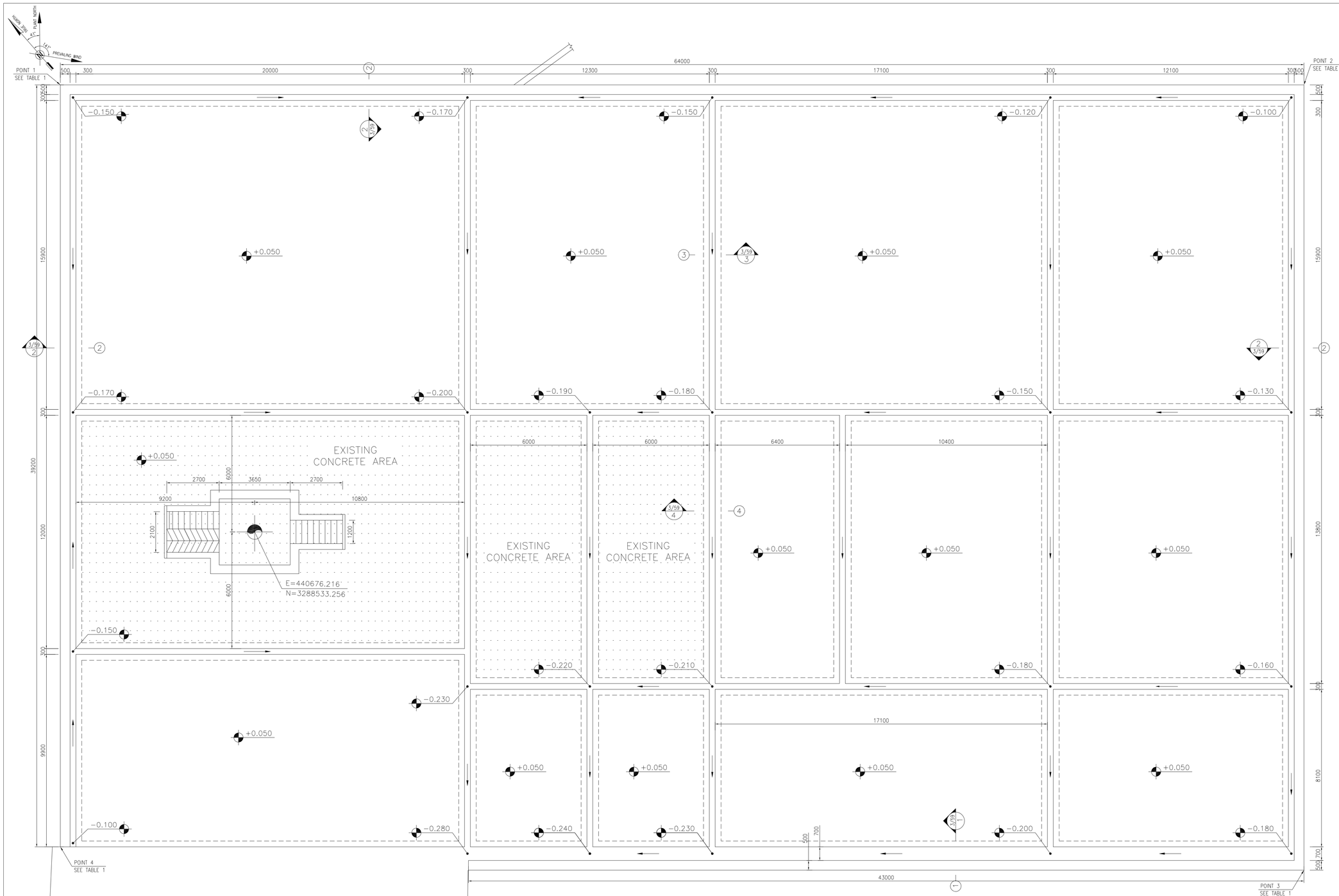


WELLPAD FOUNDATION PLAN
1:100 — 1 — FORMWORK

TABLE 1 (CORNERS COORDINATES)		
Point 1	E=440683.782	N=3288557.167
Point 2	E=440732.041	N=3288515.130
Point 3	E=440705.505	N=3288484.667
Point 4	E=440658.035	N=3288527.608

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:

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.

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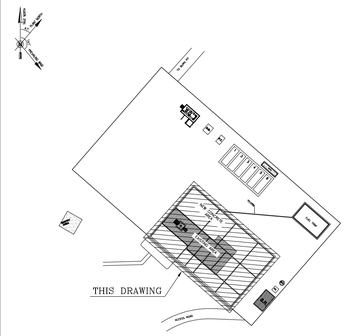
±0.00 =+75.35(R.G.L.)MSL

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	B.O.P.	BOTTOM OF PIPE
SUB GRADE	R.G.L.	ROUGH GRADING LEVEL
SLOPE	B.O.CH.	BOTTOM OF CHANNEL
EXISTING CONCRETE AREA		

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 -BK12	BK-BK12-PEDCO-110-CV-PY-0001
ROUGH GRADING PLANS -BK12	BK-BK12-PEDCO-110-CV-PY-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

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 BK12 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
BK12 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

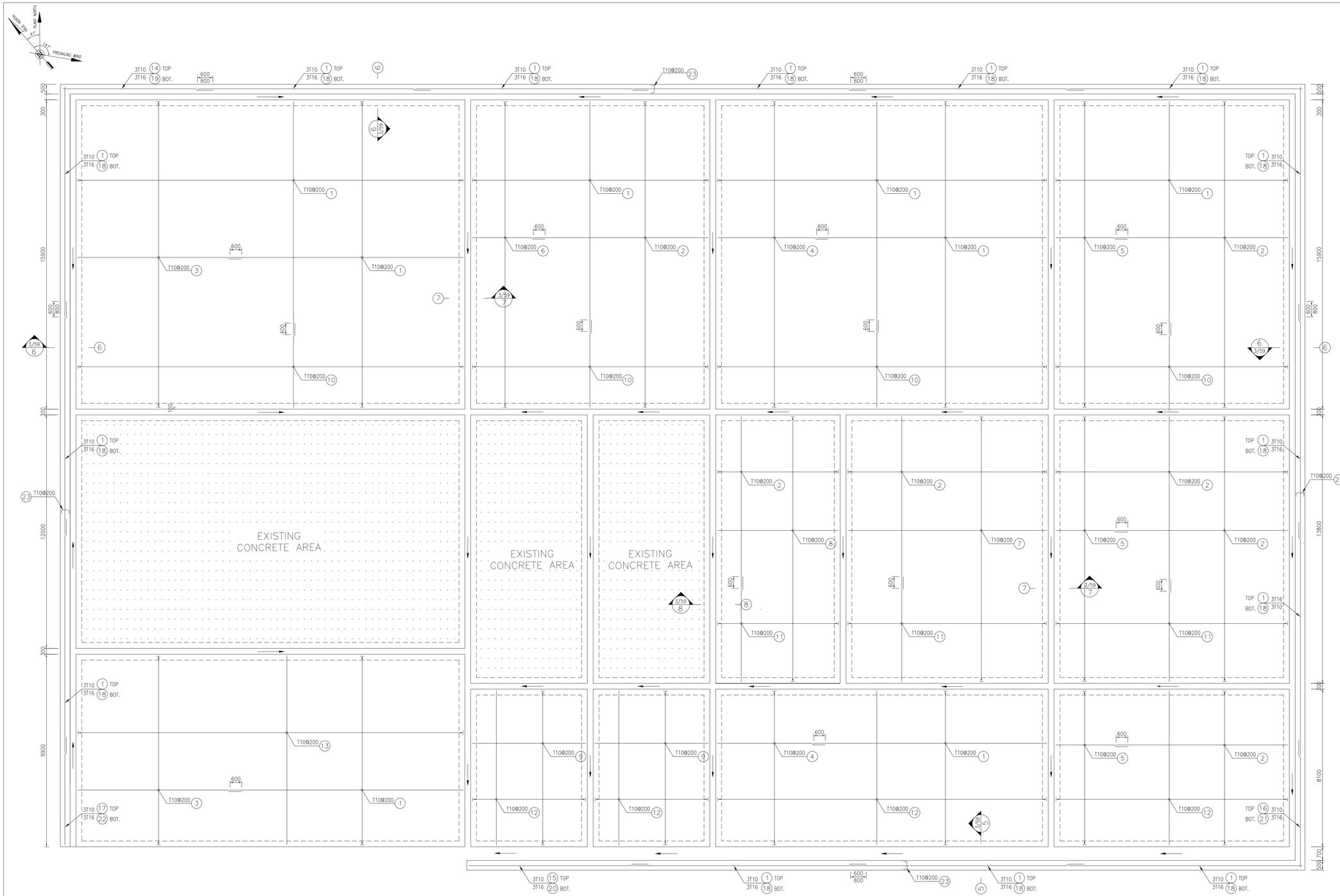
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK12
WELLPAD FOUNDATION FORMWORK PLAN

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A1	BK-BK12-PEDCO-110-CV-DW-0001	1 OF 59	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	A	708295	01	D00



WELLPAD FOUNDATION PLAN
REINFORCEMENT
1:100

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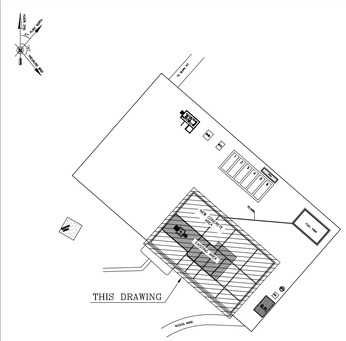
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KEY PLAN



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

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

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

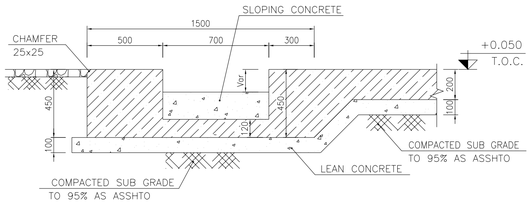
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

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

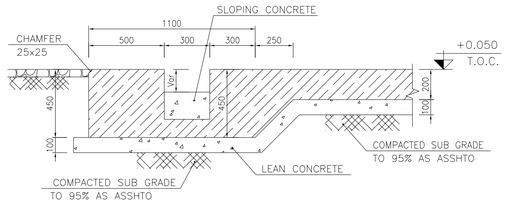
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK12
WELLPAD FOUNDATION REINFORCEMENT PLAN

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AS SHOWN	A1	BK-BK12-PEDCO-110-CV-DW-0001	2 OF 59	D00

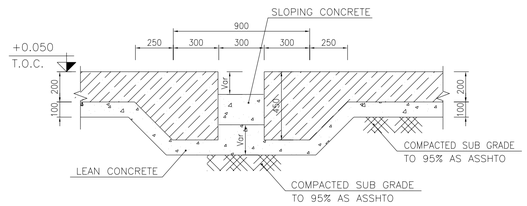
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	A	708295	02	D00



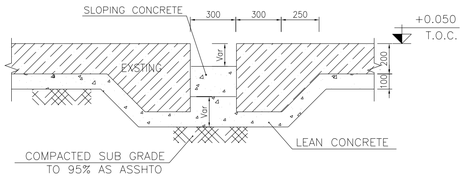
1:20 1/49 (1) TYPICAL CHANNEL SECTION
IN BOUNDARY SIDE FORMWORK



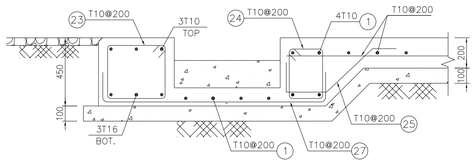
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IN BOUNDARY SIDE FORMWORK



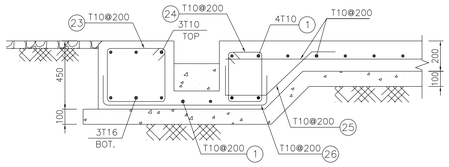
1:20 1/49 (3) TYPICAL CHANNEL SECTION
IN MIDDLE SIDE FORMWORK



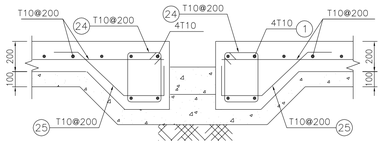
1:20 1/49 (4) TYPICAL CHANNEL SECTION
IN MIDDLE SIDE FORMWORK



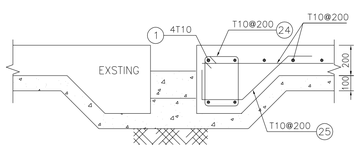
1:20 2/49 (5) TYPICAL CHANNEL SECTION
IN BOUNDARY SIDE REINFORCEMENT



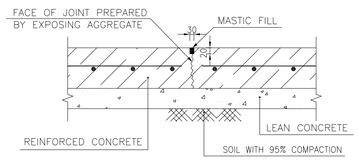
1:20 2/49 (6) TYPICAL CHANNEL SECTION
IN BOUNDARY SIDE REINFORCEMENT



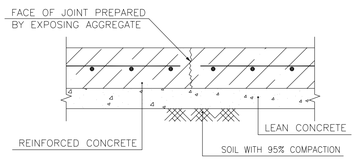
1:20 2/49 (7) TYPICAL CHANNEL SECTION
IN MIDDLE SIDE REINFORCEMENT



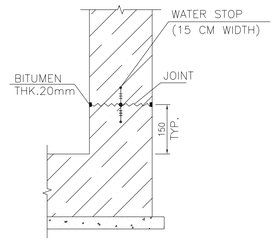
1:20 2/49 (8) TYPICAL CHANNEL SECTION
IN MIDDLE SIDE REINFORCEMENT



N.T.S. - (9) TYPICAL CONTRACTION JOINT



N.T.S. - (10) TYPICAL CONSTRUCTION JOINT



N.T.S. - (11) TYPICAL DETAIL OF WATER STOP

BAR BENDING SCHEDULE – WELLPAD

Pos	Spec.	Shape	L/A	No.	T10	T16
1	T10	12000	12.00	805	9660.0	
2	T10	9000	9.00	398	3582.0	
3	T10	8450	8.45	122	1030.9	
4	T10	5550	5.55	113	627.15	
5	T10	3550	3.55	180	639.0	
6	T10	3750	3.75	76	285.0	
7	T10	10250	10.25	66	676.5	
8	T10	6250	6.25	66	412.5	
9	T10	5850	5.85	74	432.9	
10	T10	4350	4.35	295	1283.25	
11	T10	5250	5.25	142	745.5	
12	T10	7950	7.95	195	1550.25	
13	T10	9750	9.75	97	945.75	
14	T10	6800	6.80	45	306.0	
15	T10	8800	8.80	45	396.0	
16	T10	6000	6.00	45	270.0	
17	T10	4800	4.80	45	216.0	
18	T16	12000	12.00	42		504.00
19	T16	7800	7.80	3		23.4
20	T16	9400	9.40	3		28.2
21	T16	6600	6.60	3		19.80
22	T16	5400	5.40	3		16.2
23	T10	300 (350) 100	1.50	925	1387.5	
24	T10	250 (150) 100	1.00	2840	2840.0	
25	T10	150 200 400 150	0.90	2840	2556.0	
26	T10	150 950 150	1.25	710	887.5	
27	T10	150 1350 150	1.65	210	346.5	
TOTAL LENGTH OR AREA (m/m2)					31076.20	591.60
UNIT WEIGTH (Kg)					0.617	1.578
WEIGTH (Kg)					19174.02	933.55
GRAND TOTAL (Kg)					20110	

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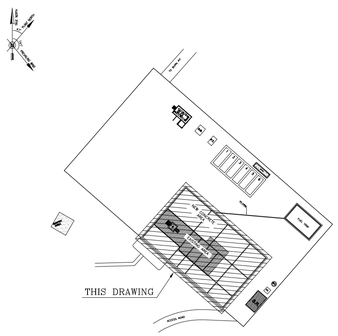
LEGEND AND ABBREVIATION

REINFORCED CONCRETE
LEAN CONCRETE
CEMENT BLOCK WALL
GRAVEL
SUB GRADE
SLOPE
EXISTING CONCRETE AREA

T.O.F.	TOP OF FOUNDATION
T.O.W.	TOP OF WALL
T.O.C.	TOP OF CONCRETE
B.O.P.	BOTTOM OF PIPE
R.G.L.	ROUGH GRADING LEVEL
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STANDARD DETAILS OF MISCELLANEOUS ITEMS	BK-GNRAL-PEDCO-000-CV-DW-0040

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 BK12 WHF MODIFICATIONS
PROJECT NO.: 971020

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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EPD/EPC CONTRACTOR(GC): PEDCO — PETROIRAN DEVELOPMENT COMPANY

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

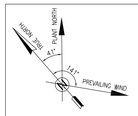
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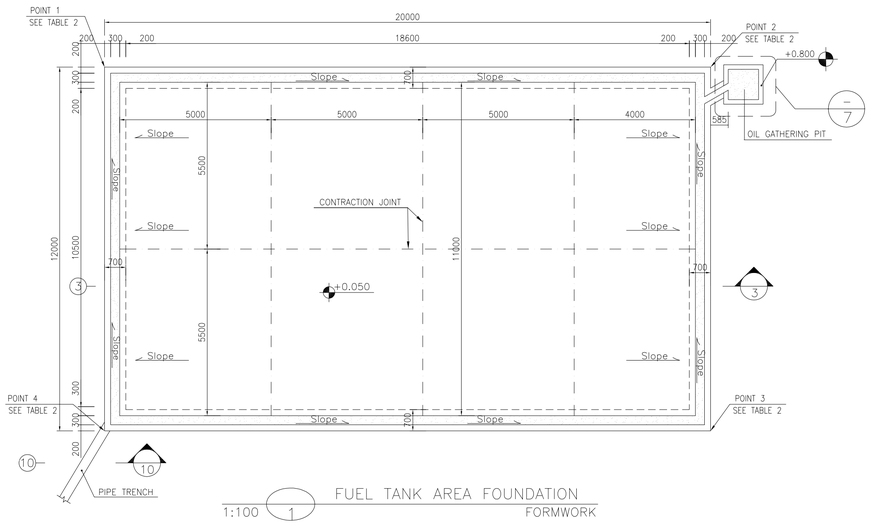
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK12
WELLPAD FOUNDATION DETAILS & SECTIONS

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

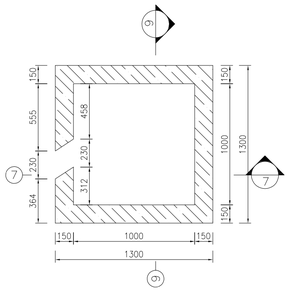
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AS SHOWN	A1	BK-BK12-PEDCO-110-CV-DW-0001	03 OF 59	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
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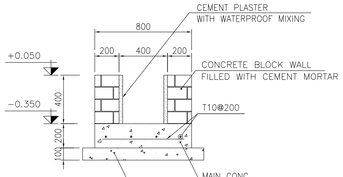




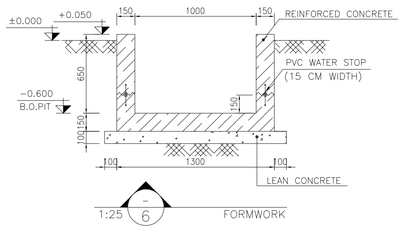
FUEL TANK AREA FOUNDATION FORMWORK
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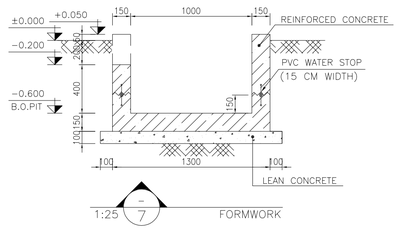
OIL GATHERING PIT
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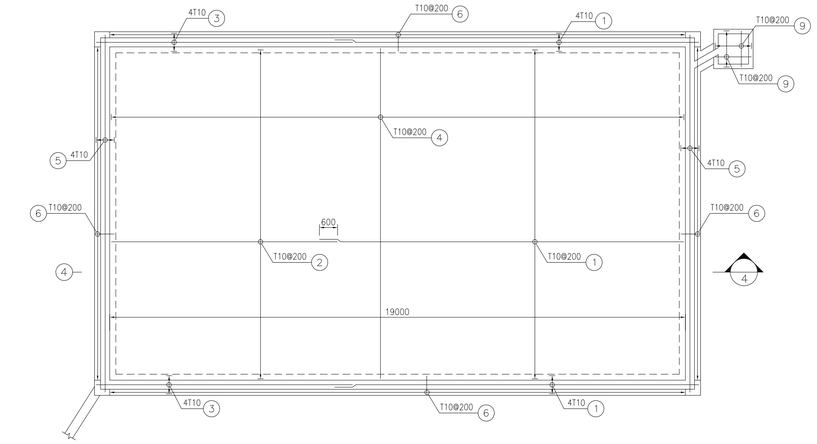
TYPICAL SECTION OF PIPE TRENCH
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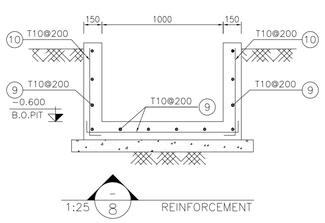
FORMWORK
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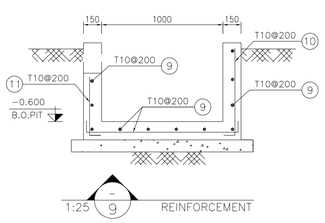
FORMWORK
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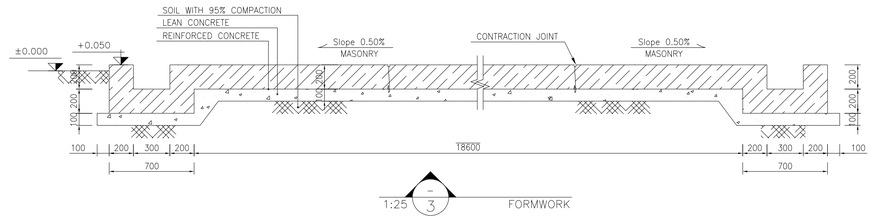
FUEL TANK AREA FOUNDATION REINFORCEMENT
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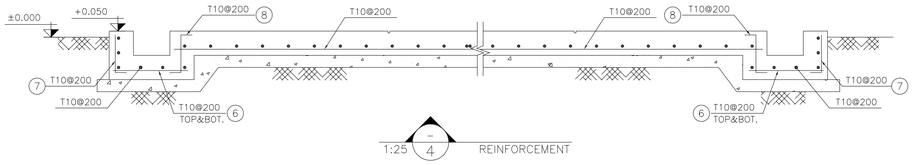
REINFORCEMENT
1:25 (8)



REINFORCEMENT
1:25 (9)



FORMWORK
1:25 (3)



REINFORCEMENT
1:25 (4)

BAR BENDING SCHEDULE – FUEL TANK					
Pos	Spec.	Shape	L/A	No.	T10
1	T10	12000	12.00	64	768.0
2	T10	7450	7.45	56	417.2
3	T10	8450	8.45	8	67.6
4	T10	10850	10.85	100	1085.0
5	T10	11850	11.85	8	94.8
6	T10	550	0.55	300	165.0
7	T10	150 250	0.40	300	120.0
8	T10	150 250 150	0.55	300	165.0
9	T10	150 150 1150 150	1.45	23	33.35
10	T10	150 650	0.80	34	27.20
11	T10	150 400	0.55	14	7.70
TOTAL LENGTH OR AREA (m)					2950.85
UNIT WEIGTH (Kg/m)					0.617
WEIGTH (Kg)					1820.67
GRAND TOTAL (Kg)					1830

TABLE 2 (CORNERS COORDINATES)		
Point 1	E=440749.346	N=3288547.275
Point 2	E=440764.427	N=3288534.139
Point 3	E=440756.545	N=3288525.090
Point 4	E=440741.464	N=3288538.227

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- THE EMULSION ON CONCRETE EXPOSED WITH SOIL SHOULD BE B-90-COAT.M.E IS A BITUMEN-BASED ONE-COMPONENT EMULSION PROTECTIVE COATING TO PREVENT THE PENETRATION OF DESTRUCTIVE SALTS & IONS. THIS MATERIAL IS CONTROLLED ACCORDING TO THE FOLLOWING STANDARDS: ASTM D1227, ASTM D2939, ASTM D1640

±0.00 =+75.35(R.G.L.)MSL

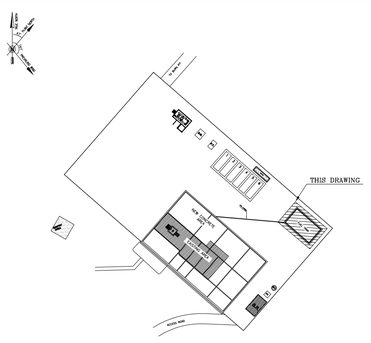
LEGEND AND ABBREVIATION

REINFORCED CONCRETE
LEAN CONCRETE
CEMENT BLOCK WALL
GRAVEL
SUB GRADE
SLOPE
EXISTING CONCRETE AREA

T.O.F.	TOP OF FOUNDATION
T.O.W.	TOP OF WALL
T.O.C.	TOP OF CONCRETE
B.O.P.	BOTTOM OF PIPE
R.G.L.	ROUGH GRADING LEVEL
B.O.CH.	BOTTOM OF CHANNEL

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 -BK12	BK-BK12-PEDCO-110-CV-PY-0001
ROUGH GRADING PLANS -BK12	BK-BK12-PEDCO-110-CV-PY-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

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 BK12 WHF MODIFICATIONS
PROJECT NO.: 971020

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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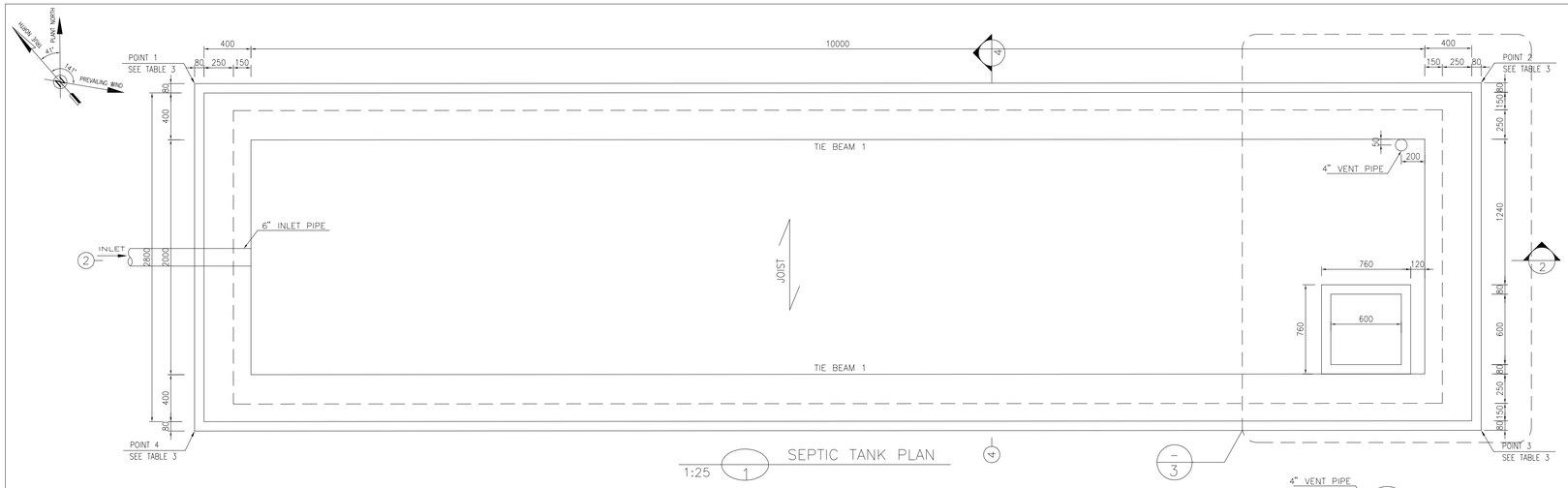
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SUB-SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

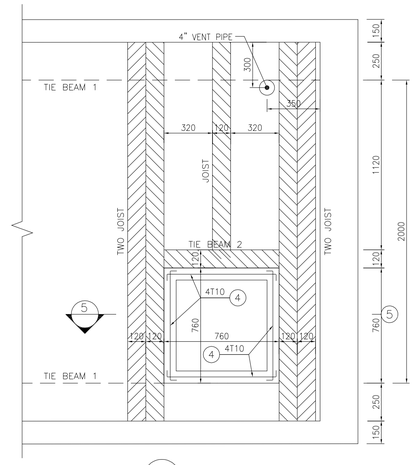
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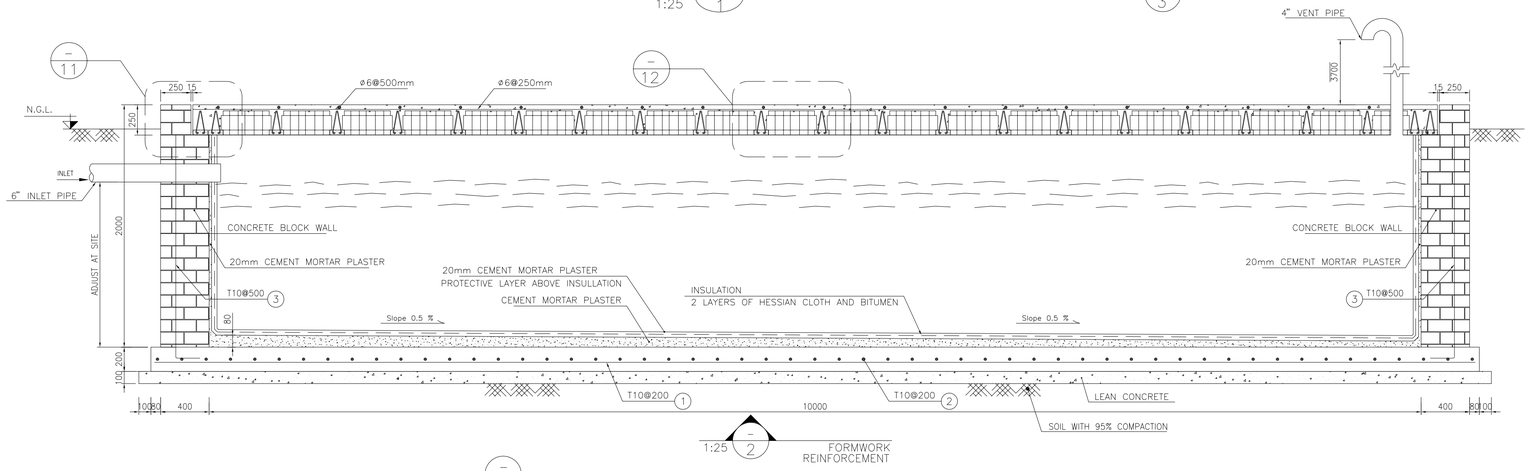
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FUEL TANK FORMWORK & REINFORCEMENT PLAN-SECTION

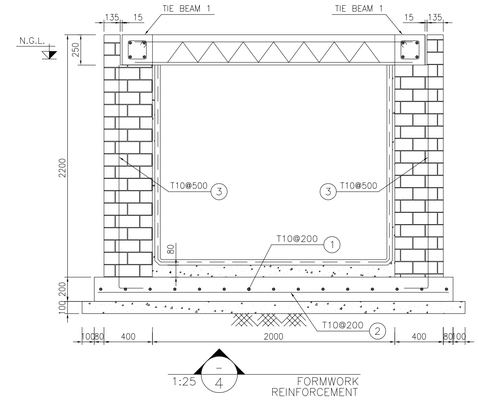
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APPROVED FOR CONSTRUCTION | BY: | DATE:

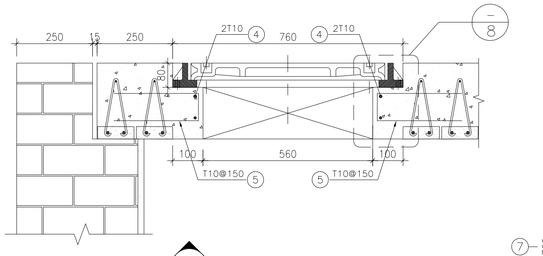
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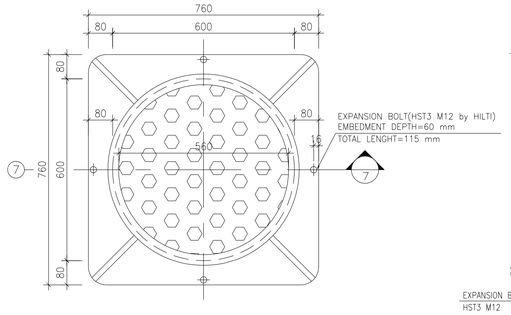


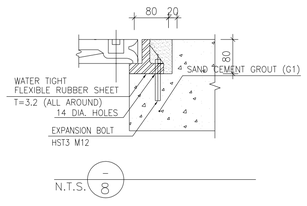


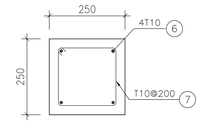


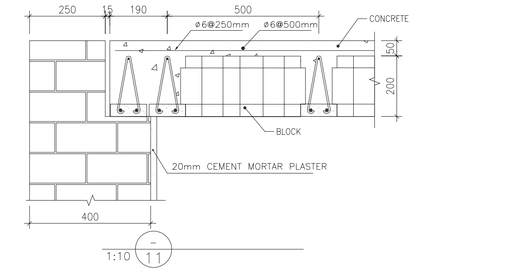


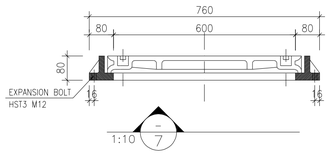


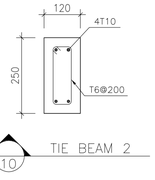


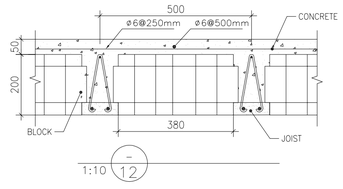


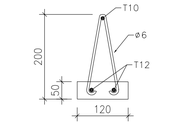


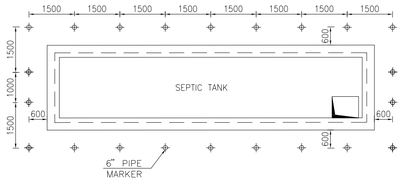


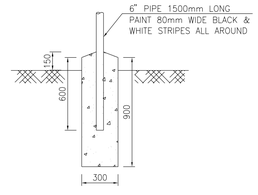












NOTES

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- THE EMULSION ON CONCRETE EXPOSED WITH SOIL SHOULD BE B-90-COAT.M.E IS A BITUMEN-BASED ONE-COMPONENT EMULSION PROTECTIVE COATING TO PREVENT THE PENETRATION OF DESTRUCTIVE SALTS & IONS. THIS MATERIAL IS CONTROLLED ACCORDING TO THE FOLLOWING STANDARDS: ASTM D1227, ASTM D2939, ASTM D1640

±0.00 =+75.35(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	B.O.P.	BOTTOM OF PIPE
SUB GRADE	R.G.L.	ROUGH GRADING LEVEL
SLOPE	B.O.CH.	BOTTOM OF CHANNEL
EXISTING CONCRETE AREA		

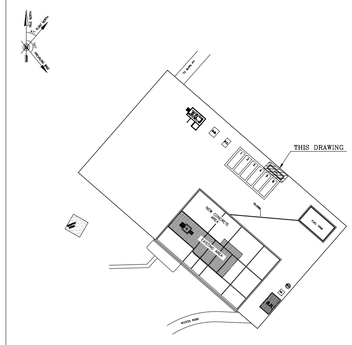
REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR FENCE & GATE	BK-GNRAL-PEDCO-000-CV-SP-0003
GENERAL NOTES - STEEL STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0011
GENERAL NOTES - REINFORCED CONCRETE STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0012
GENERAL CIVIL LAYOUT -BK12	BK-BK12-PEDCO-110-CV-PY-0001
ROUGH GRADING PLANS -BK12	BK-BK12-PEDCO-110-CV-PY-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

BAR BENDING SCHEDULE - SEPTIC TANK

Pos	Spec.	Shape	L/A	No.	T10
1	T10	10800	10.80	15	162.0
2	T10	2800	2.80	55	154.0
3	T10	150 1850	2.00	52	104.0
4	T10	150 600 150	0.90	8	7.20
5	T10	90 280 280	0.65	20	13.0
6	T10	10200	10.20	8	81.60
7	T10	150 150 100	0.80	100	80.0
TOTAL LENGTH OR AREA (m/m2)					601.80
UNIT WEIGTH (Kg)					0.617
WEIGTH (Kg)					371.32
GRAND TOTAL (Kg)					380

TABLE 3 (CORNERS COORDINATES)		
Point 1	E=440725.400	N=3288571.317
Point 2	E=440733.623	N=3288564.072
Point 3	E=440731.667	N=3288561.850
Point 4	E=440723.444	N=3288569.095

KEY PLAN



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.

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK12 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
BK12 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK12
SEPTIC TANK FORMWORK & REINFORCEMENT PLAN-SECTION

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION		BY:		DATE:		
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	A	708295	05	D00

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A1	BK-BK12-PEDCO-110-CV-DW-0001	05 OF 59	D00

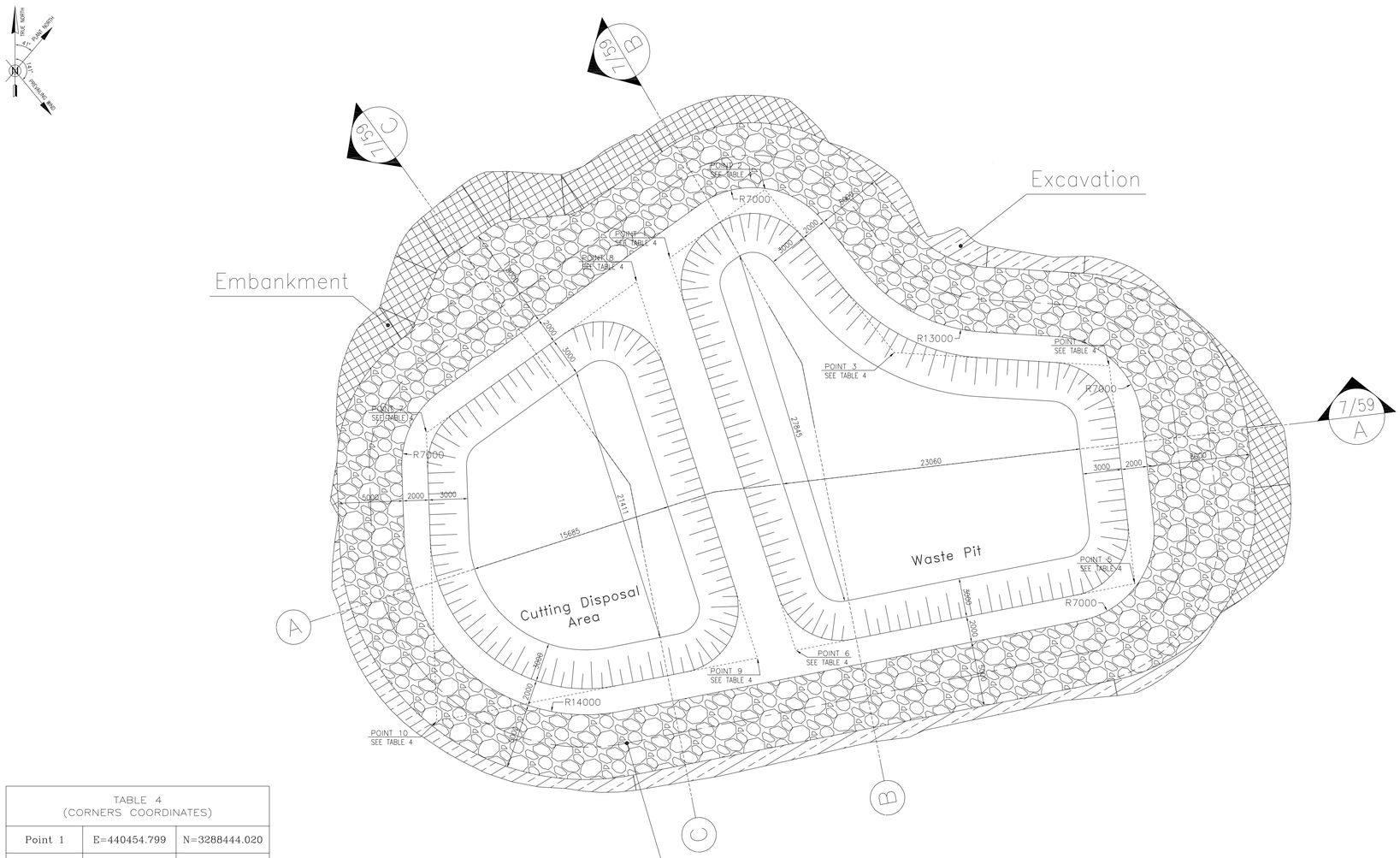


TABLE 4 (CORNERS COORDINATES)		
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Point 2	E=440462.155	N=3288449.301
Point 3	E=440472.125	N=3288436.726
Point 4	E=440488.718	N=3288435.709
Point 5	E=440490.694	N=3288418.907
Point 6	E=440464.526	N=3288413.751
Point 7	E=440436.013	N=3288430.531
Point 8	E=440452.239	N=3288442.182
Point 9	E=440461.562	N=3288413.167
Point 10	E=440436.815	N=3288408.291

1:200 (1) WASTE PIT & CUTTING DISPOSAL AREA PLAN

NOTES

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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.
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ELLIPSOID : WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION: UNIVERSAL TRANSVERSE MERCATOR(UTM)
VERTICAL DATUM: MSL
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13- THE EMULSION ON CONCRETE EXPOSED WITH SOIL SHOULD BE B-90-COAT.M.E IS A BITUMEN-BASED ONE-COMPONENT EMULSION PROTECTIVE COATING TO PREVENT THE PENETRATION OF DESTRUCTIVE SALTS & IONS. THIS MATERIAL IS CONTROLLED ACCORDING TO THE FOLLOWING STANDARDS: ASTM D1227, ASTM D2939, ASTM D1640

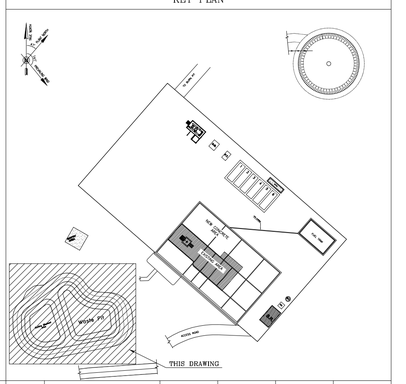
±0.00 =+75.35(R.G.L.)MSL

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	B.O.P.	BOTTOM OF PIPE
SUB GRADE	R.G.L.	ROUGH GRADING LEVEL
SLOPE	B.O.CH.	BOTTOM OF CHANNEL
EXISTING CONCRETE AREA		

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 -BK12	BK-BK12-PEDCO-110-CV-PY-0001
ROUGH GRADING PLANS -BK12	BK-BK12-PEDCO-110-CV-PY-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

KEY PLAN



REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
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REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK12 WHF MODIFICATIONS
PROJECT NO.: 971020

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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

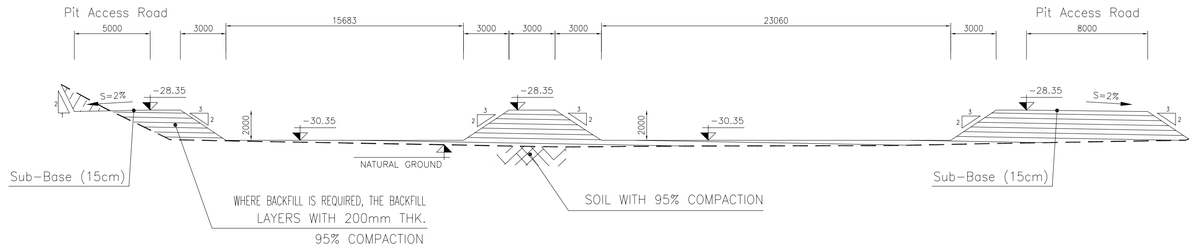
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK12
WASTE PIT & CUTTING DISPOSAL AREA PLAN

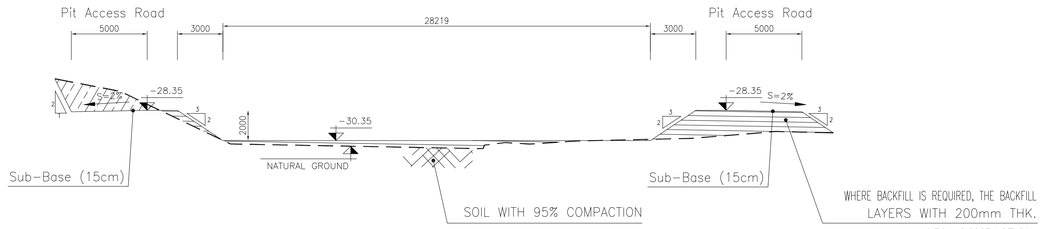
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SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A1	BK-BK12-PEDCO-110-CV-DW-0001	6 OF 59	D00

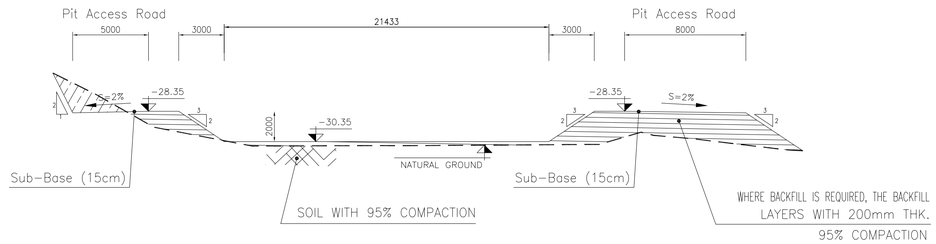
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	A	708295	6	D00



6/59 A — 1:200 — WASTE PIT & CUTTING DISPOSAL AREA SECTION



6/59 B — 1:200 — WASTE PIT SECTION



6/59 C — 1:200 — CUTTING DISPOSAL AREA SECTION

Cut/Fill Summary

Name	Cut Factor	Fill Factor	Cut	Fill
ROUGH GRADING (WastePIT & Cutting Disposal Area -BK12)	**1.000**	**1.000**	410.37 Cu.M.	2378.22 Cu.M.
			TOTAL=2788.59 Cu.M.	

Cut and Fill Volume Table for WastePIT & Cutting Disopsal Area

NOTES

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GLOSS : DULL
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VERTICAL DATUM:	MSL

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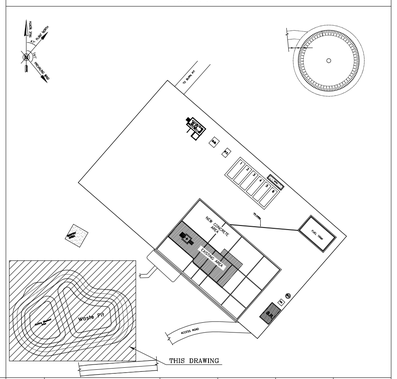
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KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
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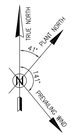
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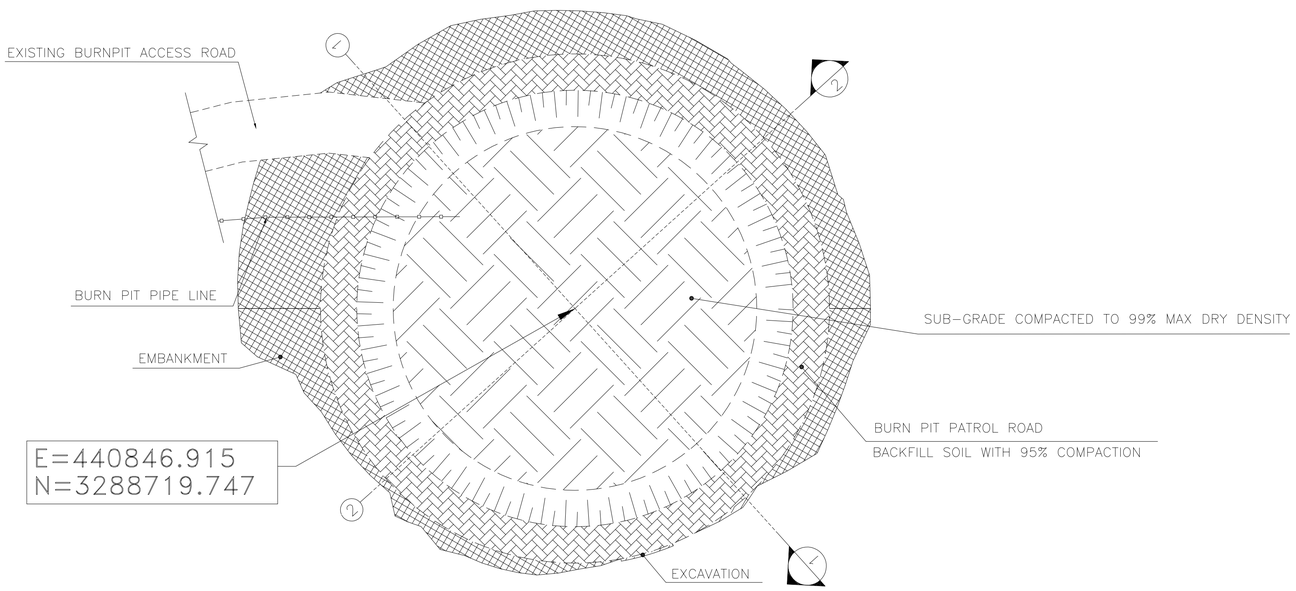
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK12
WASTE PIT & CUTTING DISPOSAL AREA SECTIONS

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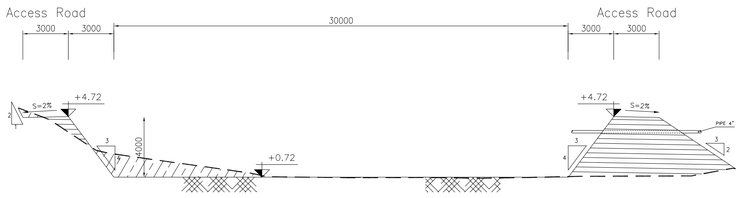
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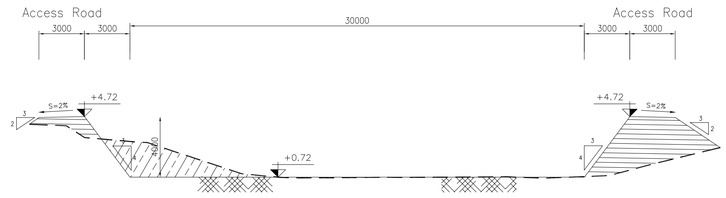




BURN PIT PLAN
1:250



BURN PIT SECTION
1:200 1



BURN PIT SECTION
1:200 2

Cut/Fill Summary

Name	Cut Factor	Fill Factor	Cut	Fill
ROUGH GRADING (BURN PIT-BK12)	**1.000**	**1.000**	538.65 Cu.M.	1806.97 Cu.M.
			TOTAL=2345.62 Cu.M.	

Cut and Fill Volume Table for Burn Pit Area

NOTES

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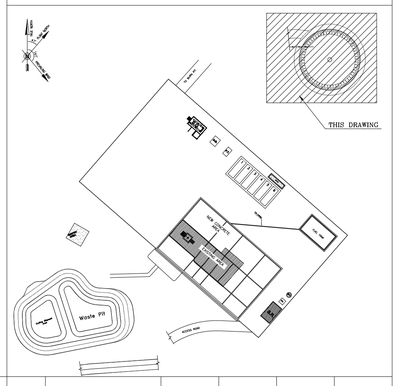
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KEY PLAN



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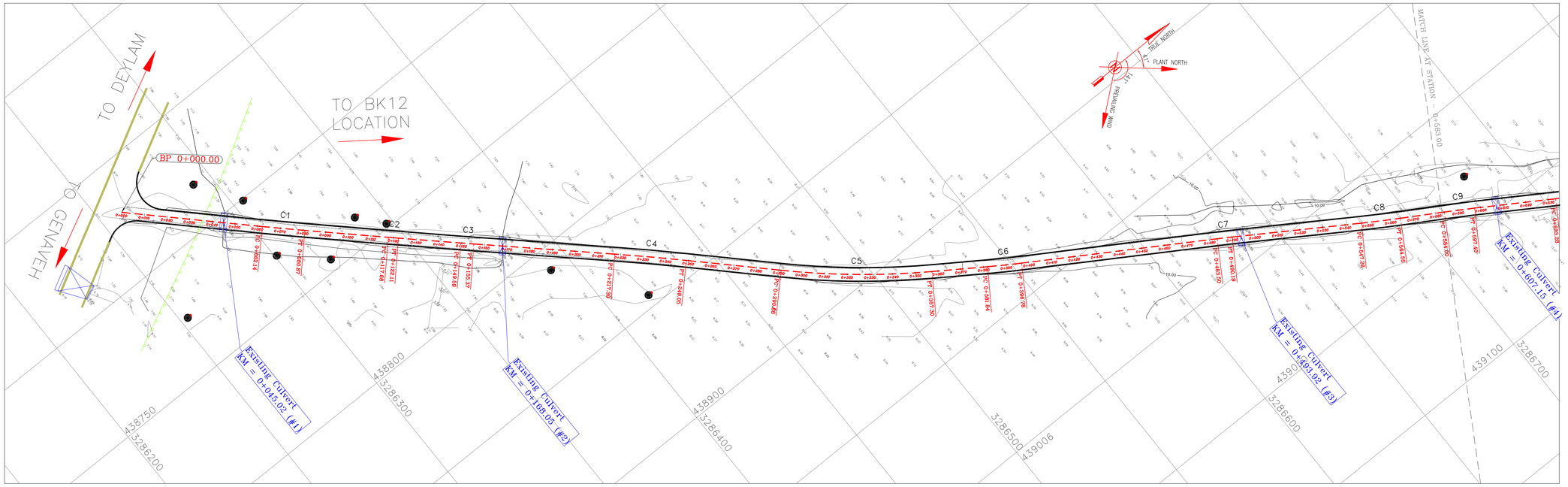
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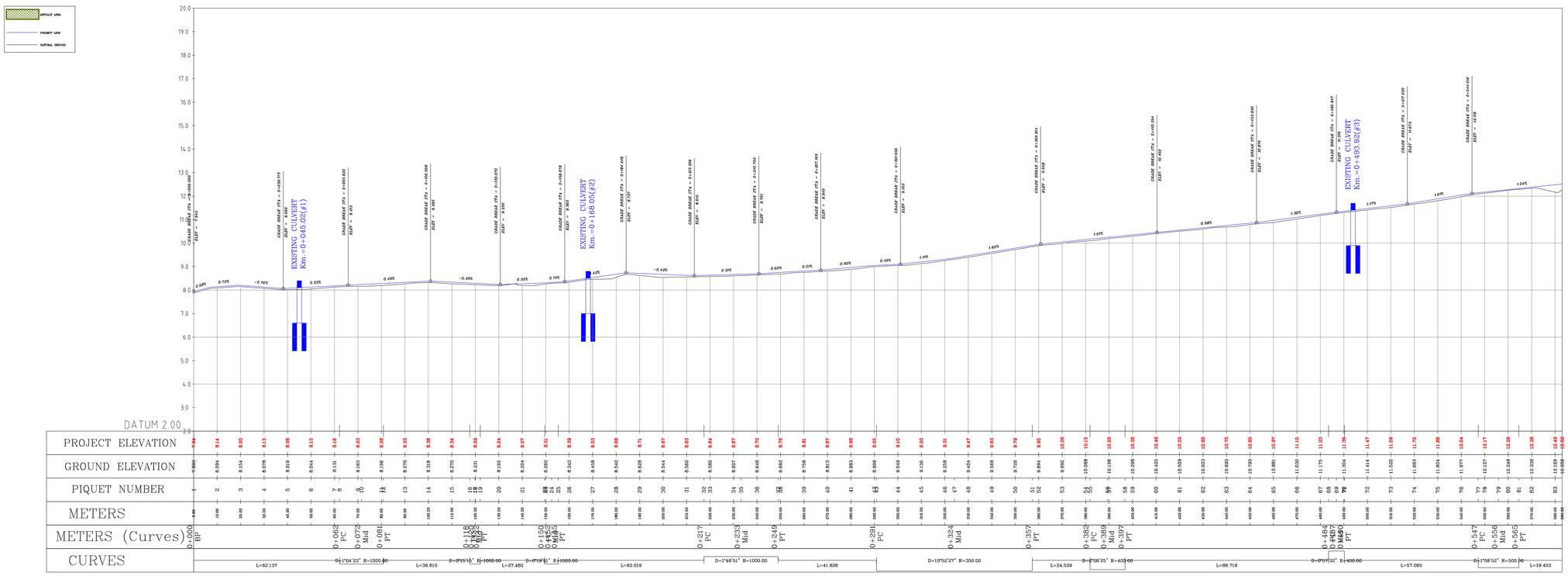
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BURN PIT PLAN & SECTIONS

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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

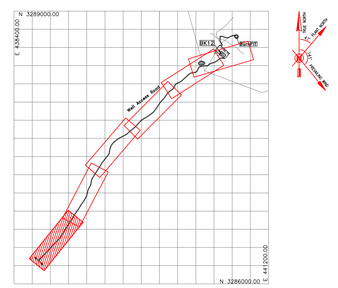
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER 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 –BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK12	BK-BK12-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 – BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile–BK12	BK-BK12-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
BP= BEGINNING OF PLAN
EP=END OF PLAN

KEY PLAN



Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C1	1000.00	18.73	N44° 03' 35.40"E	(438715.03,3286303.94)	(438728.06,3286317.40)
C2	1000.00	4.44	N43° 23' 46.20"E	(438753.41,3286344.09)	(438756.46,3286347.31)
C3	1000.00	5.77	N43° 06' 13.28"E	(438775.29,3286367.33)	(438779.24,3286371.54)
C4	1000.00	31.66	N43° 50' 43.46"E	(438821.48,3286416.94)	(438843.42,3286439.78)
C5	350.00	66.43	N39° 18' 55.60"E	(438872.87,3286469.48)	(438914.89,3286520.80)
C6	400.00	14.94	N32° 48' 29.54"E	(438928.57,3286541.17)	(438936.66,3286553.73)
C7	400.00	6.69	N32° 13' 02.87"E	(438982.28,3286627.48)	(438985.85,3286633.14)
C8	500.00	17.29	N31° 42' 22.55"E	(439016.67,3286681.16)	(439025.76,3286695.87)

Station	Northing	Easting
0+000.00	3286259.70	438671.41
0+020.00	3286273.94	438685.45
0+040.00	3286288.18	438699.49
0+060.00	3286302.42	438713.53
0+080.00	3286316.77	438727.46
0+100.00	3286331.27	438741.23
0+120.00	3286345.78	438755.01
0+140.00	3286360.34	438768.72
0+160.00	3286374.93	438782.39
0+180.00	3286389.57	438796.02
0+200.00	3286404.22	438809.64
0+220.00	3286418.85	438823.27
0+240.00	3286433.32	438837.08
0+260.00	3286447.55	438851.13
0+280.00	3286461.76	438865.21
0+300.00	3286476.04	438879.20

Station	Northing	Easting
0+320.00	3286490.99	438892.49
0+340.00	3286506.68	438904.89
0+360.00	3286523.04	438916.39
0+380.00	3286539.64	438927.54
0+400.00	3286556.46	438938.36
0+420.00	3286573.47	438948.88
0+440.00	3286590.48	438959.40
0+460.00	3286607.49	438969.92
0+480.00	3286624.50	438980.44
0+500.00	3286641.39	438991.15
0+520.00	3286658.22	439001.95
0+540.00	3286675.05	439012.75
0+560.00	3286691.97	439023.42
0+580.00	3286709.15	439033.65

PI Station	Northing	Easting
0+000.00	3286259.70	438671.41
0+071.50	3286310.61	438721.61
0+119.89	3286345.70	438754.93
0+152.48	3286369.43	438777.27
0+233.22	3286428.54	438832.27
0+324.19	3286493.14	438896.32
0+389.31	3286547.37	438932.73
0+486.85	3286630.32	438984.04
0+555.91	3286688.44	439021.34
0+590.70	3286718.35	439039.12

Coordinate of Bench Marks (UTM–ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
S16	440126.1577	3288153.1997	54.2227
S17	439632.0490	3287658.4506	22.1753
S19	439239.0298	3287122.7447	30.3636
S21	438672.5161	3286257.4245	7.7715
GPS2	440638.0716	3288706.8218	82.8250
GPS1	440614.7992	3288667.5129	82.2933
BM40	440592.8969	3288516.5660	73.5772
BM39	440730.415	3288611.980	84.468

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 BK12 WHF MODIFICATIONS
PROJECT NO.: 971020
EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY – PEDCO

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
BK12 WHF MODIFICATIONS

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK12
ACCESS ROAD PLAN AND PROFILE

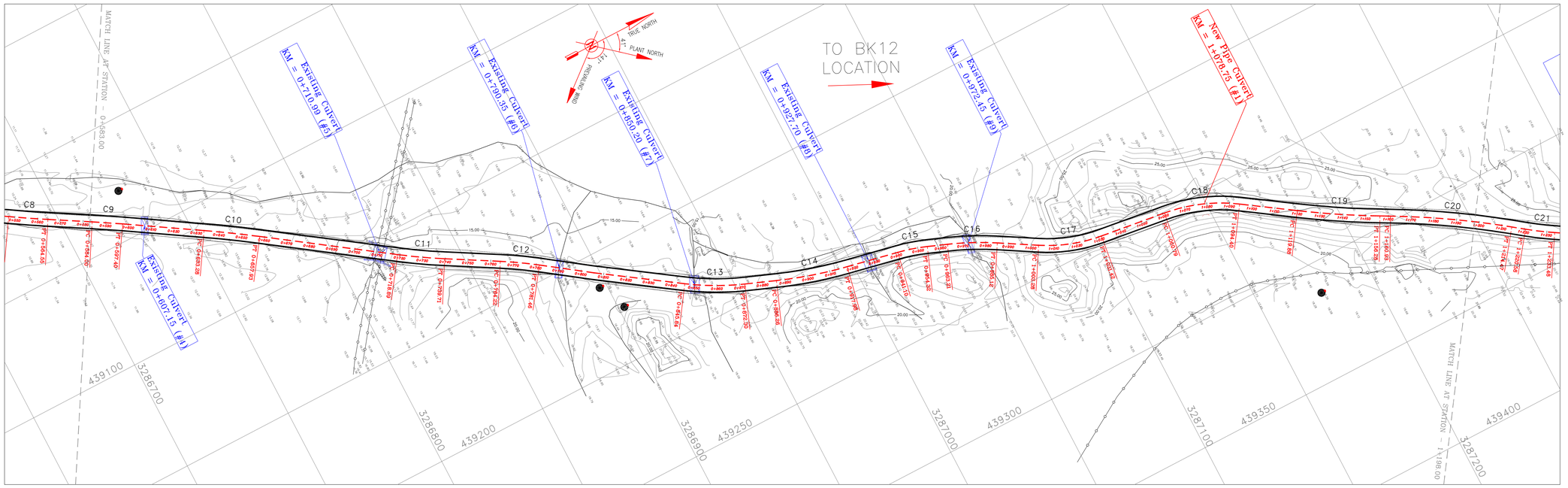
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

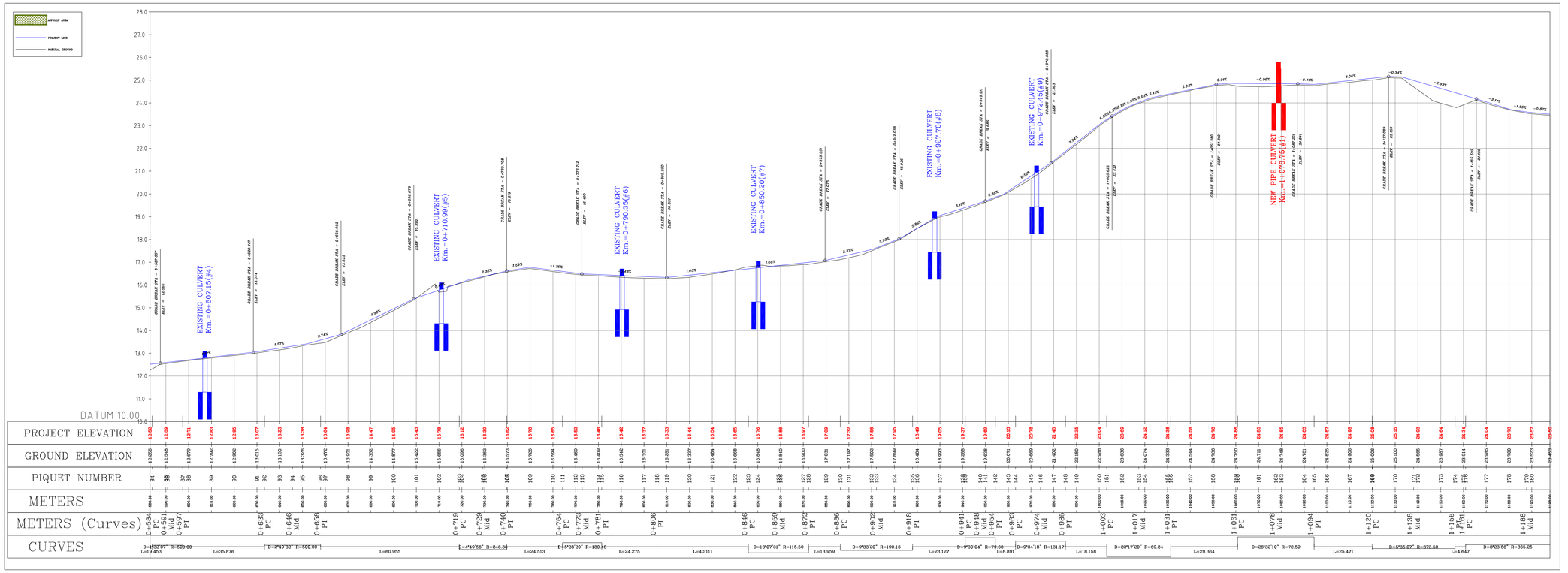
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK12-PEDCO-110-CV-DW-0001	9 OF 59	D00

APPROVED FOR CONSTRUCTION	BY:	DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	A	708295	9	D00





Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C9	500.00	13.40	N31° 28' 59.71"E	(439035.70,3286712.59)	(439042.69,3286724.02)
C10	500.00	24.66	N33° 39' 49.07"E	(439061.84,3286754.36)	(439075.50,3286774.88)
C11	246.86	20.82	N32° 39' 36.82"E	(439110.53,3286824.77)	(439121.77,3286842.29)
C12	180.48	17.24	N32° 58' 48.48"E	(439134.11,3286863.47)	(439143.49,3286877.92)
C13	115.50	26.46	N27° 52' 45.77"E	(439180.35,3286930.71)	(439192.69,3286954.05)
C14	190.16	31.71	N16° 32' 20.65"E	(439197.77,3286967.05)	(439206.79,3286997.42)
C15	79.68	13.21	N16° 30' 42.82"E	(439211.50,3287020.06)	(439215.25,3287032.71)
C16	131.17	21.91	N26° 02' 53.61"E	(439218.48,3287041.00)	(439228.09,3287060.66)
C17	69.24	28.15	N19° 11' 22.63"E	(439237.39,3287076.25)	(439246.58,3287102.65)
C18	72.59	33.62	N20° 48' 48.04"E	(439250.44,3287131.76)	(439262.28,3287162.90)
C19	373.50	36.41	N31° 17' 19.96"E	(439276.55,3287184.00)	(439295.45,3287215.10)
C20	365.25	53.54	N32° 41' 44.65"E	(439297.67,3287219.19)	(439326.56,3287264.20)
C21	135.29	12.90	N34° 09' 47.41"E	(439330.23,3287269.08)	(439337.47,3287279.76)

Station	Northing	Easting
0+600.00	3286726.22	439044.08
0+620.00	3286743.13	439054.75
0+640.00	3286760.02	439065.46
0+660.00	3286776.57	439076.69
0+680.00	3286792.94	439088.19
0+700.00	3286809.31	439099.68
0+720.00	3286825.68	439111.17
0+740.00	3286842.54	439121.91
0+760.00	3286859.82	439131.99
0+780.00	3286876.73	439142.65
0+800.00	3286892.97	439154.32
0+820.00	3286909.39	439165.73
0+840.00	3286925.89	439177.04

Station	Northing	Easting
0+860.00	3286942.84	439187.62
0+880.00	3286961.22	439195.49
0+900.00	3286980.02	439202.30
0+920.00	3286999.40	439207.20
0+940.00	3287018.98	439211.28
0+960.00	3287038.01	439217.31
0+980.00	3287056.21	439225.55
1+000.00	3287073.44	439235.71
1+020.00	3287091.50	439244.16
1+040.00	3287111.15	439247.71
1+060.00	3287130.98	439250.33
1+080.00	3287150.25	439255.44
1+100.00	3287167.54	439265.41
1+120.00	3287184.10	439276.62
1+140.00	3287200.96	439287.37
1+160.00	3287218.37	439297.22
1+180.00	3287235.70	439307.20

PI Station	Northing	Easting
0+645.61	3286764.79	439068.42
0+729.30	3286833.29	439116.52
0+772.85	3286870.92	439138.46
0+805.73	3286897.63	439157.66
0+859.13	3286941.67	439187.86
0+902.16	3286981.86	439203.55
0+947.72	3287026.54	439212.85
0+974.19	3287051.23	439222.46
1+017.55	3287088.50	439244.71
1+077.90	3287148.73	439252.68
1+138.09	3287199.09	439286.76
1+187.75	3287242.76	439310.46

Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
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BM40	440592.8969	3288516.5660	73.5772
BM39	440730.415	3288611.980	84.468

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

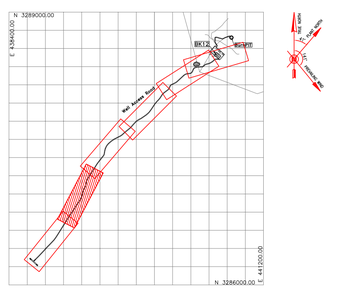
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
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Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
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BP= BEGINNING OF PLAN
EP=END OF PLAN

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 BK12 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 - BK12 ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK12-PEDCO-110-CV-DW-0001	10 OF 59	D00

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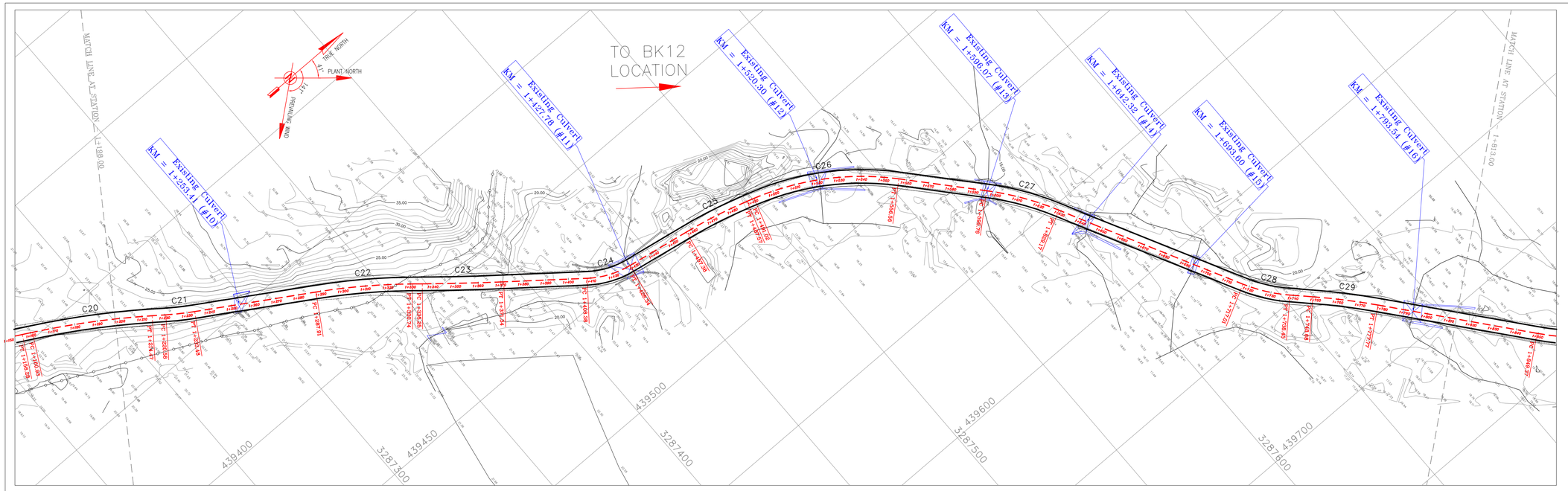
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

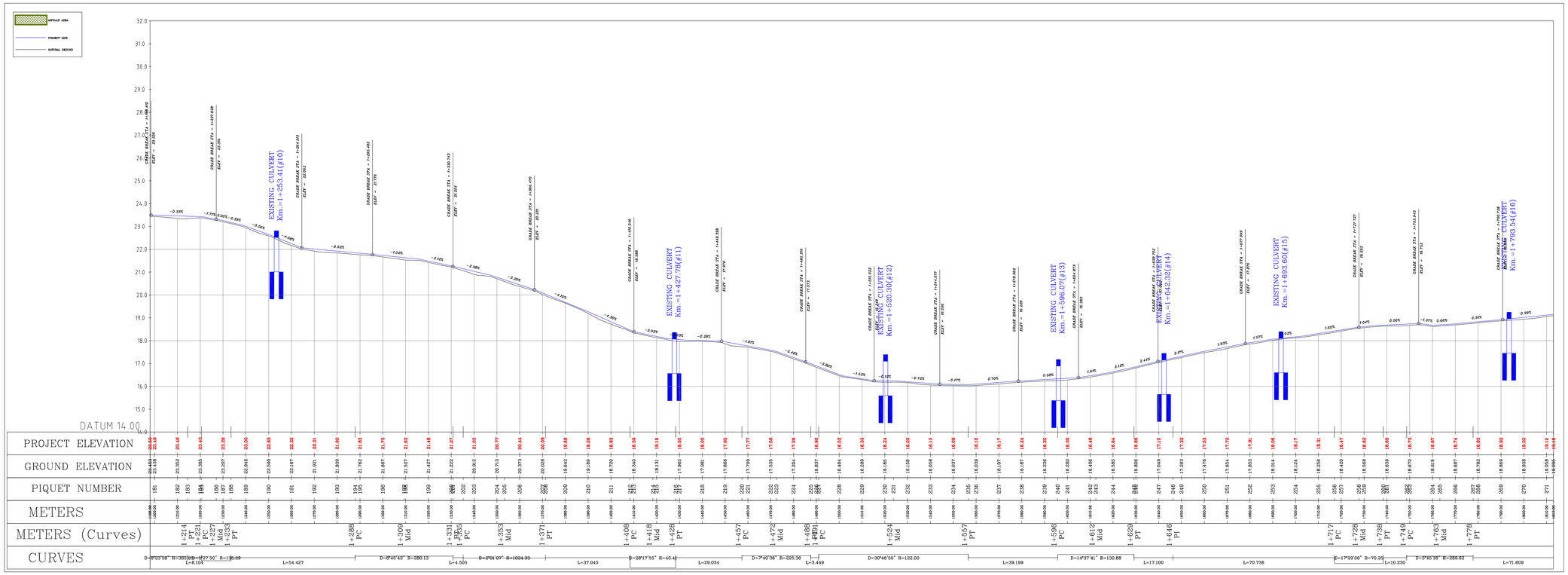
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

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	A	708295	10	D00





Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C22	280.13		N35° 48' 43.12"E	(439365.85,3287326.20)	(439390.89,3287360.90)
C23	1024.33	36.09	N39° 11' 00.39"E	(439393.80,3287364.34)	(439416.60,3287392.32)
C24	40.41	19.96	N24° 01' 29.02"E	(439439.50,3287421.44)	(439447.54,3287439.48)
C25	225.36	30.19	N13° 42' 49.44"E	(439452.52,3287468.09)	(439459.67,3287497.40)
C26	122.00	65.54	N32° 56' 32.50"E	(439460.71,3287500.69)	(439495.93,3287555.03)
C27	130.88	33.41	N55° 38' 47.80"E	(439525.21,3287581.09)	(439552.72,3287599.90)
C28	70.25	21.44	N53° 41' 12.23"E	(439630.65,3287640.41)	(439647.86,3287653.05)
C29	289.62	29.09	N47° 49' 18.08"E	(439655.09,3287660.30)	(439676.64,3287679.82)

Station	Northing	Easting
1+200.00	3287252.46	439318.11
1+220.00	3287268.62	439329.88
1+240.00	3287285.32	439340.87
1+260.00	3287302.39	439351.30
1+280.00	3287319.45	439361.73
1+300.00	3287336.38	439372.38
1+320.00	3287352.56	439384.12
1+340.00	3287367.98	439396.86
1+360.00	3287383.44	439409.55
1+380.00	3287399.13	439421.96
1+400.00	3287414.85	439434.32
1+420.00	3287431.47	439445.28
1+440.00	3287450.97	439449.54
1+460.00	3287470.67	439452.99
1+480.00	3287490.14	439457.51
1+500.00	3287509.14	439463.73
1+520.00	3287527.03	439472.64

Station	Northing	Easting
1+540.00	3287543.22	439484.34
1+560.00	3287557.32	439498.50
1+580.00	3287570.61	439513.44
1+600.00	3287583.86	439528.42
1+620.00	3287595.44	439544.70
1+640.00	3287604.82	439562.36
1+660.00	3287614.02	439580.12
1+680.00	3287623.28	439597.85
1+700.00	3287632.54	439615.58
1+720.00	3287641.85	439633.28
1+740.00	3287654.15	439648.96
1+760.00	3287668.15	439663.24
1+780.00	3287681.23	439678.36
1+800.00	3287693.90	439693.84

PI Station	Northing	Easting
1+227.03	3287274.25	439334.10
1+309.37	3287344.51	439377.04
1+353.30	3287378.13	439405.45
1+418.57	3287429.45	439445.79
1+472.50	3287482.98	439455.11
1+524.60	3287532.71	439470.84
1+612.56	3287592.26	439537.76
1+646.27	3287607.67	439567.95
1+727.81	3287645.41	439640.23
1+763.23	3287670.60	439665.37

Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
S16	440126.1577	3288153.1997	54.2227
S17	439632.0490	3287658.4506	22.1753
S19	439239.0298	3287122.7447	30.3636
S21	438672.5161	3286257.4245	7.7715
GPS2	440638.0716	3288706.8218	82.8250
GPS1	440614.7992	3288667.5129	82.2933
BM40	440592.8969	3288516.5660	73.5772
BM39	440730.415	3288611.980	84.468

NOTES

1-ALL COORDINATES AND ELEVATIONS ARE IN METER.
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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

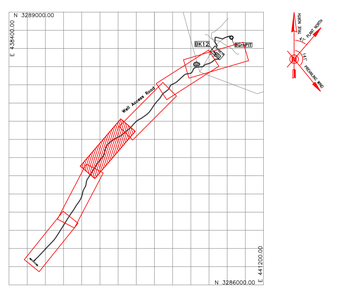
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER 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 -BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK12	BK-BK12-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 - BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK12	BK-BK12-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
BP= BEGINNING OF PLAN
EP=END OF PLAN

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 BK12 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 - BK12 ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK12-PEDCO-110-CV-DW-0001	11 OF 59	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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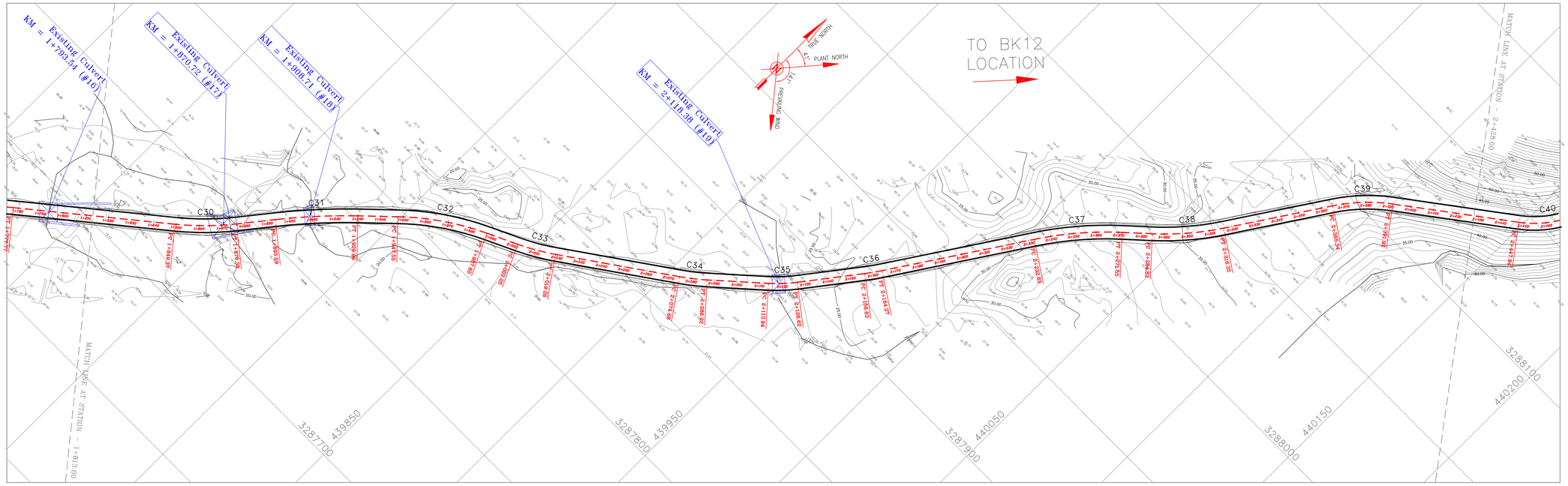
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

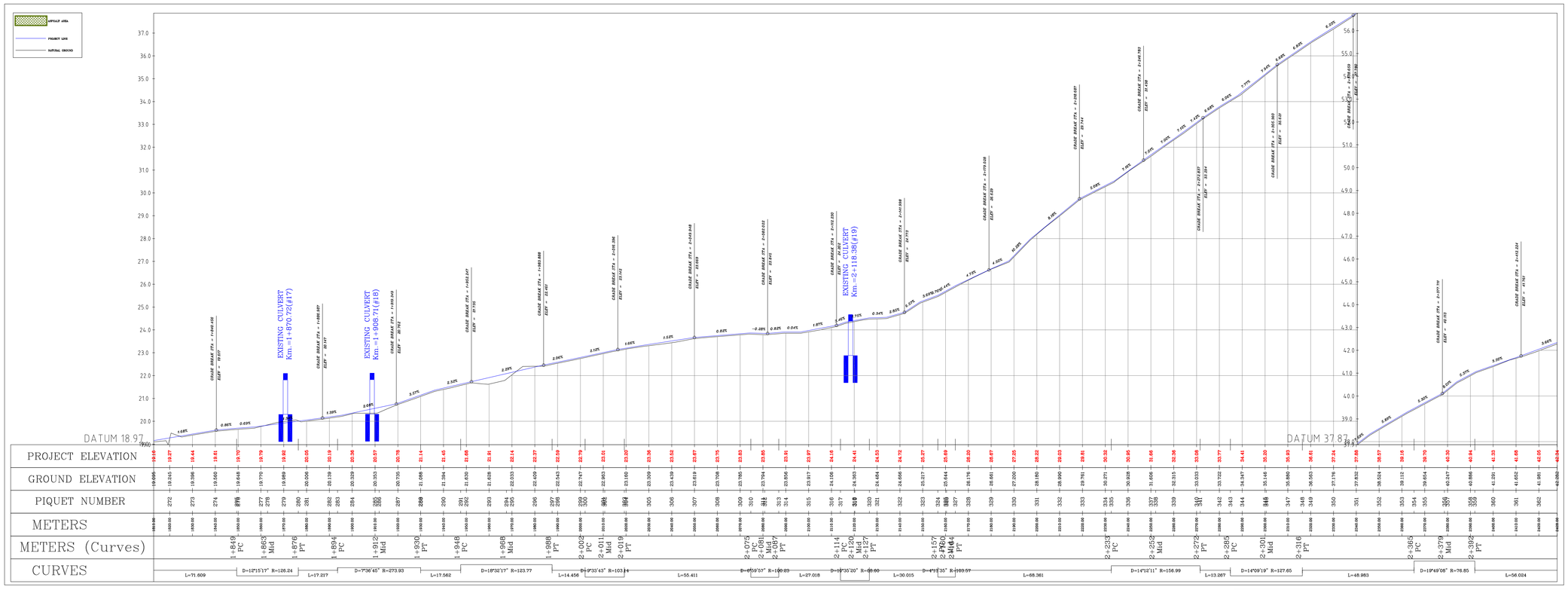
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

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	A	708295	11	D00





Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C30	126.24	27.00	N44° 34' 18.20"E	(439732.05,3287725.18)	(439750.96,3287744.37)
C31	273.93	36.40	N42° 15' 02.17"E	(439761.67,3287757.86)	(439786.12,3287784.78)
C32	123.77	40.05	N55° 19' 33.61"E	(439798.77,3287796.97)	(439831.56,3287819.65)
C33	103.14	17.21	N59° 48' 50.91"E	(439844.61,3287825.85)	(439859.48,3287834.50)
C34	100.23	12.24	N51° 32' 00.96"E	(439904.88,3287866.25)	(439914.46,3287873.86)
C35	68.60	12.68	N42° 44' 22.29"E	(439934.55,3287891.93)	(439943.15,3287901.23)
C36	103.57	7.64	N35° 19' 54.67"E	(439961.39,3287925.06)	(439965.81,3287931.29)
C37	156.99	38.92	N40° 19' 12.86"E	(440003.26,3287988.48)	(440028.38,3288018.08)
C38	127.65	31.54	N40° 20' 39.16"E	(440038.15,3288027.05)	(440058.51,3288051.03)
C39	76.85	26.58	N43° 10' 33.67"E	(440085.38,3288091.98)	(440103.48,3288111.27)

Station	Northing	Easting
1+820.00	3287706.57	439709.32
1+840.00	3287719.24	439724.79
1+860.00	3287732.24	439739.98
1+880.00	3287747.21	439753.22
1+900.00	3287762.83	439765.71
1+920.00	3287777.72	439779.06
1+940.00	3287791.73	439793.33
1+960.00	3287805.14	439808.15
1+980.00	3287816.18	439824.80
2+000.00	3287824.97	439842.76
2+020.00	3287834.92	439860.08
2+040.00	3287846.38	439876.47
2+060.00	3287857.84	439892.86
2+080.00	3287869.42	439909.16

Station	Northing	Easting
2+100.00	3287882.61	439924.19
2+120.00	3287896.18	439938.88
2+140.00	3287911.85	439951.28
2+160.00	3287927.77	439963.40
2+180.00	3287944.45	439974.43
2+200.00	3287961.18	439985.39
2+220.00	3287977.91	439996.34
2+240.00	3287994.55	440007.44
2+260.00	3288009.96	440020.17
2+280.00	3288023.79	440034.60
2+300.00	3288037.97	440048.69
2+320.00	3288054.08	440060.51
2+340.00	3288070.80	440071.48
2+360.00	3288087.52	440082.46
2+380.00	3288103.41	440094.54
2+400.00	3288116.13	440109.94
2+420.00	3288128.14	440125.93

PI Station	Northing	Easting
1+862.93	3287733.76	439742.54
1+911.82	3287772.13	439773.00
1+967.75	3287810.98	439813.31
2+010.68	3287829.55	439852.41
2+080.81	3287869.76	439909.91
2+120.29	3287896.18	439939.28
2+160.45	3287928.09	439963.72
2+252.19	3288004.84	440013.98
2+300.67	3288037.78	440049.82
2+378.76	3288103.21	440092.75

Coordinate of Bench Marks (UTM–ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
S16	440126.1577	3288153.1997	54.2227
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S19	439239.0298	3287122.7447	30.3636
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BM40	440592.8969	3288516.5660	73.5772
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ELLIPSOID : WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM: MSL
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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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8–THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

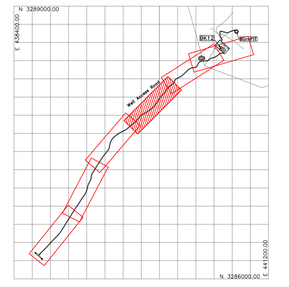
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER 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 –BK12	BK–BK12–PEDCO–110–CV–PY–0001
Rough Grading Plan–BK12	BK–BK12–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 – BK12	BK–BK12–PEDCO–110–GT–RT–0001
Specification For Road & Paving	BK–GNRAL–PEDCO–000–CV–SP–0002
MTO For Civil Works – BK12	BK–BK12–PEDCO–110–CV–MT–0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK–GNRAL–PEDCO–000–CV–DW–0014
Over Head Line Plan and Profile–BK12	BK–BK12–PEDCO–110–SU–DW–0001

ABBREVIATION

PT= POINT OF TANGENT
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EP=END OF PLAN

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 BK12 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 – BK12 ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK–BK12–PEDCO–110–CV–DW–0001	12 OF 59	D00

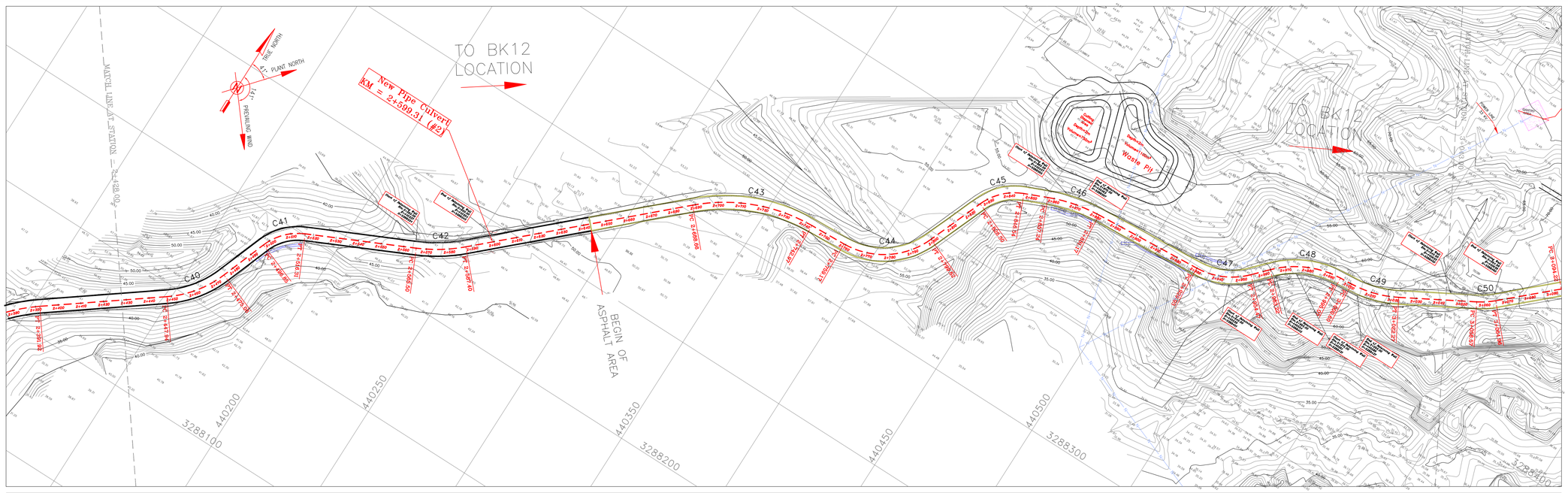
اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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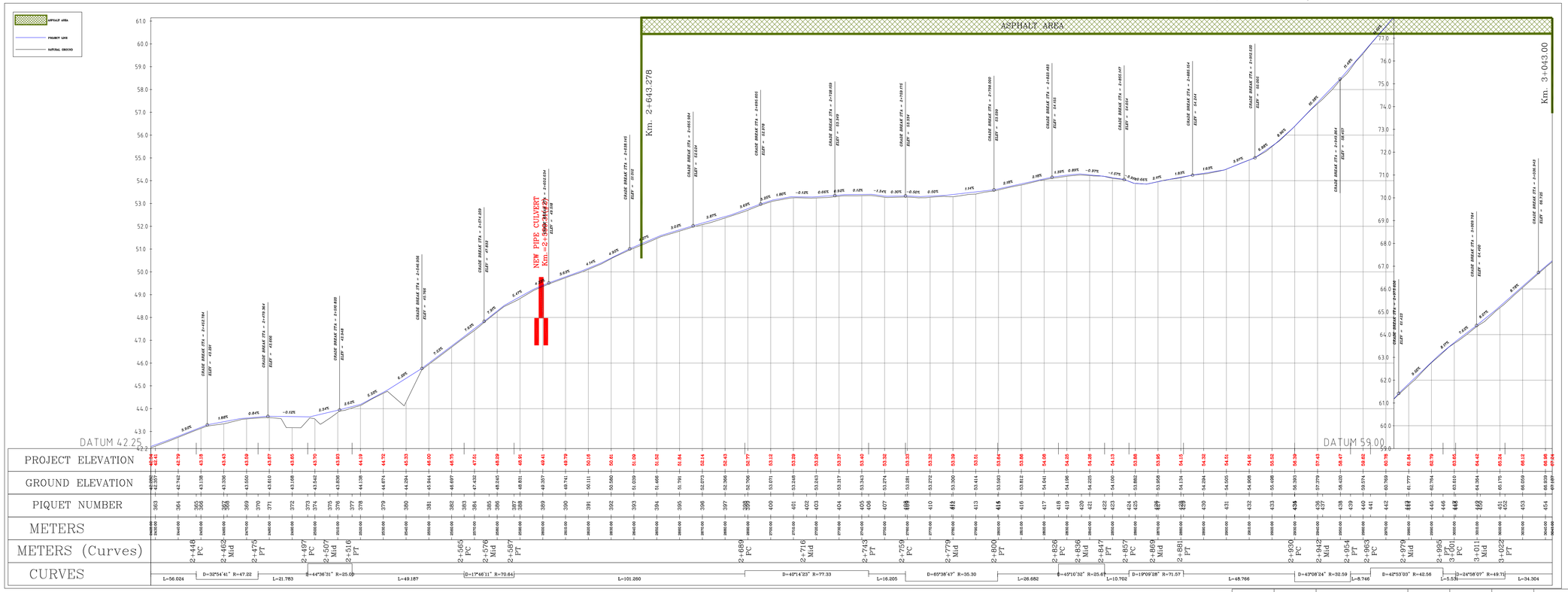
BINAK OILFIELD DEVELOPMENT
SUB–SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

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	A	708295	12	D00





NOTES

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MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

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LEGEND

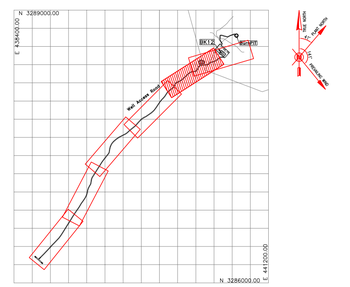
⊙	WELL LOCATION		OIL LINE
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99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
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	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK12	BK–BK12–PEDCO–110–CV–PY–0001
Rough Grading Plan–BK12	BK–BK12–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
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KEY PLAN



Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C40	47.22	27.12	N36° 37' 46.83"E	(440148.27,3288144.92)	(440164.23,3288166.39)
C41	25.00	19.46	N42° 28' 41.44"E	(440171.75,3288186.83)	(440184.56,3288200.83)
C42	70.64	21.91	N55° 53' 51.21"E	(440229.06,3288221.79)	(440247.13,3288234.02)
C43	77.33	54.31	N67° 07' 57.15"E	(440321.20,3288303.06)	(440370.22,3288323.74)
C44	35.30	40.44	N54° 25' 45.23"E	(440386.40,3288324.51)	(440417.53,3288346.77)
C45	25.67	20.24	N44° 11' 37.67"E	(440427.35,3288371.58)	(440441.10,3288385.72)
C46	71.57	23.93	N76° 21' 37.29"E	(440450.93,3288389.93)	(440474.08,3288395.55)
C47	32.59	24.54	N64° 22' 08.97"E	(440522.72,3288399.00)	(440544.33,3288409.37)
C48	42.56	31.86	N64° 14' 28.46"E	(440550.27,3288415.79)	(440578.29,3288429.31)
C49	49.71	21.66	N73° 11' 56.40"E	(440583.81,3288429.73)	(440604.38,3288435.94)

Station	Northing	Easting
2+440.00	3288140.15	440141.92
2+460.00	3288153.31	440156.89
2+480.00	3288171.02	440165.94
2+500.00	3288189.72	440173.02
2+520.00	3288202.40	440187.90
2+540.00	3288210.92	440205.99
2+560.00	3288219.44	440224.09
2+580.00	3288229.26	440241.46
2+600.00	3288242.61	440256.34
2+620.00	3288256.25	440270.97
2+640.00	3288269.88	440285.60
2+660.00	3288283.52	440300.23
2+680.00	3288297.16	440314.86
2+700.00	3288310.16	440330.03
2+720.00	3288319.27	440347.77
2+740.00	3288323.54	440367.25

Station	Northing	Easting
2+760.00	3288324.56	440387.23
2+780.00	3288331.41	440405.73
2+800.00	3288347.13	440417.67
2+820.00	3288365.72	440425.03
2+840.00	3288382.41	440435.48
2+860.00	3288390.97	440453.49
2+880.00	3288395.46	440472.91
2+900.00	3288396.88	440492.86
2+920.00	3288398.30	440512.81
2+940.00	3288401.24	440532.49
2+960.00	3288413.43	440548.08
2+980.00	3288425.57	440563.77
3+000.00	3288429.68	440583.21
3+020.00	3288434.88	440602.38
3+040.00	3288444.61	440619.85

PI Station	Northing	Easting
2+461.89	3288153.30	440159.42
2+507.10	3288196.46	440175.28
2+576.54	3288226.49	440239.05
2+716.99	3288322.38	440341.92
2+781.94	3288325.60	440409.14
2+836.98	3288381.51	440431.28
2+869.31	3288394.70	440462.03
2+942.82	3288399.92	440535.57
2+979.93	3288428.05	440561.63
3+011.61	3288430.56	440594.78

Coordinate of Bench Marks (UTM–ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
S16	440126.1577	3288153.1997	54.2227
S17	439632.0490	3287658.4506	22.1753
S19	439239.0298	3287122.7447	30.3636
S21	438672.5161	3286257.4245	7.7715
GPS2	440638.0716	3288706.8218	82.8250
GPS1	440614.7992	3288667.5129	82.2933
BM40	440592.8969	3288516.5660	73.5772
BM39	440730.415	3288611.980	84.468

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 BK12 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 – BK12 ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK–BK12–PEDCO–110–CV–DW–0001	13 OF 59	D00

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

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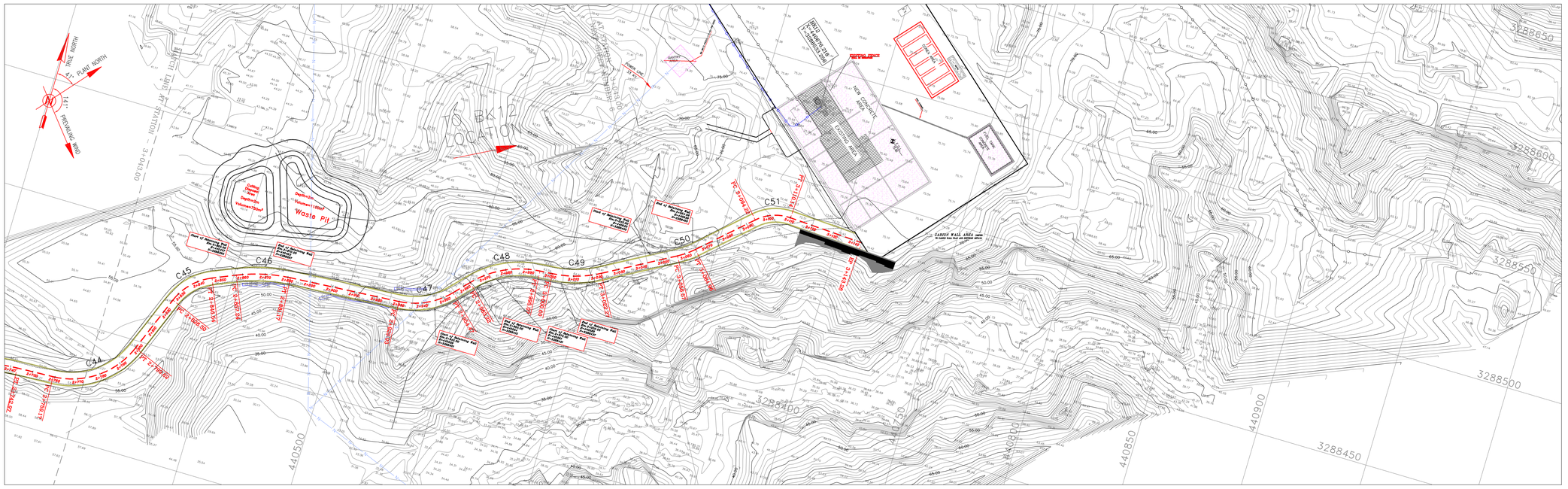
BINAK OILFIELD DEVELOPMENT
SUB–SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

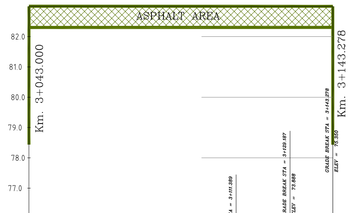
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APPROVED FOR CONSTRUCTION | BY: | DATE:

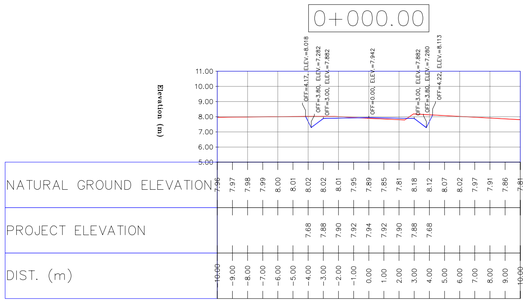
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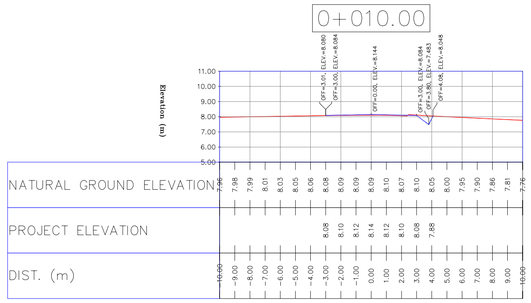

TO BK12 LOCATION
Waste Pit
Cutting Depth=3m Width=3m Volume=1100m3
NEW CONCRETE CANAL
EXISTING CANAL
NEW BURN PIT
EXISTING BURN PIT
CARBON WALL AREA
CAMP SITE
C45
C46
C47
C48
C49
C50
C51
C44
440500
440600
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440800
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3288400

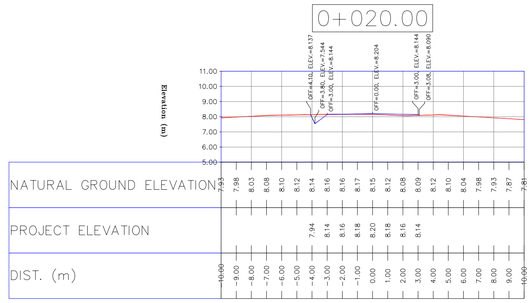

ASPHALT AREA
PROJECT LINE
NATURAL GROUND

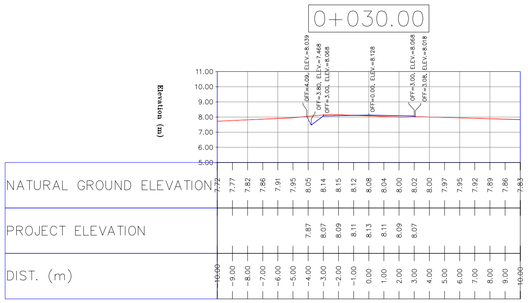

ASPHALT AREA
Km. 3+043.000
Km. 3+143.278
82.0
81.0
80.0
79.0
78.0
77.0
76.0
75.0
74.0
73.0
72.0
71.0
70.0
69.0
68.0
67.0
66.0
65.0
DATUM 65.00

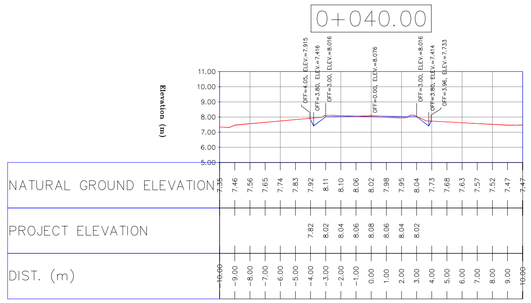
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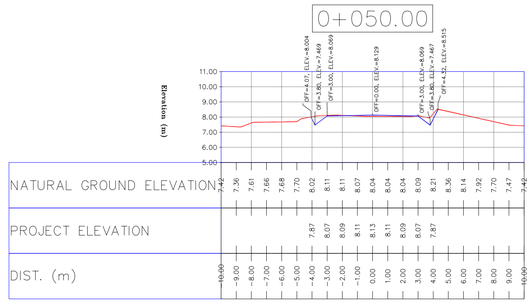


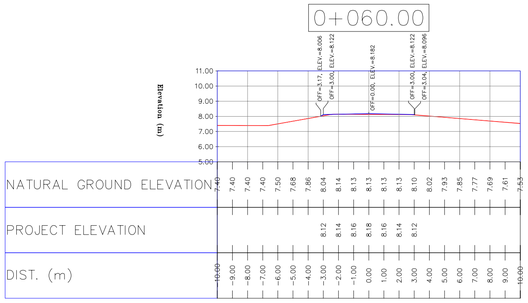


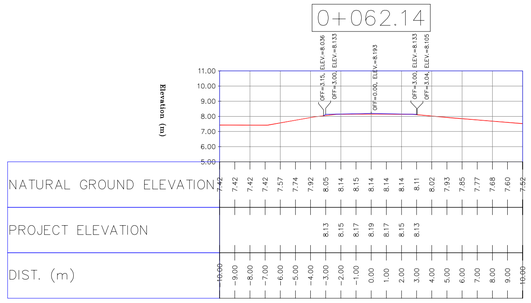


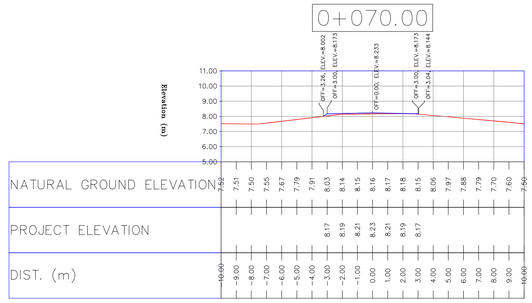


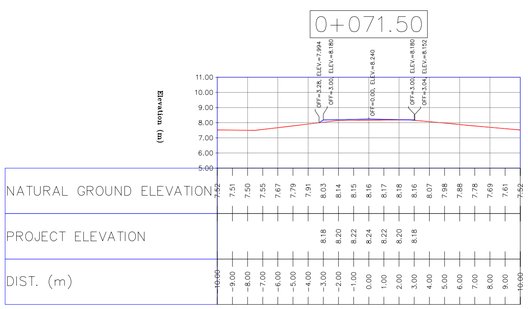


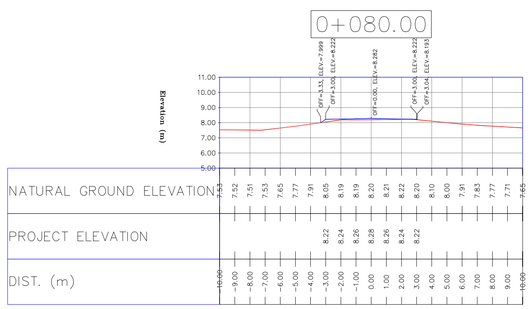


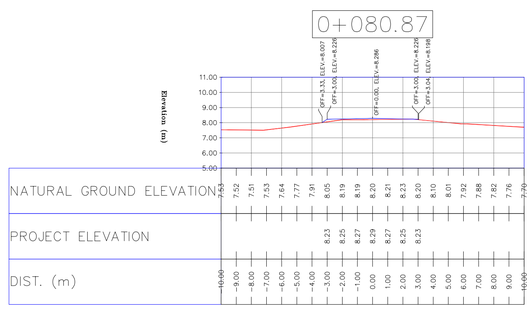












NOTES

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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

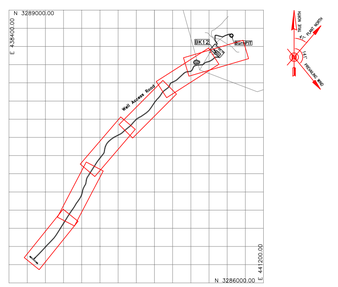
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER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

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK12	BK-BK12-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 – BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile–BK12	BK-BK12-PEDCO-110-3U-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	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 BK12 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
BK12 WHF MODIFICATIONS

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK12 CROSS SECTIONS

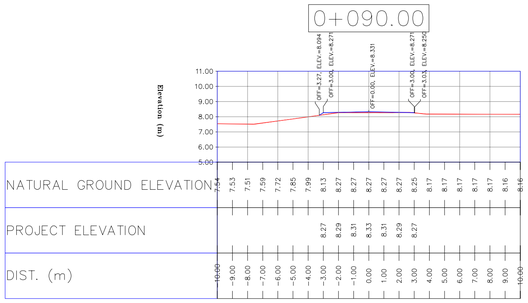
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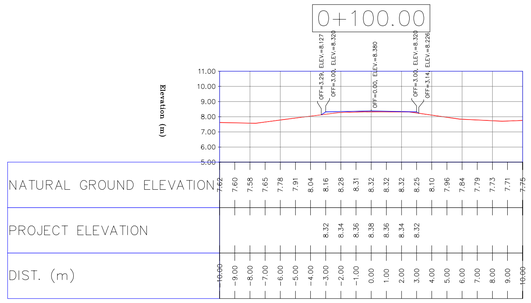
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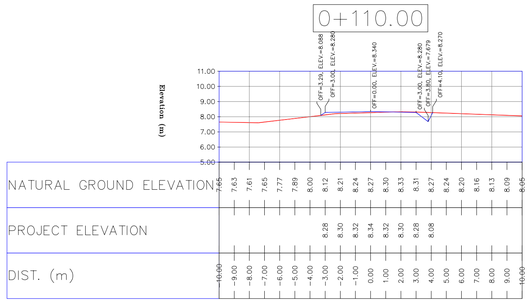
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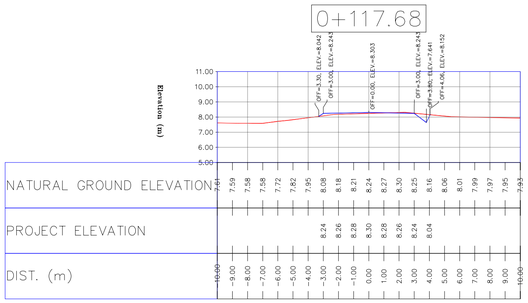
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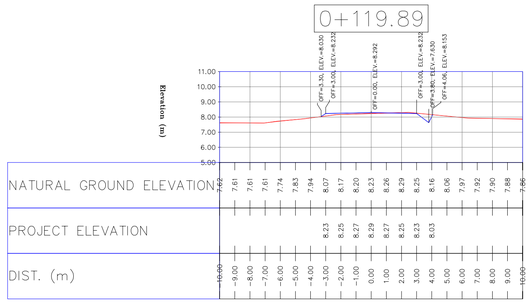
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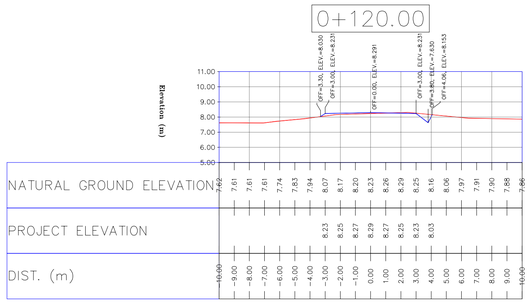


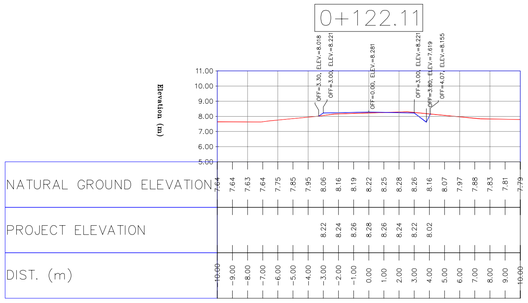


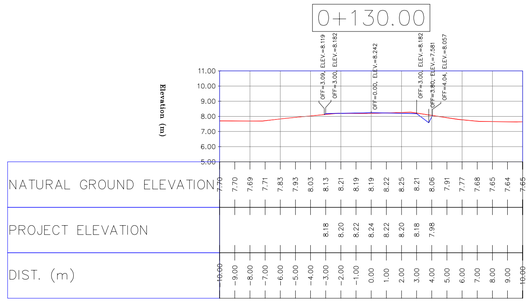


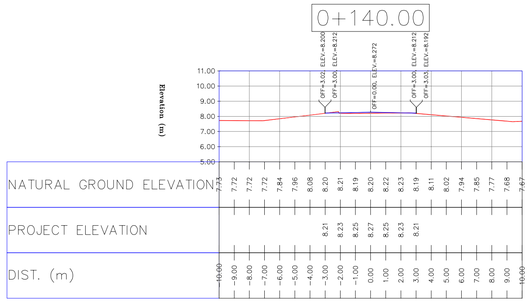


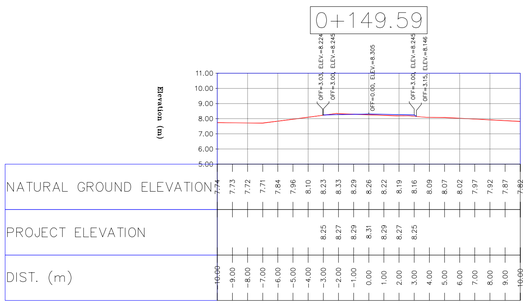


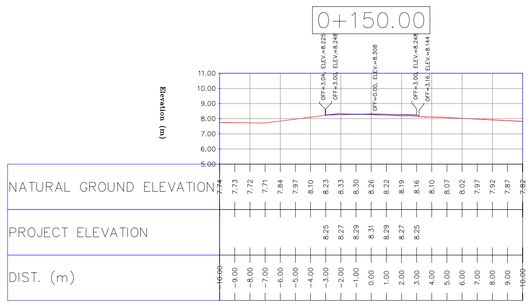


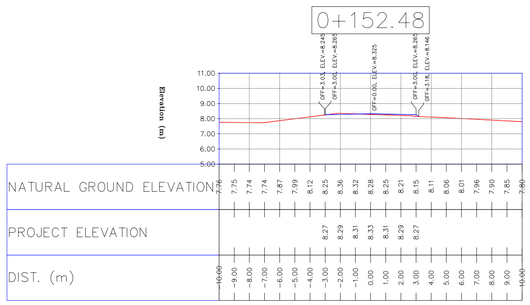












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VERTICAL DATUM:	MSL

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

LEGEND

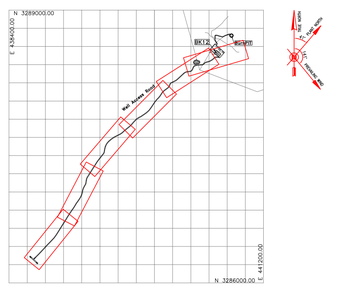
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N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

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK12	BK-BK12-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 - BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK12	BK-BK12-PEDCO-110-SU-DW-0001

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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 BK12 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 - BK12 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK12-PEDCO-110-CV-DW-0001	16 OF 59	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
BK12 WHF MODIFICATIONS

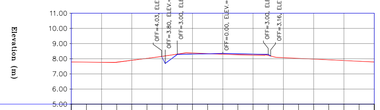
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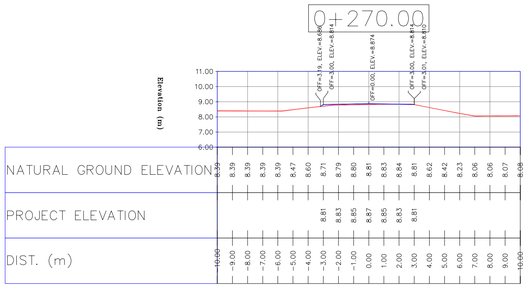
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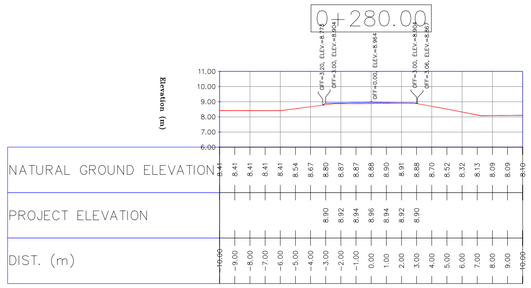
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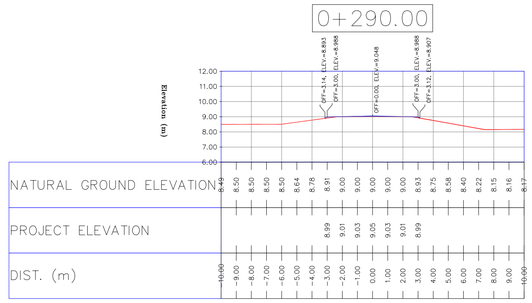
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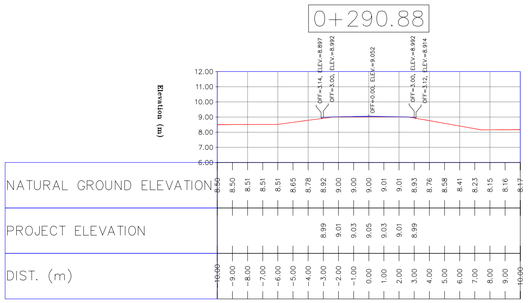

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OFF=3.80, ELEV=7.686
OFF=2.00, ELEV=8.284
OFF=0.00, ELEV=8.346
OFF=1.00, ELEV=8.298
OFF=3.16, ELEV=8.179
Elevation (m)

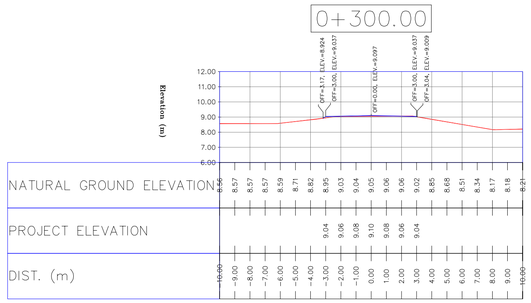
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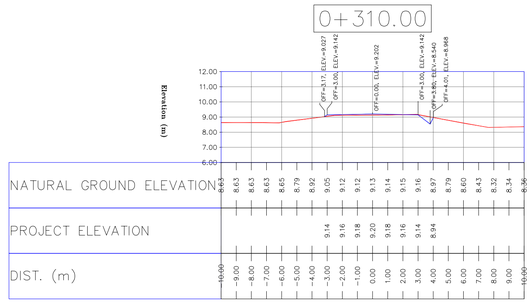


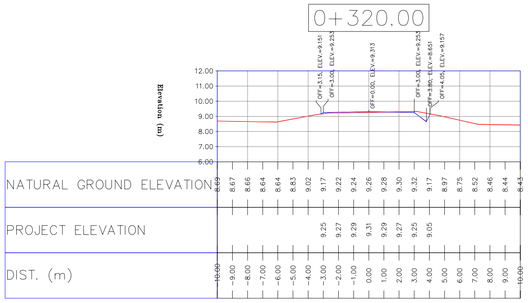


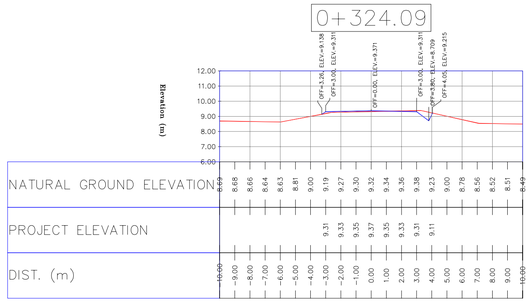


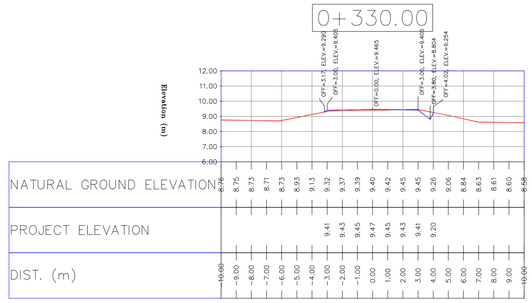


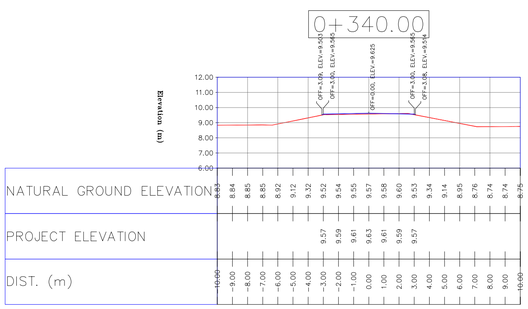


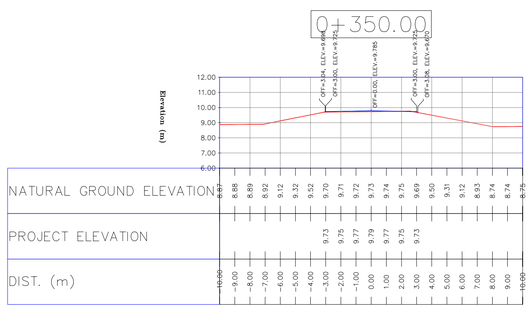


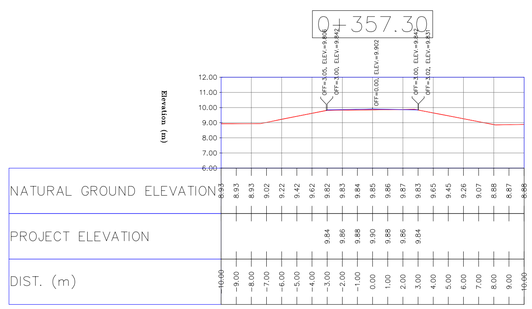












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MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

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

LEGEND

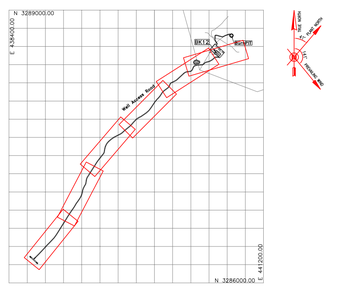
⊙	WELL LOCATION		OIL LINE
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	BENCH MARK		NEW BURN PIT LINE
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	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
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	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
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REFERENCE DRAWING	DRG. No.
General Civil Layout -BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK12	BK-BK12-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 - BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK12	BK-BK12-PEDCO-110-3U-DW-0001

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BINAK OILFIELD DEVELOPMENT
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BK12 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

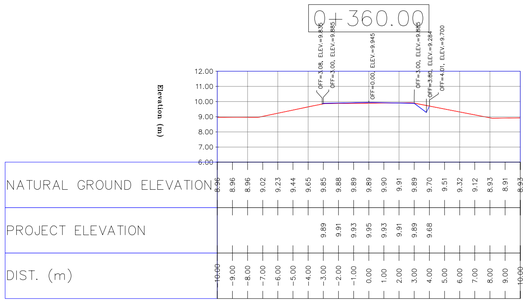
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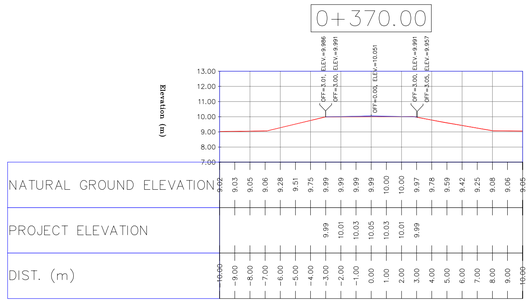
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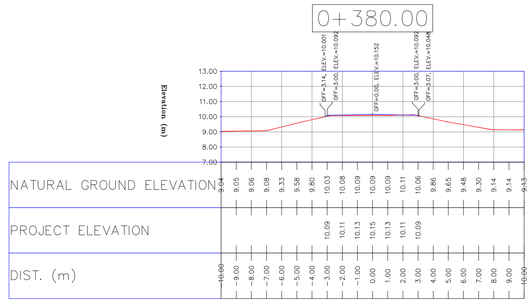
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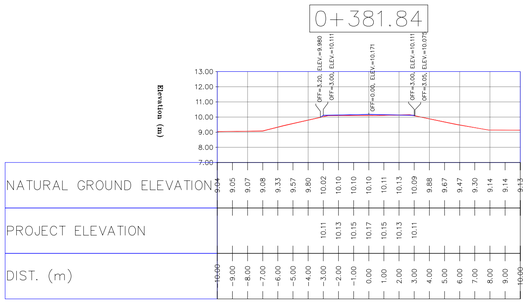
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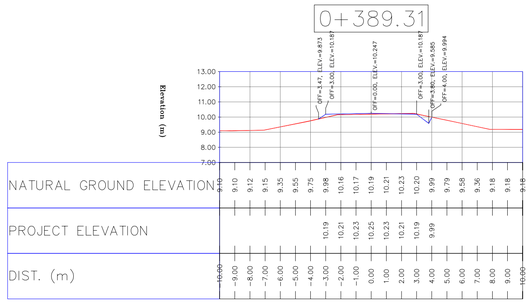
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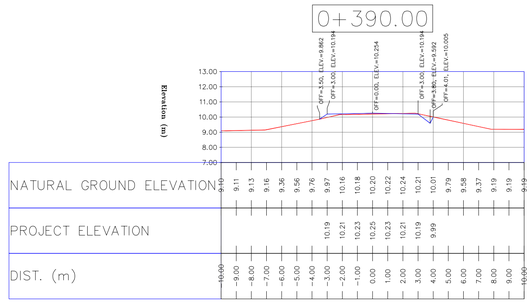


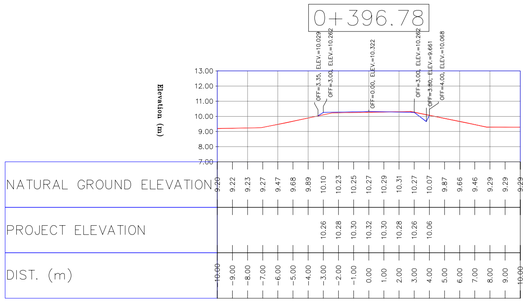


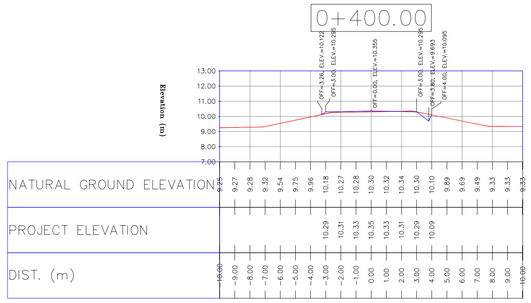


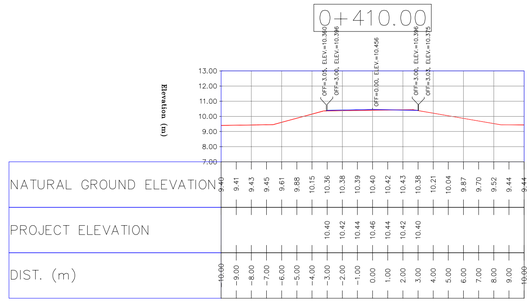


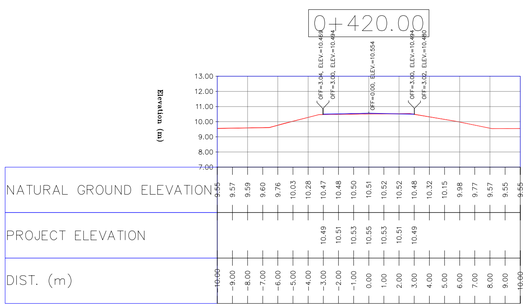


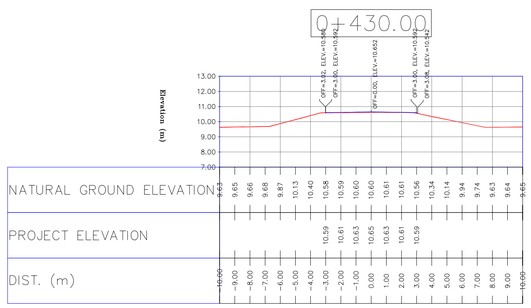


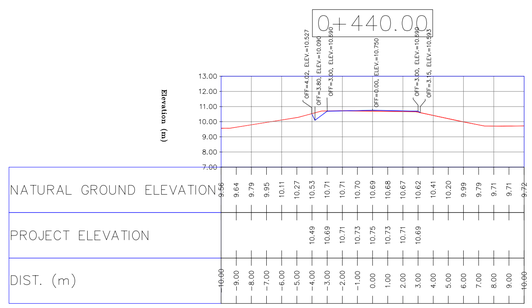












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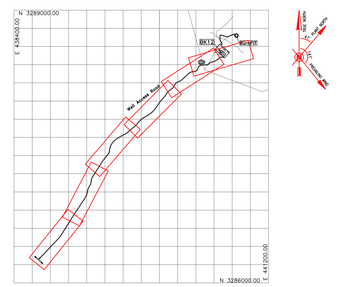
⊙	WELL LOCATION		OIL LINE
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SUB-SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

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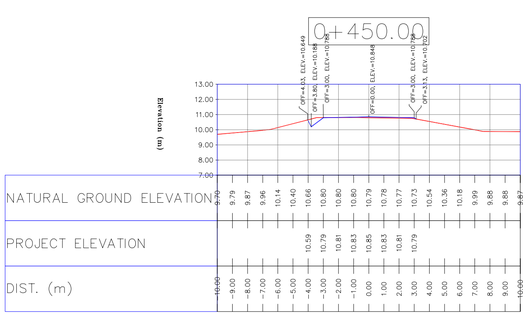
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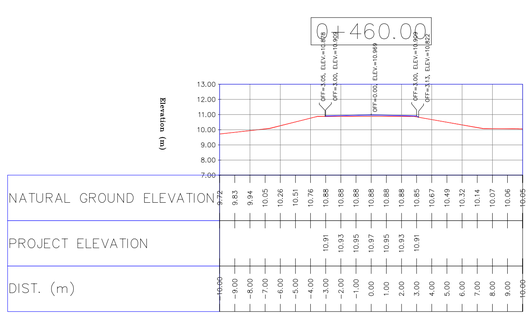
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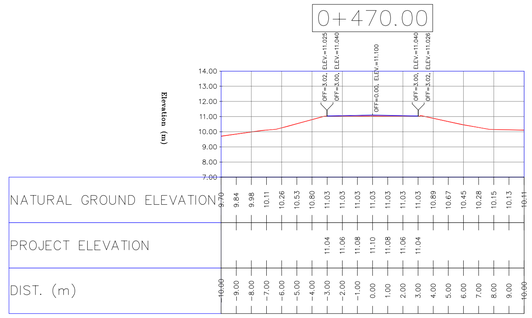
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK12 CROSS SECTIONS

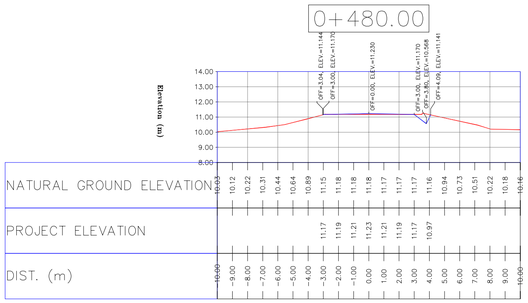
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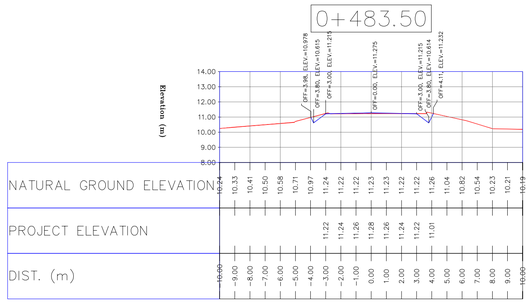
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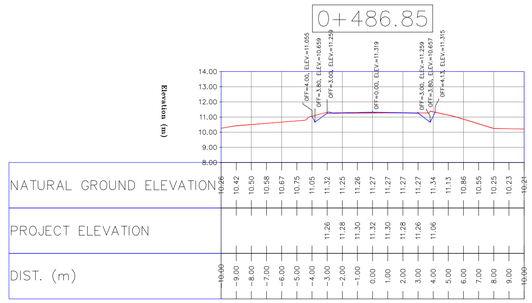


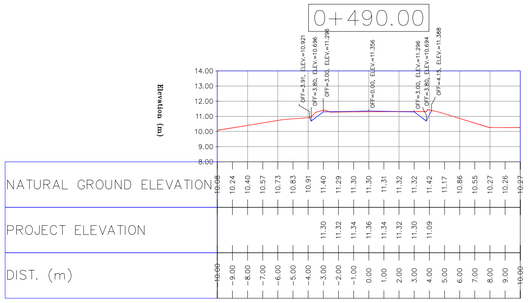


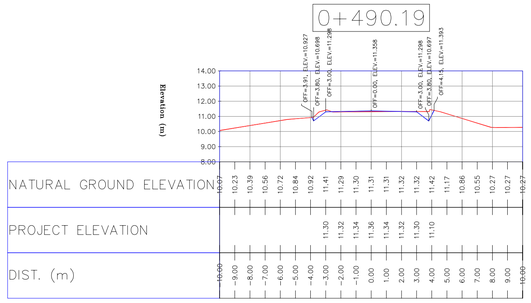


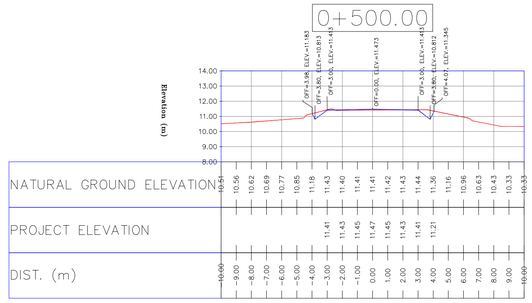


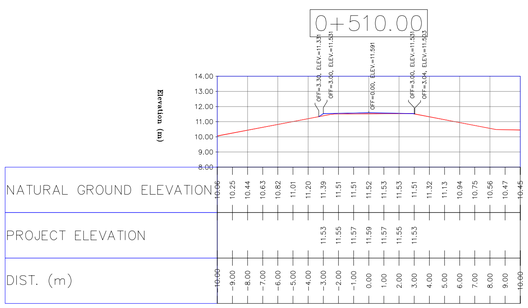


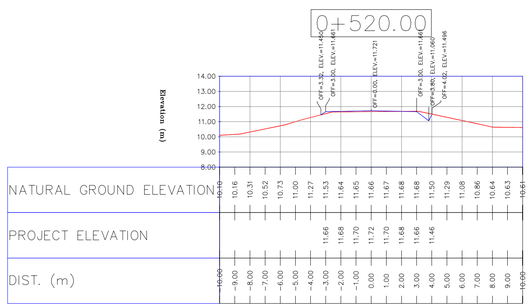


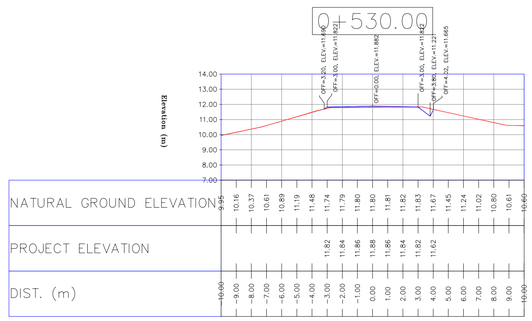












NOTES

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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

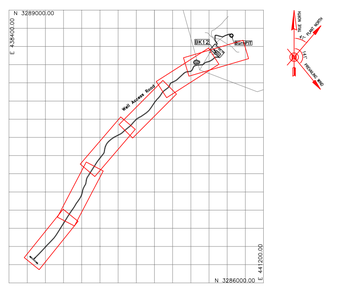
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER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

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK12	BK-BK12-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 - BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK12	BK-BK12-PEDCO-110-3U-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
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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 BK12 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
BK12 WHF MODIFICATIONS

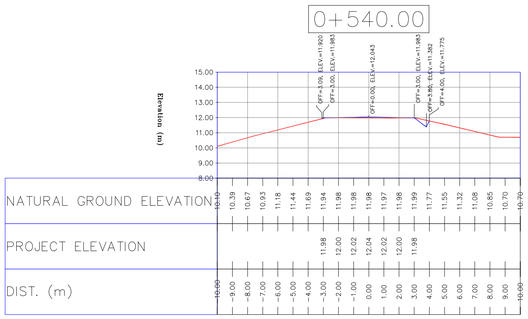
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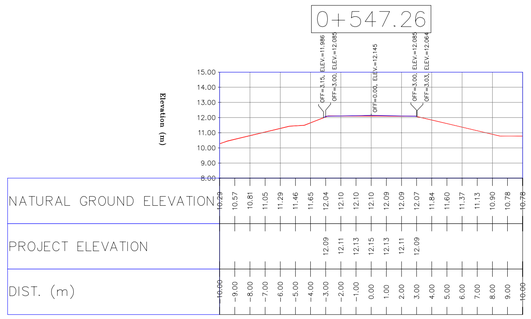
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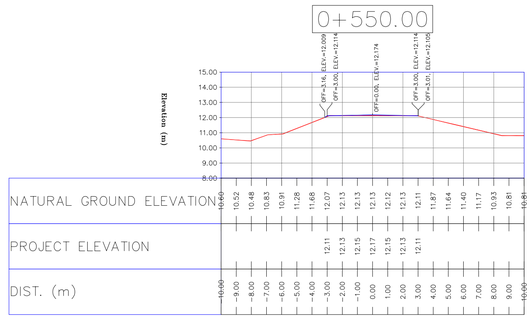
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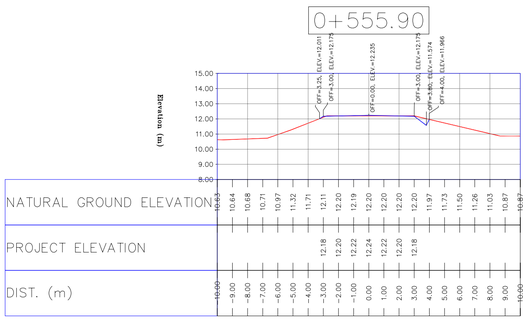
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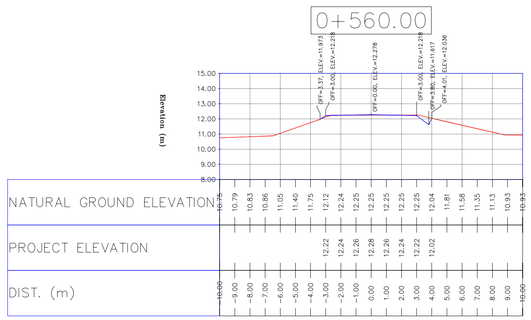
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
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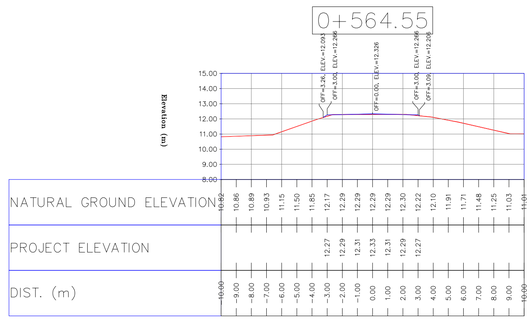


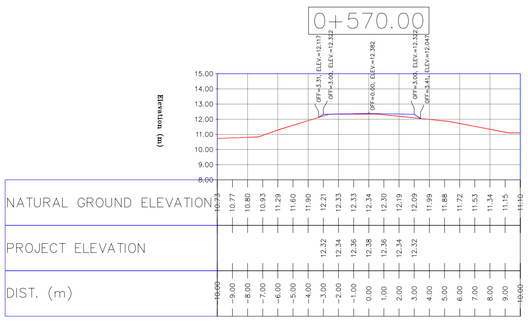


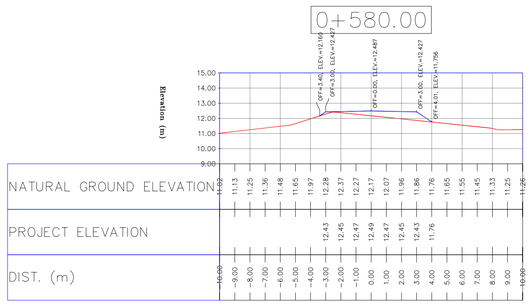


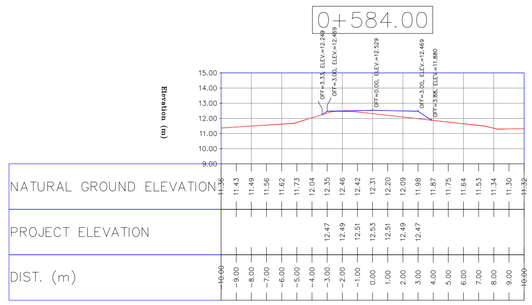


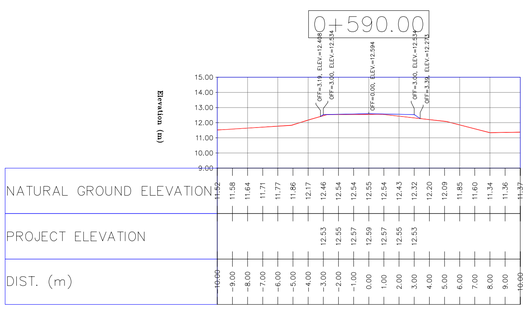


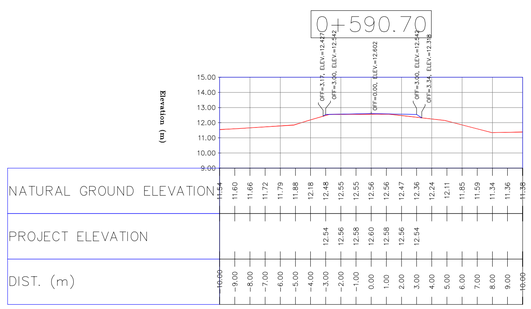


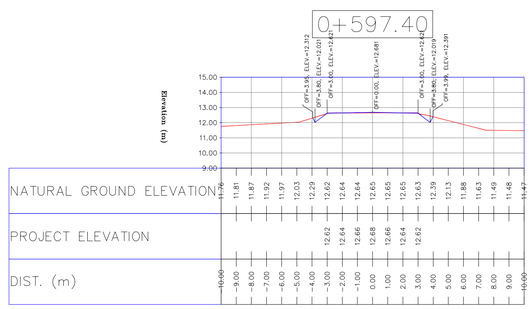












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VERTICAL DATUM:	MSL

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LEGEND

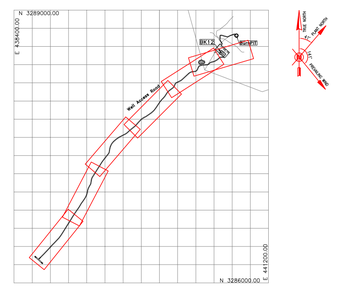
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⊠	POWER TOWER POWER POLE		BURN PIT LINE
	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
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REFERENCE DRAWING	DRG. No.
General Civil Layout -BK12	BK-BK12-PEDCO-110-CV-PY-0001
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Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
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Geotechnical Investigation Report - BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK12	BK-BK12-PEDCO-110-CV-MT-0001
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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 BK12 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
BK12 WHF MODIFICATIONS

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK12 CROSS SECTIONS

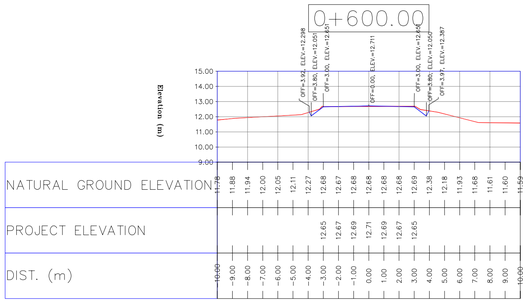
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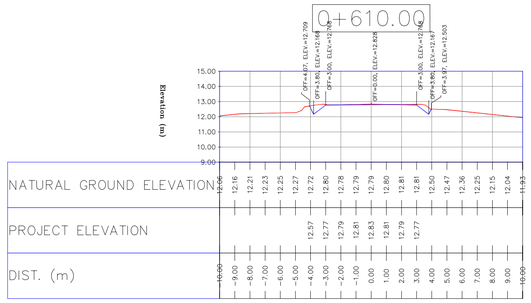
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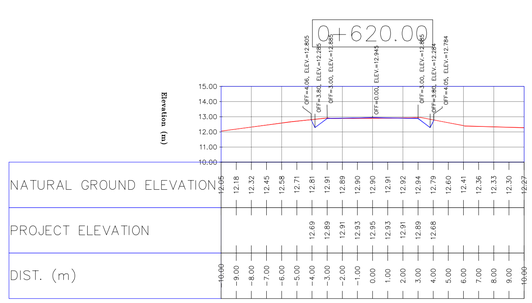
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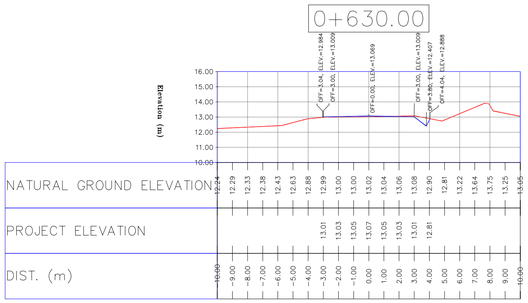
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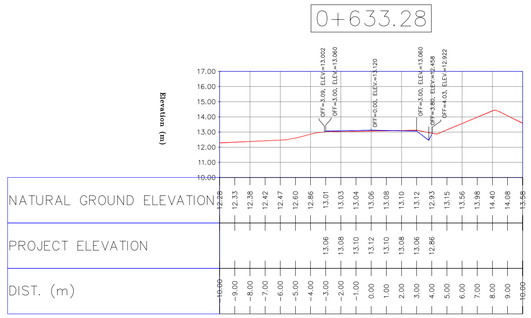
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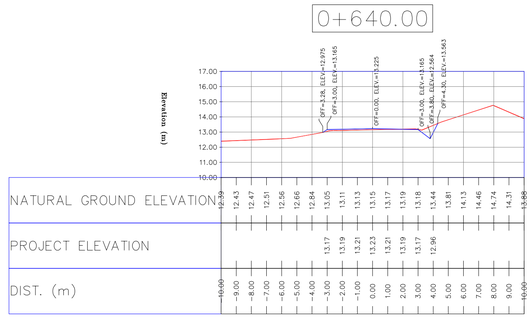


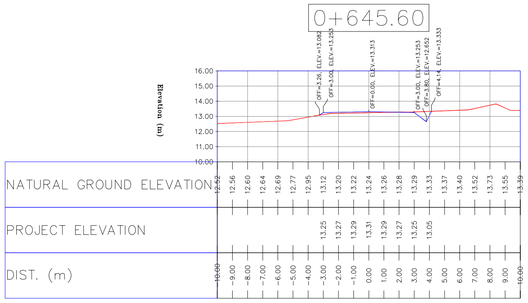


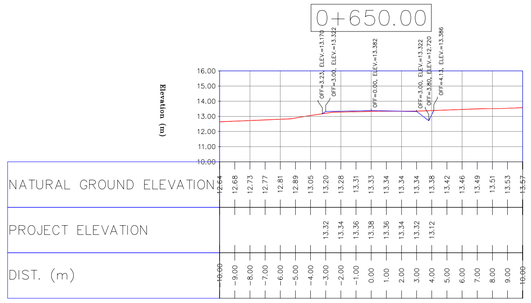


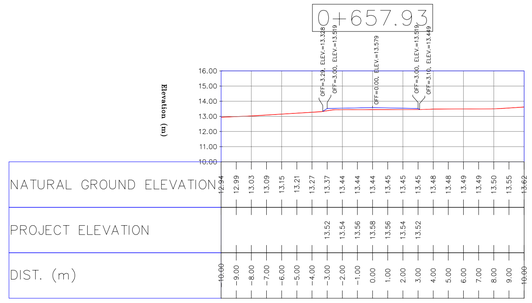


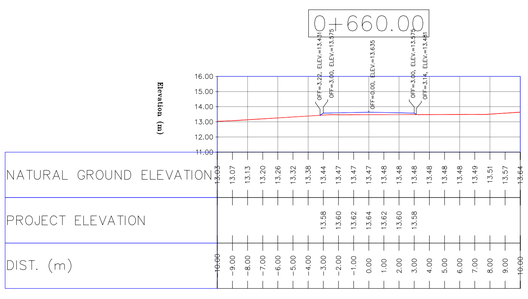


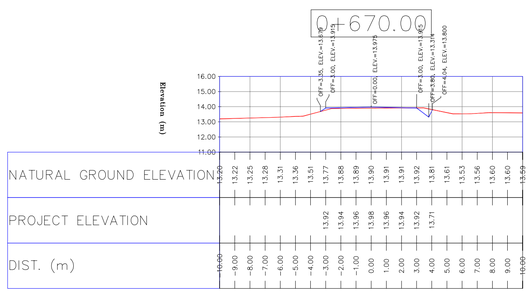


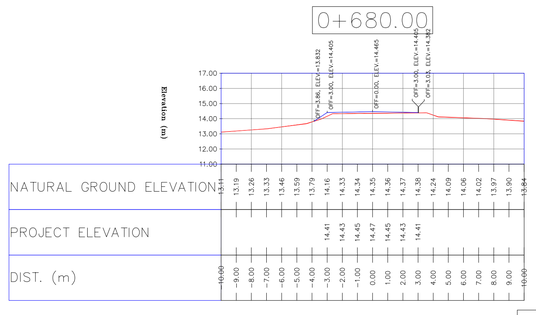












NOTES

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

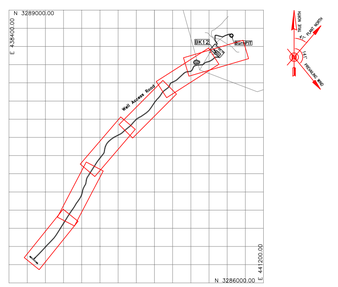
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER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

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK12	BK–BK12–PEDCO–110–CV–PY–0001
Rough Grading Plan–BK12	BK–BK12–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 – BK12	BK–BK12–PEDCO–110–GT–RT–0001
Specification For Road & Paving	BK–GNRAL–PEDCO–000–CV–SP–0002
MTO For Civil Works – BK12	BK–BK12–PEDCO–110–CV–MT–0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK–GNRAL–PEDCO–000–CV–DW–0014
Over Head Line Plan and Profile–BK12	BK–BK12–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	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 BK12 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
BK12 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

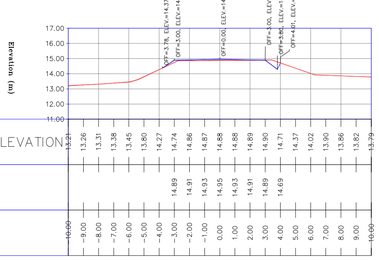
APPROVED FOR CONSTRUCTION | BY: | DATE:

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK12
CROSS SECTIONS

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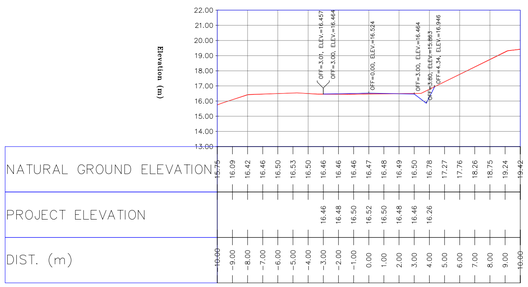
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Elevation (m)
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OFF=3.00, ELEV=14.895
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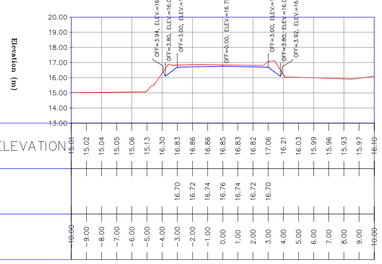
| | | |

0+770.00


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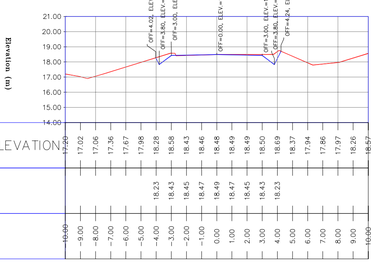
| | | |

0+850.00


Elevation (m)
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OFF=3.50, ELEV=16.097
OFF=3.00, ELEV=16.697
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OFF=3.00, ELEV=16.697
OFF=3.50, ELEV=16.095
OFF=3.92, ELEV=16.338

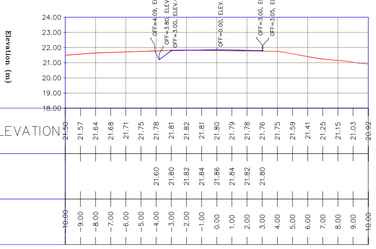
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0+920.00


Elevation (m)
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OFF=3.80, ELEV=17.830
OFF=3.00, ELEV=18.436
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OFF=3.10, ELEV=18.435
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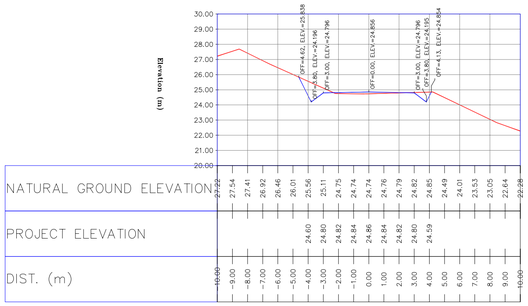
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0+985.12


Elevation (m)
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OFF=+5.00, ELEV=+21.800
OFF=+5.00, ELEV=+21.780
OFF=+5.00, ELEV=+21.780

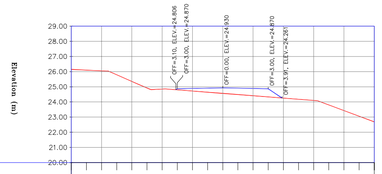
| | | |

1+060.79


Elevation (m)
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OFF=3.00, ELEV=+24.796
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OFF=3.00, ELEV=+24.796
OFF=5.80, ELEV=+24.195
OFF=4.13, ELEV=+24.854

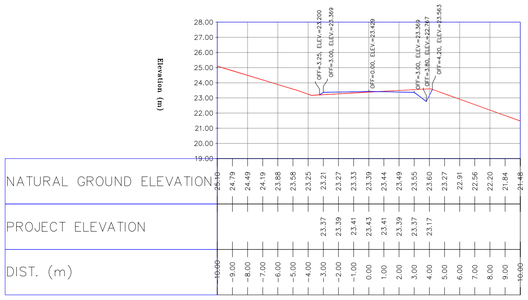
| | | |

1+140.00


Elevation (m)
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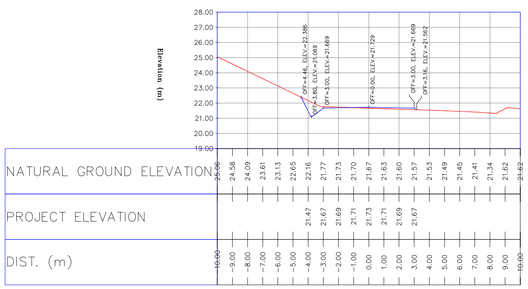
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1+220.00

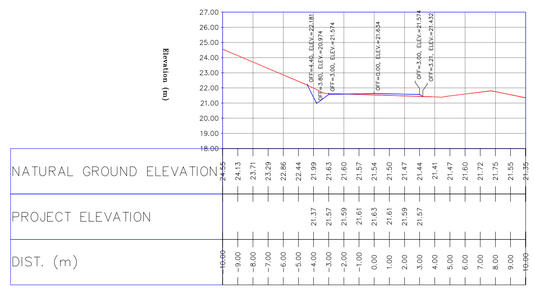

Elevation (m)
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OFF=3.00, ELEV=23.369
OFF=3.80, ELEV=22.747
OFF=4.20, ELEV=23.543

| | | |

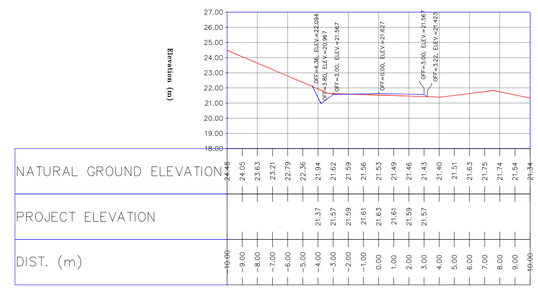
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1+309.32



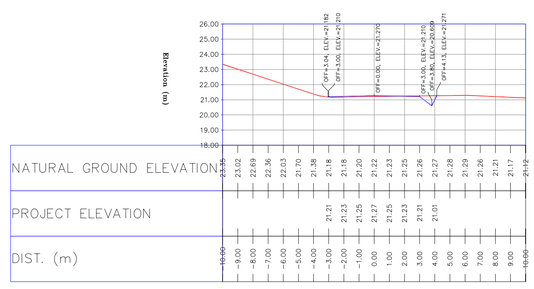
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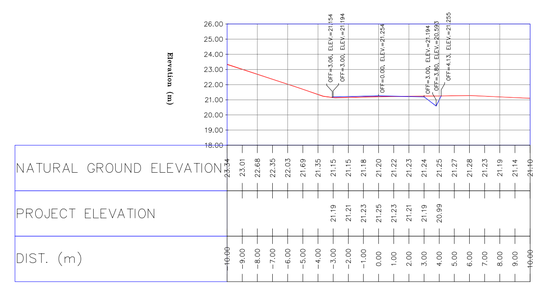
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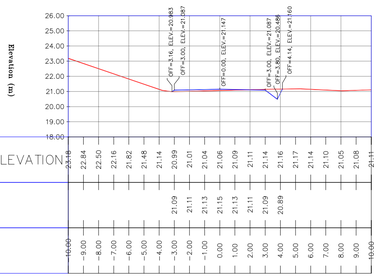
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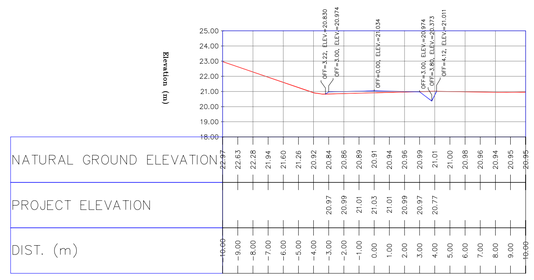
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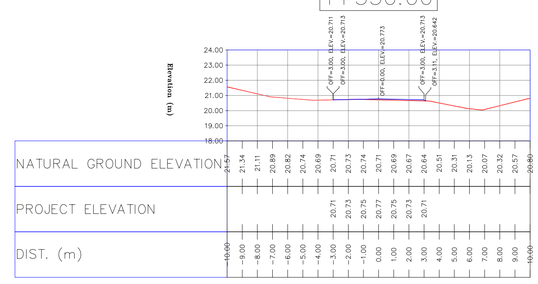
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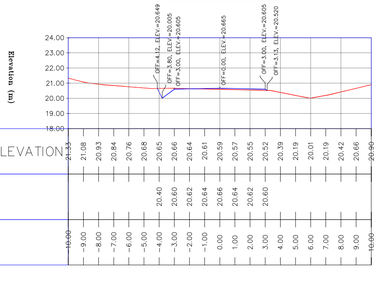
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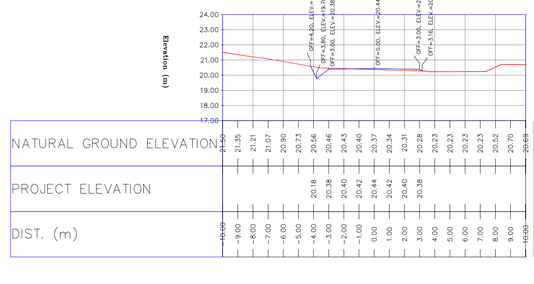
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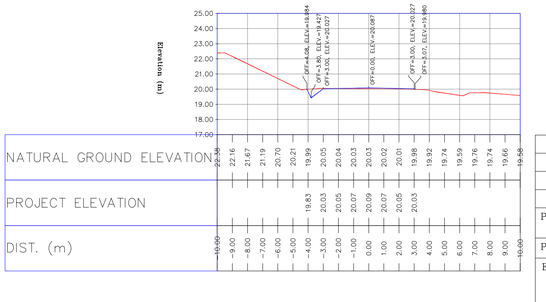
1+353.29



1+360.00



1+370.00



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

LEGEND

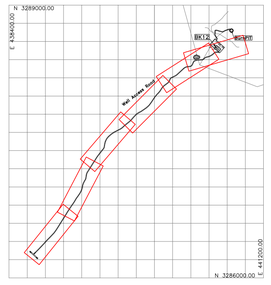
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N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

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK12	BK–BK12–PEDCO–110–CV–PY–0001
Rough Grading Plan–BK12	BK–BK12–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 – BK12	BK–BK12–PEDCO–110–GT–RT–0001
Specification For Road & Paving	BK–GNRAL–PEDCO–000–CV–SP–0002
MTO For Civil Works – BK12	BK–BK12–PEDCO–110–CV–MT–0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK–GNRAL–PEDCO–000–CV–DW–0014
Over Head Line Plan and Profile–BK12	BK–BK12–PEDCO–110–SU–DW–0001

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PT= POINT OF TANGENT
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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



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 BK12 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 – BK12 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK–BK12–PEDCO–110–CV–DW–0001	31 OF 59	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
BK12 WHF MODIFICATIONS

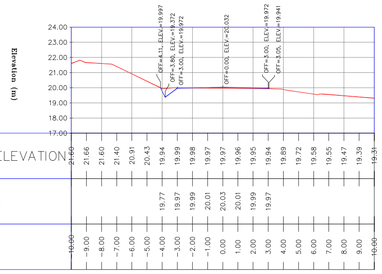
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

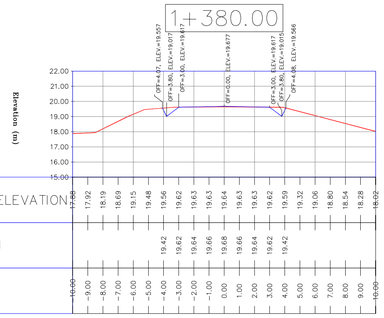
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1+371.34



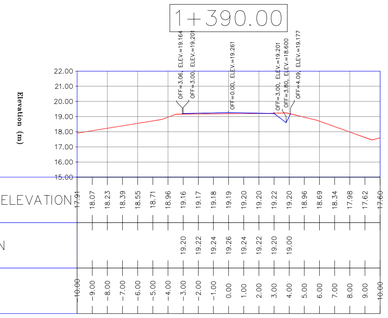
NATURAL GROUND ELEVATION	21.60	21.60	21.60	21.40	20.91	20.43	19.94	19.99	19.98	19.97	19.97	19.96	19.95	19.94	19.89	19.72	19.58	19.55	19.47	19.39	19.31
PROJECT ELEVATION							19.77	19.97	19.99	20.01	20.03	20.01	19.99	19.97							
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+380.00



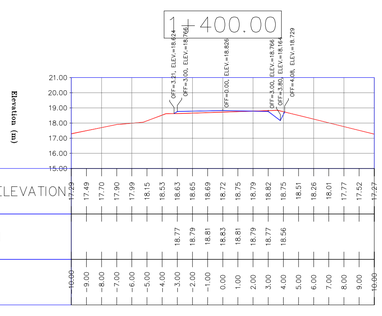
NATURAL GROUND ELEVATION	17.68	17.92	18.19	18.69	19.15	19.48	19.56	19.62	19.63	19.63	19.64	19.63	19.63	19.62	19.59	19.32	19.06	18.80	18.54	18.28	18.02
PROJECT ELEVATION								19.42	19.62	19.64	19.66	19.68	19.66	19.64	19.62	19.42					
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+390.00



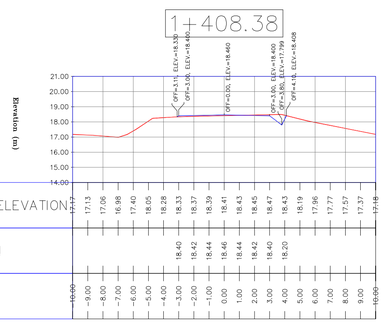
NATURAL GROUND ELEVATION	17.91	18.07	18.23	18.39	18.55	18.71	18.96	19.16	19.17	19.18	19.19	19.20	19.20	19.22	19.20	18.96	18.69	18.34	17.98	17.62	17.60
PROJECT ELEVATION								19.20	19.22	19.24	19.26	19.24	19.22	19.20	19.00						
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+400.00



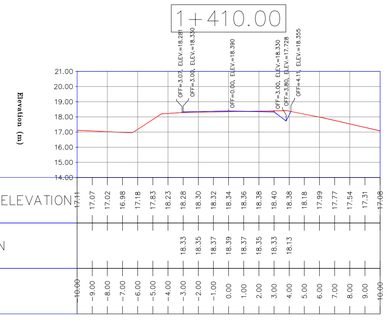
NATURAL GROUND ELEVATION	17.29	17.49	17.70	17.90	17.99	18.15	18.53	18.63	18.65	18.69	18.72	18.75	18.79	18.82	18.75	18.51	18.26	18.01	17.77	17.52	17.27
PROJECT ELEVATION							18.77	18.81	18.79	18.81	18.81	18.83	18.79	18.77	18.56						
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+408.38



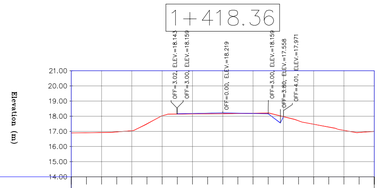
NATURAL GROUND ELEVATION	17.17	17.13	17.06	16.98	17.40	18.05	18.28	18.33	18.37	18.39	18.41	18.43	18.45	18.47	18.43	18.19	17.96	17.77	17.57	17.37	17.18
PROJECT ELEVATION							18.40	18.42	18.44	18.46	18.44	18.42	18.42	18.40	18.20						
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+410.00



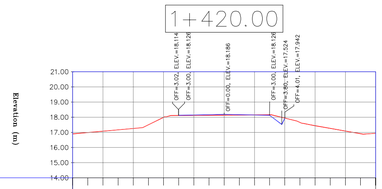
NATURAL GROUND ELEVATION	17.11	17.07	17.02	16.98	17.18	17.83	18.23	18.28	18.30	18.32	18.34	18.36	18.38	18.40	18.38	18.18	17.99	17.77	17.54	17.31	17.08
PROJECT ELEVATION							18.33	18.35	18.37	18.39	18.37	18.35	18.35	18.33	18.13						
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+418.36



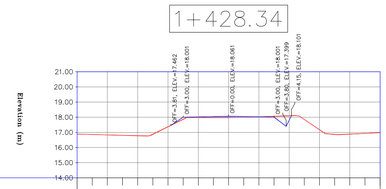
NATURAL GROUND ELEVATION	16.89	16.91	16.92	16.96	17.05	17.50	18.03	18.14	18.15	18.16	18.16	18.18	18.19	18.20	18.19	17.97	17.70	17.47	17.28	17.07	16.93	17.00
PROJECT ELEVATION								18.16	18.18	18.20	18.22	18.20	18.18	18.16	17.96							
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+420.00



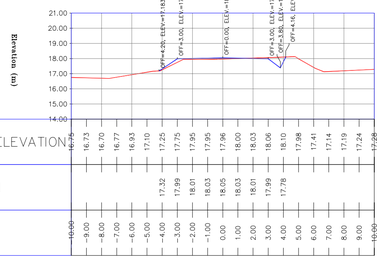
NATURAL GROUND ELEVATION	16.90	16.99	17.08	17.17	17.26	17.50	17.99	18.11	18.12	18.13	18.14	18.15	18.16	18.15	17.94	17.66	17.44	17.26	17.09	16.91	16.94
PROJECT ELEVATION								18.13	18.15	18.17	18.17	18.19	18.17	18.15	18.13	17.92					
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+428.34



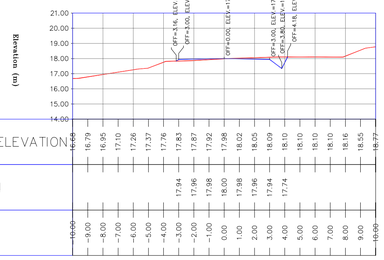
NATURAL GROUND ELEVATION	16.89	16.86	16.83	16.81	16.78	16.87	17.37	17.86	17.98	17.98	17.99	18.03	18.06	18.09	17.85	17.18	16.87	16.88	16.93	16.98
PROJECT ELEVATION								18.00	18.02	18.04	18.06	18.04	18.02	18.00	17.80					
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+430.00



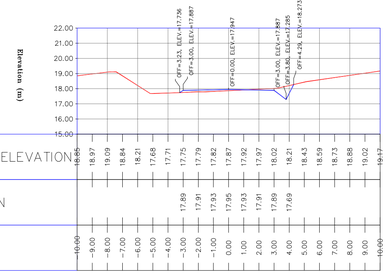
NATURAL GROUND ELEVATION	16.75	16.73	16.70	16.77	16.93	17.10	17.25	17.75	17.95	17.95	17.96	18.00	18.03	18.06	18.10	17.98	17.41	17.14	17.19	17.24	17.28
PROJECT ELEVATION							17.32	17.99	18.01	18.03	17.95	18.05	18.01	17.99	17.78						
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+440.00



NATURAL GROUND ELEVATION	16.68	16.79	16.95	17.10	17.26	17.37	17.76	17.83	17.87	17.92	17.98	18.02	18.05	18.09	18.10	18.10	18.10	18.16	18.55	18.77
PROJECT ELEVATION							17.94	17.96	17.98	17.98	17.98	17.96	17.94	17.74						
DIST. (m)	-10.00	-9.00	-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	9.00	10.00

1+450.00



NATURAL GROUND ELEVATION	16.85	16.97	19.09	18.84	18.21	17.68	17.71	17.75	17.79	17.82	17.87	17.92	17.97	18.02	18.21	18.43	18.59	18.73	18.88	19.02	19.17
PROJECT ELEVATION							17.89	17.91	17.93	17.95	17.93	17.91	17.93	17.89	17.69						
DIST. (m)	-10.00	-9.00	-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	9.00	10.00

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

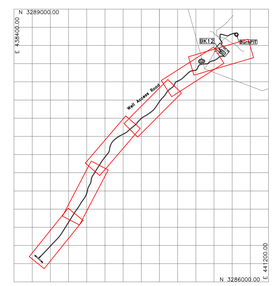
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER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

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK12	BK-BK12-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 - BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK12	BK-BK12-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



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 BK12 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 – BK12 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK12-PEDCO-110-CV-DW-0001	32 OF 59	D00

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

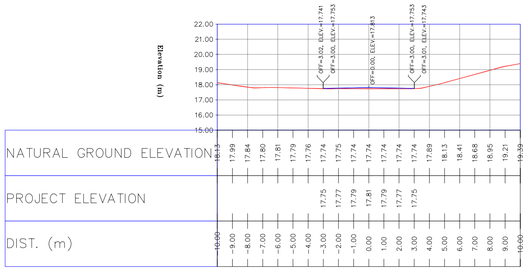
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

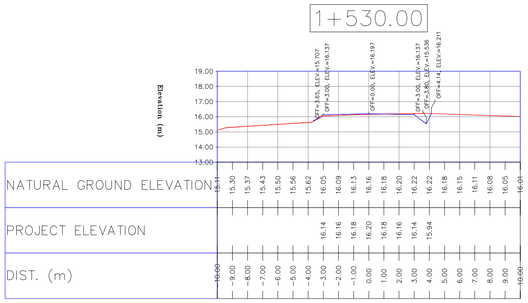
APPROVED FOR CONSTRUCTION	BY:	DATE:

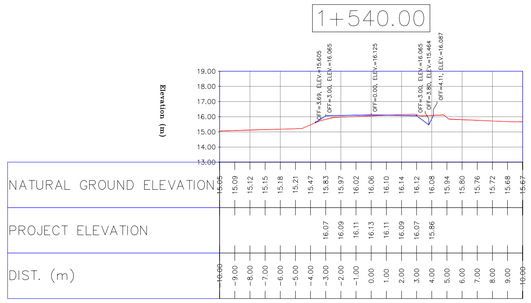
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	A	708295	32	D00

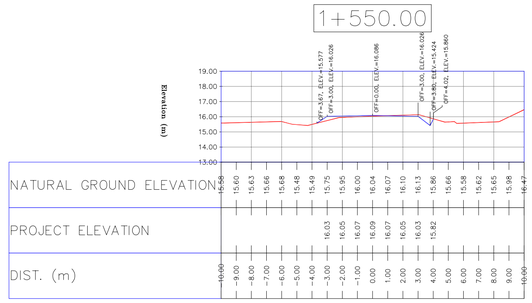
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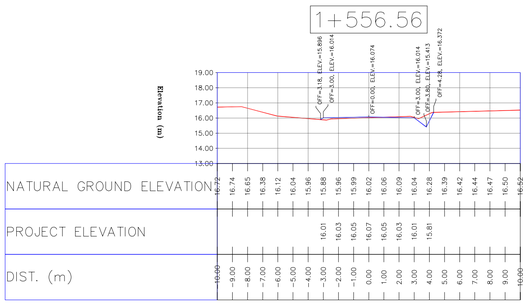

Elevation (m)
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OFF=3.00, ELEV=17.753
OFF=0.00, ELEV=17.843
OFF=3.00, ELEV=17.753
OFF=3.00, ELEV=17.743

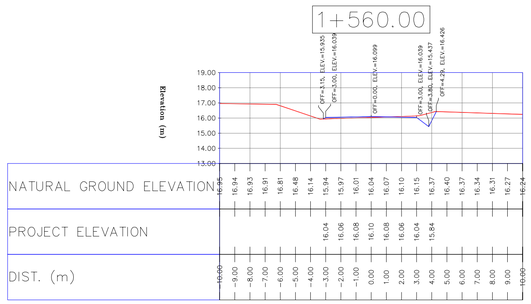
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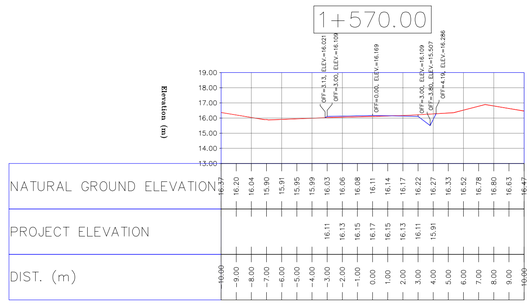


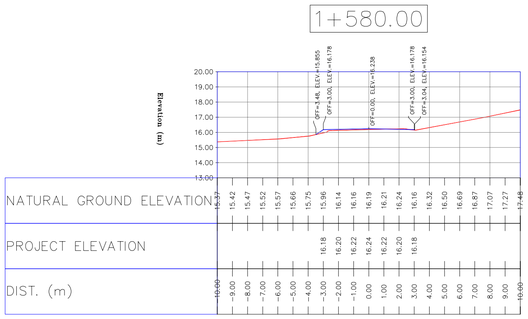


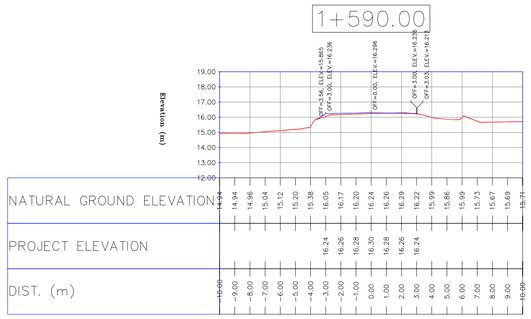


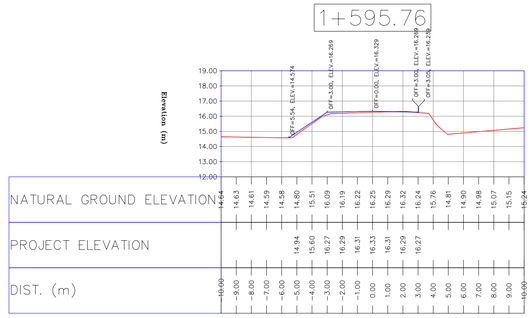


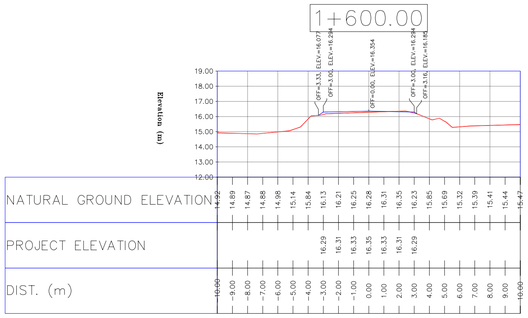


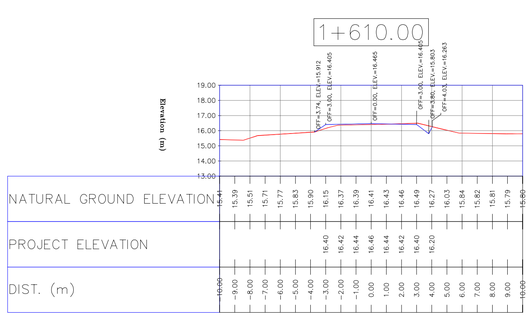


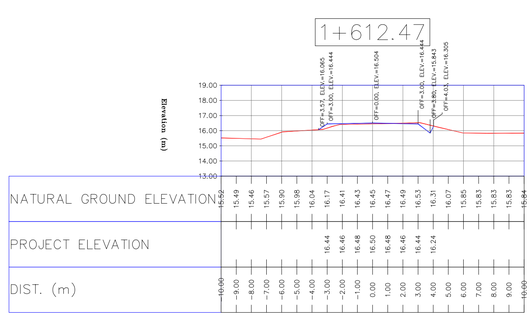












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MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

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.

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

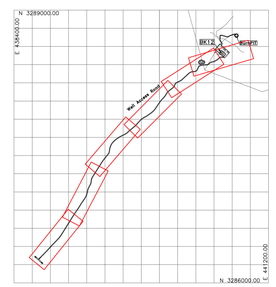
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
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60 / 50	CONTOURS		NATURAL GROUND
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REFERENCE DRAWING	DRG. No.
General Civil Layout -BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK12	BK-BK12-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 - BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK12	BK-BK12-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
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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	**

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK12 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 - BK12 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK12-PEDCO-110-CV-DW-0001	34 OF 59	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

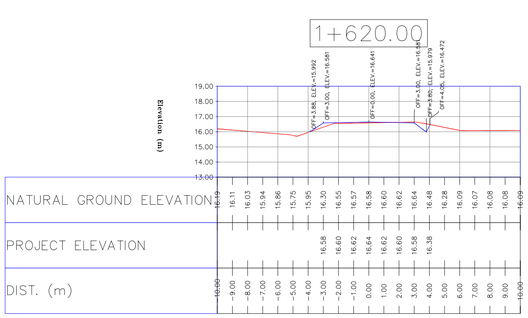
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

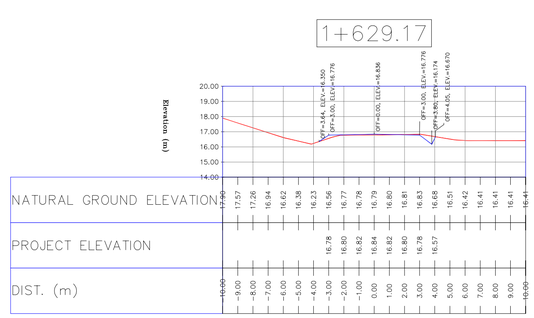
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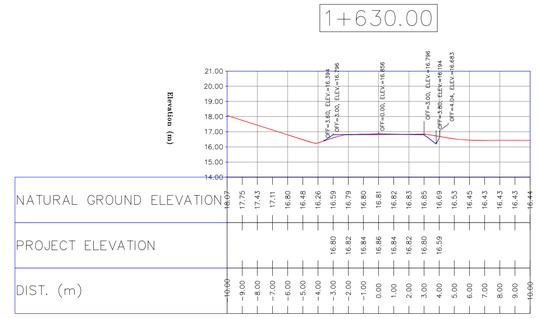
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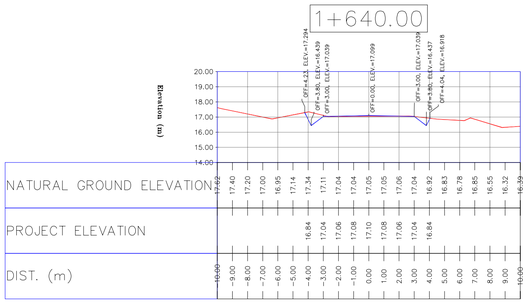
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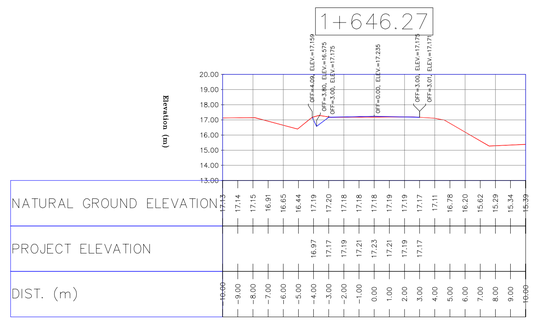
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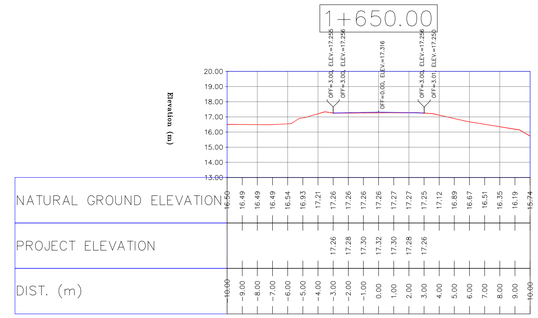


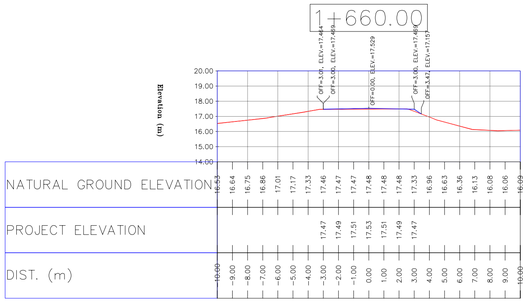


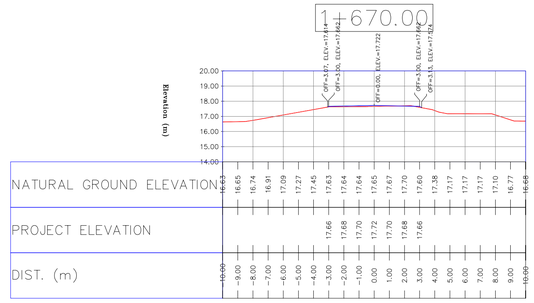


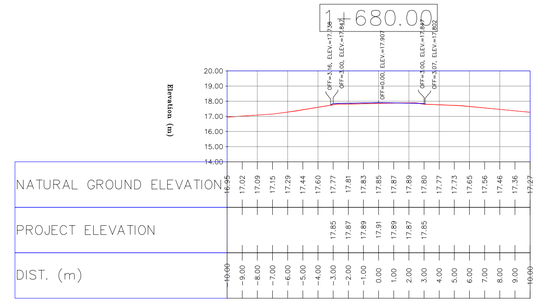


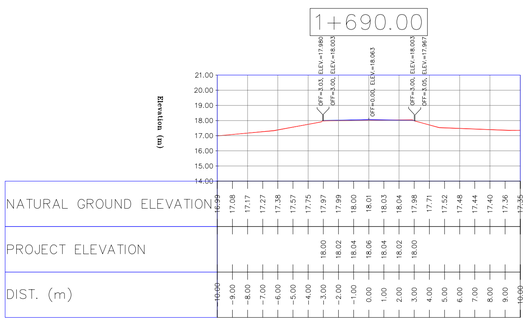


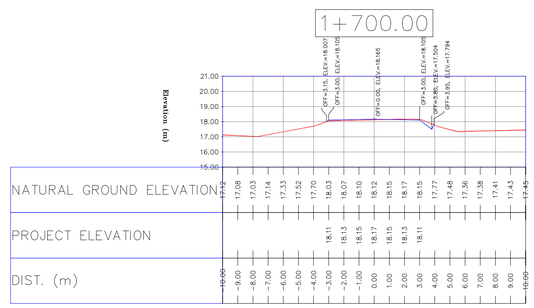


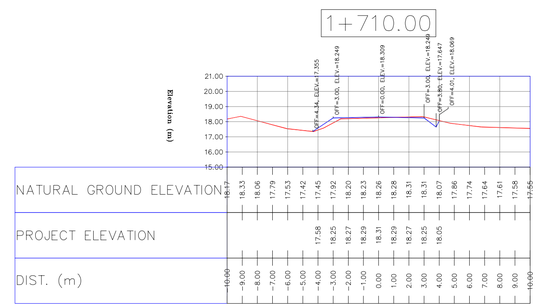












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ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
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LEGEND

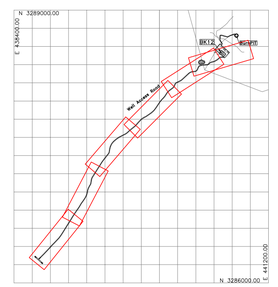
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Rough Grading Plan–BK12	BK–BK12–PEDCO–110–CV–PY–0003
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KEY PLAN



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.

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB–SURFACE WORK PACKAGES BK12 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
BK12 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

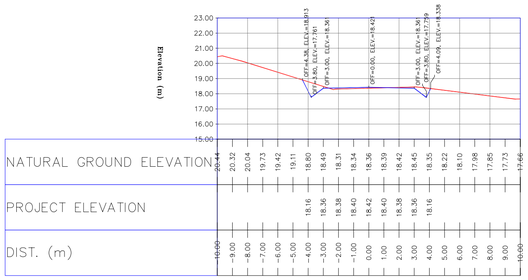
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CROSS SECTIONS

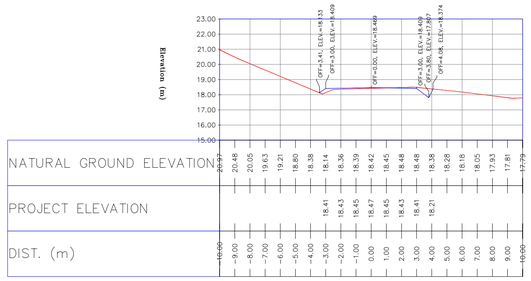
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H=1/200 V=1/200	A1	BK–BK12–PEDCO–110–CV–DW–0001	35 OF 59	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
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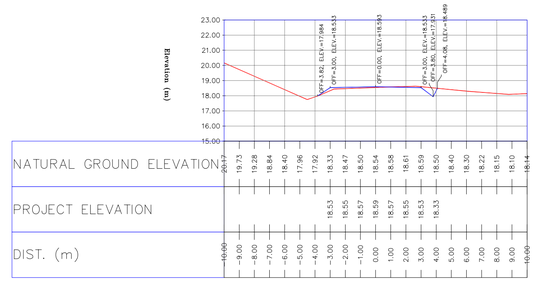
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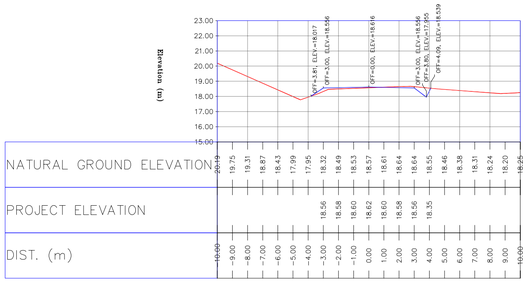
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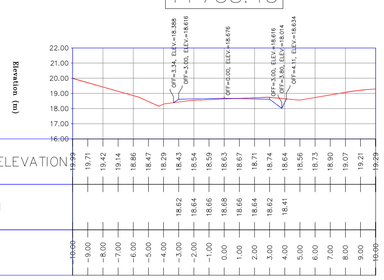
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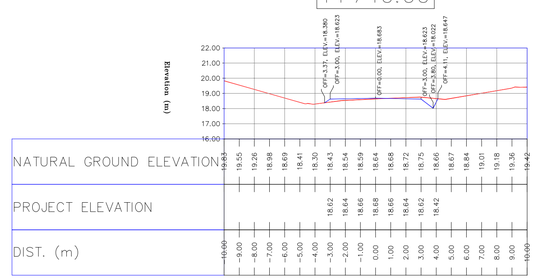
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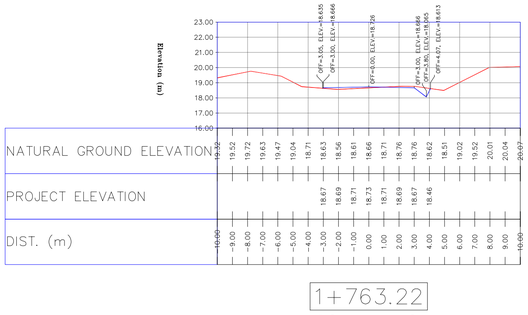
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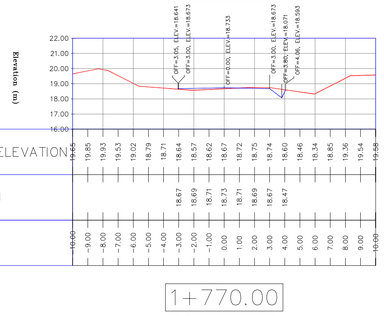
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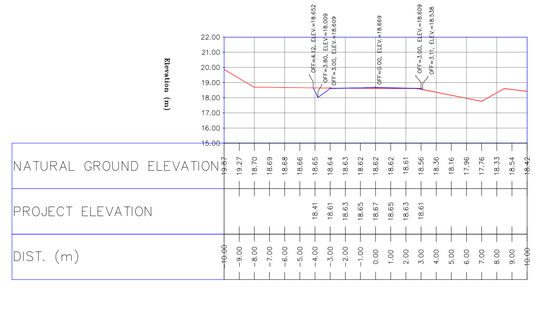
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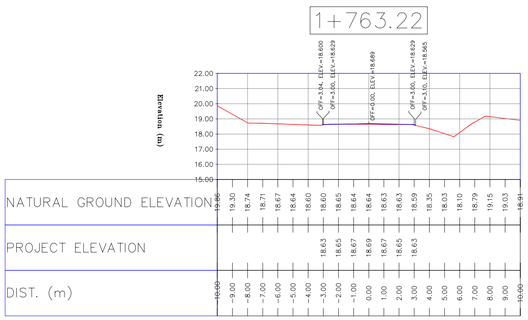
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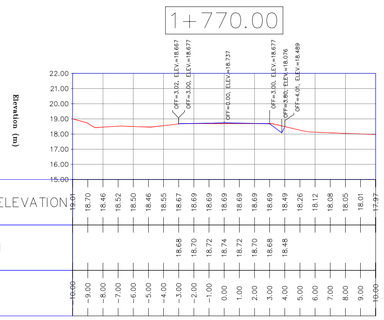
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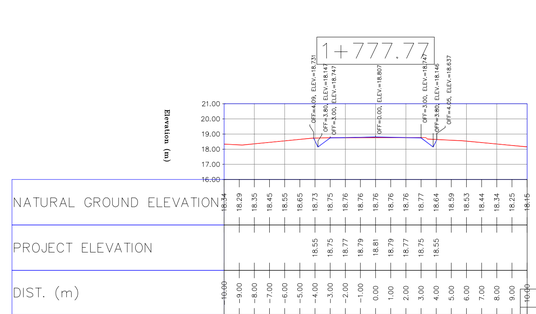
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1+770.00



1+777.77



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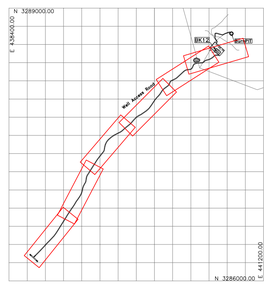
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REV.	DESCRIPTION	BY / CHECKED	DATE	BY / REV. APPR.	DATE
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK12 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 - BK12 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK12-PEDCO-110-CV-DW-0001	36 OF 59	D00

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

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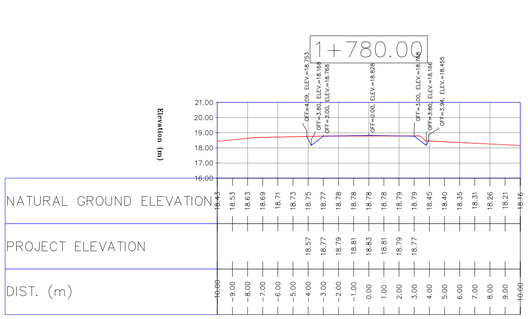
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

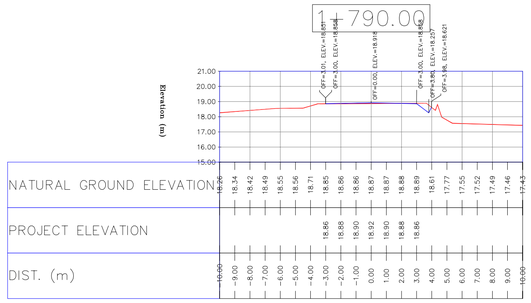
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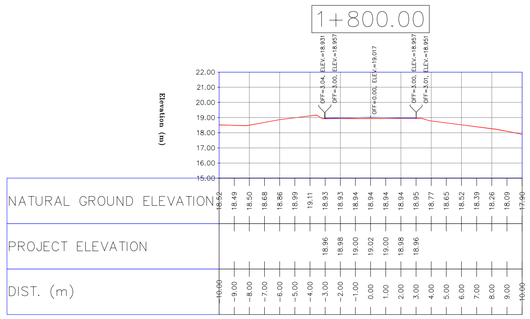
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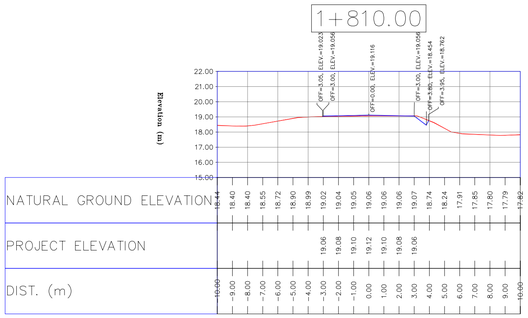
APPROVED FOR CONSTRUCTION | BY: | DATE:

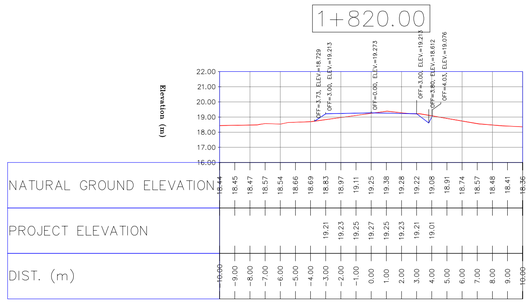
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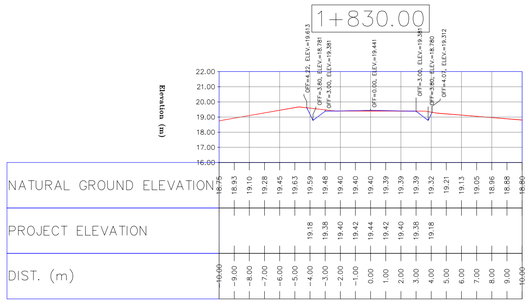


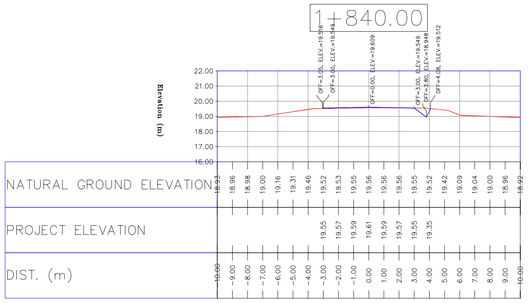


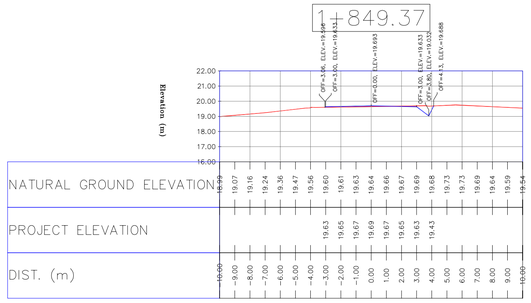


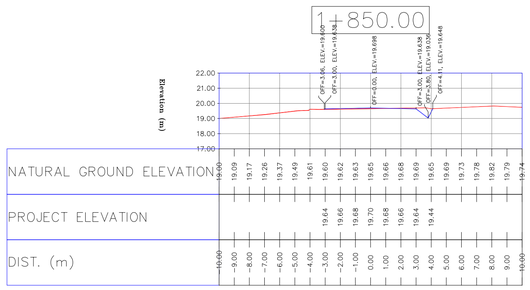


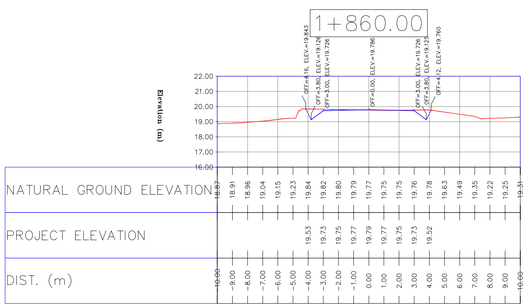


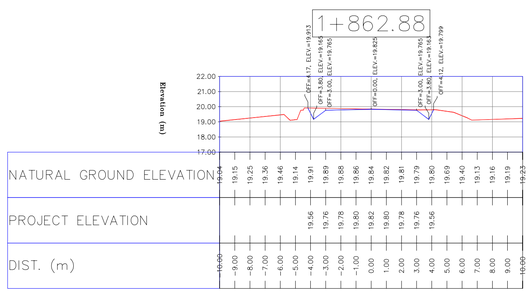


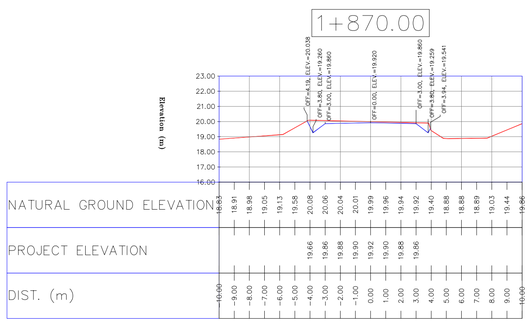












NOTES

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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.

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

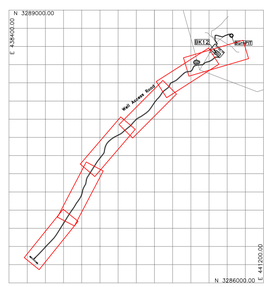
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER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

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK12	BK-BK12-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 - BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK12	BK-BK12-PEDCO-110-3U-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VERTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
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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

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DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK12 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK12-PEDCO-110-CV-DW-0001	37 OF 59	D00

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

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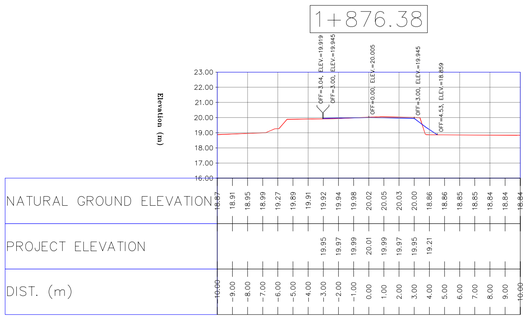
BINAK OILFIELD DEVELOPMENT
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BK12 WHF MODIFICATIONS

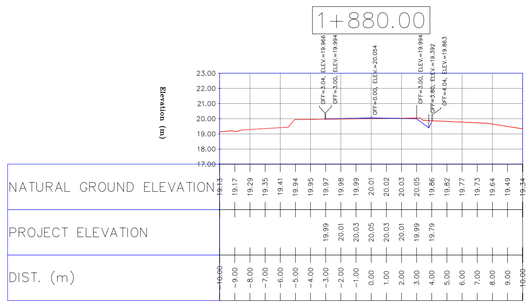
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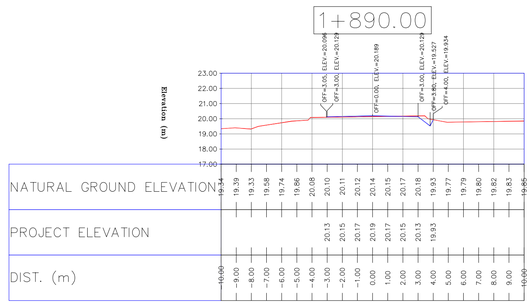
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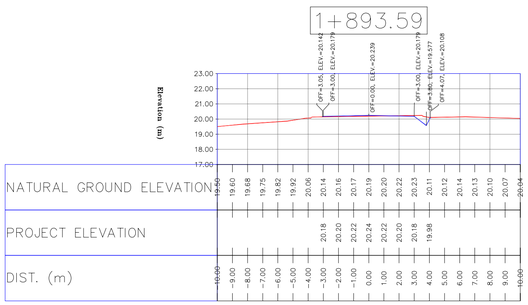
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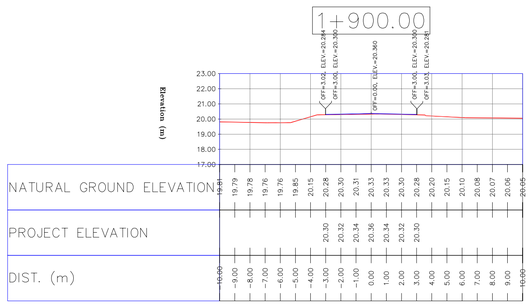
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
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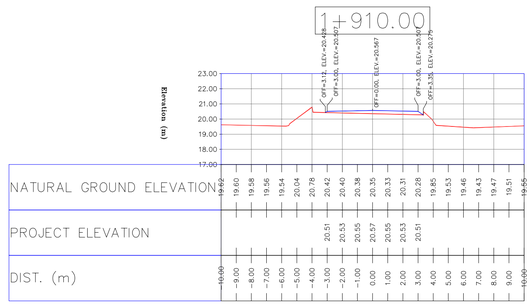


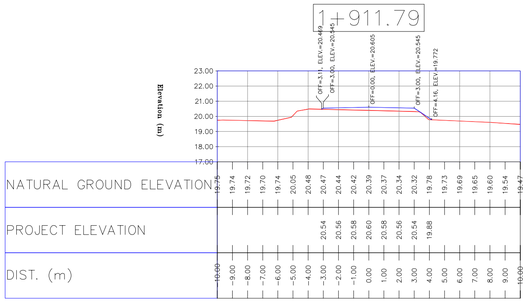


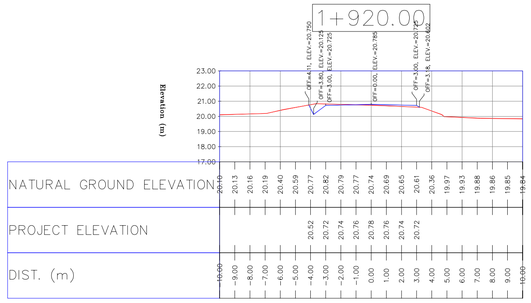


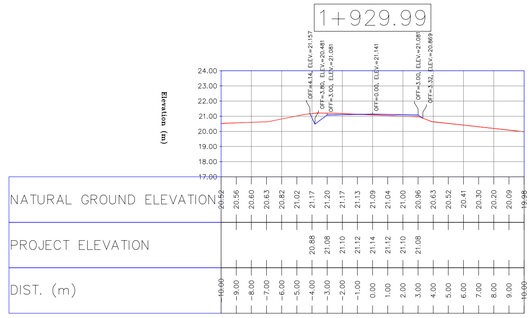


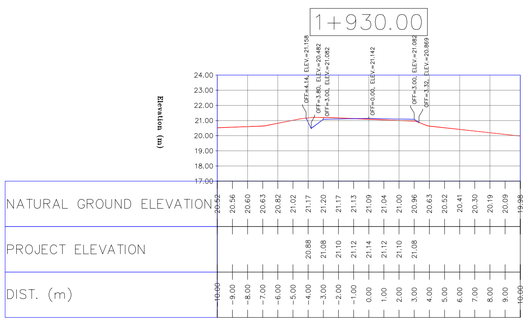


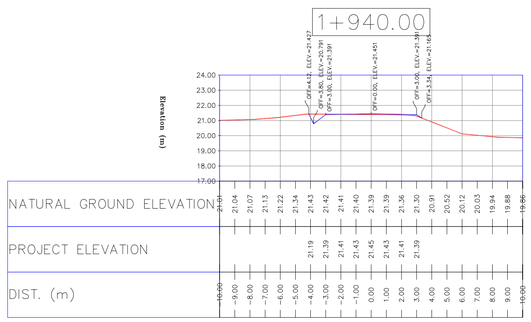


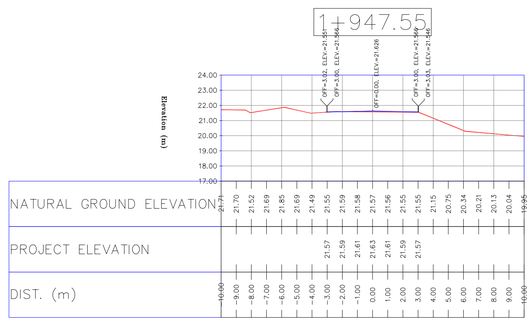












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LEGEND

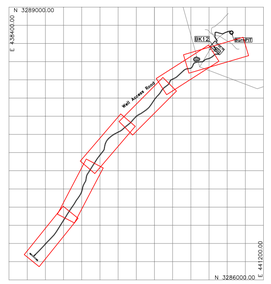
⊙	WELL LOCATION		OIL LINE
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REFERENCE DRAWING	DRG. No.
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KEY PLAN



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D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
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PROJECT NO.: 971020

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

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

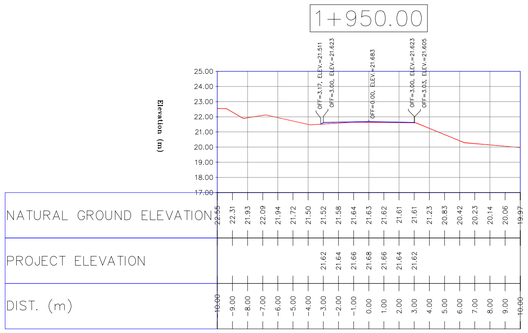
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DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK12
CROSS SECTIONS

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

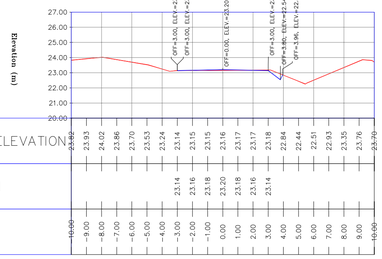
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H=1/200 V=1/200	A1	BK-BK12-PEDCO-110-CV-DW-0001	38 OF 59	D00	053-073-9184	F	4	A	708295	38	D00

1+950.00


Elevation (m)
OFF=-3.170, ELEV=21.951
OFF=-2.100, ELEV=21.623
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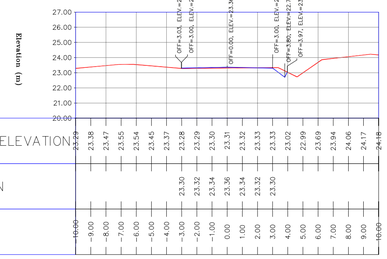
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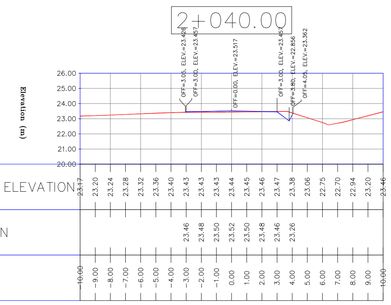
NATURAL GROUND ELEVATION	25.68	23.93	24.02	23.86	23.70	23.53	23.24	23.14	23.16	23.15	23.16	23.17	23.18	22.84	22.44	22.93	23.35	23.76	23.70
PROJECT ELEVATION								23.14		23.18	23.20		23.16						
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+030.00



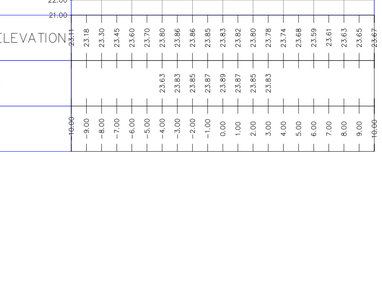
NATURAL GROUND ELEVATION	25.68	23.38	23.47	23.55	23.54	23.45	23.37	23.28	23.29	23.30	23.31	23.32	23.33	23.02	22.99	23.69	23.94	24.06	24.17	24.18
PROJECT ELEVATION										23.30		23.32	23.34	23.34	23.32	23.30				
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+040.00



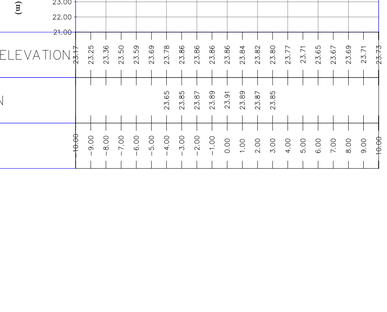
NATURAL GROUND ELEVATION	25.68	23.47	23.20	23.24	23.28	23.32	23.36	23.40	23.43	23.43	23.43	23.44	23.45	23.46	23.47	23.38	23.06	22.75	22.70	22.94	23.20	23.46
PROJECT ELEVATION														23.46			23.26					
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+050.00



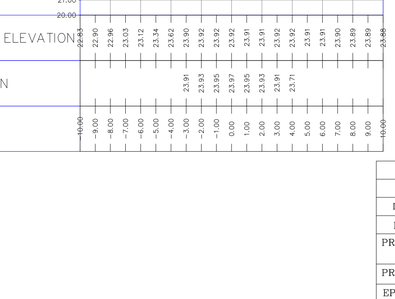
NATURAL GROUND ELEVATION	25.59	23.96	23.94	23.91	23.88	23.80	23.72	23.63	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.25	22.79	22.98	23.18	23.38	23.58
PROJECT ELEVATION								23.41	23.61	23.63	23.65	23.67	23.65	23.63	23.61	23.41					
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+060.00



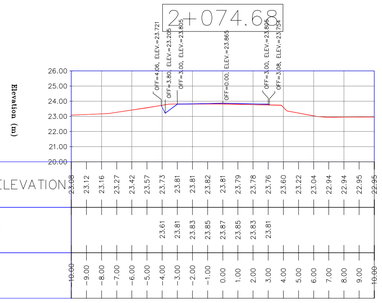
NATURAL GROUND ELEVATION	24.24	24.09	23.93	23.78	23.62	23.46	23.55	23.70	23.69	23.71	23.70	23.71	23.71	23.71	23.71	23.13	22.61	23.44	23.79	23.86	23.93
PROJECT ELEVATION									23.49	23.69	23.71	23.73	23.75	23.71	23.69	23.49					
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+070.00



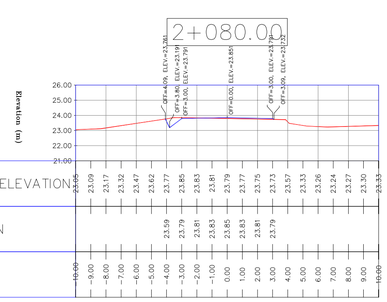
NATURAL GROUND ELEVATION	25.11	23.15	23.19	23.23	23.34	23.51	23.67	23.77	23.78	23.78	23.79	23.79	23.79	23.76	23.75	23.43	23.34	23.26	23.25	23.26	23.26
PROJECT ELEVATION								23.57	23.77	23.79	23.81	23.83	23.81	23.79	23.77	23.57					
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+074.68



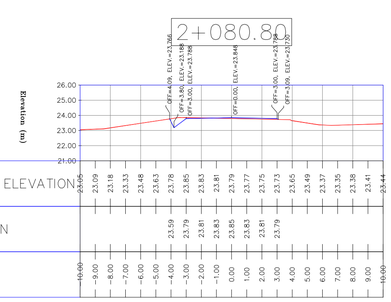
NATURAL GROUND ELEVATION	25.68	23.12	23.16	23.27	23.42	23.57	23.73	23.81	23.82	23.81	23.79	23.78	23.76	23.60	23.22	23.04	22.94	22.94	22.95	22.95
PROJECT ELEVATION								23.61	23.81	23.83	23.85	23.87	23.85	23.83	23.81					
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+080.00



NATURAL GROUND ELEVATION	25.65	23.09	23.17	23.32	23.47	23.62	23.77	23.85	23.81	23.79	23.77	23.75	23.73	23.57	23.26	23.24	23.27	23.30	23.33
PROJECT ELEVATION								23.59	23.79	23.81	23.83	23.85	23.83	23.81	23.79				
DIST. (m)	10.00	-9.00	-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	9.00	10.00

2+080.80



NATURAL GROUND ELEVATION	25.65	23.09	23.18	23.33	23.48	23.63	23.78	23.85	23.83	23.81	23.79	23.77	23.75	23.73	23.65	23.49	23.37	23.35	23.38	23.41	23.44
PROJECT ELEVATION								23.59	23.79	23.81	23.83	23.85	23.83	23.81	23.79						
DIST. (m)	10.00	-9.00	-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	9.00	10.00

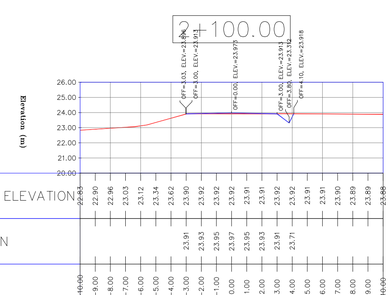
2+086.92

NATURAL GROUND ELEVATION	25.11	23.18	23.30	23.45	23.60	23.70	23.80	23.86	23.85	23.83	23.82	23.80	23.78	23.74	23.68	23.59	23.61	23.63	23.65	23.67
PROJECT ELEVATION								23.63	23.85	23.87	23.89	23.87	23.85	23.83						
DIST. (m)	10.00	-9.00	-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	9.00	10.00

2+090.00

NATURAL GROUND ELEVATION	25.17	23.25	23.36	23.50	23.59	23.69	23.78	23.86	23.86	23.86	23.84	23.82	23.80	23.77	23.71	23.65	23.67	23.69	23.71	23.73
PROJECT ELEVATION								23.65	23.85	23.87	23.89	23.87	23.85	23.85						
DIST. (m)	10.00	-9.00	-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	9.00	10.00

2+100.00



NATURAL GROUND ELEVATION	22.83	22.90	22.96	23.03	23.12	23.34	23.62	23.90	23.92	23.92	23.91	23.92	23.92	23.91	23.92	23.91	23.91	23.90	23.89	23.89	23.88
PROJECT ELEVATION								23.91	23.93	23.95	23.97	23.93	23.95	23.91	23.71						
DIST. (m)	10.00	-9.00	-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	9.00	10.00

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

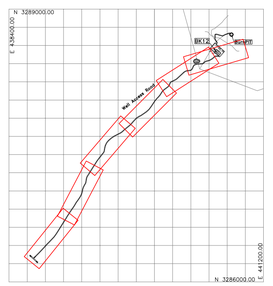
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER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

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK12	BK-BK12-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 - BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK12	BK-BK12-PEDCO-110-3U-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	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 BK12 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
BK12 WHF MODIFICATIONS

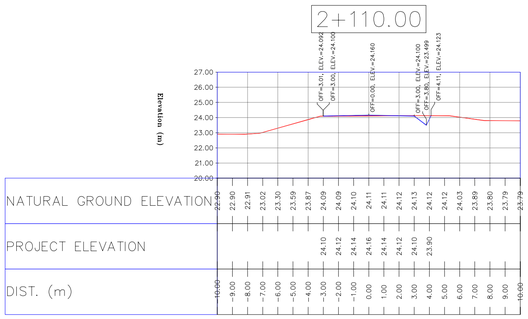
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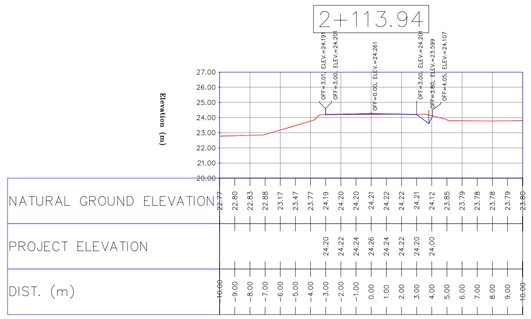
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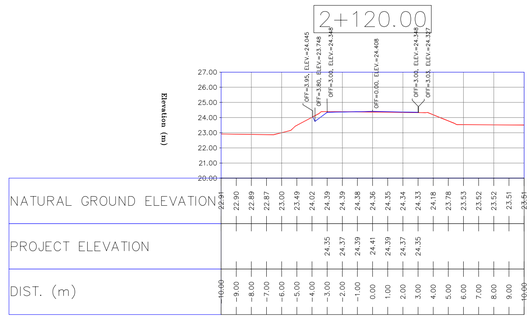
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APPROVED FOR CONSTRUCTION | BY: | DATE:

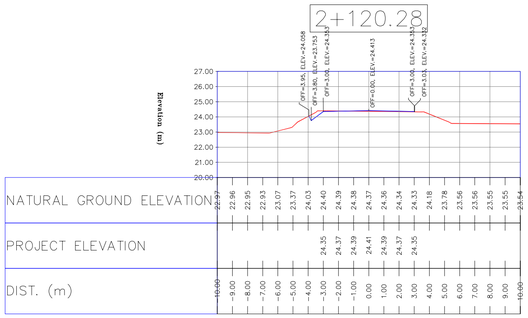
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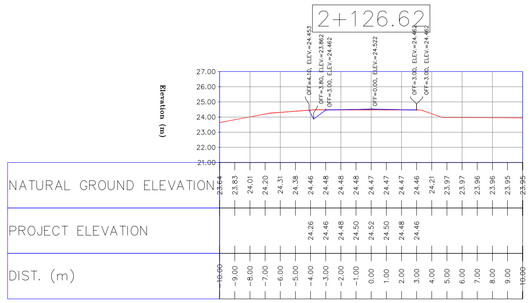
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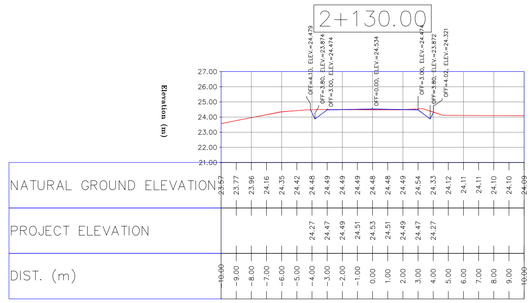


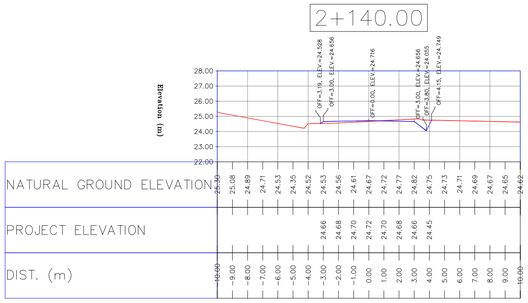


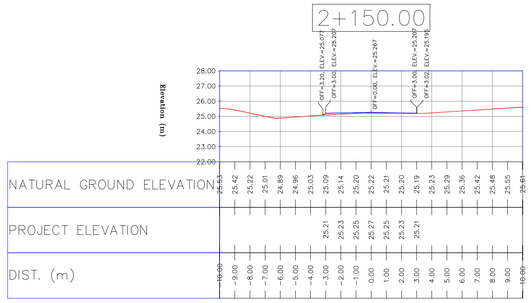


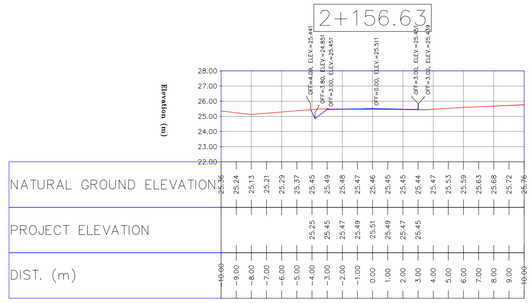


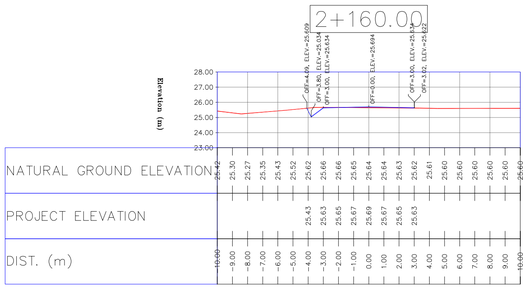


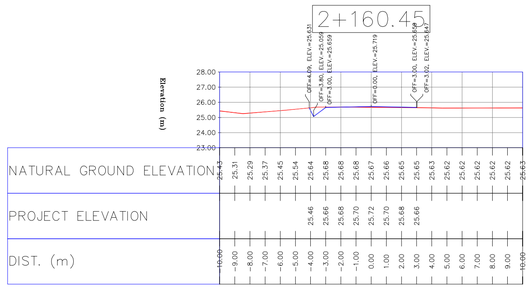


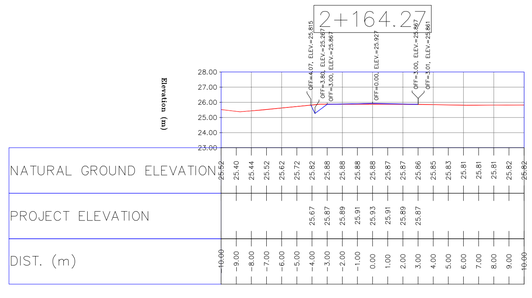


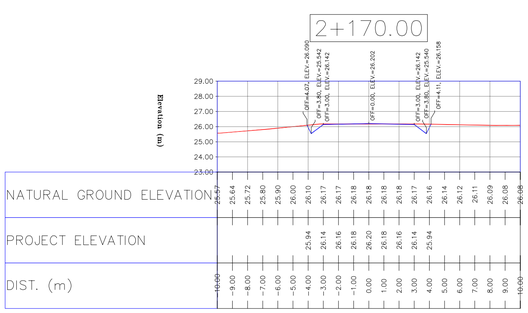


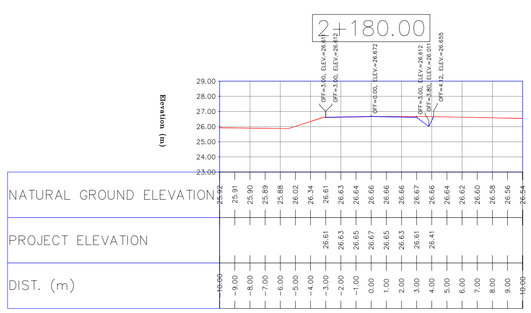


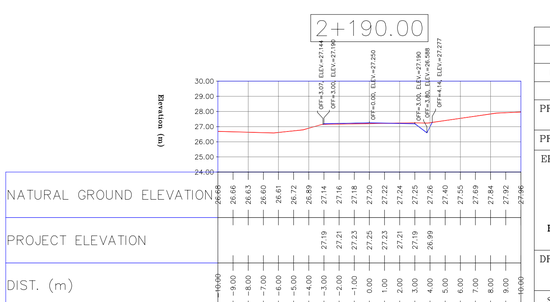












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- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

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

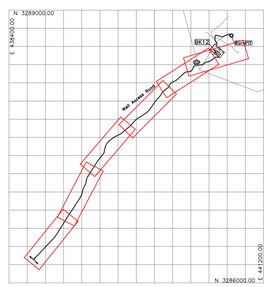
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER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

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK12	BK-BK12-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 - BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK12	BK-BK12-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	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	**.**

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK12 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 – BK12 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK12-PEDCO-110-CV-DW-0001	41 OF 59	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
BK12 WHF MODIFICATIONS

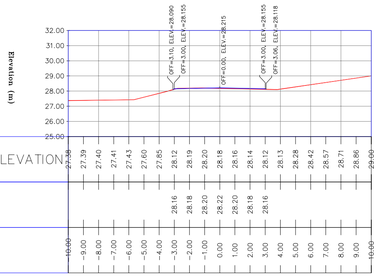
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

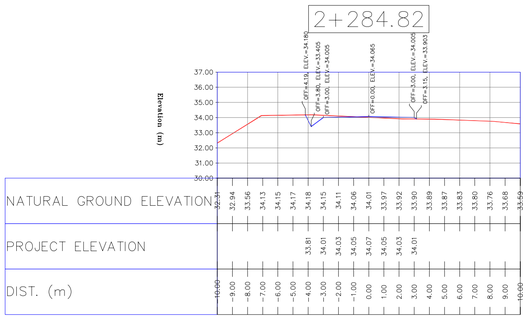
APPROVED FOR CONSTRUCTION | BY: | DATE:

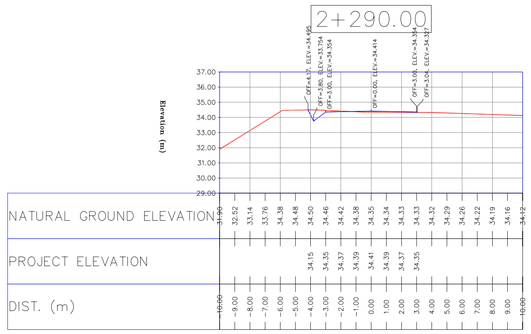
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053-073-9184	F	4	A	708295	41	D00

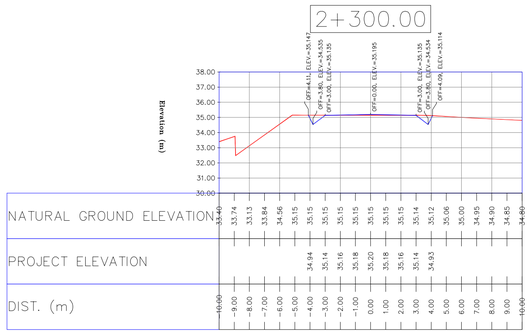
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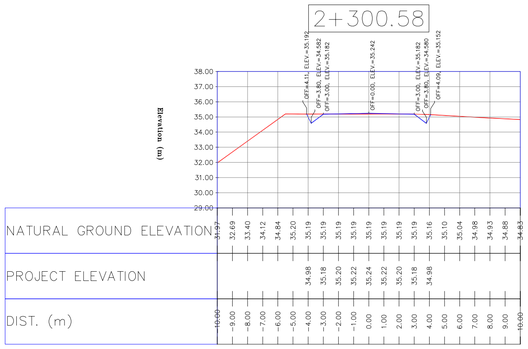

Elevation (m)
OFF=3.10, ELEV=28.090
OFF=3.00, ELEV=28.155
OFF=0.00, ELEV=28.215
OFF=3.00, ELEV=28.155
OFF=3.06, ELEV=28.118

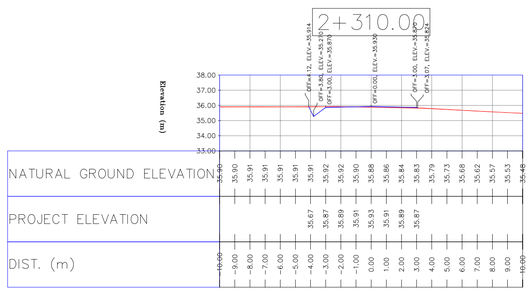
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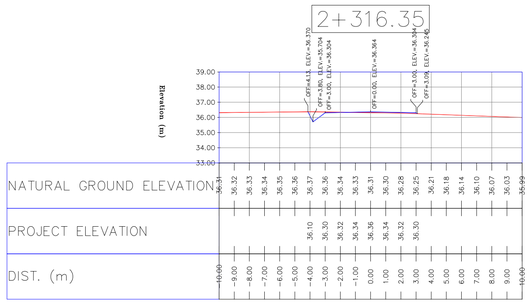


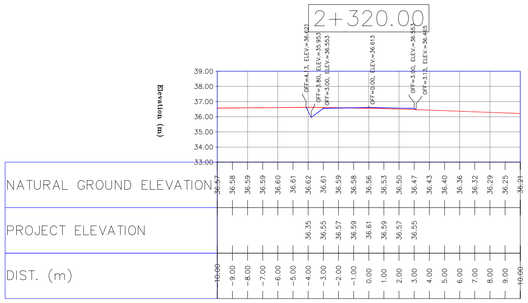


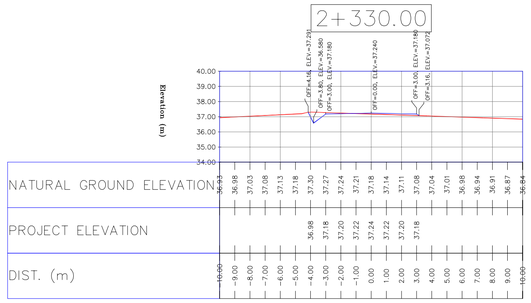


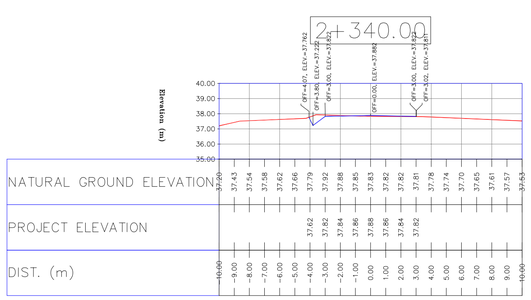


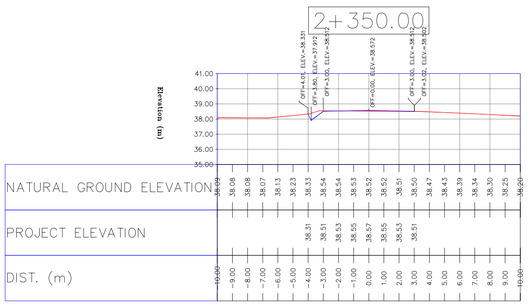


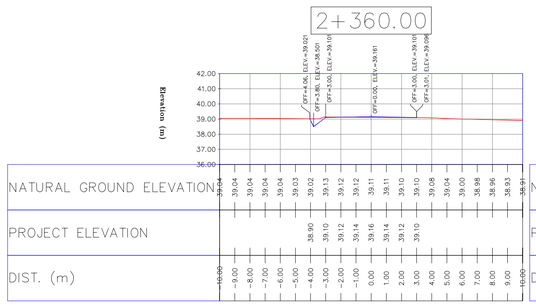


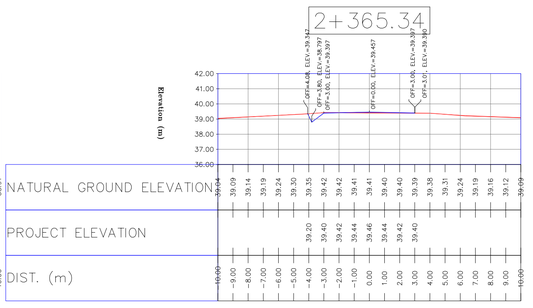












NOTES

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.

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

LEGEND

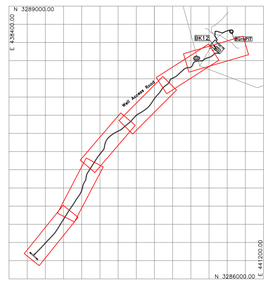
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
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	EXISTING ROAD	AT PROFILE / 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		NATURAL GROUND
	WATER COURSE		FINNISH GROUND

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK12	BK-BK12-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
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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.

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 BK12 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
BK12 WHF MODIFICATIONS

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK12
CROSS SECTIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

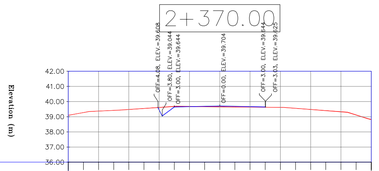
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK12-PEDCO-110-CV-DW-0001	43 OF 59	D00

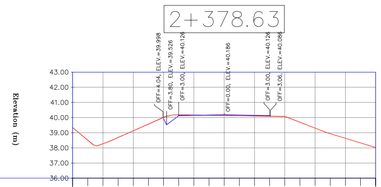
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053-073-9184	F	4	A	708295	43	D00

2+370.00



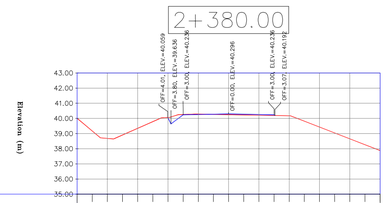
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PROJECT ELEVATION							39.44	39.64	39.66	39.68	39.70	39.68	39.66	39.64						
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+378.63



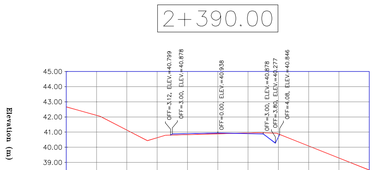
NATURAL GROUND ELEVATION	39.34	38.51	38.27	38.68	39.13	39.57	40.01	40.19	40.13	40.17	40.15	40.14	40.12	40.10	40.09	40.07	39.69	39.30	38.93	38.53	38.02
PROJECT ELEVATION							39.93	40.13	40.15	40.17	40.19	40.17	40.15	40.13							
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+380.00



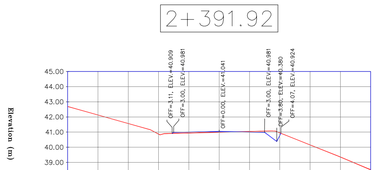
NATURAL GROUND ELEVATION	40.61	39.17	38.68	38.91	39.35	39.79	40.26	40.26	40.28	40.27	40.25	40.23	40.21	40.20	40.19	40.18	39.82	39.43	39.04	38.63	38.27	37.88
PROJECT ELEVATION							40.04	40.24	40.26	40.28	40.30	40.28	40.26	40.24								
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	

2+390.00



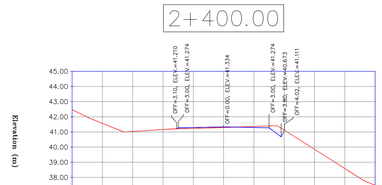
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PROJECT ELEVATION							40.88	40.90	40.92	40.94	40.90	40.92	40.90	40.88	40.68						
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+391.92



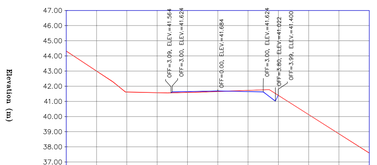
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PROJECT ELEVATION							40.98	41.00	41.02	41.02	41.00	40.98	40.78								
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+400.00



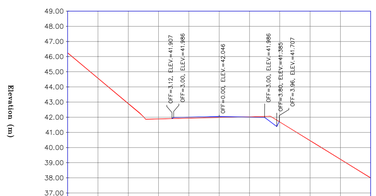
NATURAL GROUND ELEVATION	42.47	41.98	41.57	41.16	41.03	41.09	41.16	41.21	41.24	41.26	41.29	41.32	41.36	41.40	41.72	40.49	39.86	39.22	38.59	37.96	37.48
PROJECT ELEVATION							41.27	41.29	41.31	41.33	41.29	41.31	41.27	41.07							
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+410.00



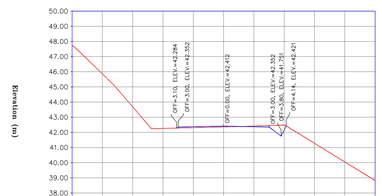
NATURAL GROUND ELEVATION	44.32	43.66	43.00	42.34	41.61	41.59	41.57	41.57	41.59	41.62	41.65	41.69	41.72	41.76	41.39	40.76	40.13	39.49	38.86	38.23	37.59
PROJECT ELEVATION							41.62	41.64	41.66	41.66	41.68	41.66	41.64	41.62							
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+420.00



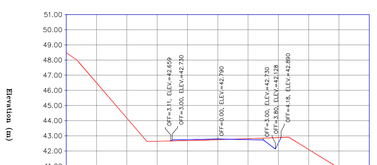
NATURAL GROUND ELEVATION	45.24	45.41	44.57	43.74	42.90	42.04	41.89	41.91	41.96	41.98	42.00	42.03	42.05	41.68	41.07	40.46	39.84	39.23	38.61	38.00	
PROJECT ELEVATION							41.99	42.01	42.03	42.03	42.03	42.01	41.99								
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+430.00



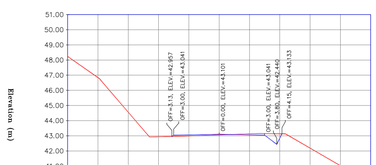
NATURAL GROUND ELEVATION	47.74	46.83	45.86	44.85	43.68	42.52	42.26	42.29	42.33	42.36	42.38	42.42	42.45	42.49	41.89	41.28	40.66	40.05	39.44	38.82	
PROJECT ELEVATION							42.35	42.37	42.39	42.41	42.39	42.37	42.35	42.15							
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+440.00



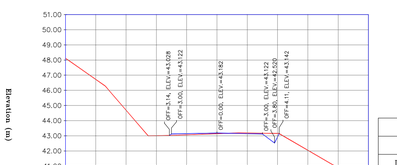
NATURAL GROUND ELEVATION	49.42	47.65	46.49	45.33	44.17	43.01	42.64	42.66	42.69	42.71	42.74	42.78	42.81	42.85	42.88	42.71	42.10	41.48	40.92	40.45	39.98
PROJECT ELEVATION							42.73	42.75	42.77	42.79	42.77	42.75	42.73	42.53							
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+447.94



NATURAL GROUND ELEVATION	49.24	47.54	46.85	45.71	44.55	43.39	42.94	42.96	42.99	43.02	43.06	43.09	43.13	43.15	42.76	42.19	41.61	41.03	40.46	39.90	
PROJECT ELEVATION							43.04	43.06	43.08	43.08	43.10	43.08	43.06	43.04	42.84						
DIST. (m)	-10.00	-9.00	-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	9.00	10.00

2+450.00



NATURAL GROUND ELEVATION	48.12	47.42	46.72	45.85	44.68	43.53	43.01	43.03	43.06	43.10	43.14	43.18	43.18	43.17	43.16	42.63	42.04	41.46	40.88	40.30	39.72
PROJECT ELEVATION							43.12	43.14	43.16	43.18	43.14	43.16	43.12	42.92							
DIST. (m)	-10.00	-9.00	-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	9.00	10.00

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

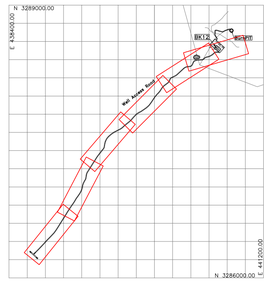
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
BM	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
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

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK12	BK-BK12-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 – BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK12	BK-BK12-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



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.

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 BK12 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
BK12 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

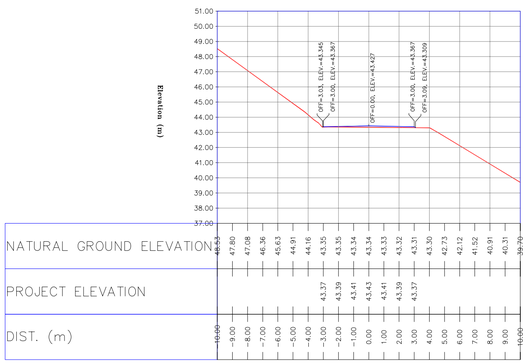
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
APPROVED FOR CONSTRUCTION | BY: | DATE:

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK12
CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK12-PEDCO-110-CV-DW-0001	44 OF 59	D00

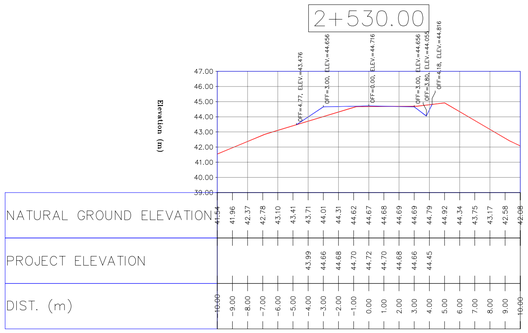
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	A	708295	44	D00

2+460.00


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OFF=-3.00, ELEV=+43.367
OFF=0.00, ELEV=+43.427
OFF=3.00, ELEV=+43.367
OFF=3.00, ELEV=+43.359

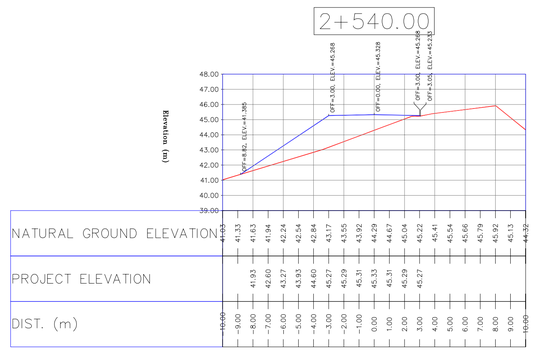
| | | |

2+530.00



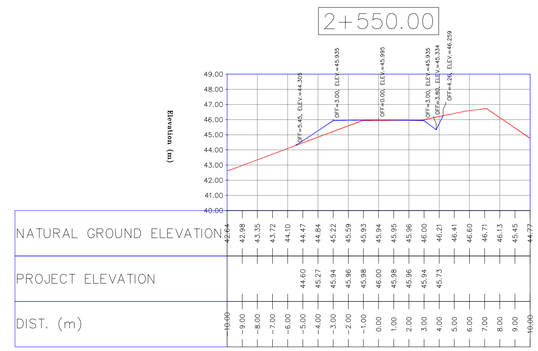
NATURAL GROUND ELEVATION	42.54	41.96	42.37	42.78	43.10	43.41	43.71	44.01	44.31	44.62	44.67	44.68	44.69	44.69	44.79	44.92	44.34	43.75	43.17	42.58	42.08
PROJECT ELEVATION						43.89	44.66	44.68	44.72	44.70	44.70	44.68	44.66	44.45							
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+540.00



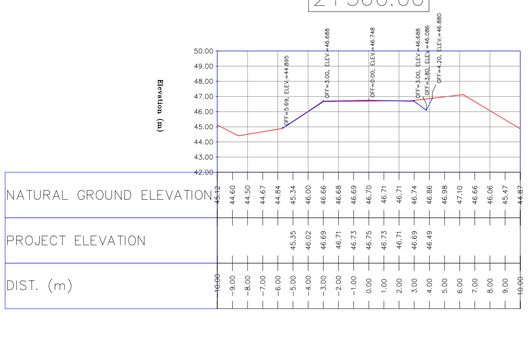
NATURAL GROUND ELEVATION	44.05	41.33	41.63	41.94	42.24	42.54	42.84	43.17	43.55	43.92	44.29	44.67	45.04	45.22	45.41	45.54	45.66	45.92	45.13	44.32
PROJECT ELEVATION		41.93	42.60	43.27	43.93	44.60	45.27	45.29	45.31	45.33	45.31	45.29	45.27							
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+550.00



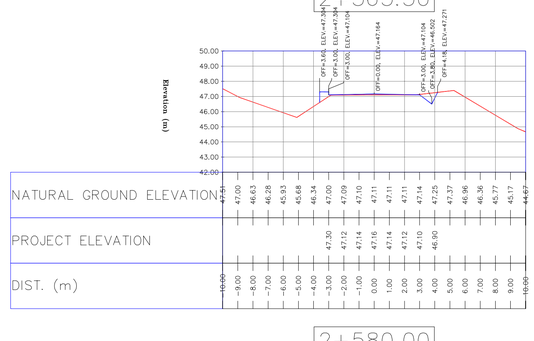
NATURAL GROUND ELEVATION	42.64	42.98	43.35	43.72	44.10	44.47	44.84	45.22	45.59	45.93	45.94	45.95	45.96	46.00	46.21	46.41	46.60	46.71	46.13	45.45	44.77
PROJECT ELEVATION						44.60	45.27	45.34	45.96	45.98	46.00	45.98	45.96	45.94	45.73						
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+560.00



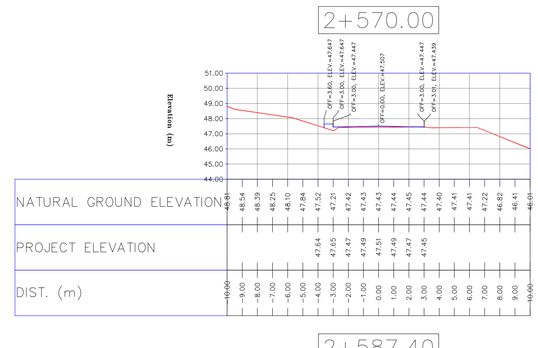
NATURAL GROUND ELEVATION	45.12	44.60	44.50	44.67	44.84	45.34	46.00	46.66	46.68	46.69	46.70	46.71	46.71	46.74	46.86	46.98	47.10	46.66	46.06	45.47	44.87
PROJECT ELEVATION						45.35	46.02	46.69	46.71	46.73	46.75	46.73	46.71	46.69	46.49						
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+565.50



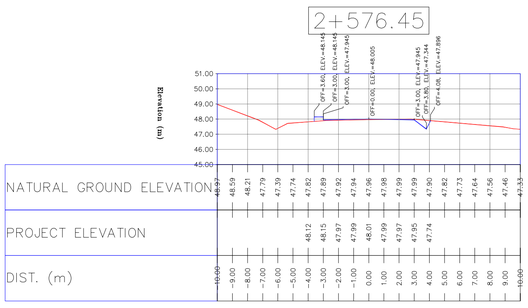
NATURAL GROUND ELEVATION	47.51	47.00	46.63	46.28	45.93	45.68	46.34	47.00	47.09	47.10	47.11	47.11	47.11	47.14	47.25	47.37	46.96	46.36	45.77	45.17	44.67
PROJECT ELEVATION								47.20	47.12	47.14	47.16	47.14	47.12	47.10	46.90						
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+570.00



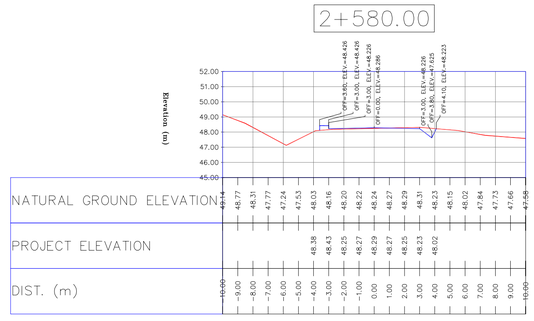
NATURAL GROUND ELEVATION	48.81	48.54	48.39	48.25	48.10	47.84	47.52	47.21	47.42	47.43	47.43	47.44	47.44	47.44	47.40	47.41	47.22	46.82	46.41	46.01
PROJECT ELEVATION						47.84	47.65	47.47	47.49	47.51	47.49	47.47	47.47	47.45	47.45					
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+576.45



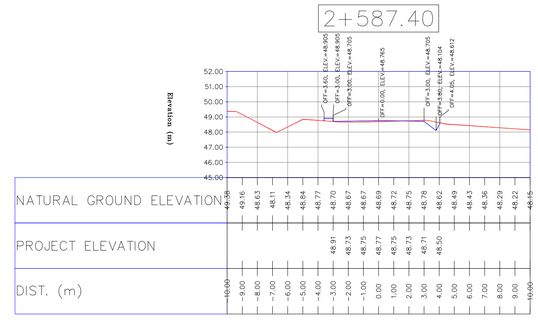
NATURAL GROUND ELEVATION	48.97	48.59	48.21	47.79	47.39	47.74	47.82	47.89	47.92	47.94	47.96	47.98	47.99	47.99	47.90	47.82	47.73	47.64	47.56	47.46	47.33
PROJECT ELEVATION						48.12	48.15	47.97	47.99	48.01	47.99	47.97	47.95	47.74							
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+580.00



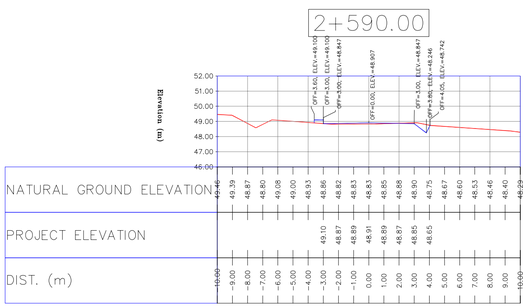
NATURAL GROUND ELEVATION	49.14	48.77	48.31	47.77	47.24	47.53	48.03	48.16	48.20	48.22	48.24	48.27	48.29	48.31	48.23	48.15	48.02	47.84	47.73	47.66	47.58
PROJECT ELEVATION						48.38	48.43	48.25	48.27	48.27	48.27	48.25	48.25	48.23	48.02						
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+587.40



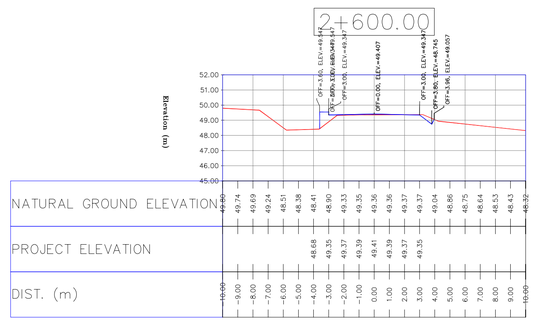
NATURAL GROUND ELEVATION	49.36	49.16	48.63	48.11	48.34	48.84	48.77	48.70	48.67	48.69	48.72	48.75	48.78	48.62	48.49	48.43	48.36	48.29	48.22	48.15
PROJECT ELEVATION						48.91	48.73	48.75	48.77	48.75	48.73	48.75	48.71	48.50						
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+590.00



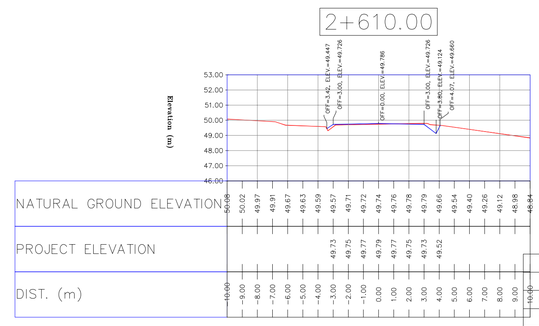
NATURAL GROUND ELEVATION	49.46	49.39	48.87	48.80	49.08	49.00	48.93	48.86	48.82	48.83	48.83	48.85	48.88	48.90	48.75	48.67	48.60	48.53	48.46	48.40	48.29
PROJECT ELEVATION							49.10	48.87	48.89	48.91	48.89	48.87	48.85	48.85							
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+600.00



NATURAL GROUND ELEVATION	49.82	49.74	49.69	49.24	48.51	48.38	48.41	48.90	49.33	49.35	49.36	49.36	49.37	49.37	49.04	48.86	48.75	48.64	48.53	48.43	48.32
PROJECT ELEVATION								48.68	48.90	49.37	49.39	49.41	49.39	49.37	49.35						
DIST. (m)	10.00	-9.00	-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	9.00	10.00

2+610.00



NATURAL GROUND ELEVATION	50.68	50.02	49.97	49.91	49.67	49.63	49.59	49.57	49.71	49.72	49.74	49.76	49.77	49.78	49.79	49.66	49.54	49.40	49.26	49.12	48.98
PROJECT ELEVATION								49.73	49.75	49.77	49.79	49.77	49.75	49.73	49.52						
DIST. (m)	10.00	-9.00	-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	9.00	10.00

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

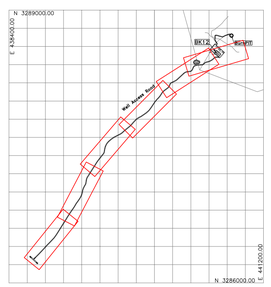
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER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

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK12	BK-BK12-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 – BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK12	BK-BK12-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	CHECKED BY	CHECKED DATE	REV. APPR. BY	REV. APPR. DATE
***	**********	**.**	***.****	**.**	***.****
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 BK12 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 – BK12 CROSS SECTIONS

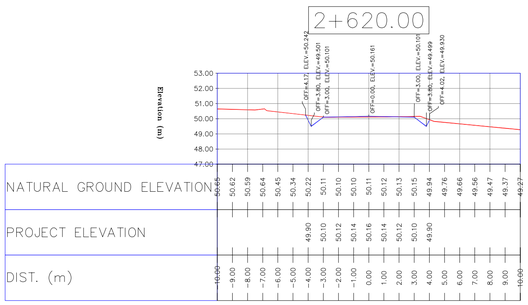
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK12-PEDCO-110-CV-DW-0001	46 OF 59	D00

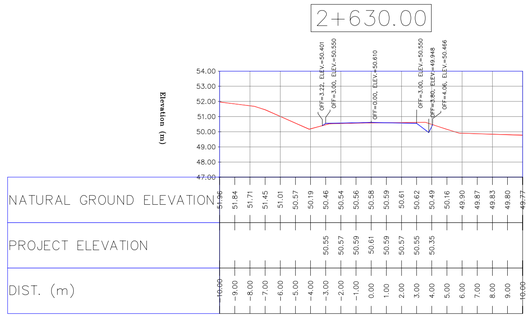
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

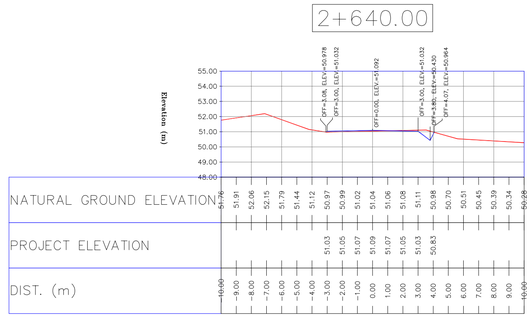
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

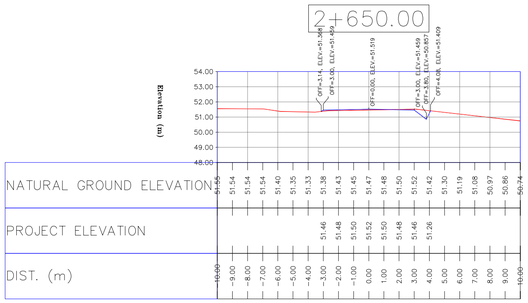
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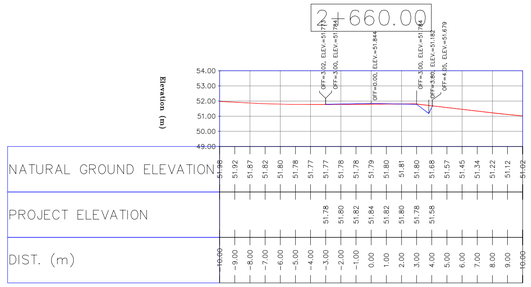
APPROVED FOR CONSTRUCTION				BY:	DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	A	708295	46	D00

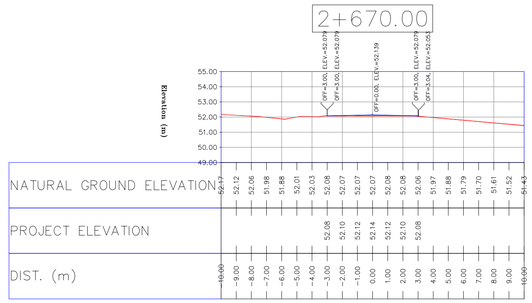


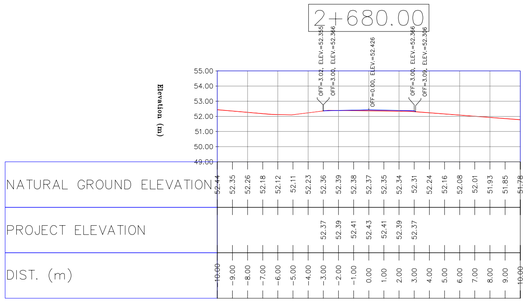


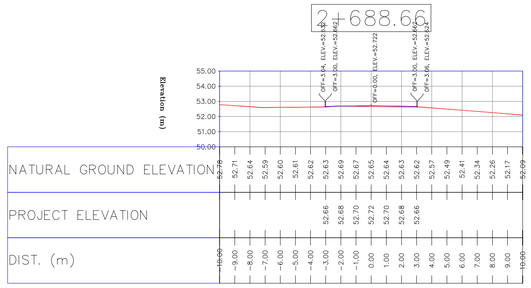


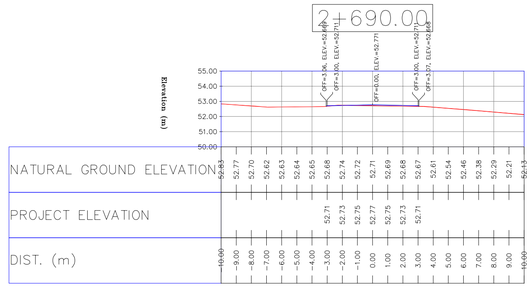


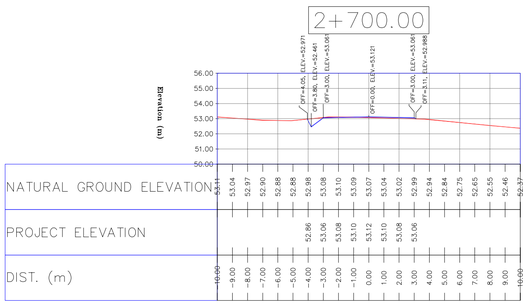


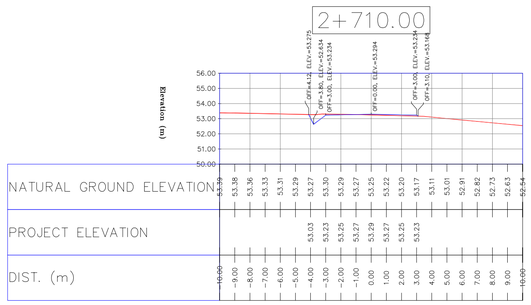


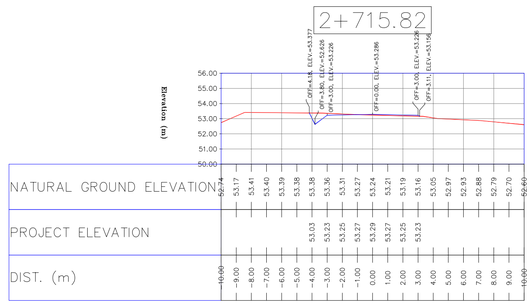












NOTES

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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

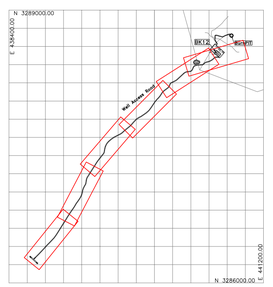
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER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

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK12	BK-BK12-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 - BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK12	BK-BK12-PEDCO-110-3U-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
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LVC= LENGTH OF VERTICAL CURVE
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BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

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.

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 BK12 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
BK12 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

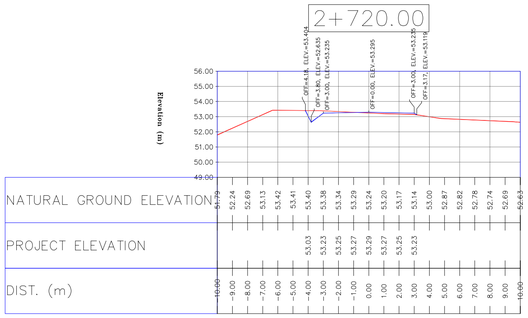
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK12
CROSS SECTIONS

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-BK12-PEDCO-110-CV-DW-0001	47 OF 59	D00

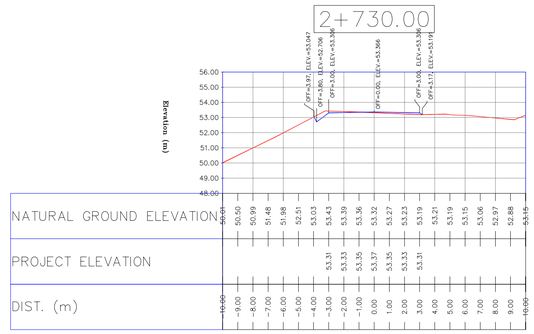
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2+720.00



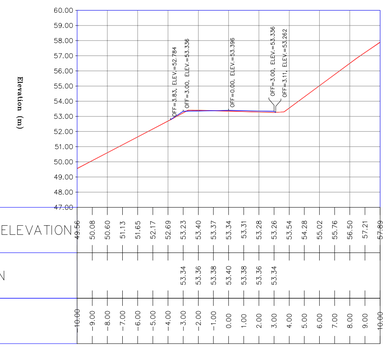
NATURAL GROUND ELEVATION	51.79	52.24	52.69	53.13	53.42	53.41	53.40	53.38	53.34	53.29	53.24	53.20	53.17	53.14	53.00	52.87	52.82	52.78	52.74	52.69	52.63				
PROJECT ELEVATION							53.03	53.23	53.25	53.27	53.29	53.27	53.25	53.23											
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

2+730.00



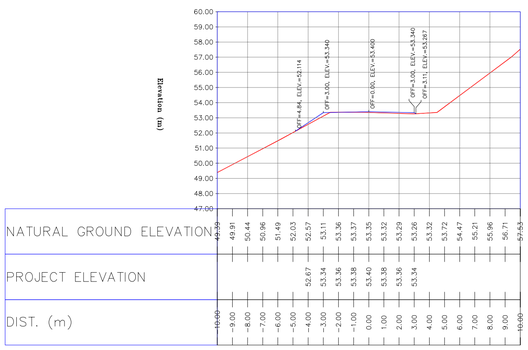
NATURAL GROUND ELEVATION	50.01	50.50	50.99	51.48	51.98	52.51	53.03	53.43	53.39	53.36	53.32	53.27	53.23	53.19	53.21	53.19	53.15	53.06	52.97	52.88	53.15				
PROJECT ELEVATION								53.31	53.33	53.35	53.37	53.35	53.33	53.31											
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

2+740.00



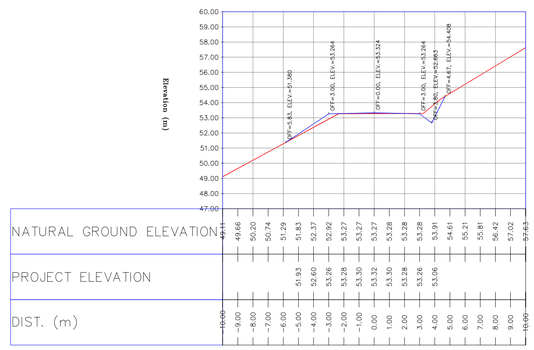
NATURAL GROUND ELEVATION	49.56	50.08	50.60	51.13	51.65	52.17	52.69	53.23	53.40	53.37	53.34	53.31	53.28	53.26	53.54	54.28	55.02	55.76	56.50	57.21	57.89				
PROJECT ELEVATION								53.34	53.36	53.38	53.40	53.38	53.36	53.34											
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

2+742.97



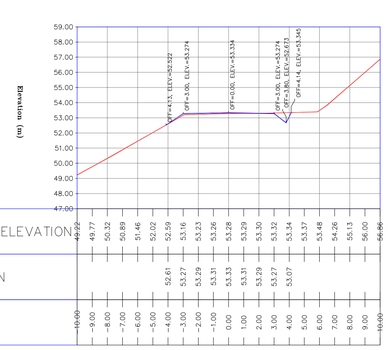
NATURAL GROUND ELEVATION	49.29	49.91	50.44	50.96	51.49	52.03	52.57	53.11	53.36	53.37	53.35	53.32	53.29	53.26	53.32	53.72	54.47	55.21	55.96	56.71	57.63				
PROJECT ELEVATION							52.67	53.34	53.36	53.38	53.40	53.38	53.36	53.34											
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

2+750.00



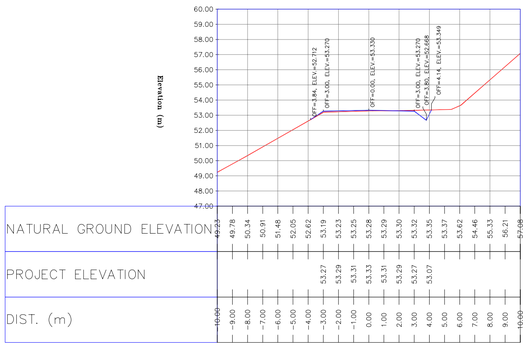
NATURAL GROUND ELEVATION	49.11	49.66	50.20	50.74	51.29	51.83	52.37	52.92	53.27	53.27	53.27	53.28	53.28	53.91	54.61	55.21	55.81	56.42	57.02	57.63					
PROJECT ELEVATION							51.93	52.60	53.26	53.28	53.30	53.32	53.30	53.28	53.26	53.06									
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

2+759.17



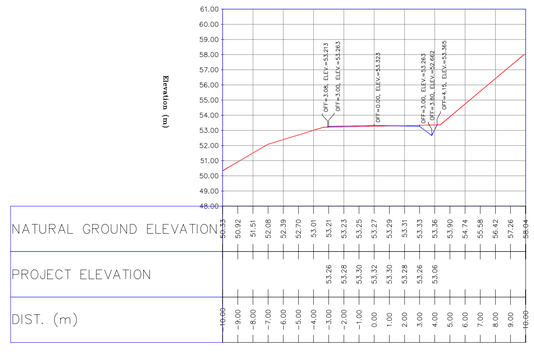
NATURAL GROUND ELEVATION	49.22	49.77	50.32	50.89	51.46	52.02	52.59	53.16	53.23	53.26	53.28	53.29	53.30	53.32	53.34	53.37	53.48	54.26	55.13	56.00	56.86				
PROJECT ELEVATION							52.61	53.27	53.29	53.31	53.33	53.31	53.29	53.27	53.07										
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

2+760.00



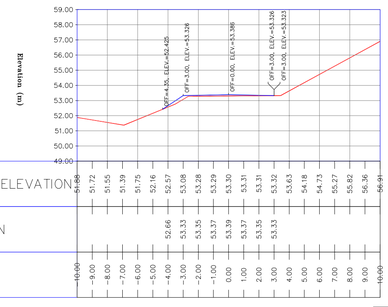
NATURAL GROUND ELEVATION	49.23	49.78	50.34	50.91	51.48	52.05	52.62	53.19	53.23	53.25	53.28	53.29	53.30	53.32	53.35	53.37	53.62	54.46	55.33	56.21	57.08				
PROJECT ELEVATION							53.27	53.29	53.31	53.33	53.31	53.29	53.27	53.07											
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

2+770.00



NATURAL GROUND ELEVATION	50.35	50.92	51.51	52.08	52.39	52.70	53.01	53.21	53.23	53.25	53.27	53.29	53.31	53.33	53.36	53.90	54.74	55.58	56.42	57.26	58.04				
PROJECT ELEVATION								53.26	53.28	53.30	53.32	53.30	53.28	53.26	53.06										
DIST. (m)	10+00	-9.00	-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	9.00	10.00				

2+779.40



NATURAL GROUND ELEVATION	51.88	51.72	51.55	51.39	51.75	52.16	52.57	53.08	53.28	53.29	53.30	53.31	53.32	53.63	54.18	54.73	55.27	55.82	56.36	56.91					
PROJECT ELEVATION							52.66	53.33	53.35	53.37	53.39	53.37	53.35	53.33											
DIST. (m)	10+00	-9.00	-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	9.00	10.00				

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

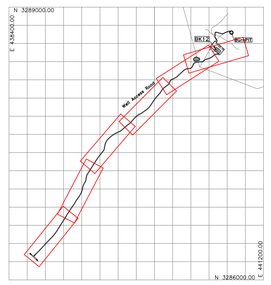
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N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

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK12	BK-BK12-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 – BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile–BK12	BK-BK12-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



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.

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 BK12 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
BK12 WHF MODIFICATIONS

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK12
CROSS SECTIONS

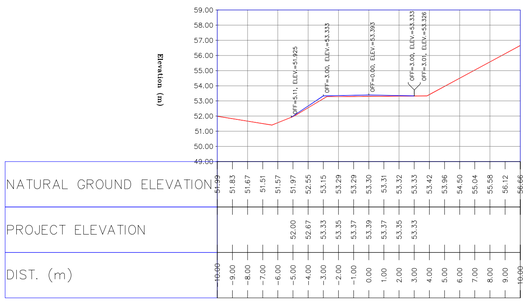
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

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

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK12-PEDCO-110-CV-DW-0001	48 OF 59	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	A	708295	48	D00

2+780.00



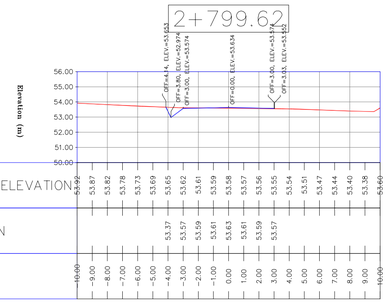
NATURAL GROUND ELEVATION	51.99	51.83	51.67	51.51	51.57	51.97	52.55	53.15	53.29	53.29	53.30	53.31	53.32	53.33	53.42	53.96	54.50	55.04	55.58	56.12	56.66
PROJECT ELEVATION						52.00	52.67	53.33	53.35	53.37	53.39	53.37	53.35	53.33							
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+790.00



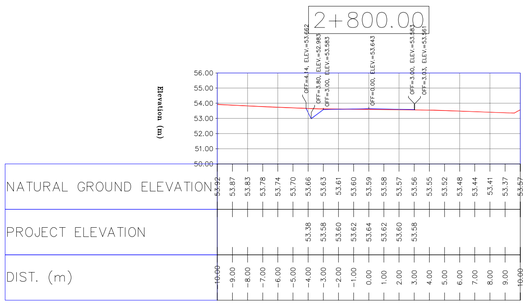
NATURAL GROUND ELEVATION	53.92	53.76	53.71	53.65	53.59	53.53	53.47	53.42	53.42	53.41	53.41	53.41	53.41	53.40	53.42	53.44	53.46	53.48	53.72	54.20	
PROJECT ELEVATION							53.45	53.47	53.49	53.51	53.49	53.47	53.45								
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+799.62



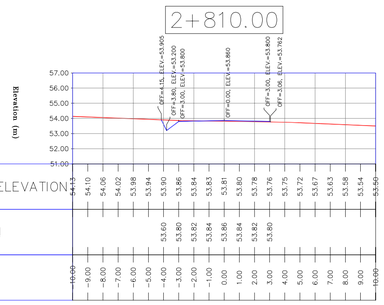
NATURAL GROUND ELEVATION	53.92	53.87	53.82	53.78	53.73	53.69	53.65	53.62	53.61	53.59	53.58	53.57	53.56	53.55	53.54	53.51	53.47	53.44	53.40	53.38	53.60
PROJECT ELEVATION						53.37	53.57	53.59	53.61	53.63	53.61	53.59	53.57								
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+800.00



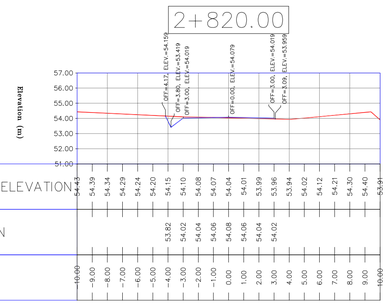
NATURAL GROUND ELEVATION	53.92	53.87	53.83	53.78	53.74	53.70	53.66	53.63	53.61	53.60	53.59	53.58	53.57	53.56	53.55	53.52	53.48	53.44	53.41	53.37	53.67
PROJECT ELEVATION							53.38	53.58	53.60	53.62	53.64	53.62	53.60	53.58							
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+810.00



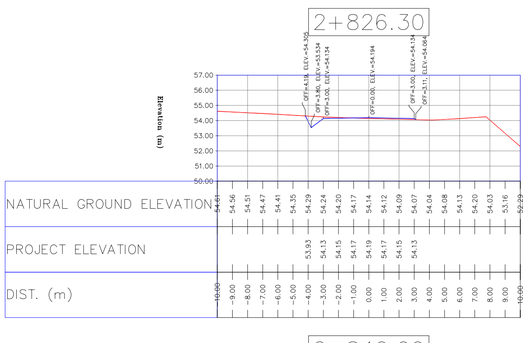
NATURAL GROUND ELEVATION	54.13	54.10	54.06	54.02	53.98	53.94	53.90	53.86	53.84	53.83	53.80	53.78	53.76	53.75	53.72	53.67	53.63	53.58	53.54	53.50	
PROJECT ELEVATION							53.60	53.80	53.82	53.84	53.86	53.84	53.82	53.80							
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+820.00



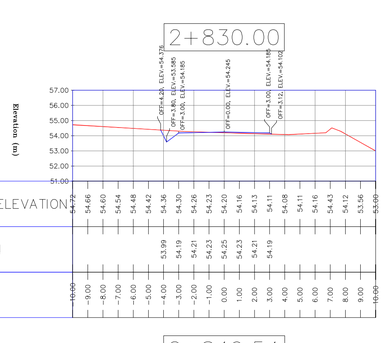
NATURAL GROUND ELEVATION	54.45	54.39	54.34	54.29	54.24	54.20	54.15	54.10	54.07	54.04	54.01	53.99	53.96	53.94	54.02	54.12	54.21	54.30	54.40	54.51	
PROJECT ELEVATION							53.82	54.02	54.04	54.06	54.06	54.04	54.02								
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+826.30



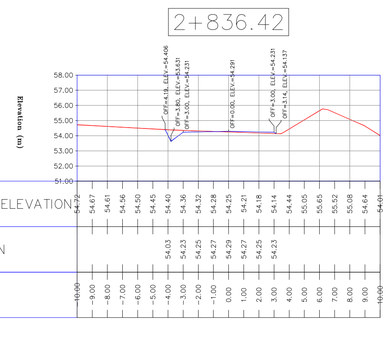
NATURAL GROUND ELEVATION	54.61	54.56	54.51	54.47	54.41	54.35	54.29	54.24	54.20	54.17	54.14	54.12	54.09	54.07	54.04	54.08	54.13	54.20	54.03	53.16	52.29
PROJECT ELEVATION						53.93	54.13	54.15	54.17	54.19	54.17	54.15	54.13								
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+830.00



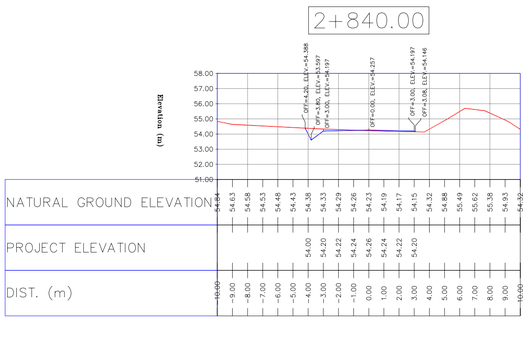
NATURAL GROUND ELEVATION	54.72	54.66	54.60	54.54	54.48	54.42	54.36	54.30	54.26	54.23	54.20	54.16	54.13	54.11	54.08	54.11	54.16	54.43	54.72	53.56	53.00
PROJECT ELEVATION							53.99	54.19	54.21	54.23	54.25	54.23	54.21	54.19							
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+836.42



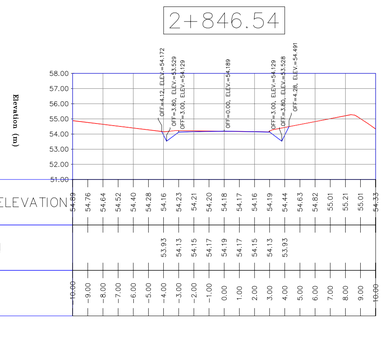
NATURAL GROUND ELEVATION	54.72	54.67	54.61	54.56	54.50	54.45	54.40	54.36	54.32	54.28	54.25	54.21	54.18	54.14	54.44	55.05	55.65	55.52	55.08	54.64	54.01
PROJECT ELEVATION						54.03	54.23	54.25	54.27	54.29	54.27	54.25	54.23								
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+840.00



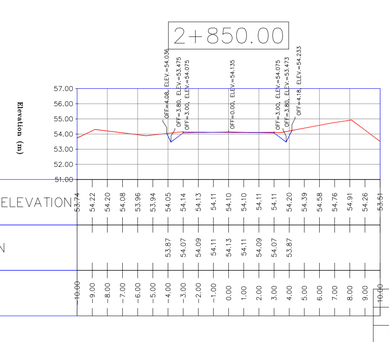
NATURAL GROUND ELEVATION	54.84	54.63	54.58	54.53	54.48	54.43	54.38	54.33	54.29	54.26	54.23	54.19	54.17	54.15	54.32	54.88	55.49	55.62	55.38	54.93	54.32
PROJECT ELEVATION							54.00	54.20	54.22	54.24	54.26	54.24	54.22	54.20							
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

2+846.54



NATURAL GROUND ELEVATION	54.89	54.76	54.64	54.52	54.40	54.28	54.16	54.23	54.21	54.20	54.18	54.17	54.16	54.19	54.44	54.63	54.82	55.01	55.21	55.01	54.33
PROJECT ELEVATION							53.93	54.13	54.15	54.17	54.19	54.17	54.15	54.13	53.93						
DIST. (m)	10.00	-9.00	-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	9.00	10.00

2+850.00



NATURAL GROUND ELEVATION	55.74	54.22	54.20	54.08	53.96	53.94	54.05	54.14	54.11	54.10	54.10	54.11	54.09	54.07	54.20	54.58	54.76	54.91	54.26	55.61	
PROJECT ELEVATION							53.87	54.07	54.09	54.11	54.13	54.11	54.09	53.87							
DIST. (m)	10.00	-9.00	-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	9.00	10.00

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

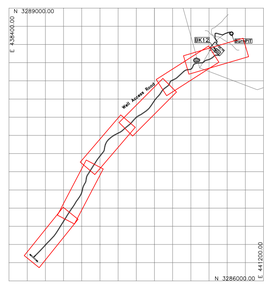
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER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

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK12	BK-BK12-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
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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 BK12 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 - BK12 CROSS SECTIONS

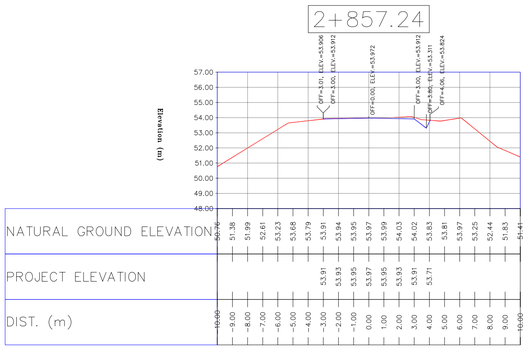
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

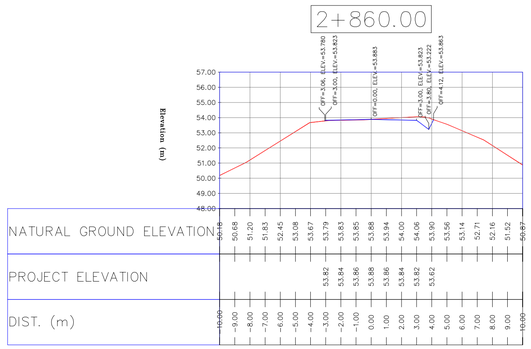
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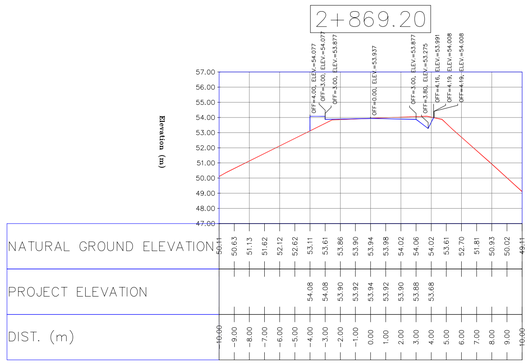
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APPROVED FOR CONSTRUCTION | BY: | DATE:

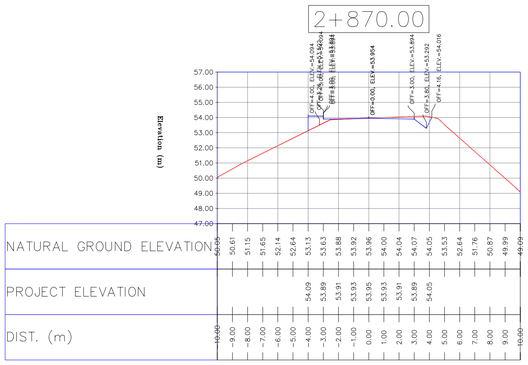
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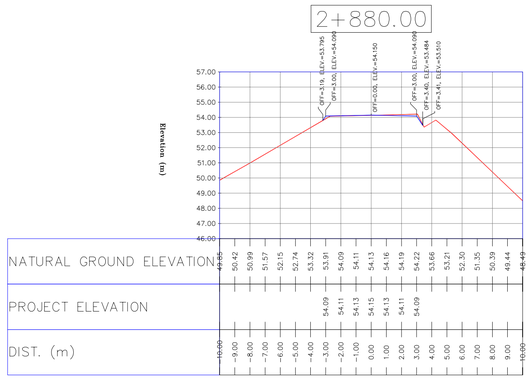
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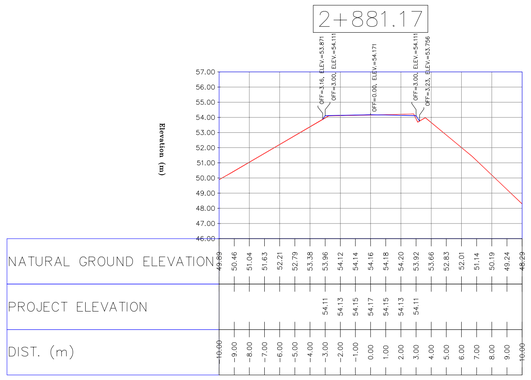


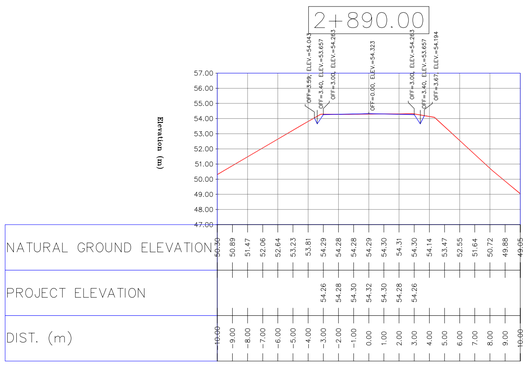


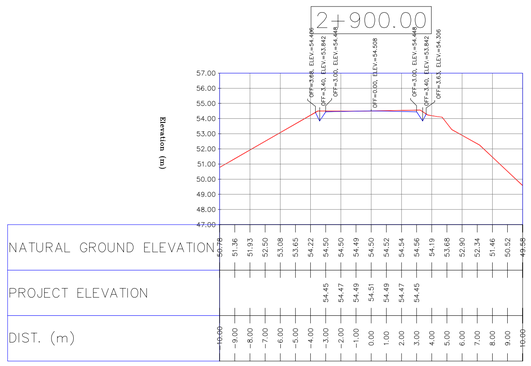


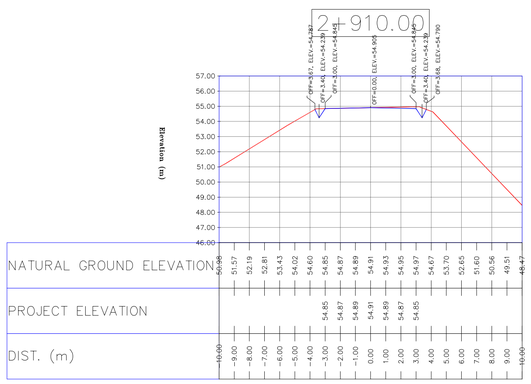


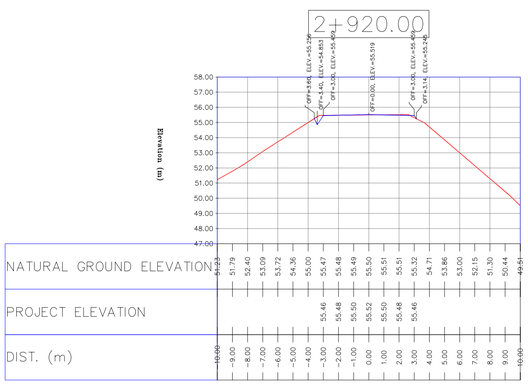


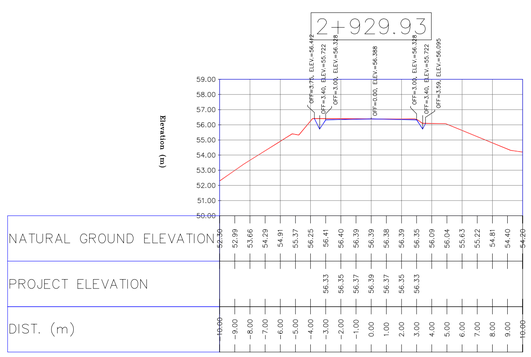


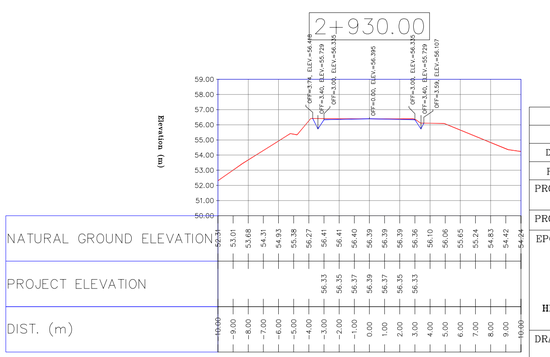












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MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

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- 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

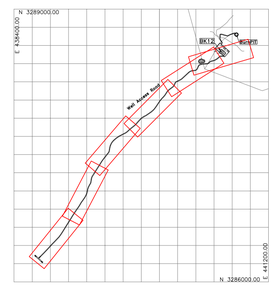
⊙	WELL LOCATION		OIL LINE
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99.27	TOPOGRAPHY POINTS		CHANNEL
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	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		NATURAL GROUND
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REFERENCE DRAWING	DRG. No.
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Rough Grading Plan-BK12	BK-BK12-PEDCO-110-CV-PY-0003
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KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
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D00	JUN.2023	IFC	R.BERLOUEI	M.PAKHARIAN	A.M.MOHSENI	**.**
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PROJECT NO.: 971020

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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK12 CROSS SECTIONS

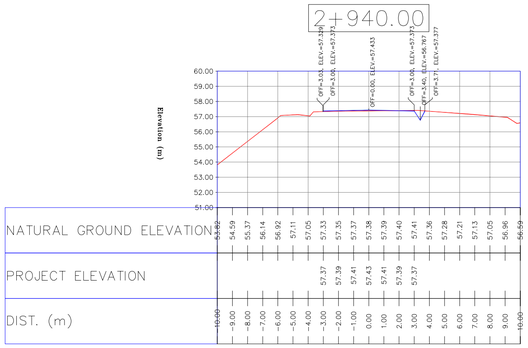
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

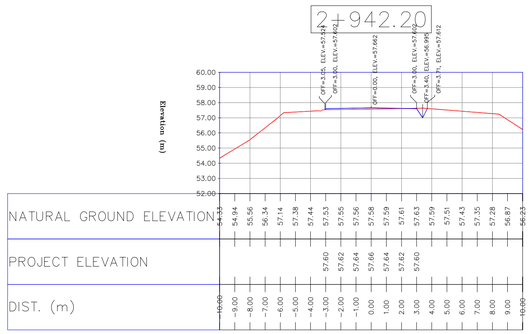
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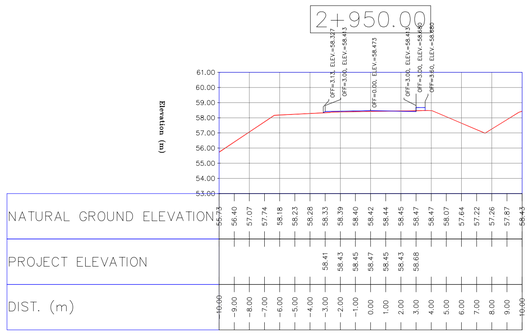
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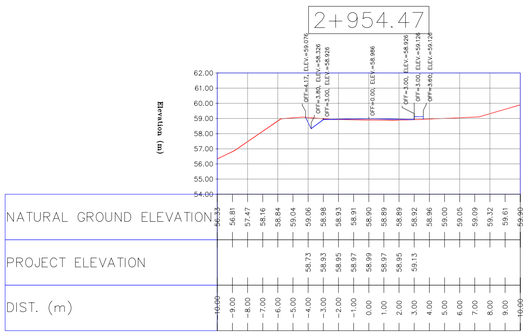
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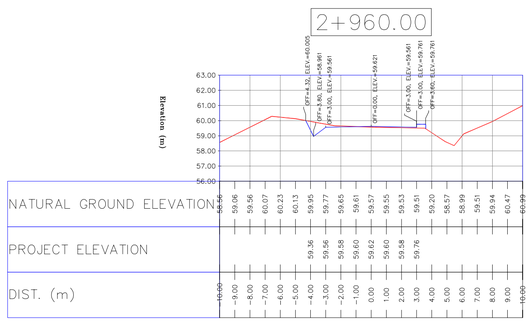
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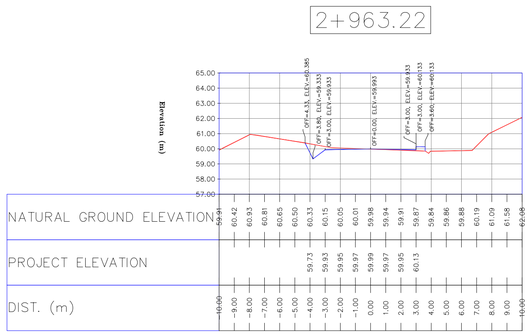


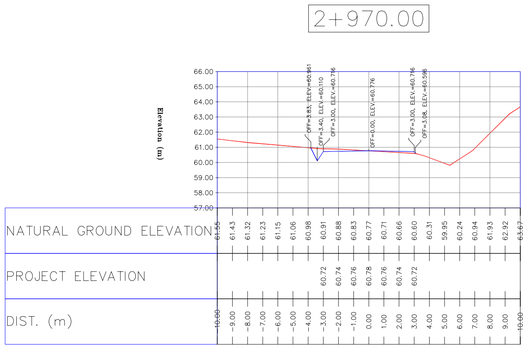


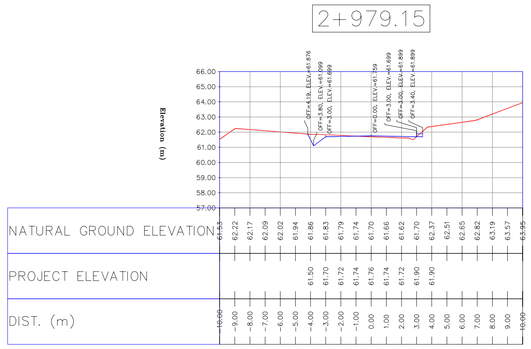


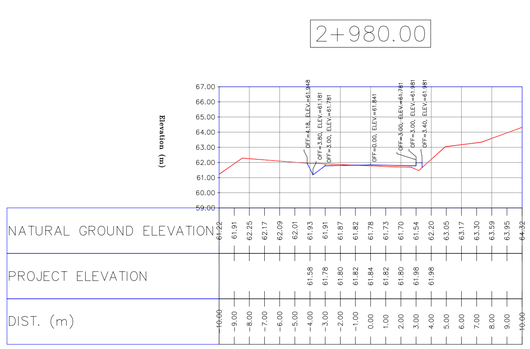


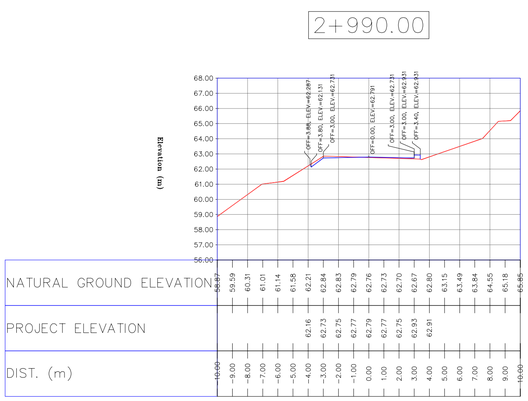


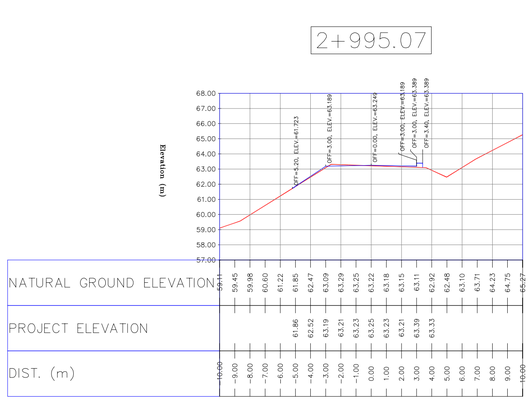


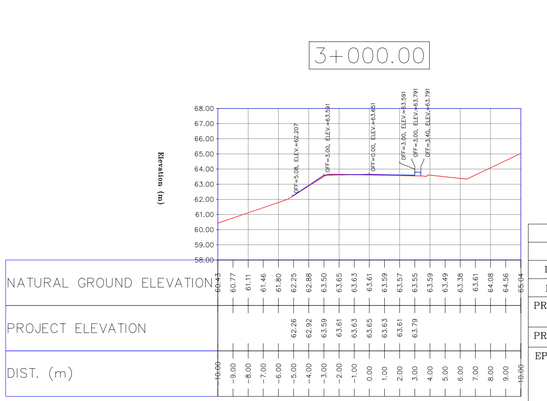












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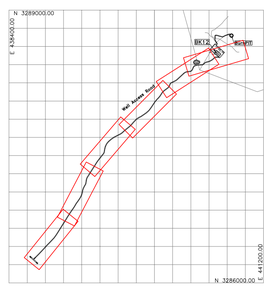
⊙	WELL LOCATION		OIL LINE
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			CHECKED		REV. APPR.	
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D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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PROJECT NO.: 971020

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK12 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK–BK12–PEDCO–110–CV–DW–0001	51 OF 59	D00

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BINAK OILFIELD DEVELOPMENT
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BK12 WHF MODIFICATIONS

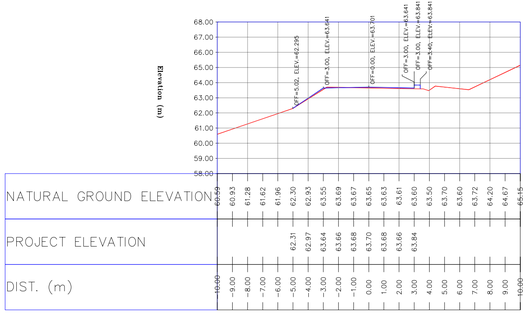
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

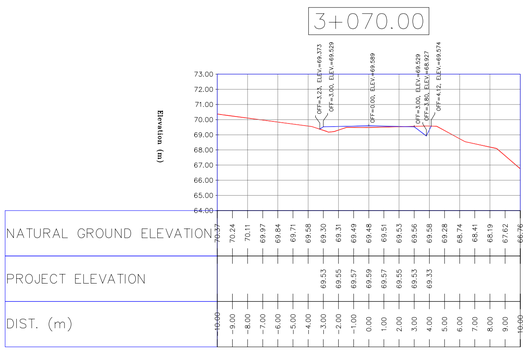
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
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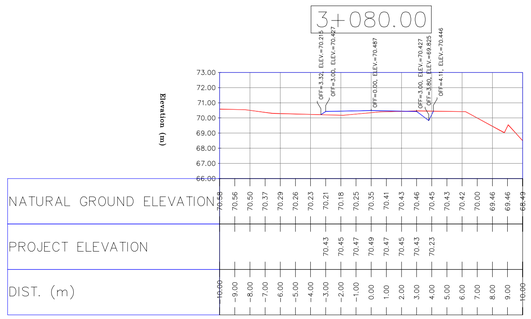

Elevation (m)
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OFF=3.00, ELEV=63.561
OFF=0.00, ELEV=63.701
OFF=3.00, ELEV=63.641
OFF=5.40, ELEV=63.841

| | | |

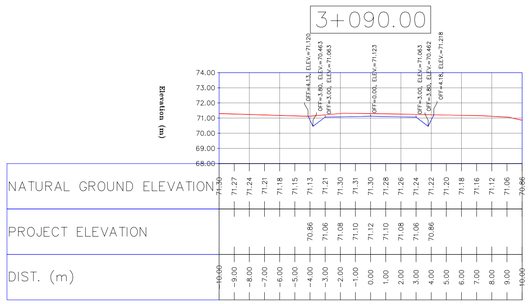
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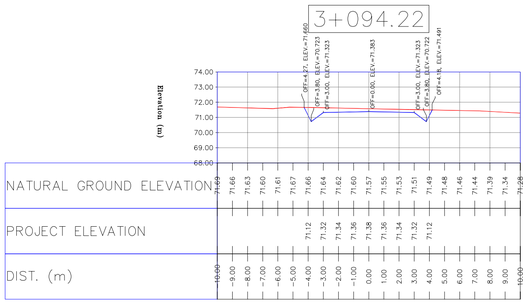
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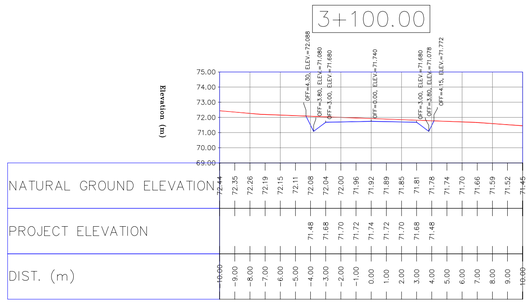
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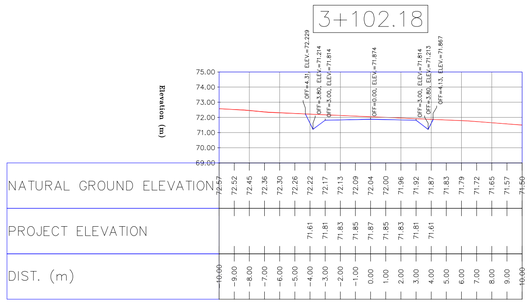
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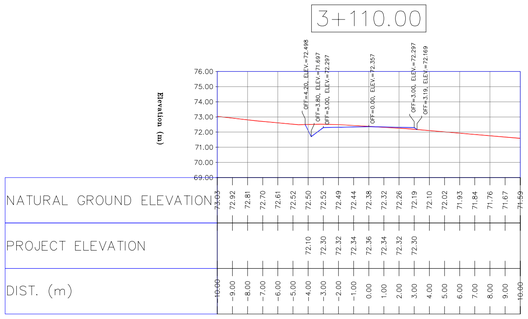
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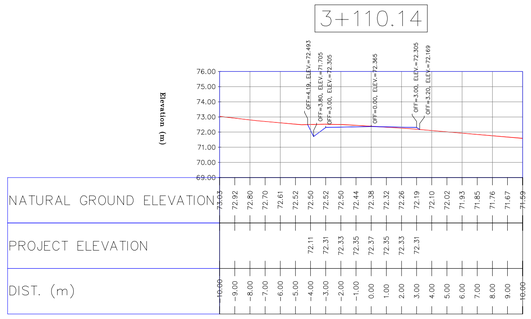
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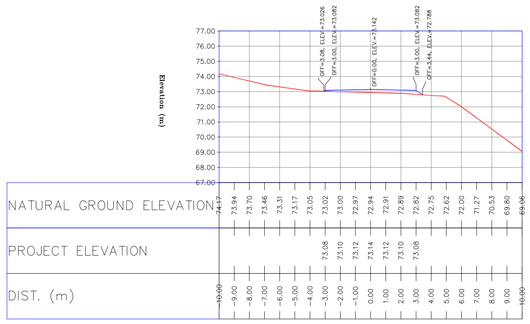
3+110.00



3+110.14



3+120.00



NOTES

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

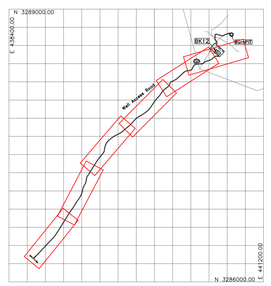
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER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

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK12	BK-BK12-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 – BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK12	BK-BK12-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
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KEY PLAN



REV.	DESCRIPTION	CHECKED BY		REV. APPR. BY	
***	**********	**.**	***.****	**.**	***.****
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 BK12 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
BK12 WHF MODIFICATIONS

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK12 CROSS SECTIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

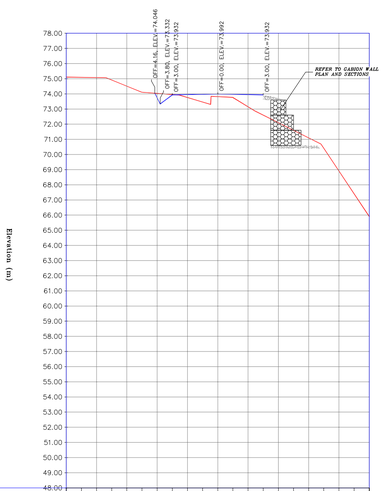
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK12-PEDCO-110-CV-DW-0001	53 OF 59	D00

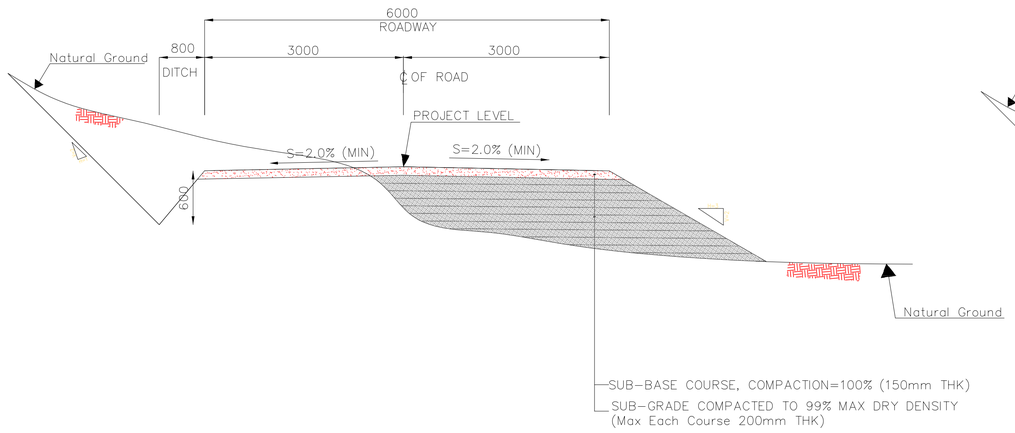
APPROVED FOR CONSTRUCTION	BY:	DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	A	708295	53	D00

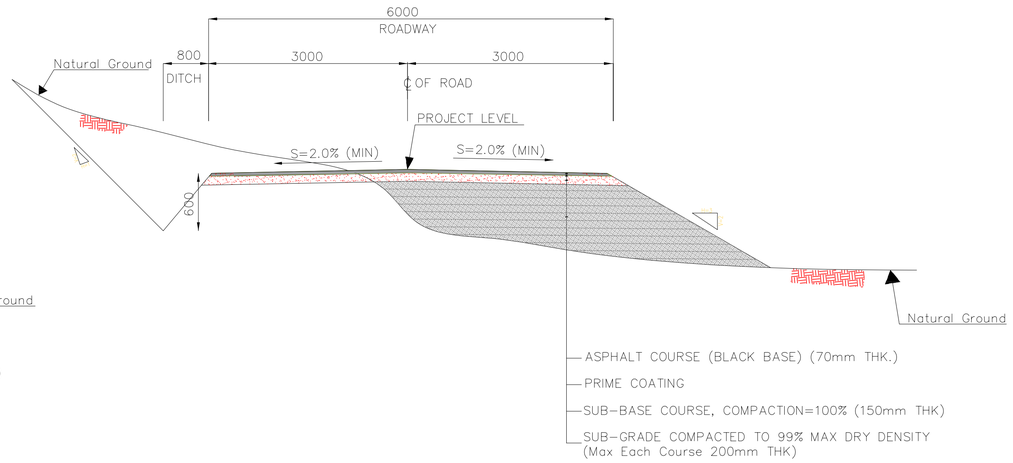
3+130.00


OFF=4.56, ELEV=74.046
OFF=3.50, ELEV=73.332
OFF=3.50, ELEV=73.832
OFF=0.00, ELEV=73.992
OFF=3.50, ELEV=73.832
REFER TO GABION WALL PLAN AND SECTIONS
Elevation (m)

| | | |



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)

TABLE 1-ASPHALT AREA SPECIFICATION

NAME	KM START	KM END	LENGTH(m)	DESCRIPTION
AREA1	0+000.00	2+643.00	2643	TYPICAL SECTION #1
AREA2	2+643.00	3+143.00	500	TYPICAL SECTION #2

TABLE 2-GABION WALL AREA SPECIFICATION

NAME	COORDINATE START	COORDINATE START
AREA1	E=440712 N=3288484	E=440676 N=3288481

TABLE 3-LIST OF NEW CULVERT

NUMBER	COORDINATE	TYPE OF CULVERT
1	E=440250.00 N=3288249.00	CONCRETE PIPE CULVERT (DIAMETER 80 cm)
2	E=439254.96 Y=3287149.09	CONCRETE PIPE CULVERT (DIAMETER 80 cm)

TABLE 3-RETAINING WALL AREA

NAME	START	END	WIDTH(Cm)	ELEVATION
1	E=440636 N=3288462	E=440619 N=3288457	60	100 Cm
2	E=440582 N=3288431	E=440553 N=3288418	40	80 Cm
3	E=440540 N=3288405	E=440553 N=3288418	60	120 Cm
4	E=440521 N=3288410	LENGTH=10m	60	EXISTING ELEV.
5	E=440497 N=3288401			
6	E=440488 N=3288399			
7	E=440474 N=3288398			
8	E=4400454 N=3288393		100	200 Cm
9	E=440250 N=3288249	E=440226 N=3288228	60	100 Cm
10	E=440180 N=3288200	E=440178 N=3288198		

Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
S16	440126.1577	3288153.1997	54.2227
S17	439632.0490	3287658.4506	22.1753
S19	439239.0298	3287122.7447	30.3636
S21	438672.5161	3286257.4245	7.7715
GPS2	440638.0716	3288706.8218	82.8250
GPS1	440614.7992	3288667.5129	82.2933
BM40	440592.8969	3288516.5660	73.5772
BM39	440730.415	3288611.980	84.468

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LEGEND

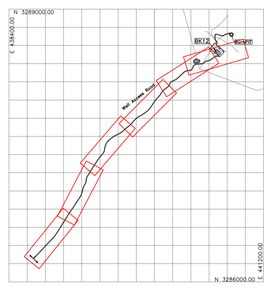
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	PROPOSED ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED GRAVEL ROAD		SITE (WELL)
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N N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
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KEY 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 BK12 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 - BK12 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK12-PEDCO-110-CV-DW-0001	55 OF 59	D00

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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK12 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	A	708295	55	D00

EARTH WORK MATERIAL TAKE OFF-ACCESS ROAD BK12

Total Volume Table

Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+000.00	0.20	1.41	0.00	0.00	0.00	0.00
0+010.00	0.16	0.34	1.80	8.74	1.80	8.74
0+020.00	0.25	0.34	2.05	3.40	3.86	12.15
0+030.00	0.24	0.48	2.45	4.09	6.31	16.24
0+040.00	0.21	0.59	2.24	5.33	8.55	21.57
0+050.00	0.24	0.73	2.27	6.60	10.82	28.17
0+060.00	0.16	0.00	2.03	3.65	12.85	31.83
0+062.14	0.18	0.00	0.36	0.00	13.21	31.83
0+070.00	0.32	0.00	1.96	0.00	15.17	31.83
0+071.50	0.37	0.00	0.52	0.00	15.69	31.83
0+080.00	0.41	0.00	3.28	0.00	18.97	31.83
0+080.87	0.40	0.00	0.35	0.00	19.32	31.83
0+090.00	0.27	0.00	3.03	0.00	22.35	31.83
0+100.00	0.36	0.00	3.15	0.00	25.51	31.83
0+110.00	0.35	0.38	3.55	1.88	29.05	33.72
0+117.68	0.32	0.34	2.56	2.74	31.61	36.46
0+119.89	0.32	0.36	0.71	0.78	32.32	37.24
0+120.00	0.32	0.36	0.03	0.04	32.35	37.28
0+122.11	0.31	0.39	0.66	0.79	33.01	38.07
0+130.00	0.10	0.37	1.64	2.98	34.66	41.05
0+140.00	0.19	0.04	1.45	2.04	36.11	43.09
0+149.59	0.23	0.07	2.02	0.55	38.13	43.64
0+150.00	0.23	0.08	0.10	0.03	38.23	43.67
0+152.48	0.23	0.09	0.57	0.20	38.80	43.87
0+155.37	0.20	0.37	0.61	0.66	39.41	44.52
0+160.00	0.16	0.41	0.83	1.80	40.24	46.32
0+170.00	0.28	0.39	2.22	3.98	42.46	50.30
0+180.00	0.57	0.60	4.25	4.95	46.72	55.24
0+190.00	0.52	0.39	5.43	4.95	52.14	60.19
0+200.00	0.46	0.05	4.89	2.18	57.03	62.37
0+210.00	0.27	0.00	3.67	0.25	60.70	62.62
0+217.39	0.18	0.00	1.67	0.02	62.37	62.63
0+220.00	0.19	0.00	0.48	0.00	62.86	62.64
0+230.00	0.20	0.00	1.96	0.00	64.82	62.64
0+233.22	0.20	0.00	0.65	0.00	65.46	62.64
0+240.00	0.18	0.00	1.30	0.01	66.77	62.64
0+249.05	0.26	0.00	2.02	0.01	68.79	62.65
0+250.00	0.27	0.00	0.25	0.00	69.04	62.65
0+260.00	0.22	0.01	2.44	0.06	71.48	62.71
0+270.00	0.24	0.02	2.31	0.14	73.79	62.85
0+280.00	0.31	0.00	2.79	0.09	76.58	62.94
0+290.00	0.17	0.00	2.41	0.02	78.99	62.96
0+290.88	0.16	0.00	0.14	0.00	79.13	62.96
0+300.00	0.17	0.01	1.51	0.04	80.64	63.00
0+310.00	0.27	0.25	2.17	1.33	82.81	64.33
0+320.00	0.20	0.38	2.34	3.21	85.15	67.54
0+324.09	0.23	0.40	0.90	1.59	86.04	69.13
0+330.00	0.22	0.32	1.30	2.11	87.40	71.24
0+340.00	0.20	0.02	2.11	1.69	89.51	72.93
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0+360.00	0.15	0.26	0.42	0.37	93.13	73.58
0+370.00	0.17	0.00	1.59	1.30	94.71	74.88
0+380.00	0.21	0.01	1.87	0.06	96.58	74.94
0+381.84	0.22	0.01	0.40	0.02	96.98	74.96
0+389.31	0.31	0.27	1.98	1.08	98.96	76.04
0+390.00	0.32	0.28	0.22	0.19	99.18	76.23
0+396.10	0.25	0.27	1.67	1.89	100.12	78.12
0+400.00	0.22	0.26	0.75	0.86	101.87	78.99
0+410.00	0.17	0.03	1.94	1.47	103.81	80.45
0+420.00	0.14	0.02	1.54	0.24	105.35	80.69
0+430.00	0.14	0.00	1.40	0.09	106.75	80.79
0+440.00	0.21	0.29	1.75	1.47	108.50	82.25
0+450.00	0.21	0.30	2.06	2.95	110.57	85.20
0+460.00	0.36	0.00	2.82	1.48	113.38	86.68
0+470.00	0.25	0.00	3.05	0.00	116.43	86.68
0+480.00	0.15	0.35	2.02	1.76	118.44	88.44
0+483.50	0.14	0.19	0.50	1.64	118.95	90.08
0+486.85	0.14	0.64	0.47	2.06	119.42	92.14
0+490.00	0.14	0.65	0.45	2.03	119.87	94.17
0+490.19	0.14	0.64	0.03	0.12	119.90	94.29
0+500.00	0.17	0.58	1.54	5.97	121.43	100.27
0+510.00	0.31	0.00	2.38	2.90	123.81	103.16
0+520.00	0.23	0.27	2.66	1.37	126.47	104.53
0+530.00	0.29	0.27	2.60	2.74	129.07	107.27
0+540.00	0.21	0.22	2.50	2.47	131.58	109.74
0+547.26	0.12	0.01	1.20	0.83	132.78	110.57
0+550.00	0.11	0.01	0.32	0.02	133.10	110.59
0+555.90	0.09	0.25	0.59	0.78	133.70	111.37
0+560.00	0.08	0.30	0.34	1.13	134.04	112.50
0+564.55	0.10	0.01	0.41	0.70	134.45	113.21
0+570.00	0.49	0.00	1.62	0.03	136.07	113.24
0+580.00	2.09	0.00	12.91	0.00	148.98	113.24
0+584.00	1.52	0.00	7.23	0.00	156.21	113.24
0+590.00	0.41	0.00	5.80	0.00	162.01	113.24
0+590.70	0.33	0.00	0.26	0.00	162.26	113.24
0+597.40	0.06	0.38	1.32	1.28	163.58	114.52
0+600.00	0.06	0.32	0.16	0.92	163.74	115.44
0+610.00	0.07	0.66	0.64	4.93	164.38	120.36
0+620.00	0.10	0.67	0.89	6.66	165.26	127.02
0+630.00	0.14	0.36	1.24	5.18	166.51	132.20
0+633.28	0.20	0.33	0.56	1.14	167.07	133.34
0+640.00	0.32	0.50	1.74	2.81	168.81	136.15
0+645.60	0.31	0.42	1.76	2.58	170.57	138.73
0+650.00	0.25	0.39	1.23	1.77	171.79	140.51
0+657.93	0.67	0.00	3.66	1.54	175.45	142.05
0+660.00	0.82	0.00	1.54	0.00	177.00	142.05
0+670.00	0.32	0.30	5.71	1.48	182.71	143.53
0+680.00	0.65	0.00	4.85	1.48	187.55	145.01
0+690.00	0.36	0.28	5.03	1.39	192.59	146.40

Total Volume Table

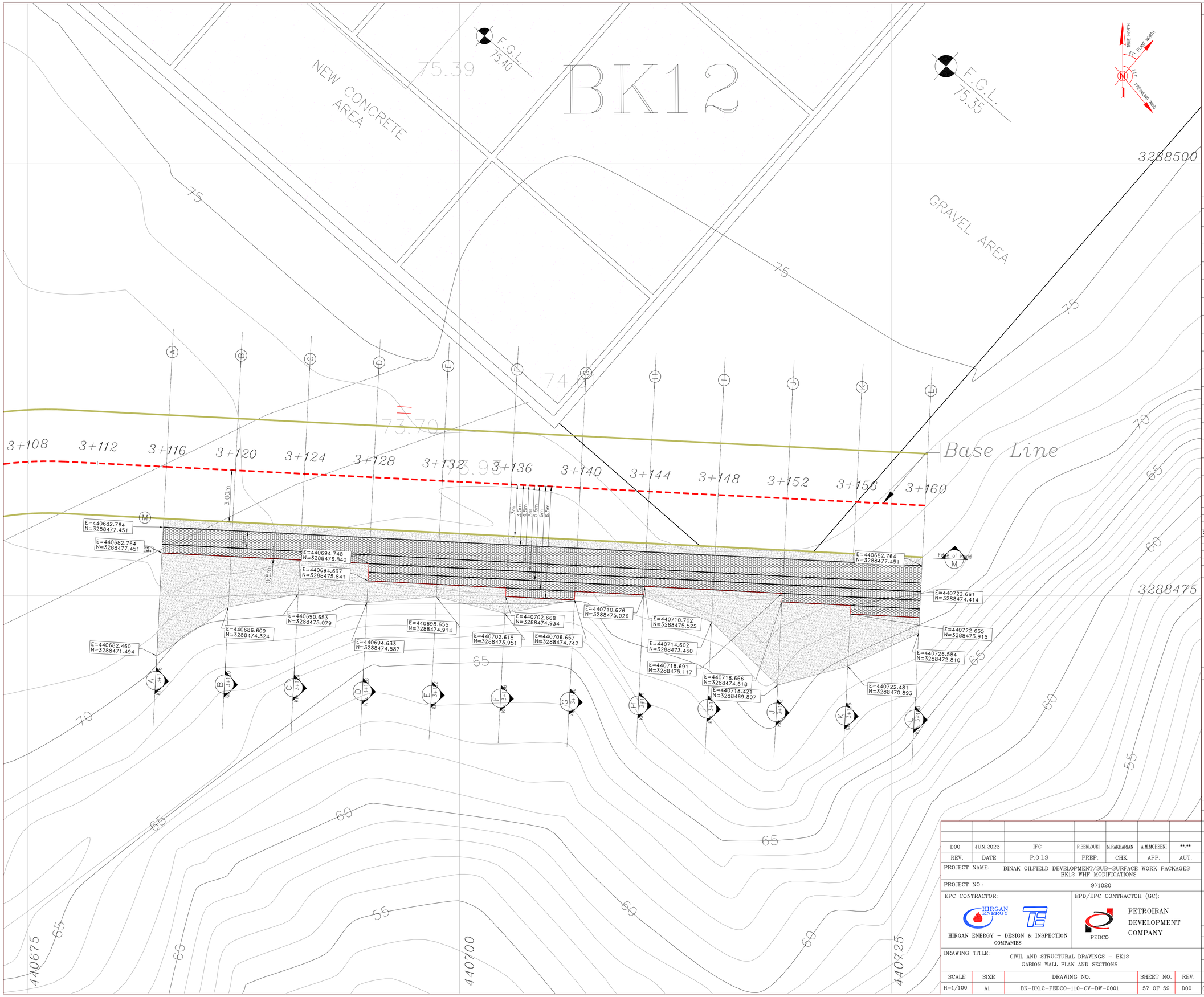
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+700.00	0.03	0.71	1.93	4.94	194.52	151.33
0+710.00	0.43	0.68	2.30	6.97	196.81	158.30
0+718.89	0.08	0.47	2.28	5.14	199.09	163.44
0+720.00	0.08	0.44	0.09	0.51	199.18	163.95
0+729.30	0.07	0.45	0.70	4.21	199.88	168.15
0+730.00	0.06	0.48	0.04	0.33	199.92	168.48
0+739.71	0.16	0.90	1.04	6.78	200.96	175.26
0+740.00	0.15	0.90	0.05	0.26	201.00	175.52
0+750.00	0.15	0.75	1.54	8.24	202.55	183.77
0+760.00	0.18	0.77	1.69	7.63	204.24	191.40
0+764.22	0.21	0.74	0.83	3.20	205.07	194.60
0+770.00	0.16	0.55	1.06	3.65	206.12	198.25
0+772.84	0.10	0.91	0.36	2.07	206.49	200.32
0+780.00	0.13	0.75	0.81	5.91	207.29	206.23
0+781.46	0.15	0.67	0.20	1.03	207.49	207.27
0+790.00	0.26	0.26	1.73	3.97	209.22	211.24
0+800.00	0.25	0.00	2.57	1.32	211.79	212.56
0+805.73	0.18	0.24	1.26	0.69	213.05	213.25
0+810.00	0.12	0.62	0.66	1.85	213.71	215.10
0+820.00	0.36	0.34	2.45	4.79	216.15	219.89
0+830.00	0.17	0.41	2.68	3.73	218.83	223.62
0+840.00	0.00	1.01	0.86	7.09	219.69	230.71
0+845.84	0.00	1.66	0.00	7.81	219.69	238.52
0+850.00	0.00	1.57	0.00	6.74	219.69	245.26
0+859.07	0.07	0.10	0.33	7.60	220.02	252.86
0+860.00	0.10	0.08	0.08	0.09	220.09	252.95
0+870.00	0.26	0.41	1.76	2.53	221.86	255.47
0+872.30	0.36	0.00	0.70	0.48	222.56	255.96
0+880.00	0.18	0.01	2.07	0.02	224.63	255.98
0+886.26	0.51	0.57	2.17	1.81	226.80	257.79
0+890.00	0.56	0.00	2.01	1.09	228.81	258.88
0+900.00	0.17	0.31	3.68	1.58	232.50	260.46
0+902.12	0.12	0.32	0.31	0.67	232.81	261.13
0+910.00	0.11	0.57	0.92	3.51	233.73	264.64
0+917.98	0.03	0.84	0.57	5.61	234.30	270.25
0+920.00	0.04	0.94	0.07	1.80	234.37	272.05
0+930.00	0.18	0.55	1.13	7.44	235.50	279.49
0+940.00	0.29	0.35	2.35	4.47	237.85	283.97
0+941.10	0.28	0.00	0.31	0.19	238.17	284.16
0+947.71	0.17	0.26	1.50	0.89	239.66	285.05
0+950.00	0.12	0.26	0.33	0.62	239.99	285.67
0+954.32	0.14	0.05	0.55	0.70	240.55	286.38
0+960.00	0.23	0.02	1.09	0.39	241.64	286.77
0+963.21	0.39	0.00	0.96	0.04	242.50	286.81
0+970.00	0.96	0.00	4.62	0.01	247.12	286.82
0+974.16	0.49	0.00	3.04	0.00	250.16	286.82
0+980.00	0.15	0.33	1.86	0.99	252.02	287.81
0+985.12	0.20	0.34	0.88	1.77	252.91	289.58
0+990.00	0.24	0.34	1.06	1.66	253.97	291.04
1+000.00	0.30	0.00	2.69	1.70	256.66	292.74
1+003.28	0.23	0.41	0.87	0.68	257.52	293.42
1+010.00	0.26	0.58	1.62	3.50	259.15	296.92
1+017.35	0.24	0.41	1.83	3.81	260.94	300.73
1+020.00	0.21	0.45	0.58	1.20	261.52	301.92
1+030.00	0.21	0.35	2.04	4.18	263.56	306.11
1+031.42	0.20	0.38	0.29	0.55	263.85	306.66
1+040.00	0.20	0.72	1.75	4.74	265.59	311.39
1+050.00	0.20	3.76	2.04	22.38	267.63	333.78
1+060.00	0.32	1.69	2.64	27.22	270.27	361.00
1+060.79	0.36	1.65	0.27	1.31	270.54	362.31
1+070.00	0.67	0.00	4.73	7.80	275.27	370.11
1+077.60	0.47	0.42	4.30	1.66	279.57	371.77
1+080.00	0.48	0.46	1.10	1.06	280.59	372.87
1+090.00	0.31	0.95	3.41	7.40	284.01	380.27
1+094.40	0.06	1.06	0.80	4.65	284.81	384.92
1+100.00	0.15	0.95	0.61	5.64	285.42	390.56
1+110.00	0.31	0.34	2.32	6.45	287.75	397.00
1+119.88	0.38	0.40	3.39	3.63	291.14	400.63
1+120.00	0.38	0.40	0.05	0.05	291.19	400.68
1+130.00	0.33	0.06	3.52	2.33	294.71	403.01
1+138.08	1.69	0.00	8.17	0.26	302.88	403.27
1+140.00	2.26	0.00	3.79	0.00	306.66	403.27
1+150.00	4.54	0.00	34.07	0.00	340.74	403.27
1+156.28	4.55	0.00	28.55	0.00	369.28	403.27
1+160.00	2.87	0.00	13.78	0.00	383.06	403.27
1+160.93	2.44	0.00	2.47	0.00	385.54	403.27
1+170.00	0.28	0.04	12.31	0.19	397.85	403.46
1+180.00	0.10	0.64	1.92	3.39	399.76	406.84
1+187.70	0.17	0.48	1.07	4.26	400.83	411.10
1+190.00	0.18	0.46	0.41	1.07	401.24	412.18
1+200.00	0.22	0.48	2.01	4.66	403.25	416.84
1+210.00	0.48	0.49	3.48	4.81	406.73	421.65
1+214.47	0.49	0.60	2.16	2.43	408.90	424.07
1+220.00	0.33	0.78	2.26	3.82	411.16	427.89
1+220.58	0.35	0.79	0.20	0.45	411.35	428.34
1+227.03	0.35	0.63	2.25	4.68	413.60	433.02
1+230.00	0.34	0.53	1.01	1.76	414.61	434.78
1+233.48	0.31	0.46	1.12	1.76	415.74	436.54
1+240.00	0.34	0.34	2.12	2.62	417.86	439.16
1+250.00	0.33	0.03	2.83	1.86	420.69	441.02
1+260.00	0.26	0.90	2.47	4.63	423.15	445.65
1+270.00	0.33	1.35	2.96	11.24	426.11	456.89
1+280.00	0.39	0.87	3.61	11.11	429.73	468.00
1+287.91	0.32	0.85	2.83	6.80	432.56	474.80
1+290.00	0.30	0.87	0.65	1.79	433.21	476.59
1+300.00	0.29	0.83	2.93	8.59	436.14	485.18
1+309.32	0.45	0.67	3.45	7.08	439.59	492.25
1+310.00	0.47	0.63	0.31	0.44	439.90	492.69
1+320.00	0.16	0.70	3.13	6.72	443.04	499.41
1+330.00	0.19	0.43	1.76	5.63	444.79	505.04

Total Volume Table

Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
1+350.74	0.21	0.43	0.15	0.32	444.94	505.35
1+335.25	0.37	0.43	1.30	1.94	446.25	507.29
1+340.00	0.57	0.37	2.22	1.90	448.46	509.19
1+350.00	0.24	0.00	4.04	1.83	452.50	511.02
1+353.29	0.30	0.43	0.89	0.70	453.39	511.73
1+360.00	0.32	0.53	2.09	3.20	455.48	514.93
1+370.00	0.21	0.34	2.63	4.33	458.11	519.26
1+371.34	0.22	0.33	0.28	0.45	458.40	519.70
1+380.00	0.10	0.63	1.56	4.18	459.76	523.89
1+390.00	0.26	0.36	1.78	4.98	461.54	528.87
1+400.00	0.49	0.41	3.76	3.85	465.30	532.72
1+408.58	0.20	0.47	2.89	3.69	468.19	536.41
1+410.00	0.18	0.47	0.29	0.83	468.49	537.24
1+418.36	0.16	0.29	1.38	3.42	469.86	540.66
1+420.00	0.15	0.28	0.25	0.51	470.11	541.16
1+428.34	0.32	0.45	1.93	3.53	472.04	544.49
1+430.00	0.46	0.49	0.65	0.78	472.69	545.27
1+440.00	0.22	0.72	3.43	6.07	476.12	551.34
1+450.00	0.40	0.73	3.13	7.24	479.25	558.58
1+457.38	0.27	0.00	2.46	2.68	481.72	561.26
1+460.00	0.23	0.00	0.65	0.00	482.37	561.26
1+470.00	0.14	0.39	1.84	1.91	484.21	563.17
1+472.47	0.16	0.00	0.37	0.48	484.58	563.66
1+480.00	0.16	0.00	1.21	0.02	485.79	563.68
1+487.57	0.20	0.14	1.37	0.53	487.16	564.21
1+490.00	0.26	0.17	0.56	0.37	487.72	564.59
1+491.02	0.28	0.18	0.21	0.27	487.99	564.77
1+500.00	0.26	0.00	2.46	0.80	490.45	565.57
1+510.00	0.19	0.02	2.30	0.09	492.75	565.66
1+520.00	0.20	0.44	1.98	2.22	494.73	567.88
1+523.79	0.19	0.48	0.74	1.69	495.47	569.57
1+530.00	0.23	0.51	1.30	2.96	496.77	572.53
1+540.00	0.44	0.44	3.37	4.61	500.15	577.14
1+550.00	0.42	0.42	4.37	4.18	504.52	581.32
1+556.56	0.27	0.56	2.29	3.13	506.81	584.45
1+560.00	0.28	0.70	0.93	2.17	507.75	586.62
1+570.00	0.25	0.58	2.66	6.39	510.41	593.01
1+580.00	0.30	0.04	2.75	3.11	513.16	596.12
1+590.00	0.34	0.03	3.18	0.37	516.34	596.50
1+595.76	0.62	0.02	2.77	0.16	519.11	596.66
1+600.00	0.38	0.04	2.17	0.13	521.28	596.79
1+610.00	0.39	0.38	3.92	2.06	525.19	598.84
1+612.47	0.38	0.37	0.96	0.91	526.16	599.75
1+620.00	0.41	0.36	3.01	2.69	529.17	602.44
1+629.17	0.27	0.35	3.14	3.17	532.31	605.60
1+630.00	0.26	0.34	0.22	0.28	532.53	605.89
1+640.00	0.13	0.85	1.95	5.94	534.48	611.83
1+646.27	0.14	0.41	0.84	3.95	535.32	615.78
1+650.00	0.14	0.01	0.51	0.77	535.83	616.55
1+660.00	0.20	0.00	1.71	0.04	537.54	616.59
1+670.00	0.23	0.01	2.17	0.08	539.71	616.67
1+680.00	0.21	0.03	2.22	0.22	541.93	616.89
1+690.00	0.15	0.03	1.82	0.30	543.75	617.19
1+700.00	0.17	0.27	1.61	1.50	545.36	618.69
1+710.00	0.56	0.34	3.64	3.07	549.00	621.76
1+717.01	0.20	1.19	2.66	5.38	551.66	627.14
1+720.00	0.33	0.44	0.78	2.46	552.44	629.59
1+727.73	0.35	0.45	2.56	3.61	553.20	633.20
1+730.00	0.37	0.50	0.79	1.13	555.80	634.33
1+738.45	0.31	0.56	2.79	4.69	558.59	639.02
1+740.00	0.34	0.57	0.51	0.88	559.10	639.90
1+748.68	0.31	0.48	2.82	4.54	561.92	644.44
1+750.00	0.30	0.43	0.40	0.60	562.31	645.04
1+760.00	0.14	0.38	2.20	4.03	564.51	649.07
1+763.22	0.14	0.01	0.45	0.62	564.96	649.70
1+770.00	0.11	0.26	0.84	0.90	565.79	650.60
1+777.77	0.11	0.61	0.86	3.37	566.66	653.97
1+780.00	0.11	0.54	0.24	1.28	566.90	655.25
1+790.00	0.13	0.32	1.18	4.29	568.08	659.54
1+800.00	0.29	0.00	2.10	1.59	570.19	661.13
1+810.00	0.20	0.21	2.44	1.04	572.63	662.17
1+820.00	0.76	0.43	4.79	3.21	577.42	665.38
1+830.00	0.10	0.87	4.32	6.54	581.73	671.92
1+840.00	0.19	0.33	1.45	6.01	583.18	677.93
1+849.37	0.17	0.44	1.66	3.59	584.84	681.52
1+850.00	0.17	0.43	0.10	0.27	584.94	681.79
1+860.00	0.03	0.97	0.97	7.06	585.91	688.86
1+862.88	0.00	1.13	0.04	3.01	585.96	691.86
1+870.00	0.00	1.50	0.00	9.29	585.96	701.15
1+876.38	0.30	0.27	1.00	5.63	586.95	706.78
1+880.00	0.15	0.31	0.82	1.05	587.77	707.83
1+890.00	0.16	0.33	1.55	3.18	589.32	711.00
1+893.59	0.17	0.39	0.59	1.28	589.91	712.29
1+900.00	0.11	0.00	0.90	1.22	590.81	713.51
1+910.00	0.00	0.00	0.57	0.00	591.38	713.51
1+911.79	1.19	0.00	1.07	0.00	592.45	713.51
1+920.00	0.28	0.52	6.03	2.16	598.48	715.67
1+929.99	0.30	0.60	2.90	5.68	601.39	721.35
1+930.00	0.30	0.60	0.00	0.01	601.39	721.36
1+940.00	0.22	0.38	2.64	4.91	604.03	726.27
1+947.55	0.17	0.00	1.50	1.45	605.52	727.72
1+950.00	0.27	0.00	0.54	0.00	606.07	727.72
1+960.00	1.66	0.00	9.74	0.00	615.81	727.72
1+967.57	0.93	0.00	9.89	0.00	625.70	727.72
1+970.00	0.39	0.61	1.61	0.76	627.31	728.48
1+980.00	0.00	1.67	1.96	11.55	629.27	740.03
1+987.60	0.11	1.07	0.44	10.48	629.71	750.52
1+990.00	0.13	0.44	0.29	1.81	630.00	752.32
2+000.00	0.13	0.41	1.27	4.23	631.27	756.55
2+002.05	0.12	0.40	0.26	0.83	631.52	757.38

Total Volume Table

Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
2+010.00	0.11	0.36	0.93	3.12	632.46	760.51
2+010.66	0.11	0.34	0.08	0.23	632.53	760.74
2+019.26	0.11	0.24	0.95	2.59	633.48	763.32
2+020.00	0.10	0.24	0.08	0.18	633.56	763.50
2+030.00	0.18	0.27	1.40	2.54	634.96	766.04
2+040.00	0.27	0.33	2.24	3.00	637.20	769.03
2+050.00	0.12	0.76	1.96	5.44	639.16	774.48
2+060.00	0.10	0.63	1.11	6.92	640.27	781.40
2+070.00	0.12	0.61	1.08	6.20	641.35	787.60
2+074.68	0.21	0.31	0.78	2.16	642.13	789.75
2+080.00	0.21	0.42	1.15	1.87	643.27	791.62
2+080.80	0.21	0.42	0.17	0.34	643.44	791.96
2+086.92	0.18	0.37	1.23	2.35	644.67	794.30
2+090.00	0.19	0.31	0.57	1.05	645.24	795.35
2+100.00	0.16	0.34	1.74	3.27	646.98	798.62
2+110.00	0.16	0.37	1.57	3.56	648.56	802.19
2+113.94	0.14	0.32	0.58	1.37	649.13	803.56
2+120.00	0.13	0.28	0.82	1.84	649.95	805.40
2+120.28	0.13	0.29	0.04	0.08	649.98	805.48
2+126.62	0.13	0.35	0.83	1.93	650.81	807.40
2+130.00	0.12	0.71	0.42	1.80	651.23	809.20
2+140.00	0.32	0.67	2.22	6.89	653.45	816.09
2+150.00	0.32	0.00	3.22	3.36	656.67	819.45
2+156.63	0.14	0.38	1.51	1.27	658.18	820.71
2+160.00	0.14	0.36	0.47	1.21	658.65	821.92
2+160.45	0.14	0.36	0.06	0.16	658.71	822.08
2+164.27	0.15	0.32	0.55	1.25	659.26	823.33
2+170.00	0.03	0.75	0.51	3.06	659.77	826.40
2+180.00	0.02	0.46	0.27	6.01	660.04	832.41
2+190.00	0.18	0.45	0.99	4.52	661.03	836.93
2+200.00	0.13	0.03	1.52	2.38	662.55	839.31
2+210.00	0.15	0.39	1.41	2.11	663.96	841.43
2+220.00	0.21	0.50	1.84	4.47	665.80	845.90
2+230.00	0.20	0.51	2.09	5.05	667.89	850.95
2+232.63	0.21	0.51	0.54	1.35	668.43	852.30
2+240.00	0.14	0.58	1.26	4.09	669.68	856.39
2+250.00	0.24	0.50	1.86	5.49	671.54	861.87
2+252.09	0.22	0.51	0.48	1.06	672.02	862.93
2+260.00	0.21	0.53	1.67	4.22	673.69	867.15
2+270.00	0.25	0.56	2.24	5.56	675.93	872.71
2+271.55



NOTES

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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–THE EXACT LOCATION OF WALL SHALL BE ADJUSTED AT SITE.

LEGEND

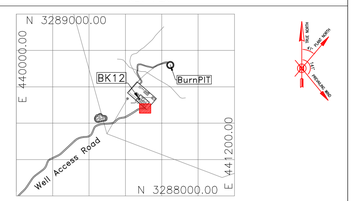
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE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

REFERENCE DRAWING	DRG. No.
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Geotechnical Investigation Report – BK12	BK–BK12–PEDCO–110–GT–RT–0001
Specification For Road & Paving	BK–GNRAL–PEDCO–000–CV–SP–0002
MTO For Civil Works – BK12	BK–BK12–PEDCO–110–CV–MT–0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK–GNRAL–PEDCO–000–CV–DW–0014

GABION WALL AREA SPECIFICATION BASED ON MOM (1402–03–02&03)

NAME	COORDINATE START	COORDINATE START
AREA1	E=440712 N=3288484	E=440676 N=3288481

KEY PLAN



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

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

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB–SURFACE WORK PACKAGES BK12 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 – BK12
GABION WALL PLAN AND SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/100	A1	BK–BK12–PEDCO–110–CV–DW–0001	57 OF 59	D00

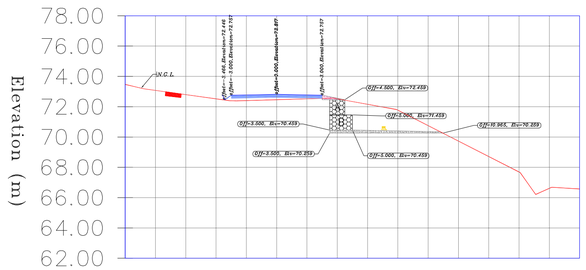
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BINAK OILFIELD DEVELOPMENT
SUB–SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

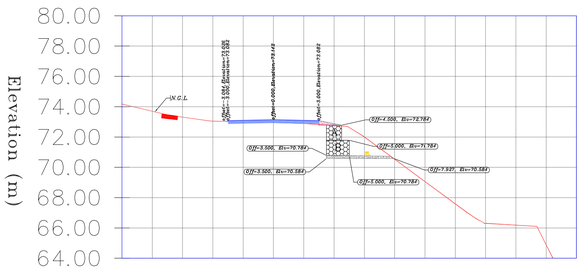
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION			BY:		DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053–073–9184	F	4	A	708295	57	D00



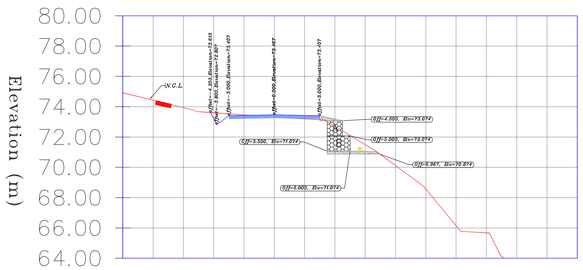
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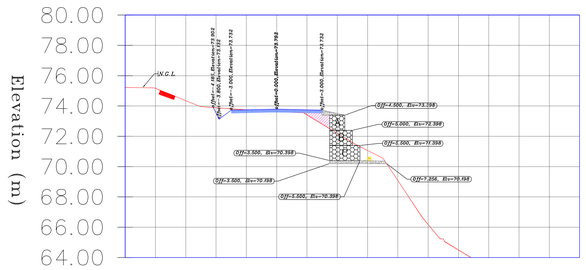
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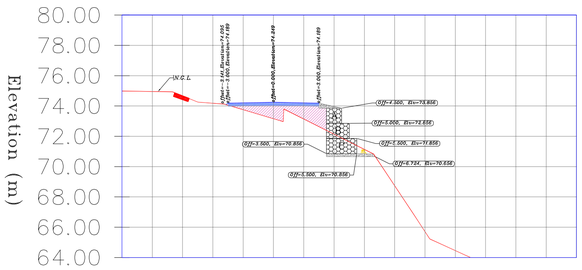
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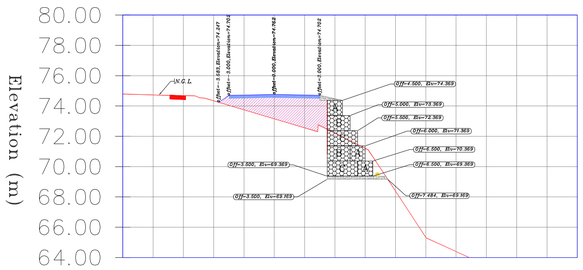
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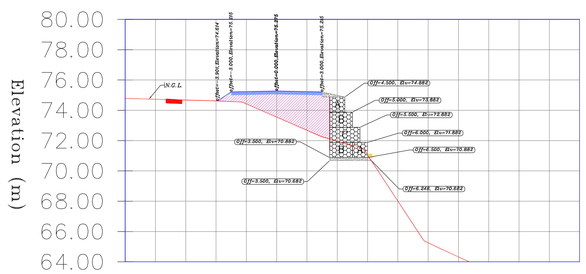
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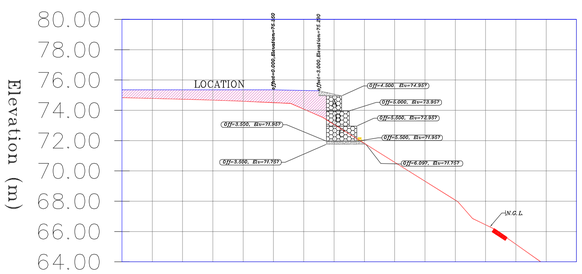
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SC=1:200



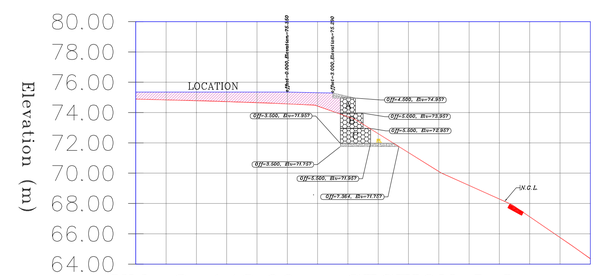
KM. 3+140.00 SECTION G-G

SC=1:200



KM. 3+144.00 SECTION H-H

SC=1:200



KM. 3+148.00 SECTION I-I

SC=1:200

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LEGEND

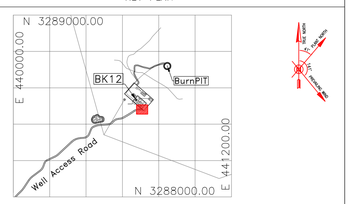
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⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING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

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

GABION WALL AREA SPECIFICATION BASED ON MOM (1402-03-02&03)

NAME	COORDINATE START	COORDINATE START
AREA1	E=440712 N=3288484	E=440676 N=3288481

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	** **

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK12 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 - BK12
GABION WALL PLAN AND SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/200 V=1/200	A1	BK-BK12-PEDCO-110-CV-DW-0001	58 OF 59	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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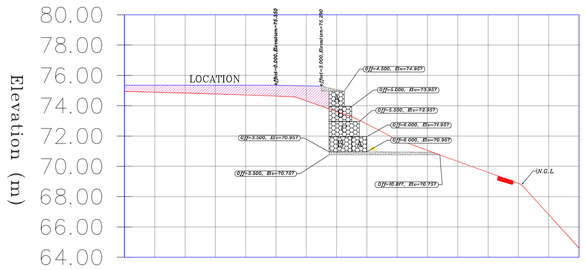
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK12 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

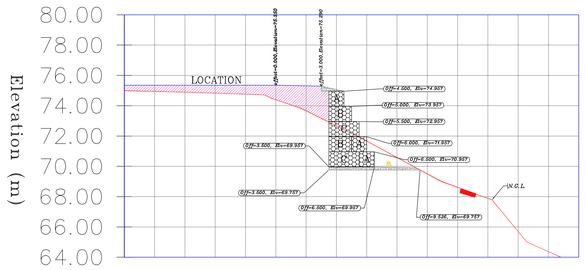
APPROVED FOR CONSTRUCTION | BY: | DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	A	708295	58	D00



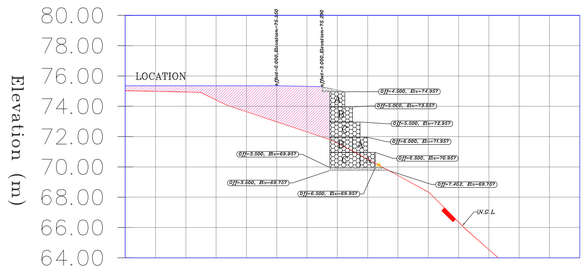
KM. 3+152.00 SECTION J-J

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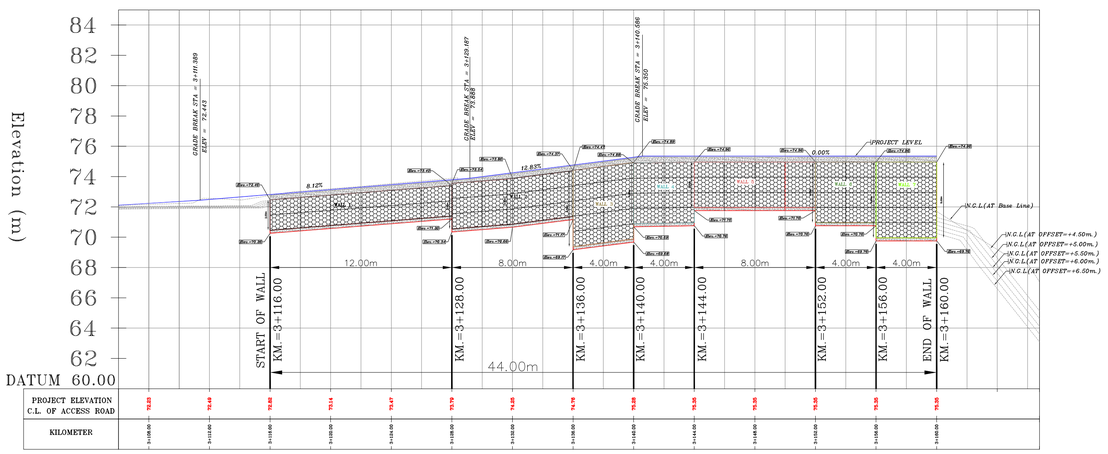
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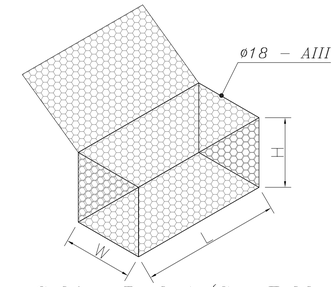
KM. 3+160.00 SECTION L-L

SC=1:200



Gabion Wall Front View (Section M-M)

SC=1:200



Gabion Basket (See Table 1)

N.T.S.

TABLE 1-GABION TYPE PROPERTIES

TYPE	W(m)	L(m)	H(m)
A	1	2	1
B	1.5	2	1
C	2	2	1

TABLE 2-COORDINATE OF CENTER LINE

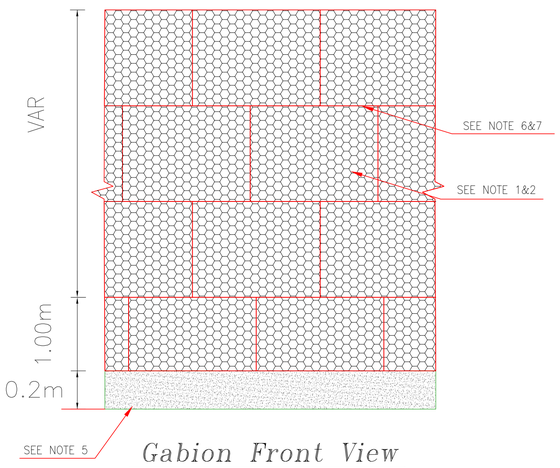
COORDINATE Table (ROAD CENTERLINE)		
KILOMETER	Northing	Easting
3+116.00	3288482.445	440683.019
3+120.00	3288482.241	440687.013
3+124.00	3288482.037	440691.008
3+128.00	3288481.833	440695.003
3+132.00	3288481.629	440698.998
3+136.00	3288481.425	440702.993
3+140.00	3288481.222	440706.987
3+144.00	3288481.018	440710.982
3+148.00	3288480.814	440714.977
3+152.00	3288480.610	440718.972
3+156.00	3288480.406	440722.967
3+160.00	3288480.202	440726.961

TABLE 3-WALLS AND BASKETS PROPERTIES

Wall Properties					Nomber of Gabion Baskets TYPE (A) W*L*H	TYPE (B) W*L*H	TYPE (C) W*L*H
WALL No.	START & END		Length (m)	HEIGHT (m)	1*2*1	1.5*2*1	2*2*1
Wall 1	KM Start	3+116	12	2	6	6	
	Km End	3+128					
Wall 2	KM Start	3+128	8	3	4	4	4
	Km End	3+136					
Wall 3	KM Start	3+136	4	5	6	4	4
	Km End	3+140					
Wall 4	KM Start	3+140	4	4	4	4	2
	Km End	3+144					
Wall 5	KM Start	3+144	8	3	4	4	4
	Km End	3+152					
Wall 6	KM Start	3+152	4	4	4	4	2
	Km End	3+156					
Wall 7	KM Start	3+156	4	5	6	4	4
	Km End	3+160					
				Total	34	30	20
					Total Volume of Walls (m3)=238		

Coordinate of Bench Marks (UTM-ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
S16	440126.1577	3288153.1997	54.2227
S17	439632.0490	3287658.4506	22.1753
S19	439239.0298	3287122.7447	30.3636
S21	438672.5161	3286257.4245	7.7715
GPS2	440638.0716	3288706.8218	82.8250
GPS1	440614.7992	3288667.5129	82.2933
BM40	440592.8969	3288516.5660	73.5772
BM39	440730.415	3288611.980	84.468



Gabion Front View

N.T.S.

توضیحات:

۱. تور سیمی بافته شده گابیون باید از آهن گالوانیزه و مطابق با مشخصات BS443 باشد. حداقل قطر سیم ها ۳ میلیمتر بوده و اندازه چشمه شش ضلعی تورسیمی باید 80*100 میلیمتر باشد. ضروری است که تورسیمی از یک قطعه تشکیل شده باشد.

۲. مشخصات گالوانیزه تورسیمی باید مطابق با BS-EN-10244-2 باشد.

۳. مصالح سنگی مصرفی در توری سنگها باید در برابر یخزدگی مقاوم بوده و عاری از مواد آلی و خاک باشد. اندازه سنگها باید اندکی بزرگتر از چشمه های تورسیمی انتخاب گردد و حداکثر اندازه سنگ ها ۲۰۰ میلیمتر می باشد.

۴. قطعات سنگ قبل از قرارگرفتن در قفسه باید انتخاب، دانه بندی و تمیز شوند. ابعاد قطعات سنگ باید به نسبت ابعاد روزنه های تورسنگ به گونه ای انتخاب شوند که این سنگ ها از توری سازه شسته نشوند. حداقل ابعاد قطعه سنگ ها خصوصا در لایه های خارجی، باید 1.5 برابر ابعاد روزنه ها باشد. برای جلوگیری از پاره شدن و یا سائیدگی تورهای سیمی بهتر است به جای سنگ تیزگوشه از سنگ های گردگوشه استفاده شود.

۵. بتن زیرسازی و رگلاژی: حداقل ۲۰۰ کیلوگرم سیمان بر مترمکعب و مقاومت مشخصه ۱۵۰ کیلوگرم بر سانتیمترمربع بر روی نمونه استوانهای 15*30 سانتیمتری.

۶. به منظور هم راستا نمودن و شاقول نمودن گابیونها لازم است که از شاسی فولادی (با آرماتور) در اطراف هر گابیون استفاده گردد. این شاسی از آرماتور نمره ۱۸ و از رده AIII و هم اندازه با تیپ گابیون موردنظر ساخته و اجرا می گردد.

۷. فضای بین گابیون ها با استفاده از دوغاب سیمانی مناسب پر شود.

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.

7-THE EXACT LOCATION OF WALL SHALL BE ADJUSTED AT SITE.

LEGEND

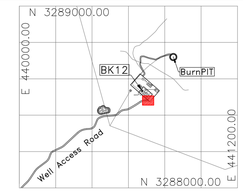
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE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

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK12	BK-BK12-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK12	BK-BK12-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 - BK12	BK-BK12-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK12	BK-BK12-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014

GABION WALL AREA SPECIFICATION
BASED ON MOM (1402-03-02&03)

NAME	COORDINATE START	COORDINATE START
AREA1	E=440712 N=3288484	E=440676 N=3288481

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.

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 BK12 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
BK12 WHF MODIFICATIONS

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK12
GABION WALL PLAN AND 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-BK12-PEDCO-110-CV-DW-0001	59 OF 59	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	A	708295	59	D00