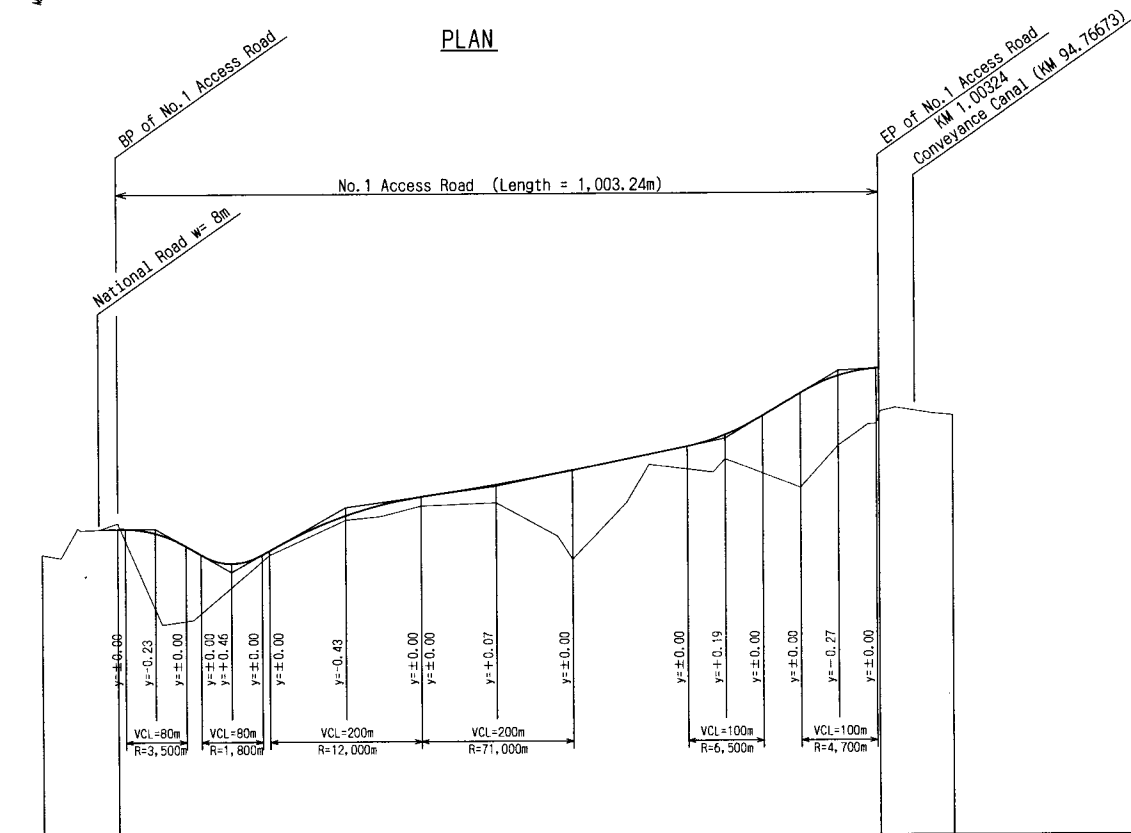


PLAN



PROFILE

DISTANCE (KM)	-0.100	BP	0.050	BC-1	0.100	0.150	0.200	SP-1	0.300	EC-1	0.400	0.500	BC-2	0.600	0.700	SP-2	0.800	0.900	0.950	EC-2	1.000	EP	1.100	
ORIGINAL GROUND SURFACE	4.95	6.61	1.58	1.45	4.50	4.34	6.74	6.93	7.46	7.62	5.66	4.62	9.62	9.20	9.30	8.37	11.71	11.71	11.72	12.19				
TOP OF ACCESS ROAD		6.30	6.07	5.15	5.12	6.97	7.95	8.57	9.34	10.16	11.19	13.37	14.29	14.68	14.88									
LONGITUDINAL GRADIENT		-0.05%	-2.30%	-2.00%	-2.27%	-0.43%	-0.00%	-0.00%	-0.07%	-0.00%	-0.19%	-0.00%	-0.00%	-0.27%	-0.00%	0.83%	-2.37%	-0.24%	-0.00%					
CURVE ARRANGEMENT		IP-1, IA=23 32' 53", R=700 m, TL=145.91m, CL=287.70m, SL=15.04m										IP-2, IA=23 25' 53", R=1000 m, TL=207.38m, CL=408.96m, SL=21.28m												
SUPER ELEVATION		-2.00% (L) to +4.00% (R)										+4.00% (R) to -2.00% (L)												

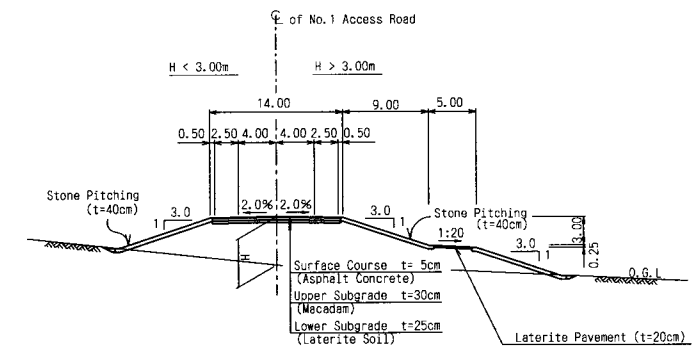
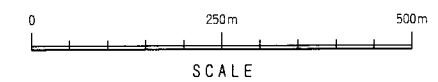
NOTES:

1. The location of curvatures on the No. 1 Access Road route are shown as follows;

Principal peg	Distance (M)	Principal peg	Distance (M)
BP	0.00	SP-2	784.45
BC-1	59.18	EC-2	988.93
SP-1	203.03	EP	1,003.24
EC-1	346.88	CL. of C. Canal	1,045.89
BC-2	579.97		

2. EP of No. 1 Access Road intersects in KM94.76673 with the conveyance canal.

3. This drawing scale of the plan and horizontal profile are as follows:



TYPICAL CROSS SECTION

S=1/800

THE ARAB REPUBLIC OF EGYPT
MINISTRY OF WATER RESOURCES AND IRRIGATION
NORTH SINAI DEVELOPMENT ORGANIZATION

THE NORTH SINAI INTEGRATED RURAL
DEVELOPMENT PROJECT (PHASE III)

CONVEYANCE SYSTEM OF EL SHEIKH GABER EL SABBABH CANAL
BETWEEN KM 86.500 AND KM 108.466

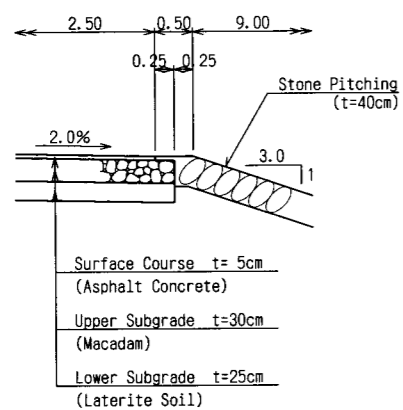
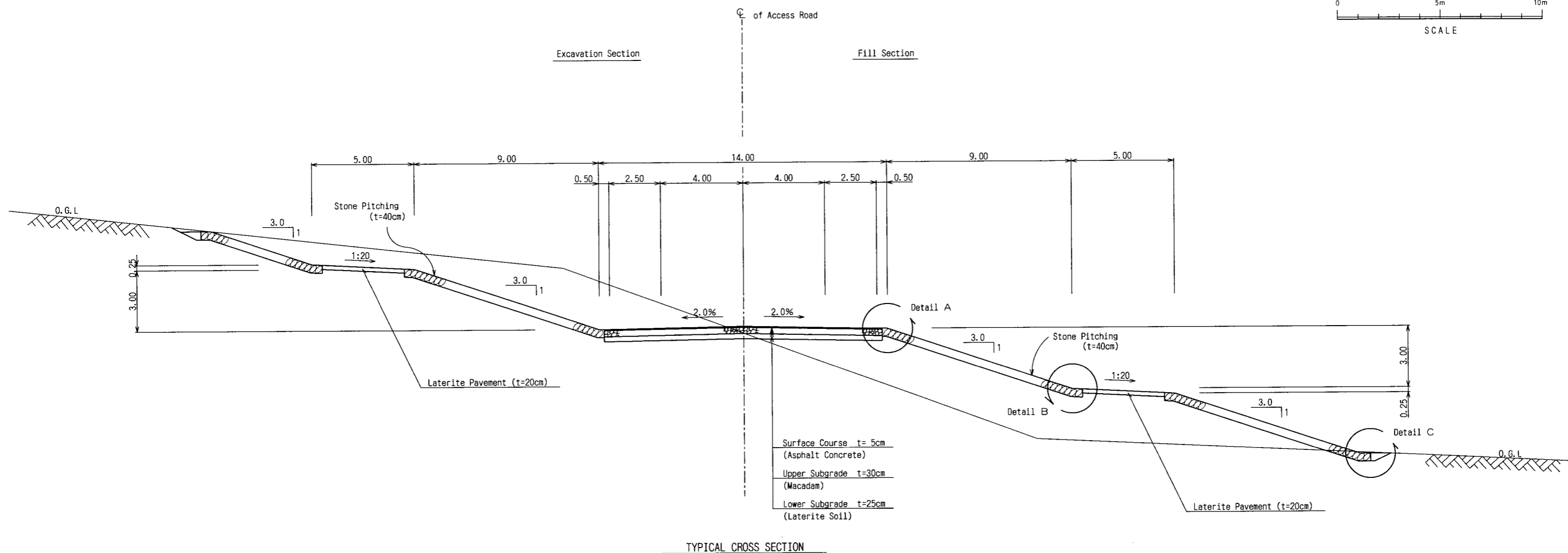
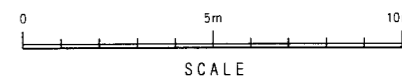
NO. 1 ACCESS ROAD
PLAN AND PROFILE
BETWEEN BP AND EP

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
SANYU CONSULTANTS INC, PACIFIC CONSULTANTS INTERNATIONAL

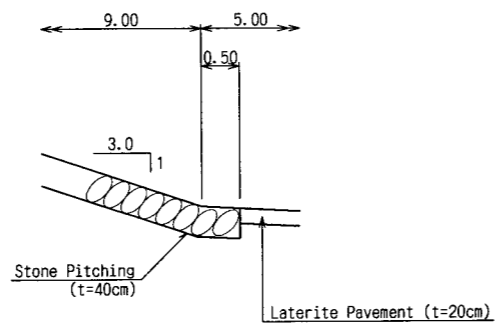
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO.	OMR-101

NOTES:

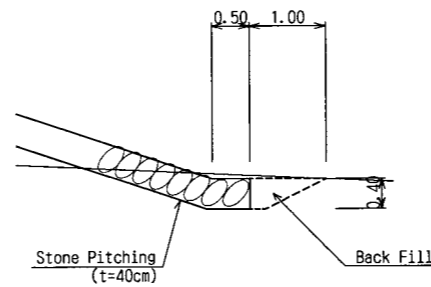
1. This drawing scale is S=1:200



DETAIL A



DETAIL B

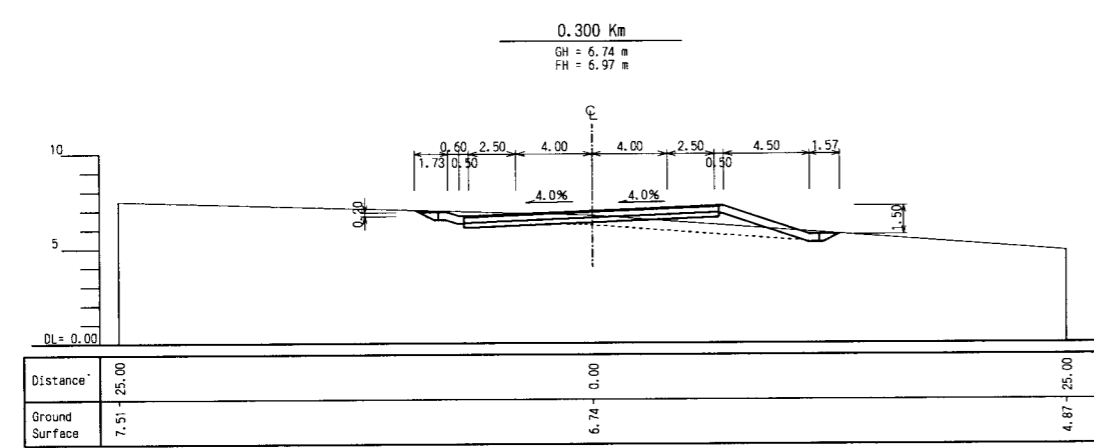
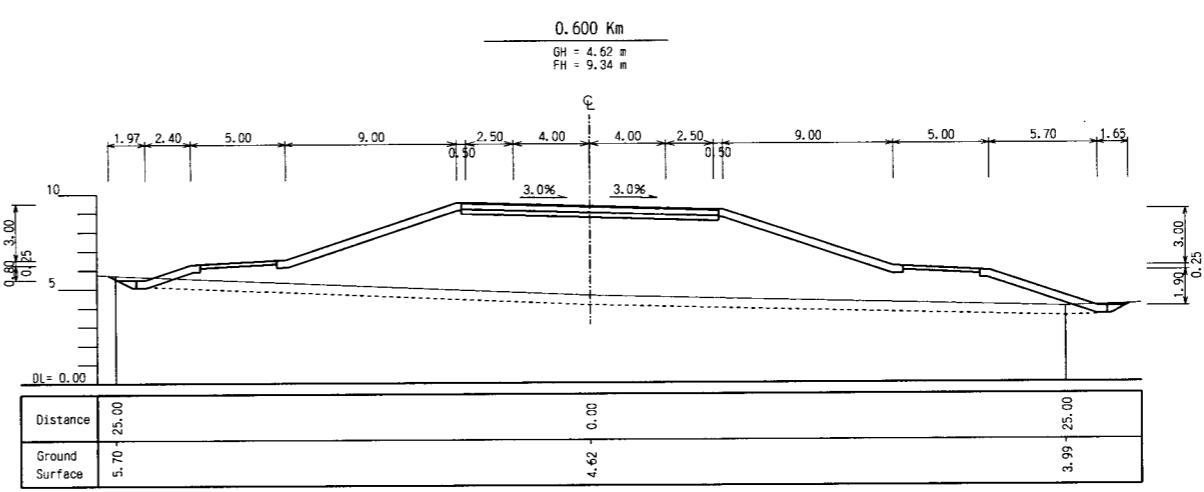
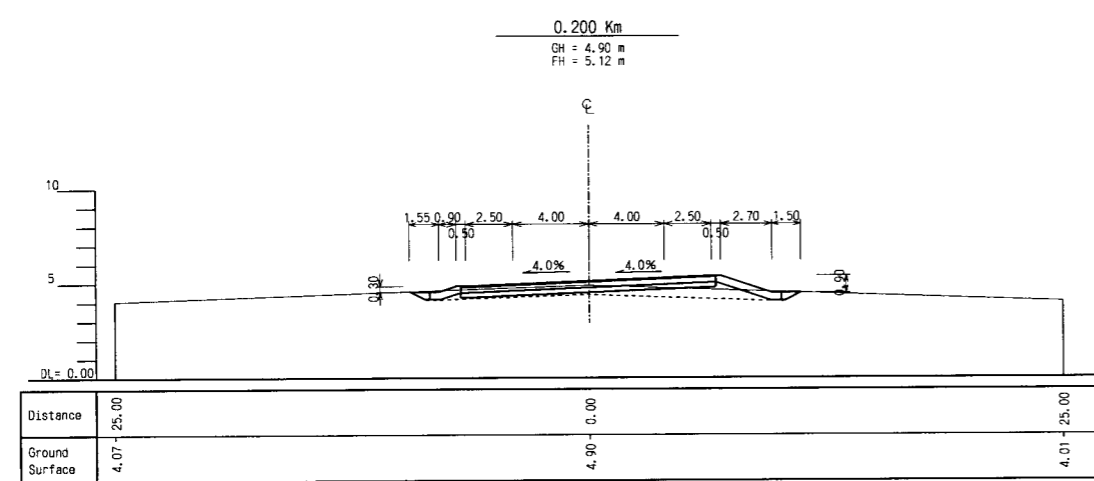
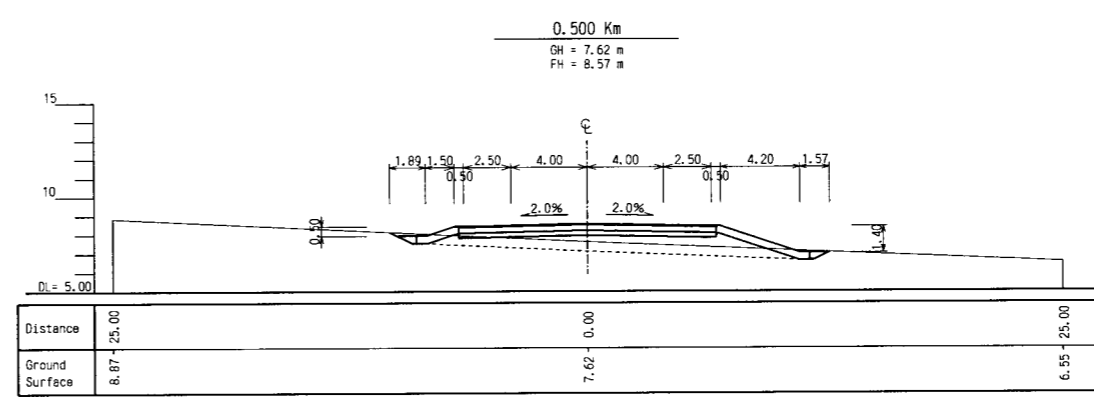
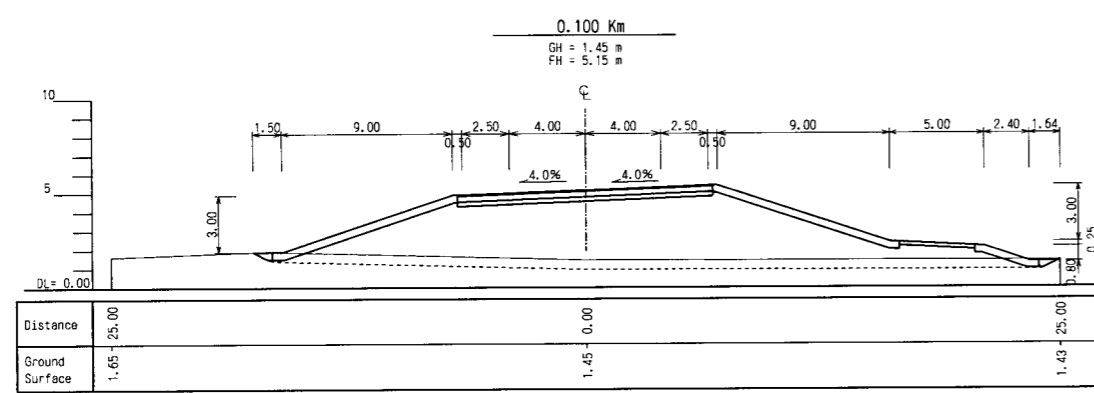
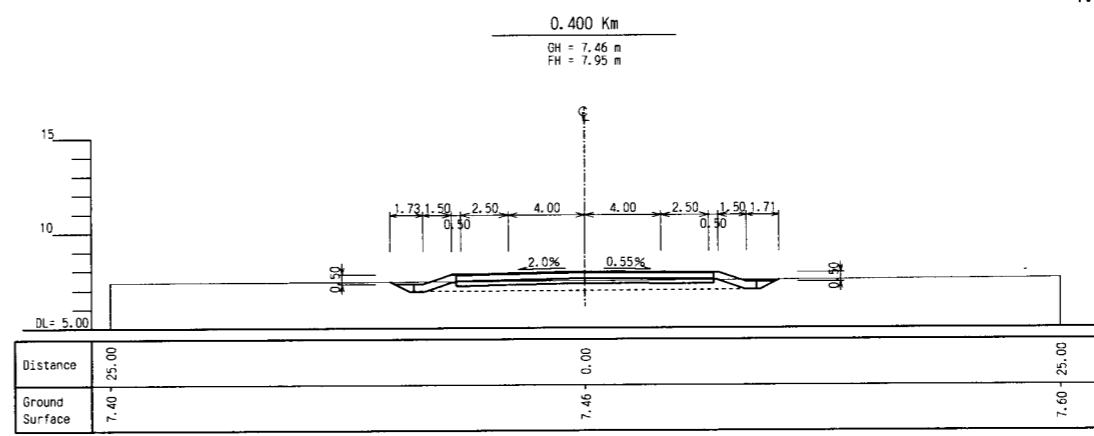
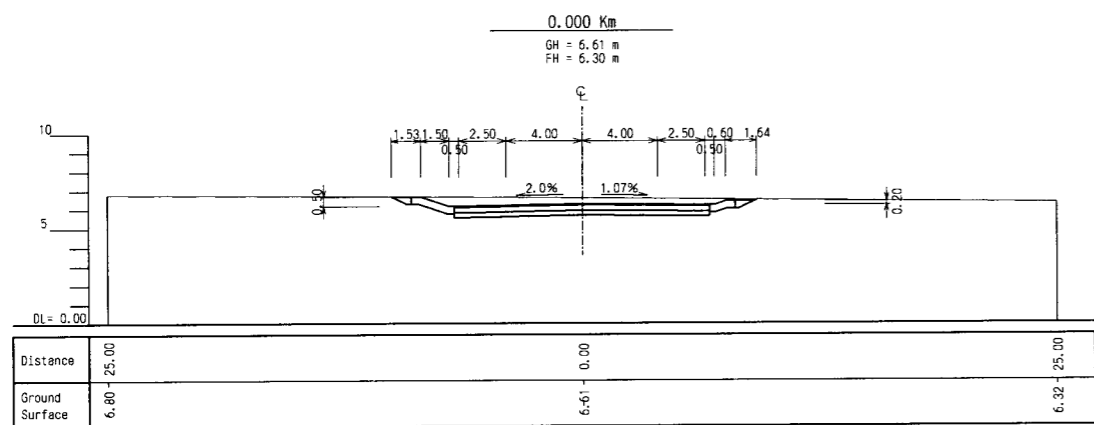
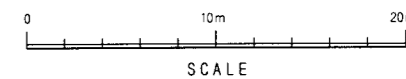


DETAIL C

THE ARAB REPUBLIC OF EGYPT MINISTRY OF WATER RESOURCES AND IRRIGATION NORTH SINAI DEVELOPMENT ORGANIZATION THE NORTH SINAI INTEGRATED RURAL DEVELOPMENT PROJECT (PHASE III) CONVEYANCE SYSTEM OF EL SHEIKH GABER EL SABBAAH CANAL BETWEEN KM 86.500 AND KM 108.466 NO. 1 ACCESS ROAD TYPICAL CROSS SECTION JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC, PACIFIC CONSULTANTS INTERNATIONAL	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO.	OMR-102

NOTES:

1. This drawing scale is S=1:400



THE ARAB REPUBLIC OF EGYPT
MINISTRY OF WATER RESOURCES AND IRRIGATION
NORTH SINAI DEVELOPMENT ORGANIZATION

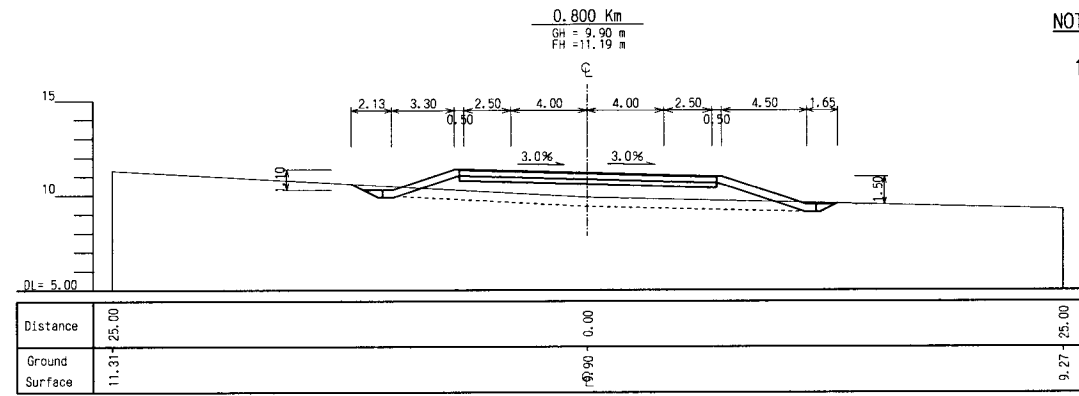
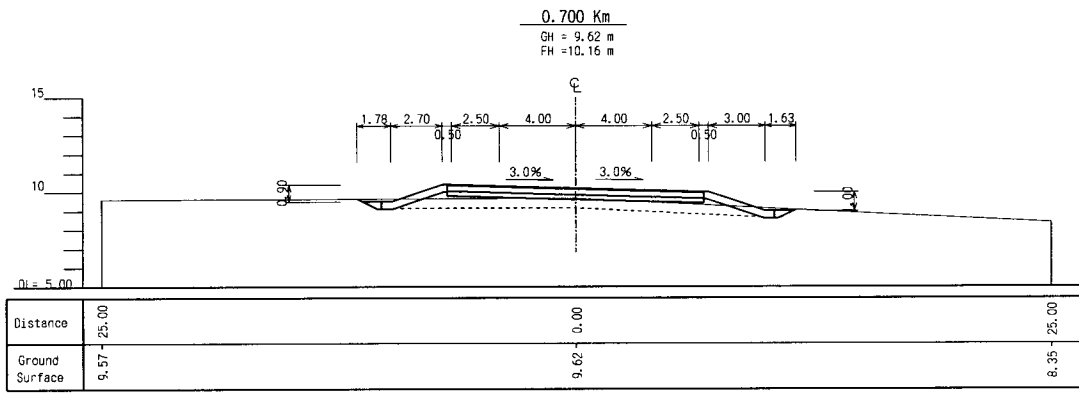
THE NORTH SINAI INTEGRATED RURAL
DEVELOPMENT PROJECT (PHASE III)

CONVEYANCE SYSTEM OF EL SHEIKH GABER EL SABBABH CANAL
BETWEEN KM 86.500 AND KM 108.466

NO. 1 ACCESS ROAD
CROSS SECTION (1/2)
BETWEEN KM. 0.000 AND KM. 0.600

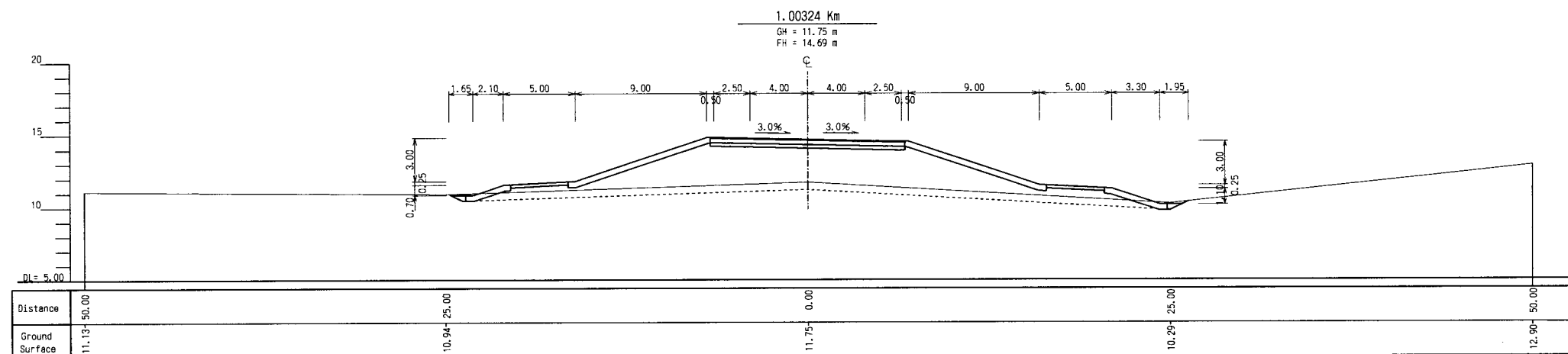
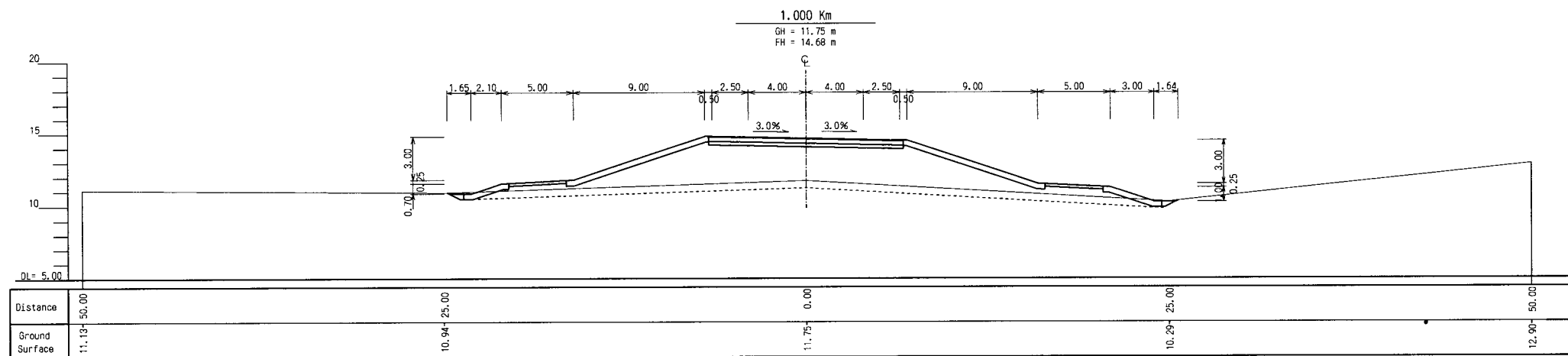
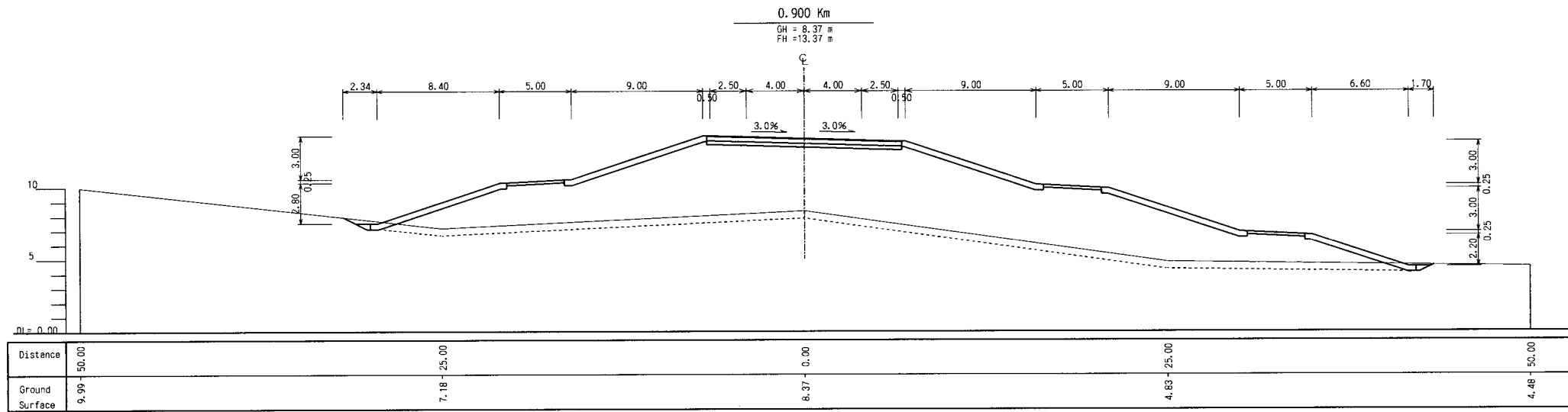
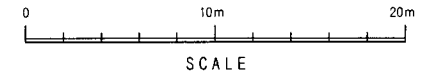
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
SANYU CONSULTANTS INC, PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO.	OMR-103

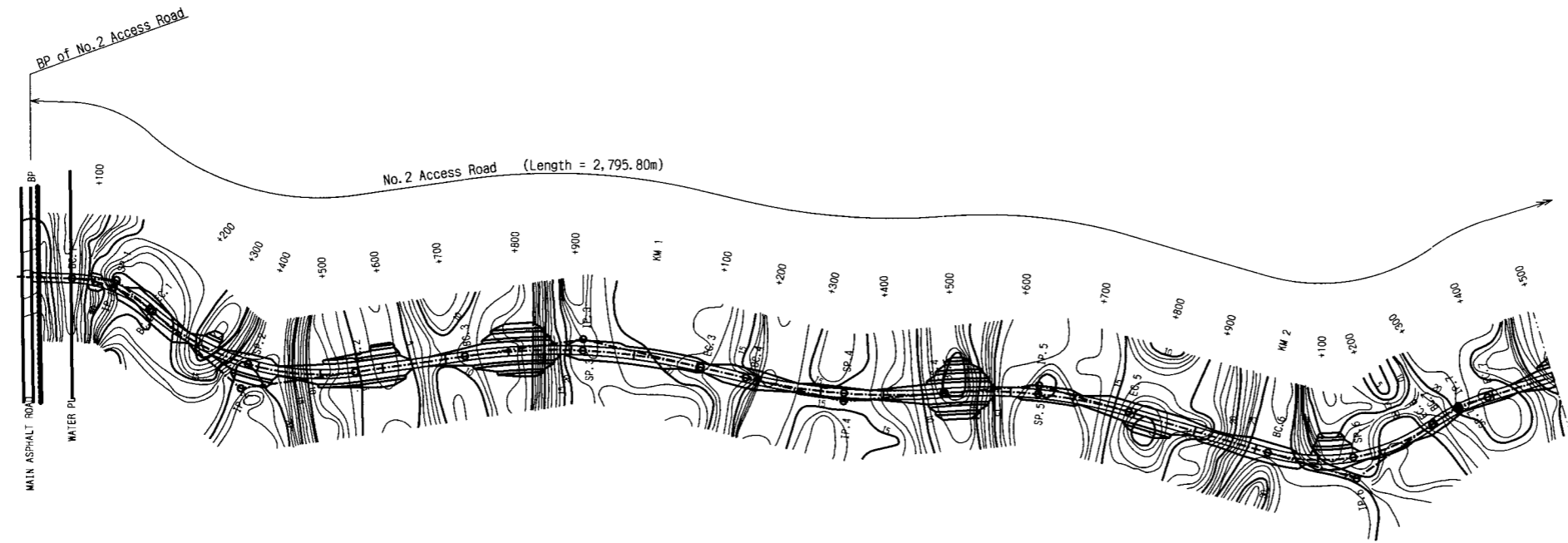


NOTES:

1. This drawing scale is S=1:400



THE ARAB REPUBLIC OF EGYPT MINISTRY OF WATER RESOURCES AND IRRIGATION NORTH SINAI DEVELOPMENT ORGANIZATION	
THE NORTH SINAI INTEGRATED RURAL DEVELOPMENT PROJECT (PHASE III)	
CONVEYANCE SYSTEM OF EL SHEIKH GABER EL SABBAAH CANAL BETWEEN KM 86.500 AND KM 108.466	
NO. 1 ACCESS ROAD CROSS SECTION (2/2) BETWEEN KM. 0.700 AND KM. 1.00324 (EP)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC, PACIFIC CONSULTANTS INTERNATIONAL	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO.	OMR-104

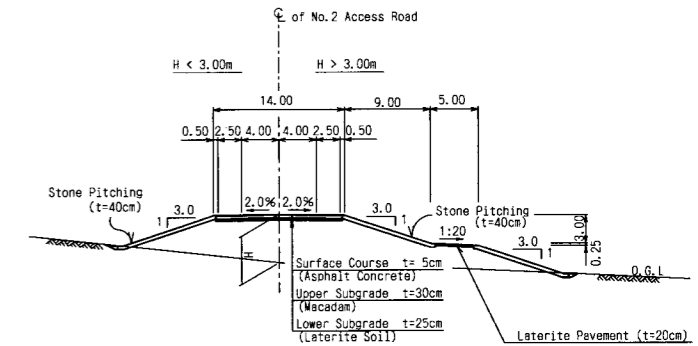
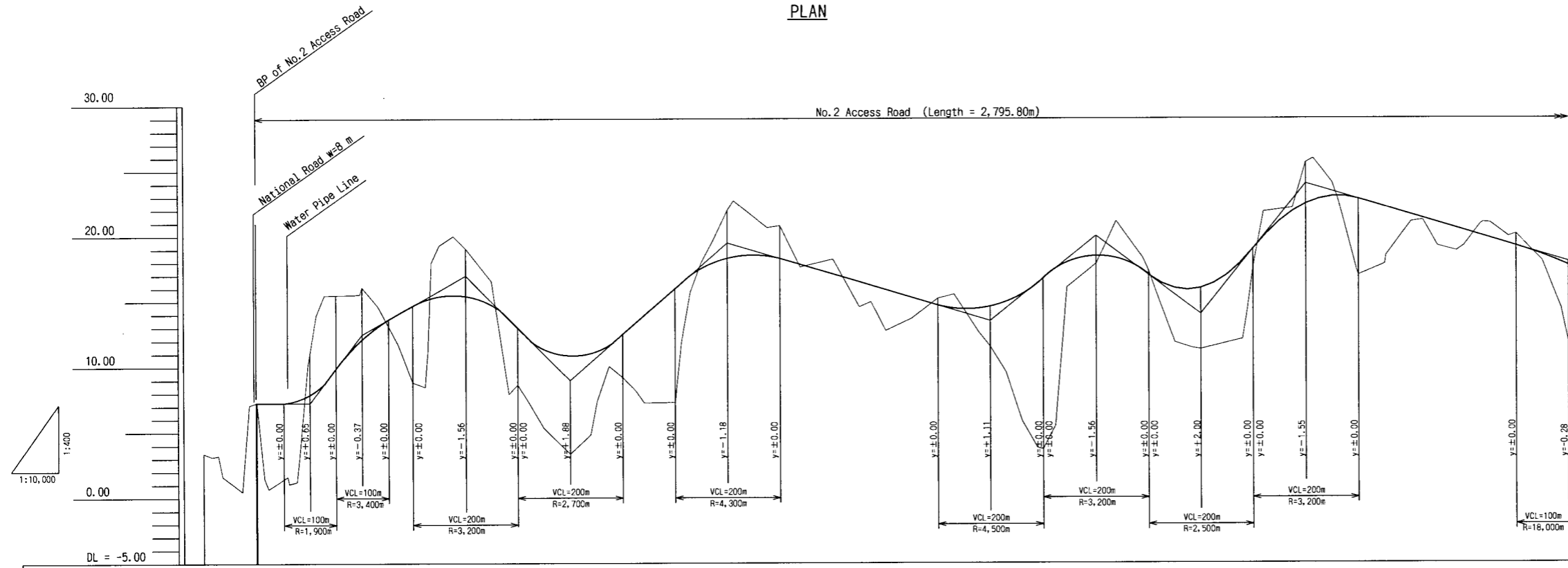
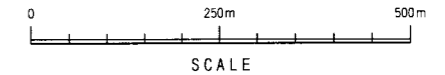


PLAN

- NOTES:
1. The location of curvatures on the No.2 Access Road route are shown as follows;

Principal peg	Distance (M)	Principal peg	Distance (M)
BP	0.00	SP-4	1,330.91
BC-1	63.51	EC-4	1,489.15
SP-1	131.80	BC-5	1,491.05
EC-1	200.09	SP-5	1,637.72
BC-2	204.87	EC-5	1,784.39
SP-2	377.36	BC-6	2,014.75
EC-2	549.85	SP-6	2,150.73
BC-3	724.90	EC-6	2,286.71
SP-3	912.83	BC-7	2,288.93
EC-3	1,100.76	SP-7	2,337.13
BC-4	1,172.67	EC-7	2,385.33

2. EP of No.2 Access Road intersects in KM102.30422 with the conveyance canal.
3. This drawing scale of the plan and horizontal profile are as follows:



TYPICAL CROSS SECTION
S=1/800

DISTANCE (KM)	ORIGINAL GROUND SURFACE	TOP OF ACCESS ROAD	LONGITUDINAL GRADIENT	CURVE ARRANGEMENT	SUPER ELEVATION
-0.100	3.41				
0.015	7.27	7.27	I=0.00%		
0.078	1.86	7.27	L=100		
0.100	1.06	7.27	I=1.50%	IP-1, IA=39°07'46", R=200m, TL=71.08m, CL=136.58m, SL=12.26m	
0.134	10.12	7.92	L=100		
0.140	15.40	9.20	I=1.23%		
0.157	12.42	9.20	L=100		
0.172	15.57	12.13	I=2.25%		
0.300	16.12	12.13	L=200		
0.354	8.85	14.50	I=4.00%	IP-2, IA=69°24'58", R=400m, TL=184.05m, CL=344.98m, SL=40.31m	
0.394	20.32	15.26	L=200		
0.400	20.03	15.44	I=2.00%		
0.453	19.08	14.54	L=200		
0.500	16.16	13.00	I=4.00%		
0.532	8.65	10.88	L=200		
0.600	5.32	11.62	I=3.50%		
0.670	3.38	11.62	L=300		
0.700	9.59	12.50	I=1.20%	IP-3, IA=21°32'06", R=1,000m, TL=190.17m, CL=375.86m, SL=17.92m	
0.724	9.22	12.50	L=500		
0.824	8.24	16.00	I=3.50%		
0.831	7.31	16.00	L=300		
0.880	7.31	18.32	I=1.20%	IP-4, IA=18°08'00", R=1,000m, TL=159.58m, CL=316.48m, SL=12.65m	
0.900	21.99	18.32	L=200		
0.920	22.72	18.30	I=3.50%		
1.000	20.82	17.10	L=500		
1.200	18.24	15.90	I=3.50%		
1.276	14.97	14.70	L=200		
1.300	12.76	14.70	I=3.25%		
1.355	15.22	16.75	L=200		
1.400	15.55	16.75	I=3.00%		
1.411	11.53	18.44	L=200		
1.450	3.79	19.00	I=1.20%	IP-5, IA=21°00'30", R=800m, TL=148.33m, CL=293.34m, SL=13.64m	
1.500	3.76	18.44	L=200		
1.550	3.70	19.00	I=3.00%		
1.600	17.86	16.00	L=200		
1.630	21.13	18.00	I=5.00%		
1.700	17.35	19.00	L=200		
1.760	11.42	16.00	I=1.20%	IP-6, IA=51°56'24", R=300m, TL=146.12m, CL=271.96m, SL=33.70m	
1.800	11.31	22.45	L=200		
1.878	12.83	22.80	I=2.00%		
1.900	17.60	22.80	L=200		
2.000	25.61	21.60	I=1.20%	IP-7, IA=18°25'43", R=300m, TL=48.62m, CL=96.40m, SL=3.92m	
2.050	25.92	20.40	L=500		
2.100	16.98	19.20	I=2.00%		
2.100	17.84	19.20	L=200		
2.200	21.07	20.40	I=3.00%		
2.300	18.84	18.84	L=200		
2.300	18.92	19.98	I=1.20%		
2.400	21.01	20.98	L=200		
2.400	19.93	19.20	I=3.00%		
2.500	20.12	17.72	L=200		
2.500	11.78				

PROFILE

THE ARAB REPUBLIC OF EGYPT
 MINISTRY OF WATER RESOURCES AND IRRIGATION
 NORTH SINAI DEVELOPMENT ORGANIZATION

THE NORTH SINAI INTEGRATED RURAL DEVELOPMENT PROJECT(PHASE III)

CONVEYANCE SYSTEM OF EL SHEIKH GABER EL SABBAH CANAL BETWEEN KM 86.500 AND KM 108.466

NO. 2 ACCESS ROAD
 PLAN AND PROFILE (1/2)
 BETWEEN BP AND KM 2.50

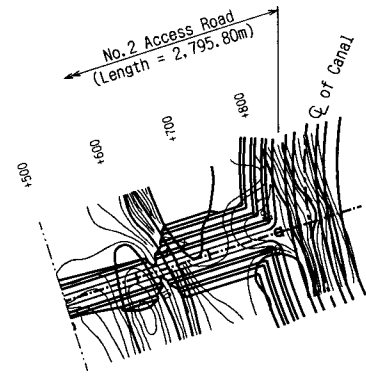
JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)
 SANYU CONSULTANTS INC, PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED

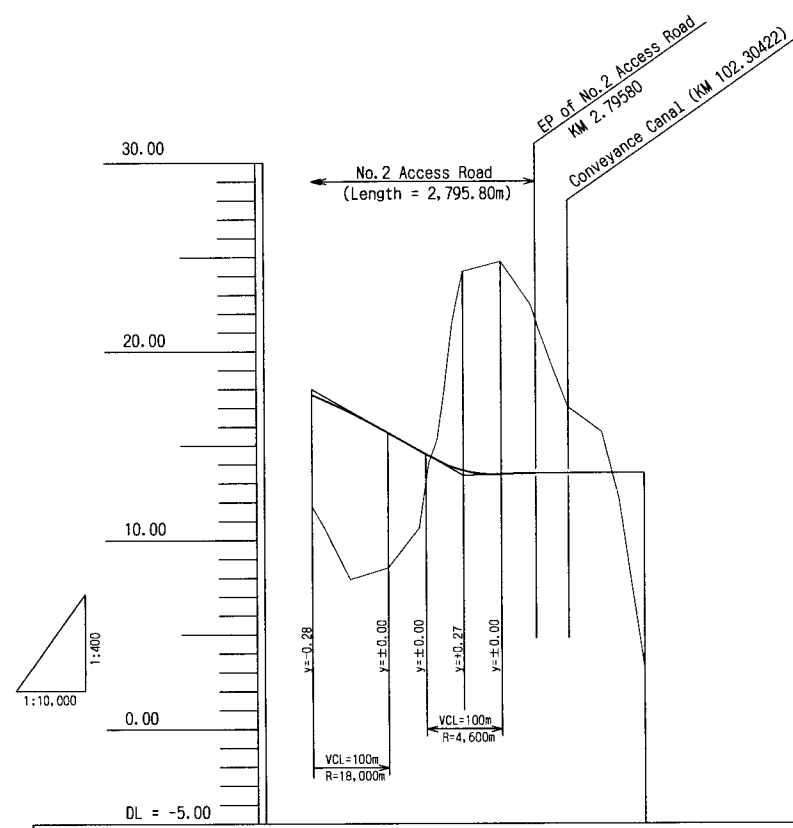
CHECKED

APPROVED

DRAWING NO. OMR-105



PLAN



PROFILE

DISTANCE (KM)	2.500	2.600	2.700	EP 2.800	2.938
ORIGINAL GROUND SURFACE	11.78	8.53	24.24	21.15	3.24
TOP OF ACCESS ROAD	17.72	15.70	13.68	13.54	
LONGITUDINAL GRADIENT					
CURVE ARRANGEMENT					
SUPER ELEVATION					

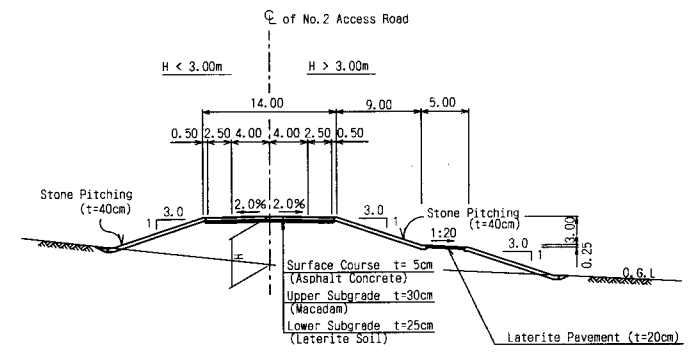
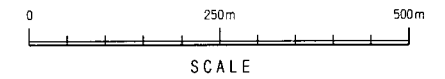
NOTES:

1. The location of curvatures on the No.2 Access Road route are shown as follows;

Principal peg	Distance (M)
EP	2,795.80
CL. of C. Canal	2,838.45

2. EP of No.2 Access Road intersects in KM102.30422 with the conveyance canal.

3. This drawing scale of the plan and horizontal profile are as follows:



TYPICAL CROSS SECTION

S=1/800

THE ARAB REPUBLIC OF EGYPT
MINISTRY OF WATER RESOURCES AND IRRIGATION
NORTH SINAI DEVELOPMENT ORGANIZATION

THE NORTH SINAI INTEGRATED RURAL DEVELOPMENT PROJECT (PHASE III)

CONVEYANCE SYSTEM OF EL SHEIKH GABER EL SABBAAH CANAL
BETWEEN KM 86.500 AND KM 108.466

No. 2 ACCESS ROAD
PLAN AND PROFILE (2/2)
BETWEEN KM2.50 AND EP

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
SANYU CONSULTANTS INC, PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO.	CMR-106