	60.51	60.59	60.63	60.66	60.69	60.72	60.76	60.84	60.97	61.10	61.24	61.37	61.50
PROJECT ELEVATION		60.20		60.40		60.42		60.44		60.44	60.42	60.40		60.20			
DIST. (m)	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+530.00



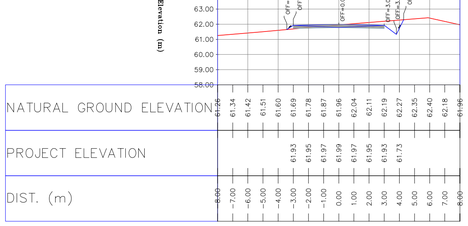
NATURAL GROUND ELEVATION	60.41	60.50	60.58	60.66	60.74	60.81	60.92	61.05	61.18	61.25	61.27	61.28	61.43	61.59	61.75	61.90	62.03
PROJECT ELEVATION		60.91		60.93		60.95		60.97		60.95	60.93	60.91		60.71			
DIST. (m)	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+540.00



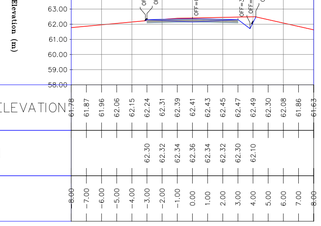
NATURAL GROUND ELEVATION	60.84	60.92	61.05	61.22	61.37	61.49	61.61	61.73	61.76	61.79	61.81	61.83	61.86	61.91	61.98	62.05	62.12
PROJECT ELEVATION		61.22		61.42		61.44		61.46		61.48	61.46	61.44		61.42			
DIST. (m)	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+550.00



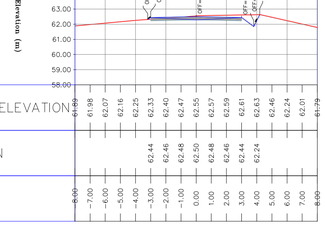
NATURAL GROUND ELEVATION	61.26	61.34	61.42	61.51	61.60	61.69	61.78	61.87	61.96	62.04	62.11	62.19	62.27	62.35	62.40	62.18	61.96
PROJECT ELEVATION		61.93		61.95		61.97		61.99		61.97	61.95	61.93	61.73				
DIST. (m)	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+557.29



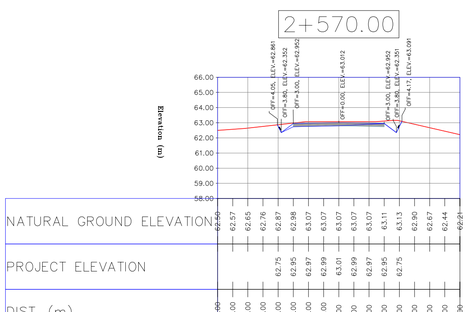
NATURAL GROUND ELEVATION	61.68	61.87	61.96	62.06	62.15	62.24	62.31	62.39	62.41	62.43	62.45	62.47	62.49	62.50	62.08	61.86	61.63
PROJECT ELEVATION		62.30		62.32		62.34		62.36		62.34	62.32	62.30	62.10				
DIST. (m)	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+560.00



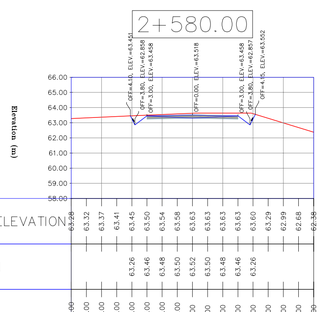
NATURAL GROUND ELEVATION	61.69	61.98	62.07	62.16	62.25	62.33	62.40	62.47	62.55	62.57	62.59	62.61	62.63	62.46	62.24	62.01	61.79
PROJECT ELEVATION		62.44		62.46		62.48		62.50		62.48	62.46	62.44		62.24			
DIST. (m)	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+570.00



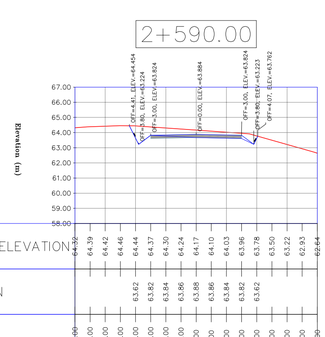
NATURAL GROUND ELEVATION	62.60	62.57	62.65	62.76	62.87	62.98	63.07	63.07	63.07	63.07	63.07	63.11	63.13	62.90	62.67	62.44	62.21
PROJECT ELEVATION		62.75		62.95		62.97		62.99		63.01	62.99	62.97	62.95	62.75			
DIST. (m)	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+580.00



NATURAL GROUND ELEVATION	63.28	63.32	63.37	63.41	63.45	63.50	63.54	63.58	63.63	63.63	63.63	63.63	63.60	63.29	62.99	62.68	62.38
PROJECT ELEVATION		63.26		63.46		63.48		63.50		63.52	63.50	63.48	63.46	63.26			
DIST. (m)	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+590.00



NATURAL GROUND ELEVATION	64.32	64.39	64.42	64.46	64.44	64.37	64.30	64.24	64.17	64.10	64.03	63.96	63.78	63.50	63.22	62.93	62.64
PROJECT ELEVATION		63.62		63.82		63.84		63.86		63.88	63.86	63.84	63.82	63.62			
DIST. (m)	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

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:	MSL

4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
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- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

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7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
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MTO For Civil Works – BK05	BK-BK05-PEDCO-110-CV-MT-0001
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Over Head Line Plan and Profile–BK05	BK-BK05-PEDCO-110-SU-DW-0001

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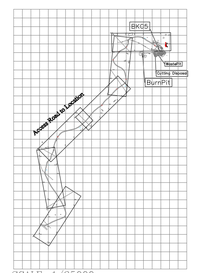
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



SCALE: 1/35000

Coordinate of Bench Marks (UTM-ZONE 39N)

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BM71	442252.211	3287944.656	142.663
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GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

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

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY — PEDCO

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK05
ACCESS ROAD PLAN AND PROFILE

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

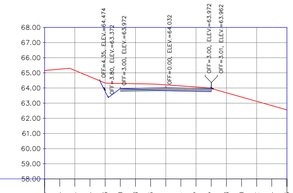
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	41 OF 52	D00

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
APPROVED FOR CONSTRUCTION BY: DATE:

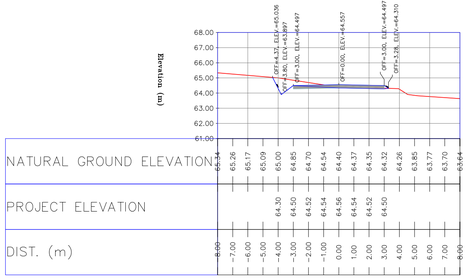
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	41	D00

2+598.30


Elevation (m)
OFF=4.26, ELEV=64.474
OFF=5.80, ELEV=63.372
OFF=3.00, ELEV=63.972
OFF=0.00, ELEV=64.032
OFF=3.00, ELEV=63.972
OFF=3.20, ELEV=63.962

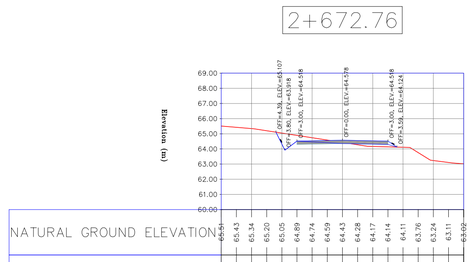
| | | |

2+670.00



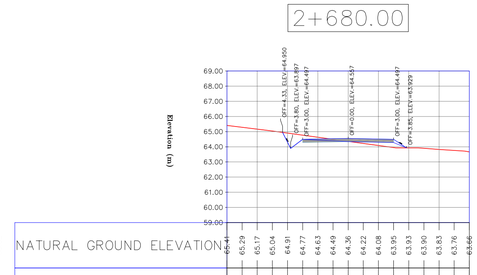
NATURAL GROUND ELEVATION	65.54	65.26	65.17	65.09	65.00	64.85	64.70	64.54	64.40	64.37	64.35	64.32	64.26	63.85	63.77	63.70	63.64		
PROJECT ELEVATION		64.30	64.20	64.52	64.54	64.54	64.56	64.56	64.54	64.54	64.52	64.50							
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00		

2+672.76



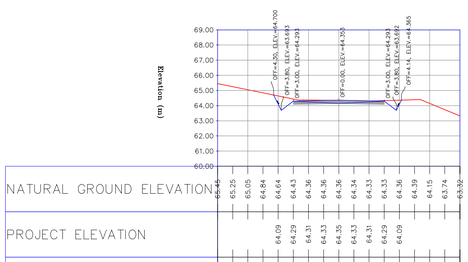
NATURAL GROUND ELEVATION	65.51	65.43	65.34	65.20	65.05	64.89	64.74	64.59	64.43	64.28	64.17	64.14	63.76	63.24	63.11	63.02			
PROJECT ELEVATION		64.32	64.52	64.54	64.56	64.54	64.56	64.54	64.52										
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00		

2+680.00



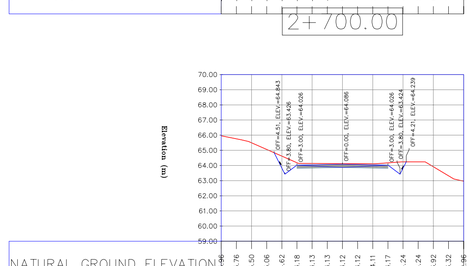
NATURAL GROUND ELEVATION	65.41	65.29	65.17	65.04	64.91	64.77	64.63	64.49	64.36	64.22	64.08	63.95	63.93	63.90	63.83	63.76	63.66		
PROJECT ELEVATION		64.30	64.50	64.52	64.54	64.56	64.54	64.54	64.52	64.50									
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00		

2+690.00



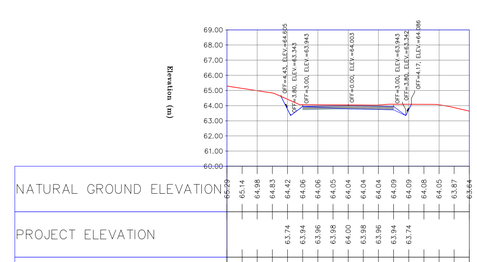
NATURAL GROUND ELEVATION	65.45	65.25	65.05	64.84	64.64	64.43	64.36	64.36	64.36	64.34	64.33	64.33	64.36	64.39	64.15	63.74	63.52		
PROJECT ELEVATION		64.09	64.29	64.31	64.33	64.35	64.33	64.31	64.29	64.33	64.09								
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00		

2+700.00



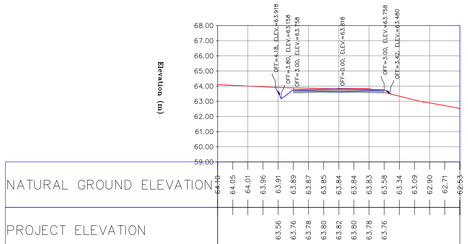
NATURAL GROUND ELEVATION	65.96	65.76	65.50	65.06	64.62	64.18	64.13	64.13	64.12	64.12	64.11	64.17	64.24	64.24	63.92	63.32	62.96		
PROJECT ELEVATION		63.83	64.03	64.05	64.07	64.09	64.07	64.05	64.03	64.03	63.82								
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00		

2+703.08



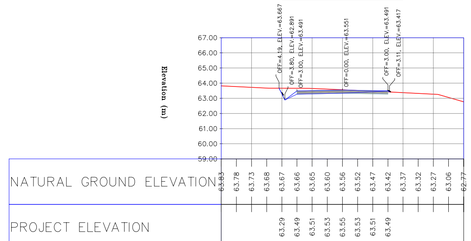
NATURAL GROUND ELEVATION	65.60	65.14	64.98	64.83	64.42	64.06	64.06	64.05	64.04	64.04	64.04	64.09	64.08	64.05	63.87	63.64			
PROJECT ELEVATION		63.74	63.94	63.96	63.98	64.00	63.98	63.96	63.94	63.74									
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00		

2+710.00



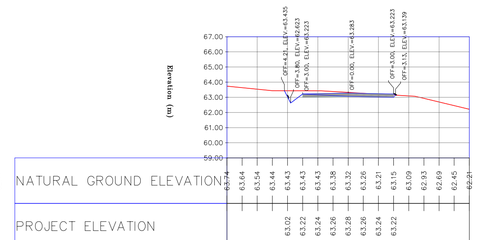
NATURAL GROUND ELEVATION	64.46	64.05	64.01	63.96	63.91	63.89	63.87	63.85	63.84	63.84	63.83	63.58	63.34	63.09	62.90	62.71	62.63		
PROJECT ELEVATION		63.56	63.76	63.78	63.80	63.82	63.84	63.80	63.78	63.76									
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00		

2+720.00



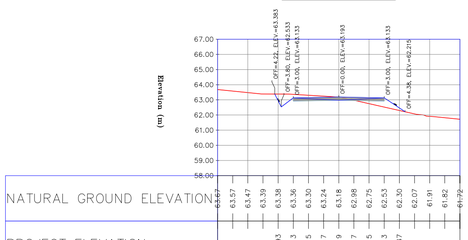
NATURAL GROUND ELEVATION	65.83	63.78	63.73	63.68	63.67	63.66	63.65	63.60	63.56	63.56	63.53	63.52	63.47	63.42	63.37	63.32	63.27	63.06	62.77
PROJECT ELEVATION		63.29	63.49	63.51	63.53	63.53	63.53	63.51	63.49										
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00		

2+730.00



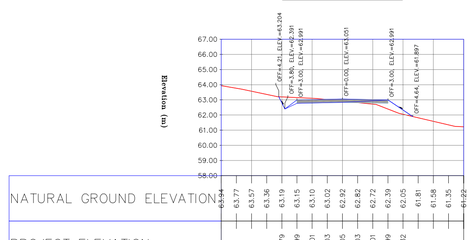
NATURAL GROUND ELEVATION	65.74	63.64	63.54	63.44	63.43	63.43	63.43	63.38	63.32	63.26	63.26	63.21	63.15	63.09	62.93	62.69	62.45	62.21	
PROJECT ELEVATION		63.02	63.22	63.24	63.26	63.28	63.26	63.24	63.22										
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00		

2+733.41



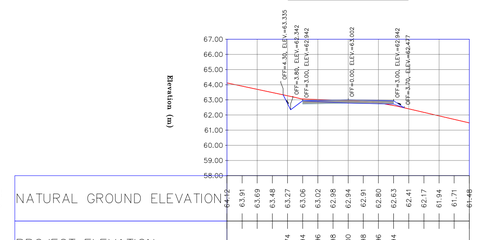
NATURAL GROUND ELEVATION	64.67	63.57	63.47	63.39	63.38	63.36	63.30	63.24	63.18	62.98	62.75	62.53	62.30	62.07	61.91	61.82	61.72		
PROJECT ELEVATION		62.93	63.13	63.15	63.17	63.17	63.19	63.17	63.15	63.13	62.47								
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00		

2+740.00



NATURAL GROUND ELEVATION	65.24	63.77	63.57	63.36	63.19	63.15	63.10	63.02	62.92	62.82	62.72	62.39	62.05	61.81	61.58	61.35	61.22		
PROJECT ELEVATION		62.79	62.99	63.01	63.03	63.05	63.03	63.01	62.99	62.32									
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00		

2+743.23



NATURAL GROUND ELEVATION	64.12	63.91	63.69	63.48	63.27	63.06	63.02	62.98	62.94	62.91	62.80	62.63	62.41	62.17	61.94	61.71	61.48		
PROJECT ELEVATION		62.74	62.94	62.96	62.98	63.00	62.98	62.96	62.94										
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00		

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:	MSL

4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

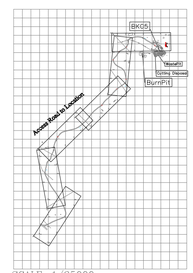
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK05	BK-BK05-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK05	BK-BK05-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK05	BK-BK05-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK05	BK-BK05-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK05	BK-BK05-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VERTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



SCALE: 1/35000

Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5-BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6-BK5	441552.844	3286457.422	63.624
GPS1-BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

REV.	DATE	DESCRIPTION	BY	DATE	BY	DATE
			CHECKED		REV. APPR.	
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
***	**********		**.**	***.****	**.**	***.****

PROJECT NAME:	BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS				
PROJECT NO.:	971020				
EPC CONTRACTOR:	HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES	EPD/EPC CONTRACTOR (GC):	PETROIRAN DEVELOPMENT COMPANY PEDCO		
DRAWING TITLE:	CIVIL AND STRUCTURAL DRAWINGS – BK05 ACCESS ROAD PLAN AND PROFILE				

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	43 OF 52	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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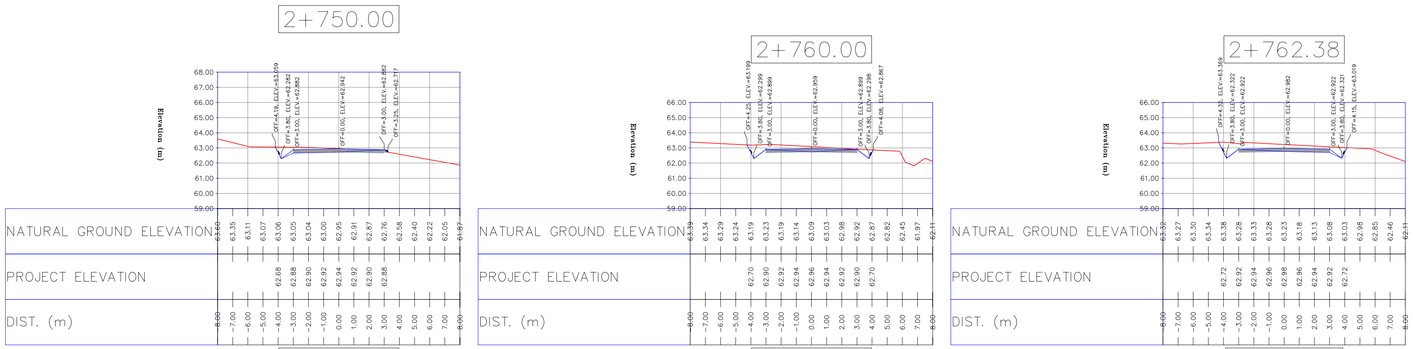
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

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	S	708459	43	D00



NOTES

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ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

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- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

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6-RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.

7-PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001

8-THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK05	BK-BK05-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK05	BK-BK05-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report - BK05	BK-BK05-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK05	BK-BK05-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK05	BK-BK05-PEDCO-110-SU-DW-0001

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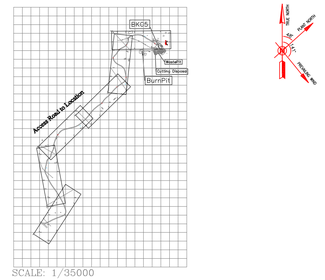
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



Coordinate of Bench Marks (UTM-ZONE 39N)

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BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5-BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6-BK5	441552.844	3286457.422	63.624
GPS1-BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.

THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK05
ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	44 OF 52	D00

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

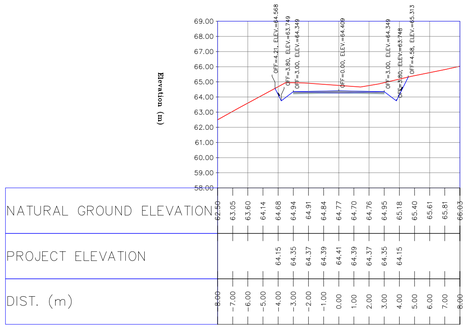
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

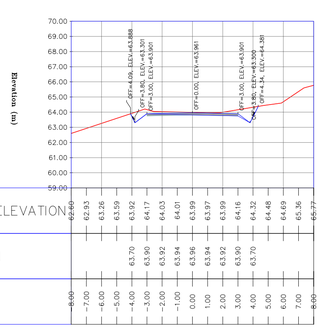
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	44	D00

2+840.00



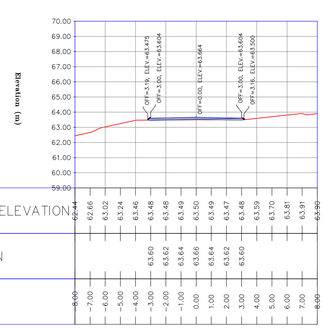
NATURAL GROUND ELEVATION	62.60	63.05	63.60	64.14	64.68	64.84	64.91	64.77	64.70	64.76	64.95	65.18	65.40	65.61	65.81	66.03	66.19
PROJECT ELEVATION				64.15	64.35	64.37	64.39	64.41	64.39	64.37	64.35	64.15					
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+850.00



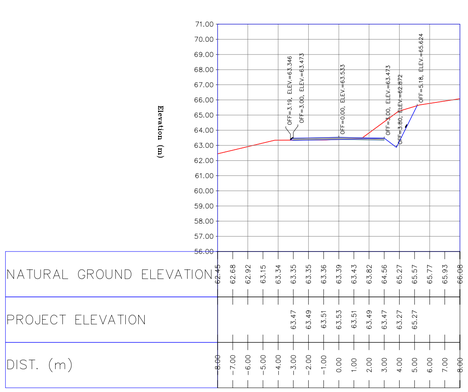
NATURAL GROUND ELEVATION	62.60	62.93	63.26	63.59	63.92	64.17	64.03	64.01	63.99	63.97	63.99	64.16	64.32	64.48	64.69	65.36	65.73
PROJECT ELEVATION					63.70	63.90	63.92	63.94	63.96	63.94	63.92	63.90	63.70				
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+860.00



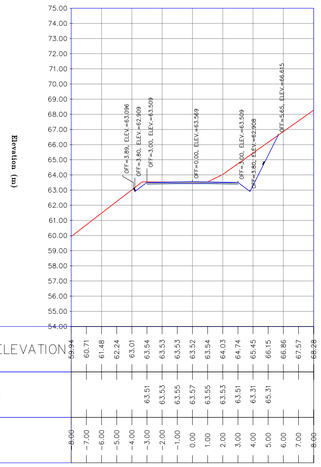
NATURAL GROUND ELEVATION	62.44	62.66	63.02	63.24	63.46	63.48	63.48	63.49	63.50	63.49	63.47	63.48	63.59	63.70	63.81	63.91	63.90
PROJECT ELEVATION						63.60	63.62	63.64	63.66	63.64	63.62	63.60					
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+870.00



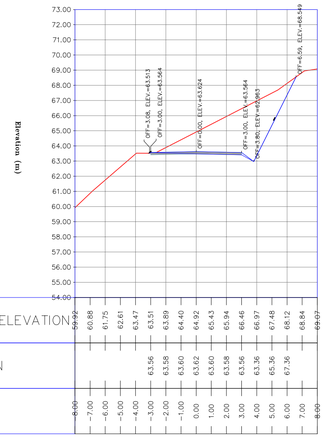
NATURAL GROUND ELEVATION	62.44	62.68	62.92	63.15	63.34	63.35	63.36	63.39	63.43	63.82	64.56	65.27	65.57	65.77	65.93	66.08	66.19
PROJECT ELEVATION					63.47	63.49	63.51	63.53	63.51	63.49	63.47	63.27	65.27				
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+880.00



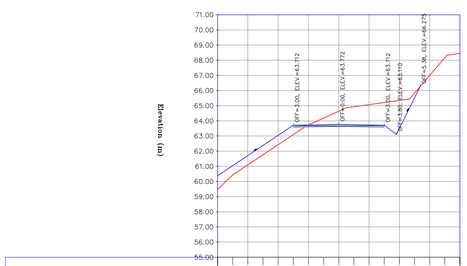
NATURAL GROUND ELEVATION	59.94	60.71	61.48	62.24	63.01	63.54	63.53	63.53	63.52	64.03	64.74	65.45	66.15	66.86	67.57	68.28	68.99
PROJECT ELEVATION					63.51	63.53	63.55	63.57	63.55	63.53	63.51	65.31					
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+883.70



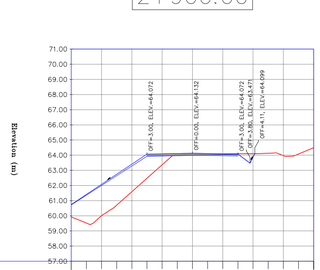
NATURAL GROUND ELEVATION	59.92	60.88	61.75	62.61	63.47	63.51	63.89	64.40	64.92	65.43	65.94	66.46	66.97	67.48	68.12	68.84	69.07
PROJECT ELEVATION						63.56	63.58	63.60	63.62	63.60	63.58	63.56	63.36	65.36	67.36		
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+890.00



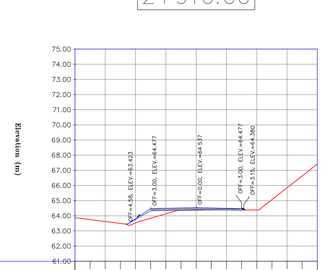
NATURAL GROUND ELEVATION	60.48	60.43	61.10	61.77	62.43	63.09	63.73	64.19	64.64	64.93	65.07	65.21	65.35	65.83	67.00	68.18	68.45
PROJECT ELEVATION						63.04	63.71	63.75	63.77	63.75	63.73	63.71	63.51	65.51			
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+900.00



NATURAL GROUND ELEVATION	59.74	59.93	59.52	60.01	60.70	61.58	62.48	63.37	64.08	64.11	64.07	64.08	64.09	64.10	63.97	64.08	64.49
PROJECT ELEVATION																	
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

2+910.00



NATURAL GROUND ELEVATION	61.68	63.75	63.62	63.49	63.53	63.84	64.13	64.36	64.36	64.37	64.37	64.38	64.38	65.07	65.85	66.63	67.41
PROJECT ELEVATION						63.81	64.48	64.50	64.52	64.54	64.52	64.50	64.48				
DIST. (m)	8.00	−7.00	−6.00	−5.00	−4.00	−3.00	−2.00	−1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00

Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5-BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6-BK5	441552.844	3286457.422	63.624
GPS1-BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

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: MSL
4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

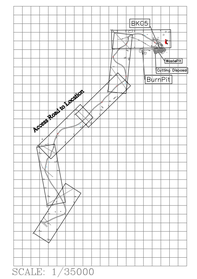
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK05	BK-BK05-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK05	BK-BK05-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK05	BK-BK05-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK05	BK-BK05-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile–BK05	BK-BK05-PEDCO-110-SU-DW-0001

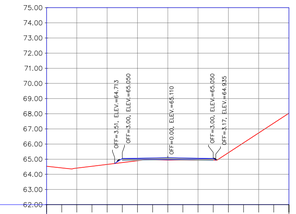
ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VERTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN


BK05
Ashore Road to Lavasan
Bumpad
Bumpad
Bumpad

2+920.00


Elevation (m)
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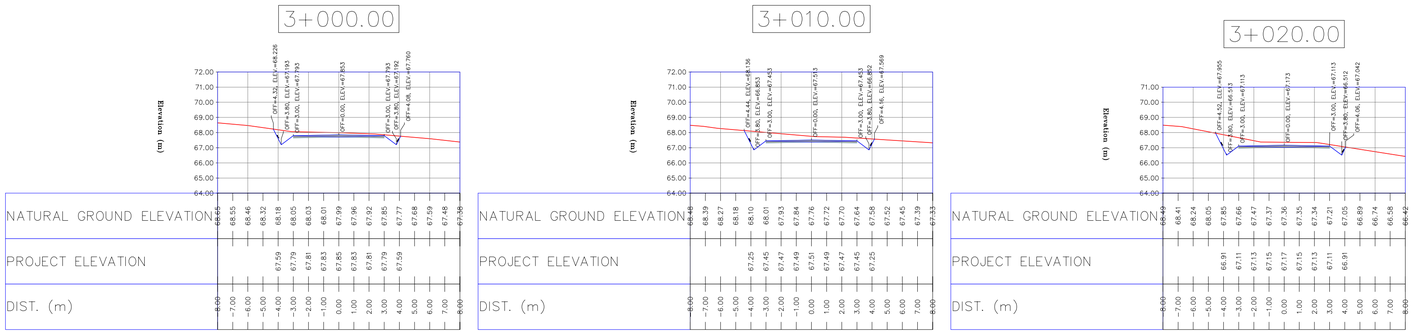
OFF=0.00, ELEV=65.110
OFF=3.00, ELEV=65.059
OFF=1.17, ELEV=64.835

| | | |



NOTES

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VERTICAL DATUM:	MSL

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LEGEND

⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
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MTO For Civil Works - BK05	BK-BK05-PEDCO-110-CV-MT-0001
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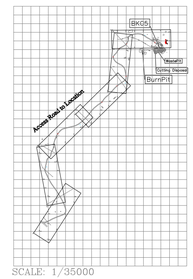
KEY PLAN



SCALE: 1/35000

Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
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BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
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K23	441993.94	3287809.804	155.106

REV.	DATE	DESCRIPTION	BY	DATE	BY	DATE
			CHECKED		REV. APPR.	
***	**********		**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

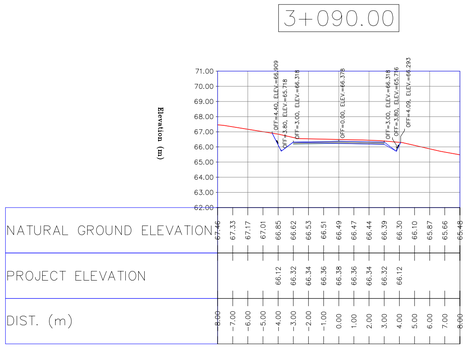
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK05
ACCESS ROAD PLAN AND PROFILE

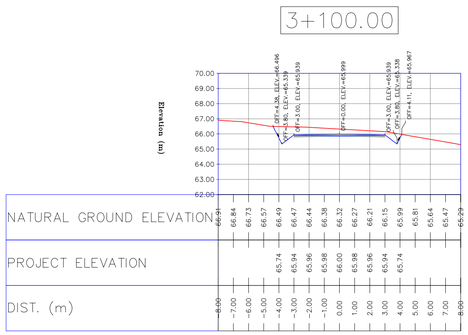
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

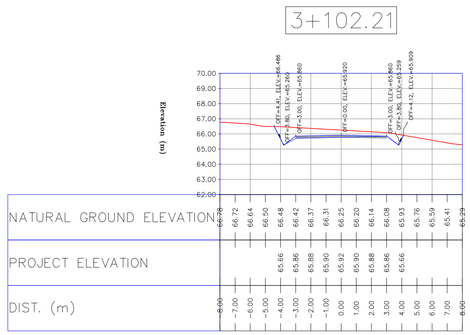
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

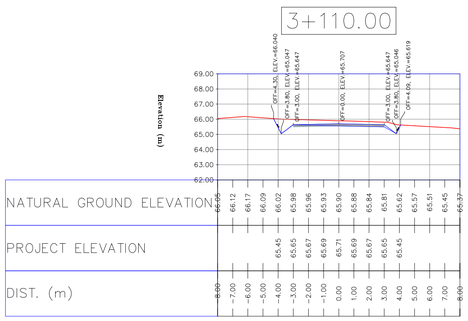
APPROVED FOR CONSTRUCTION | BY: | DATE:

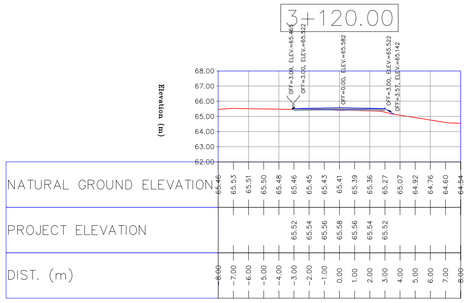
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	47 OF 52	D00	053-073-9184	F	4	S	708459	47	D00

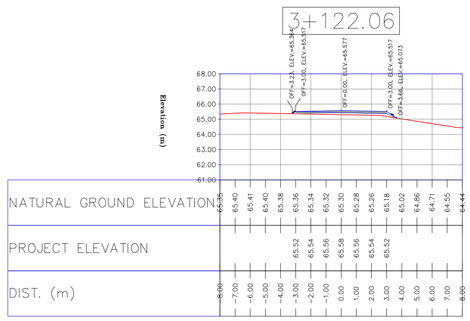


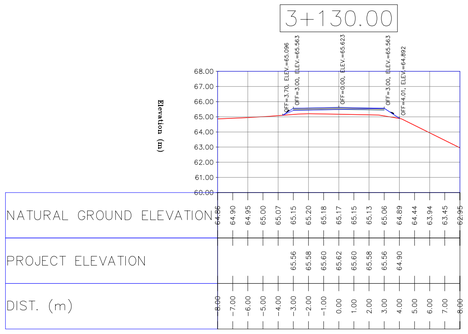


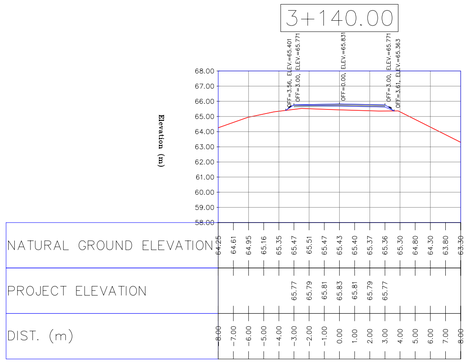


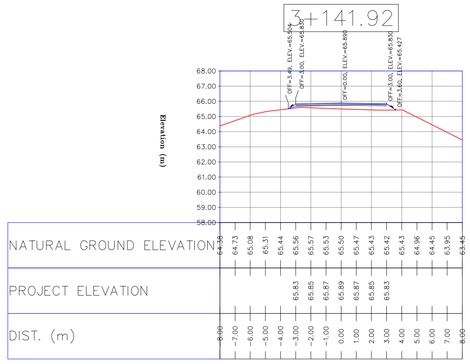


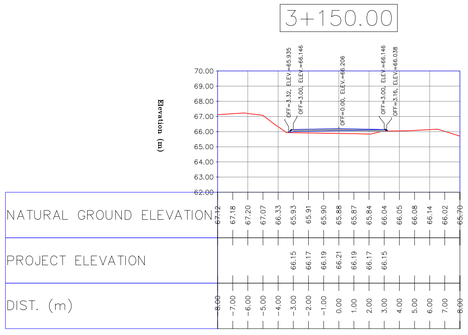


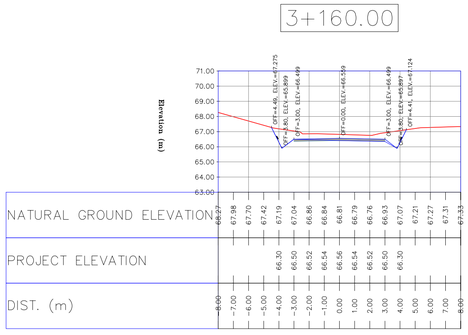


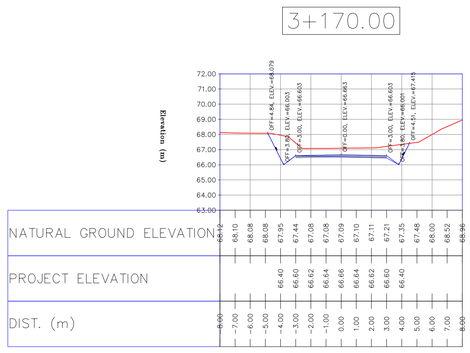












NOTES

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HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

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- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
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LEGEND

⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

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General Civil Layout -BK05	BK-BK05-PEDCO-110-CV-PY-0001
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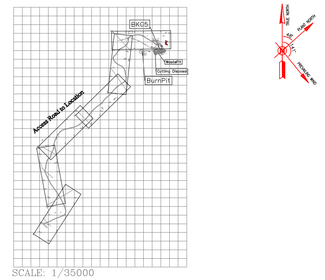
KEY PLAN



Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
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K10	440438.963	3285397.137	21.545
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GPS6-BK5	441552.844	3286457.422	63.624
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GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

REV.	DESCRIPTION	BY / CHECKED	DATE	BY / APPR.	DATE
***	**********	**	***.****	**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK05
ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	48 OF 52	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.

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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

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
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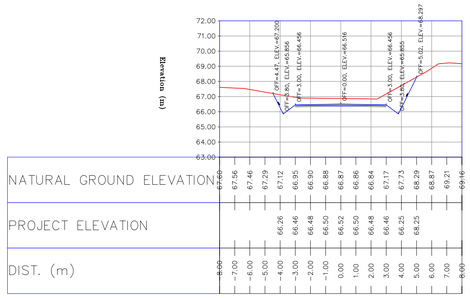
3+180.00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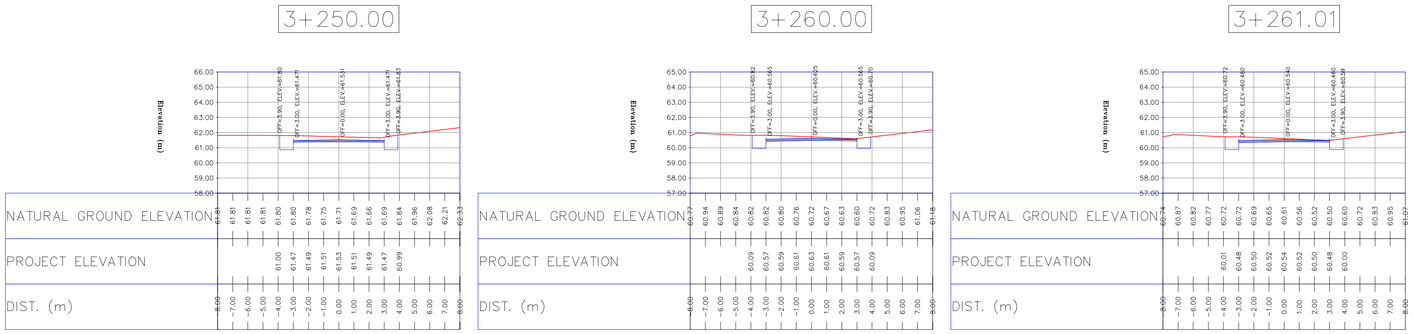
| | | |



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	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

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STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
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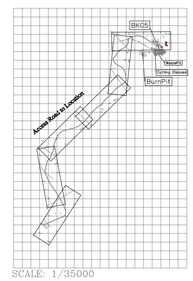
KEY PLAN



SCALE: 1/35000

Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
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REV.	DESCRIPTION	BY	DATE	BY	DATE
***	**********	**	*** ****	**	*** ****
		CHECKED		REV. APPR.	

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK05
ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK05-PEDCO-110-CV-DW-0001	50 OF 52	D00

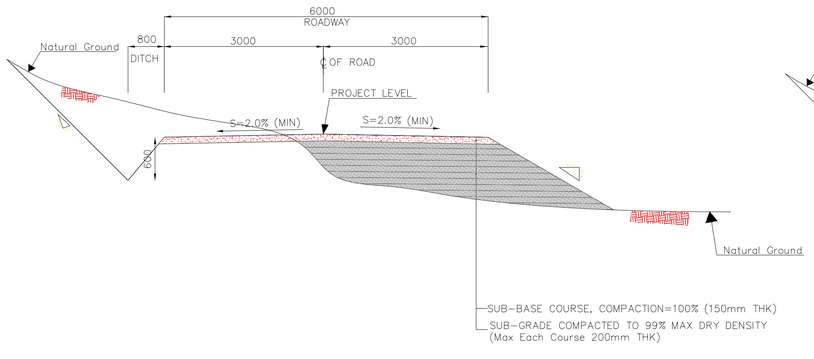
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

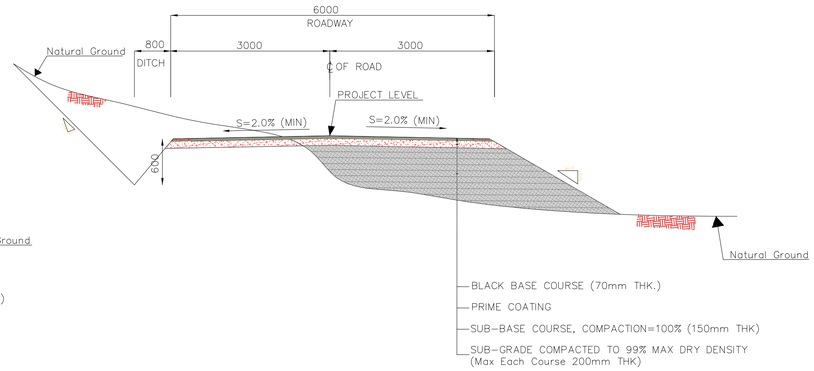
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION	BY:	DATE:

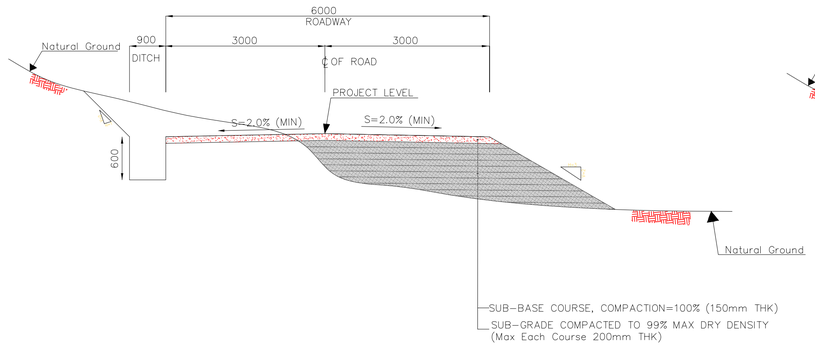
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708459	50	D00



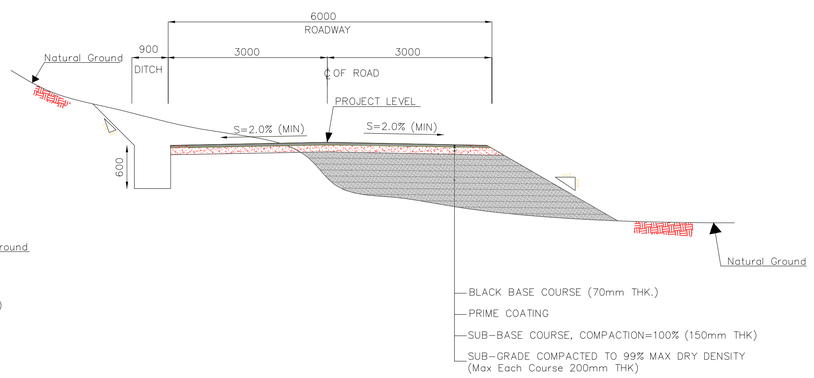
N.T.S. 1 TYPICAL CROSS SECTIONS (Access Road)-Regular Area



N.T.S. 2 TYPICAL CROSS SECTIONS (Access Road)-Asphalt Area (Refer to Table1)



N.T.S. 3 TYPICAL CROSS SECTIONS (Access Road)-Regular Area (AREA#1 in Table 4)



N.T.S. 4 TYPICAL CROSS SECTIONS (Access Road)-Asphalt Area (Refer to AREA#2 in Table 4)

TABLE 1-ASPHALT AREA SPECIFICATION

NAME	KM START	KM END	LENGTH(m)
AREA1	0+000.00	0+100.00	100
AREA2	1+900.00 E=441012,E=3285896	2+800.00	900
		TOTAL	1000

TABLE 2-RETAINING WALL AREA

NAME	START	END	WIDTH(Cm)	ELEVATION
AREA1	E=441485 N=3286676	E=441500 N=3286665	80	TO TOP OF ROAD
AREA2 AT LOCATION	NEXT TO BURNPIT LINE	FIRST SUPPORT	80	TO F.G.L. OF LOCATION
AREA3	E=441321 N=3286639	E=441320 N=3286619	40	TO TOP OF ROAD
AREA4	E=441207 N=3286498	E=441218 N=3286510	60	TO TOP OF ROAD
AREA5	NEW CULVERT (E=440395,E=3285041)	END OF WATER WAY	80	MAX 1m

TABLE 3-LIST OF NEW CULVERT

NUMBER	COORDINATE	TYPE OF CULVERT
1	E=441637 N=3286585	CONCRETE PIPE CULVERT (DIAMETER 80 cm)
2	E=441303 N=3286566	CONCRETE PIPE CULVERT (DIAMETER 80 cm)
3	E=441218 N=3286510	CONCRETE PIPE CULVERT (DIAMETER 80 cm)
4	E=441153 N=3286416	CONCRETE PIPE CULVERT (DIAMETER 80 cm)
5	E=441296 N=3286193	CONCRETE PIPE CULVERT (DIAMETER 80 cm)
6	E=441189 N=3286086	CONCRETE PIPE CULVERT (DIAMETER 80 cm)
7	E=441012 N=3285896	CONCRETE PIPE CULVERT (DIAMETER 80 cm)
8	BK16 ACCESS ROAD INTERSECTION	CONCRETE PIPE CULVERT (DIAMETER 80 cm)
9	E=440395 N=3285041	NEW CULVERT (1(No.SPANS)*3M(WIDTH))

TABLE 4-U SHAPE CHANNEL AREA

NAME	START	END
AREA1	E=441569 N=3286624	CULVERT KM=3+299.00
AREA2	E=441287 N=3286225	E=441296 N=3286193

Coordinate of Bench Marks (UTM-ZONE 39N)

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GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

IMPORTANT NOTE: THE EXACT LOCATION OF NEW CULVERT, RETAINING WALL AND ASPHALT AREA SHALL BE ADJUSTED AT SITE.

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- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.
5-BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6-RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7-PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8-THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

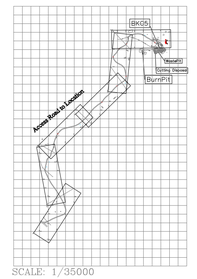
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK05	BK-BK05-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK05	BK-BK05-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report - BK05	BK-BK05-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK05	BK-BK05-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK05	BK-BK05-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



SCALE: 1/35000

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY / PEDCO

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK05
ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
	A1	BK-BK05-PEDCO-110-CV-DW-0001	51 OF 52	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

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	S	708459	51	D00

EARTH WORK MATERIAL TAKE OFF-ACCESS ROAD BK05

Total Volume Table

Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+000.00	0.03	0.53	0.00	0.00	0.00	0.00
0+010.00	0.00	2.34	0.16	14.34	0.16	14.34
0+020.00	0.00	2.28	0.00	23.09	0.16	37.42
0+021.95	0.00	2.29	0.00	4.45	0.16	41.87
0+030.00	0.61	0.78	2.44	12.45	2.60	54.32
0+040.00	0.41	0.36	5.06	5.78	7.66	60.11
0+048.88	0.49	0.00	3.96	1.63	11.62	61.73
0+050.00	0.25	0.38	0.41	0.21	12.03	61.94
0+060.00	0.00	1.22	1.26	8.06	13.30	70.00
0+070.00	0.00	1.34	0.00	12.84	13.30	82.85
0+075.82	0.00	1.42	0.00	8.05	13.30	90.90
0+080.00	0.00	1.42	0.00	5.94	13.30	96.84
0+090.00	0.00	1.84	0.00	16.29	13.30	113.13
0+100.00	0.29	1.19	1.44	15.12	14.74	128.25
0+110.00	0.00	2.44	1.44	18.12	16.18	146.37
0+111.89	0.00	2.34	0.00	4.51	16.18	150.87
0+120.00	0.10	1.18	0.42	14.30	16.60	165.18
0+130.00	0.00	1.74	0.52	14.64	17.12	179.82
0+138.39	0.00	1.32	0.00	12.85	17.12	192.67
0+140.00	0.00	1.30	0.00	2.11	17.12	194.78
0+150.00	0.00	2.02	0.00	16.63	17.12	211.41
0+160.00	0.00	2.03	0.00	20.27	17.12	231.67
0+164.90	0.00	1.90	0.00	9.62	17.12	241.30
0+170.00	0.00	1.93	0.00	9.75	17.12	251.05
0+180.00	0.00	2.09	0.00	20.10	17.12	271.15
0+190.00	0.00	2.31	0.00	22.00	17.12	293.15
0+200.00	0.00	1.95	0.00	21.29	17.12	314.44
0+210.00	0.00	2.30	0.00	21.25	17.12	335.69
0+220.00	0.00	1.78	0.00	20.41	17.12	356.10
0+230.00	0.00	1.71	0.00	17.44	17.12	373.55
0+240.00	0.00	1.57	0.00	16.40	17.12	389.95
0+243.57	0.00	1.58	0.00	5.63	17.12	395.58
0+250.00	0.00	1.54	0.00	10.11	17.12	405.69
0+260.00	0.00	0.87	0.00	12.15	17.12	417.84
0+270.00	0.00	2.30	0.00	15.73	17.12	433.57
0+280.00	0.40	1.09	1.96	16.80	19.09	450.37
0+280.56	0.44	1.08	0.24	0.61	19.32	450.98
0+290.00	0.00	1.55	2.05	12.31	21.37	463.29
0+300.00	0.00	1.54	0.00	15.50	21.37	478.79
0+310.00	0.00	2.03	0.00	18.05	21.37	496.84
0+317.55	0.00	1.66	0.00	14.07	21.37	510.91
0+320.00	0.00	1.49	0.00	3.86	21.37	514.77
0+330.00	0.03	1.02	0.16	12.57	21.54	527.34
0+335.58	0.47	0.62	1.41	4.58	22.94	531.91
0+340.00	0.91	0.45	3.02	2.40	25.96	534.31
0+350.00	0.89	0.40	8.94	4.35	34.90	538.66
0+360.00	0.79	0.37	8.39	3.94	43.29	542.60
0+361.38	0.71	0.37	1.04	0.51	44.33	543.11
0+370.00	0.00	1.24	3.05	7.02	47.37	550.13
0+380.00	0.00	1.64	0.00	14.46	47.37	564.59
0+387.17	0.00	1.65	0.00	11.82	47.37	576.41
0+390.00	0.00	1.71	0.00	4.76	47.37	581.17
0+400.00	0.00	2.05	0.00	18.79	47.37	599.96
0+410.00	0.00	1.60	0.00	18.24	47.37	618.21
0+420.00	0.00	1.36	0.00	14.78	47.37	632.99
0+420.29	0.00	1.36	0.00	0.40	47.37	633.38
0+430.00	0.00	1.09	0.00	11.86	47.37	645.25
0+440.00	0.00	0.96	0.00	10.26	47.37	655.50
0+450.00	0.48	0.51	2.41	7.35	49.78	662.85
0+454.42	0.02	0.61	1.11	2.46	50.89	665.31
0+460.00	0.05	0.47	0.20	3.01	51.09	668.32
0+470.00	0.00	0.87	0.26	6.73	51.35	675.05
0+480.00	0.00	1.28	0.01	10.75	51.36	685.80
0+488.55	0.00	1.23	0.00	10.74	51.36	696.54
0+490.00	0.00	1.23	0.00	1.78	51.36	698.33
0+500.00	0.01	1.11	0.03	11.68	51.39	710.00
0+502.69	0.02	1.06	0.03	2.91	51.42	712.91
0+510.00	0.00	1.06	0.07	7.76	51.50	720.67
0+520.00	0.01	0.99	0.08	10.26	51.57	730.94
0+530.00	0.02	0.96	0.17	9.73	51.74	740.67
0+533.20	0.01	1.02	0.05	3.16	51.79	743.82
0+540.00	0.01	1.01	0.07	6.90	51.86	750.73
0+550.00	0.29	0.35	1.51	6.83	53.37	757.56
0+560.00	0.00	1.05	1.46	7.02	54.83	764.58
0+563.71	0.00	1.29	0.00	4.34	54.83	768.92
0+570.00	0.00	1.29	0.00	8.12	54.83	777.04
0+580.00	0.00	1.07	0.00	11.81	54.83	788.85
0+590.00	0.01	0.50	0.06	7.89	54.89	796.74
0+600.00	0.00	1.00	0.06	7.51	54.95	804.24
0+610.00	0.12	0.84	0.62	9.20	55.58	813.45
0+620.00	0.09	0.94	1.07	8.90	56.65	822.34
0+630.00	0.00	3.03	0.45	19.86	57.10	842.21
0+640.00	0.00	1.19	0.00	21.11	57.10	863.32
0+650.00	0.01	1.11	0.06	11.50	57.16	874.82
0+660.00	0.51	0.50	2.58	8.06	59.74	882.87
0+661.51	0.58	0.00	0.82	0.38	60.57	883.25
0+670.00	0.83	0.00	6.00	0.00	66.56	883.25
0+680.00	0.78	0.00	8.03	0.00	74.60	883.25
0+684.13	0.76	0.00	3.18	0.00	77.78	883.25
0+690.00	0.65	0.00	4.14	0.00	81.91	883.25
0+700.00	0.01	0.81	3.31	4.04	85.22	887.29
0+706.76	0.00	1.17	0.05	6.67	85.27	893.96
0+710.00	0.00	1.35	0.00	4.08	85.27	898.04
0+720.00	0.00	3.37	0.00	23.60	85.27	921.64
0+730.00	0.87	0.00	4.34	16.84	89.61	938.48
0+740.00	1.73	0.00	12.97	0.00	102.58	938.48
0+750.00	2.47	0.00	20.98	0.00	123.56	938.48
0+760.00	2.26	0.00	23.65	0.00	147.21	938.48
0+770.00	1.75	0.00	20.04	0.00	167.25	938.48
0+780.00	1.63	0.00	16.90	0.00	184.15	938.48

Total Volume Table

Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+790.00	1.15	0.00	13.89	0.00	198.04	938.48
0+800.00	0.58	0.00	8.65	0.00	206.69	938.48
0+810.00	0.42	0.35	4.93	1.77	211.62	940.25
0+813.80	0.52	0.00	1.76	0.67	213.38	940.92
0+820.00	0.62	0.00	3.59	0.00	216.97	940.92
0+830.00	0.00	0.73	3.18	3.51	220.15	944.43
0+832.74	0.00	1.91	0.01	3.55	220.16	947.98
0+840.00	0.00	2.30	0.00	15.18	220.16	963.16
0+850.00	0.44	0.70	2.26	14.75	222.41	977.92
0+851.68	0.30	0.79	0.64	1.17	223.06	979.09
0+860.00	0.53	1.18	3.44	8.16	226.50	987.25
0+870.00	0.96	0.59	7.43	8.84	233.93	996.09
0+880.00	0.81	0.67	8.87	6.33	242.80	1002.42
0+890.00	0.05	1.27	4.33	9.71	247.13	1012.13
0+900.00	0.00	1.20	0.27	12.34	247.40	1024.47
0+910.00	0.00	1.80	0.00	15.01	247.40	1039.48
0+920.00	0.13	1.06	0.64	14.31	248.04	1053.79
0+930.00	2.18	0.91	11.52	9.85	259.56	1063.63
0+940.00	0.00	2.88	10.88	18.95	270.44	1082.58
0+950.00	0.60	2.66	3.01	24.69	273.45	1107.27
0+958.99	2.97	2.29	16.05	19.57	289.50	1126.84
0+960.00	2.91	2.34	3.16	2.08	292.66	1128.92
0+970.00	0.00	2.82	15.45	23.75	308.11	1152.67
0+971.13	0.00	2.89	0.00	3.05	308.11	1155.72
0+980.00	0.00	14.78	0.00	72.33	308.11	1228.05
0+983.28	0.00	7.22	0.00	33.08	308.11	1261.13
0+990.00	0.01	2.99	0.03	34.30	308.14	1295.44
0+998.10	1.62	0.00	6.59	12.12	314.73	1307.55
1+000.00	2.56	0.00	3.95	0.00	318.68	1307.55
1+010.00	0.14	0.64	13.40	3.43	332.08	1310.98
1+019.71	0.02	0.86	0.77	7.73	332.85	1318.71
1+020.00	0.02	0.86	0.01	0.25	332.86	1318.96
1+030.00	0.10	0.88	0.59	9.26	333.45	1328.22
1+040.00	0.00	1.46	0.49	12.13	333.94	1340.35
1+041.32	0.00	1.54	0.00	2.01	333.94	1342.36
1+045.34	0.00	1.55	0.00	6.21	333.94	1348.57
1+050.00	0.00	1.88	0.00	7.96	333.94	1356.53
1+060.00	0.00	5.59	0.00	36.40	333.94	1392.93
1+061.31	0.00	6.52	0.00	7.69	333.94	1400.62
1+070.00	0.00	5.42	0.00	50.10	333.94	1450.72
1+077.29	0.00	1.63	0.00	24.84	333.94	1475.56
1+080.00	0.00	2.62	0.00	5.77	333.95	1481.33
1+090.00	1.23	0.36	6.16	14.90	340.10	1496.23
1+095.18	0.63	0.71	4.82	2.77	344.92	1499.00
1+100.00	0.93	4.94	3.66	14.07	348.58	1513.06
1+110.00	0.10	2.25	4.98	37.12	353.56	1550.18
1+117.65	0.03	1.00	0.50	12.84	354.06	1563.03
1+120.00	0.16	0.52	0.22	1.85	354.28	1564.88
1+130.00	0.27	1.20	2.18	8.60	356.46	1573.48
1+140.00	0.54	0.84	4.05	10.23	360.50	1583.70
1+140.12	0.56	0.83	0.07	0.10	360.57	1583.81
1+149.52	0.77	0.55	6.24	6.49	366.81	1590.29
1+150.00	0.55	0.62	0.32	0.28	367.12	1590.57
1+160.00	0.00	1.25	2.79	9.22	369.92	1599.79
1+169.12	0.73	0.71	3.29	8.97	373.21	1608.76
1+170.00	0.74	0.67	0.65	0.61	373.85	1609.37
1+175.25	0.73	0.71	3.29	8.97	373.21	1608.76
1+180.00	0.71	0.60	7.19	6.52	381.04	1615.90
1+188.71	0.21	2.79	3.94	15.09	384.98	1630.99
1+190.00	0.13	3.38	0.21	3.98	385.19	1634.97
1+200.00	0.02	9.15	0.72	62.67	385.91	1697.64
1+210.00	0.37	2.02	1.96	55.89	387.87	1753.53
1+220.00	1.55	0.00	9.62	10.12	397.49	1763.65
1+223.68	0.90	0.00	4.50	0.00	401.99	1763.65
1+230.00	0.00	1.37	2.82	4.33	404.82	1767.98
1+240.00	1.89	0.00	9.43	6.85	414.25	1774.83
1+250.00	0.69	0.53	12.88	2.61	427.13	1777.43
1+260.00	0.19	0.62	4.41	5.66	431.54	1783.09
1+270.00	0.10	1.57	1.44	10.81	432.99	1793.90
1+278.78	0.00	2.15	0.42	16.24	433.41	1810.15
1+280.00	0.00	4.02	0.00	3.75	433.41	1813.90
1+290.00	1.85	0.00	9.25	20.08	442.66	1833.98
1+300.00	0.57	0.56	12.07	2.82	454.72	1836.80
1+310.00	0.00	4.57	2.82	25.72	457.55	1862.52
1+320.00	0.00	3.88	0.00	42.33	457.55	1904.85
1+330.00	0.00	2.97	0.00	34.30	457.55	1939.15
1+333.89	0.00	2.38	0.00	10.39	457.55	1949.54
1+338.71	0.00	1.68	0.00	9.78	457.55	1959.33
1+340.00	0.00	1.57	0.00	2.09	457.55	1961.41
1+350.00	0.10	0.73	0.49	11.71	458.04	1973.12
1+360.00	0.19	0.91	1.40	8.50	459.44	1981.62
1+365.95	0.13	1.01	0.91	5.89	460.36	1987.51
1+370.00	0.12	0.96	0.50	4.10	460.85	1991.62
1+380.00	0.09	0.67	1.04	8.39	461.90	2000.01
1+390.00	0.01	0.58	0.50	6.46	462.40	2006.47
1+393.18	0.00	0.55	0.02	1.86	462.42	2008.32
1+400.00	0.00	0.73	0.01	4.35	462.43	2012.68
1+410.00	0.01	0.79	0.05	7.56	462.48	2020.24
1+420.00	0.01	0.67	0.07	7.26	462.55	2027.51
1+430.00	0.00	0.50	0.04	5.83	462.59	2033.33
1+440.00	0.03	0.77	0.18	6.36	462.77	2039.69
1+450.00	0.00	0.81	0.17	7.91	462.94	2047.60
1+460.00	0.01	0.21	0.07	5.07	463.01	2052.67
1+470.00	0.00	0.49	0.09	3.49	463.10	2056.16
1+480.00	0.01	0.68	0.07	5.86	463.17	2062.02
1+490.00	0.00	1.11	0.06	8.94	463.23	2070.96
1+499.71	0.00	1.13	0.00	10.85	463.23	2081.81
1+500.00	0.00	1.12	0.00	0.33	463.23	2082.13
1+510.00	0.00	1.35	0.00	12.35	463.23	2094.48
1+520.00	0.00	1.65	0.00	14.97	463.23	2109.45
1+529.23	0.00	0.96	0.00	12.11	463.23	2121.56

Total Volume Table

Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
1+530.00	0.00	0.95	0.00	0.74	463.23	2122.30
1+540.00	0.00	1.52	0.00	12.43	463.23	2134.73
1+550.00	0.01	1.49	0.04	15.16	463.27	2149.89
1+558.75	0.00	1.44	0.05	13.02	463.32	2162.91
1+560.00	0.00	1.42	0.00	1.79	463.32	2164.70
1+561.23	0.00	1.40	0.00	1.73	463.33	2166.44
1+570.00	0.00	1.38	0.04	12.35	463.37	2178.79
1+580.00	0.00	1.14	0.02	12.67	463.39	2191.46
1+581.20	0.00	1.25	0.00	1.43	463.39	2192.89
1+590.00	0.00	1.41	0.00	11.70	463.39	2204.59
1+600.00	0.00	1.32	0.00	13.64	463.39	2218.23
1+601.17	0.00	1.30	0.00	1.54	463.39	2219.77
1+610.00	0.00	1.60	0.00	12.77	463.39	2232.54
1+620.00	0.00	1.51	0.00	15.56	463.39	2248.10
1+630.00	0.00	1.66	0.00	15.89	463.39	2263.99
1+632.13	0.00	1.63	0.00	3.51	463.39	2267.50
1+640.00	0.01	0.87	0.06	9.85	463.44	2277.35
1+650.00	0.00	1.27	0.07	10.73	463.51	2288.08
1+650.18	0.00	1.28	0.00	0.23	463.51	2288.31
1+660.00	0.00	1.54	0.00	13.83	463.51	2302.14
1+668.23	0.00	1.20	0.00	11.25	463.51	2313.39
1+670.00	0.00	1.07	0.00	2.00	463.51	2315.39
1+671.55	0.00	1.03	0.00	1.62	463.51	2317.01
1+680.00	0.01	0.79	0.03	7.73	463.54	2324.73
1+690.00	1.05	0.00	5.30	4.00	468.84	2328.73
1+700.00	0.95	0.00	10.02	0.00	478.85	2328.73
1+701.45	0.66	0.43	1.17	0.31	480.02	2329.04
1+710.00	3.92	0.00	19.52	1.85	499.54	2330.89
1+720.00	1.25	0.00	25.84	0.00	525.38	2330.89
1+730.00	2.47	0.00	18.60	0.00	543.98	2330.89
1+731.36	2.44	0.40	3.33	0.27	547.31	2331.16
1+740.00	0.00	1.89	10.53	9.89	557.85	2341.05
1+750.00	1.11	1.39	5.55	16.40	563.40	2357.45
1+760.00	0.00	1.91	5.55	16.50	568.95	2373.96
1+770.00	0.26	0.85	1.28	13.81	570.23	2387.76
1+773.41	0.72	0.00	1.66	2.48	571.89	2390.24
1+780.00	0.67	0.71	4.62	4.28	576.51	2394.52
1+790.00	0.12	0.82	3.97	7.58	580.48	2402.10
1+800.00	0.06	2.79	0.90	17.80	581.38	2419.91
1+800.30	0.23	3.07	0.04	0.87	581.42	2420.78
1+810.00	0.17	6.01	1.97	43.49	583.39	2464.26
1+820.00	0.71	0.00	4.44	29.73	587.83	2493.99
1+827.19	0.69	0.00	5.05	0.00	592.87	2493.99
1+830.00	0.70	0.00	1.95	0.00	594.82	2493.99
1+840.00	0.17	0.94	4.34	4.69	599.16	2498.68
1+850.00	0.16	0.75	1.64	8.42	600.80	2507.10
1+854.36	0.00	1.18	0.35	4.21	601.15	2511.31
1+860.00	0.01	1.49	0.02	7.53	601.17	2518.85
1+870.00	0.13	0.76	0.67	11.15	601.84	2530.00
1+880.00	1.37	0.72	7.52	7.30	609.36	2537.30
1+888.47	0.00	3.51	5.83	17.72	615.19	2555.02
1+890.00	0.00	3.70	0.00	5.51	615.19	2560.54
1+900.00	0.00	1.95	0.02	27.96	615.21	2588.49
1+910.00	0.54	1.08	2.75	14.99	617.96	2603.48
1+920.00	0.68	1.52	6.13	12.85	624.09	2616.33
1+922.58	0.68	0.85	1.75	3.06	625.84	2619.38
1+925.80	0.59	0.63	2.04	2.37	627.88	2621.75
1+930.00	0.89	0.47	2.93	2.60	630.81	2624.35
1+932.31	0.83	0.00	1.91	0.61	632.73	2624.96
1+938.81	1.45	0.00	7.43	0.00	640.16	2624.96
1+940.00	1.65	0.00	1.84	0.00	642.00	2624.96
1+950.00	0.97	5.51	13.12	27.56	655.12	2652.52
1+960.00	0.95	0.00	9.61	27.56	664.73	2680.07
1+970.00	0.52	0.00	7.33	0.00	672.06	2680.07
1+980.00	0.00	5.49	2.58	27.47	674.64	2707.54
1+986.55	0.28	1.95	0.93	24.36	675.57	2731.90
1+990.00	0.39	1.02	1.12	5.30	676.69	2737.21
2+000.00	2.24	0.90	12.65	9.91	689.34	2747.12
2+004.21	1.72	0.92	8.09	3.94	697.43	2751.06
2+010.00	0.52	1.18	6.35	6.26	703.79	2757.32
2+020.00	1.26	0.96	8.69	11.05	712.48	2768.38
2+021.86	1.32	0.95	2.36	1.85	714.84	2770.22
2+030.00	0.02	0.97	5.43	7.82	720.27	2778.04
2+037.92	0.00	1.10	0.06	8.21	720.33	2786.25
2+040.00	0.00	0.70	0.00	1.88	720.34	2788.13
2+050.00	0.53	0.48	2.71	5.79	723.04	2793.92
2+053.92	0.23	0.54	1.52	1.94	724.57	2795.86
2+060.00	0.00	1.04	0.72	4.70	725.29	2800.56
2+069.92	0.00	1.86	0.00	14.25	725.29	2814.81
2+070.00	0.00	1.88	0.00	0.15	725.29	2814.96
2+080.00	0.00	1.94	0.00	19.08	725.29	2834.04
2+090.00	0.00	2.71	0.00	23.23	725.30	2857.27
2+100.00	0.00	3.27	0.00	29.91	725.30	2887.18
2+110.00	0.00	2.44	0.00	28.57	725.30	2915.75
2+120.00	0.00	2.90	0.00	26.73	725.30	2942.48
2+130.00	0.00	2.16	0.00	25.29	725.30	2967.78
2+140.00	0.00	2.41	0.00	22.83	725.30	2990.61
2+150.00	0.34	0.98	1.68	16.93	726.97	3007.53
2+160.00	0.11	1.31	2.24	11.41	729.22	3018.94
2+160.48	0.08	1.33	0.05	0.64	729.26	3019.58
2+170.00	0.64	1.04	3.40	11.43	732.67	3031.01
2+180.00	0.13	1.14	3.82	11.10	736.49	3042.11
2+182.79	0.00	2.04	0.18	4.44	736.68	3046.55
2+190.00	0.00	2.58	0.00	16.73	736.68	3063.28
2+200.00	0.00	2.79	0.00	26.93	736.68	3090.21
2+205.10	0.00	2.62	0.00	13.82	736.68	3104.03
2+210.00	0.00	2.48	0.00	12.51	736.68	3116.54
2+220.00	0.00	2.42	0.00	24.52	736.68	3141.06
2+230.00	0.00	2.07	0.00	22.48	736.68	3163.54
2+240.00	0.45	0.90	2.24	14.84	738.91	3178.37

Total Volume Table

Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
2+250.00	0.00	1.27	2.24	10.82	741.16	3189.19
2+260.00	0.00	1.86	0.00	15.63	741.16	3204.82
2+270.00	0.00	9.72	0.00	57.90	741.16	3262.72
2+280.00	0.00	5.30	0.00	75.11	741.16	3337.83
2+290.00	0.00	1.62	0.00	34.61	741.16	3372.44
2+300.00	0.08	1.25	0.39	14.35	741.55	3386.79
2+301.46	0.03	1.29	0.08	1.85	741.63	3388.63
2+310.00	0.00	1.33	0.14	11.33	741.77	3399.97
2+320.00	0.00	1.15	0.00	12.56	741.77	3412.53
2+330.00	0.00	1.88	0.00	15.41	741.78	3427.94
2+330.10	0.00	1.89	0.00	0.19	741.78	3428.13
2+340.00	0.00	2.99	0.00	24.61	741.78	3452.74
2+350.00	0.00	3.41	0.00	32.16	741.78	3484.90
2+358.74	0.00	1.90	0.00	23.20	741.78	3508.10
2+360.00	0.00	1.93	0.00	2.41	741.78	3510.51
2+370.00	0.00	1.26	0.00	15.94	741.78	3526.45
2+380.00	0.21	0.82	1.05	10.36	742.82	3536.81
2+390.00	1.50	0.44	8.54	6.26	751.36	3543.08
2+400.00	0.00	1.65	7.49	10.43	758.85	3553.51
2+410.00	0.00	2.09	0.00	18.67	758.85	3572.18
2+420.00	0.00	3.26	0.00	26.75	758.85	3598.93
2+430.00	0.00	3.90	0.00	35.83	758.85	3634.76
2+430.38	0.00	3.89	0.00	1.48	758.85	3636.25
2+440.00	0.00	3.52	0.00	35.64	758.85	3671.89
2+450.00	0.00	2.35	0.00	29.43	758.85	3701.32
2+460.00	0.00	2.07	0.00	22.23	758.85	3723.55
2+468.78	0.01	1.23	0.04	14.73	758.89	3738.28
2+470.00	0.07	1.07	0.05	1.40	758.94	3739.68
2+480.00	0.30	0.82	1.84	9.75	760.78	3749.43
2+490.00	0.00	1.54	1.48	12.07	762.27	3761.50
2+500.00	0.00	2.43	0.00	20.12	762.27	3781.62
2+507.19	0.13	1.63	0.45	14.89	762.72	3796.51
2+510.00	0.14	1.65	0.38	4.62	763.10	3801.13
2+520.00	0.00	0.07	0.71	23.60	763.81	3824.73
2+530.00	0.