

社会開発調査部報告書

JAPAN INTERNATIONAL COOPERATION AGENCY  
SCIENCE AND TECHNOLOGY COMMISSION OF  
SHANGHAI MUNICIPAL PEOPLE'S GOVERNMENT,  
PEOPLE'S REPUBLIC OF CHINA

# DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT FINAL REPORT

## VOLUME II DESIGN DRAWING

PART III Detailed Design

PART III-1 Airside Civil Works

SEPTEMBER 1997

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JAPAN INTERNATIONAL COOPERATION AGENCY  
SCIENCE AND TECHNOLOGY COMMISSION OF  
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PEOPLE'S REPUBLIC OF CHINA

DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT  
FINAL REPORT

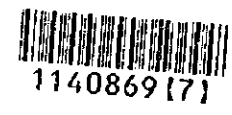
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DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT  
FINAL REPORT

VOLUME II DESIGN DRAWING

PART III Detailed Design (1/2)

PART III-1 Airside Civil Works

SEPTEMBER 1997

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# DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT FINAL REPORT

PART III-1 Airside Civil Works

SEPTEMBER 1997

NIPPON KOEI CO., LTD  
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# DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

## Airside Civil Works (1/2)

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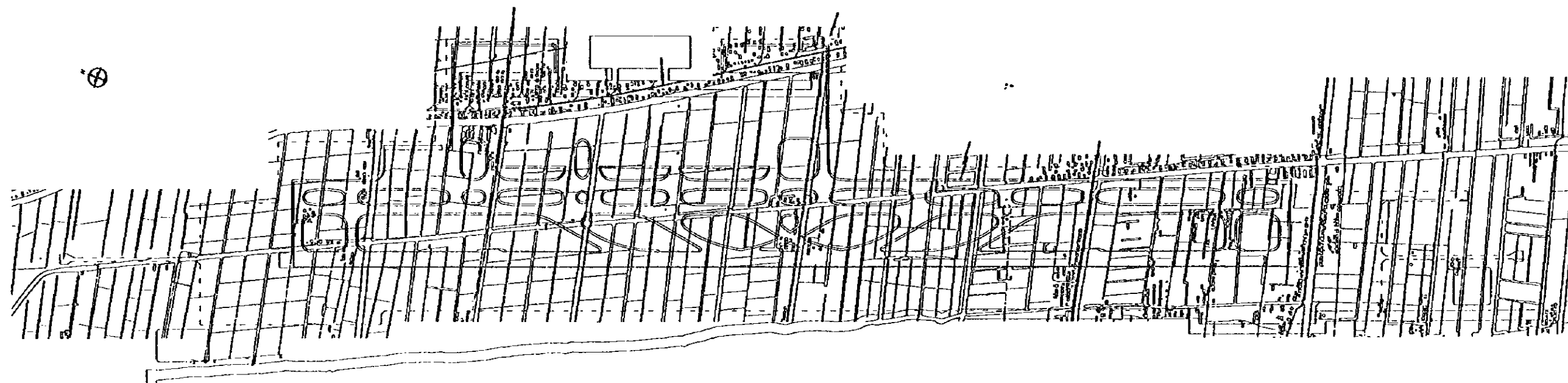
DWG No.	TITLE	題 目
1-C1	AIRFIELD TOPOGRAPHY PLAN	飛行区地形平面図
1-C2(1/3)~1-C2(3/3)	RUNWAY CENTER LINE PROFILE	滑走路中心線縦断面図
1-C3(1/3)~1-C3(3/3)	PARALLEL TAXIWAY CENTER LINE PROFILE	平行誘導路中心線縦断面図
1-C4(1/2), 1-C4(2/2)	TAXIWAY CENTER LINE PROFILE	誘導路中心線縦断面図
1-C5(1/2), 1-C5(2/2)	TYPICAL CROSS SECTION	標準断面図
1-C6(1/7)~1-C6(7/7)	PLANNING HEIGHTS	計画高図
1-C7(1/10)~1-C7(10/10)	CALCULATION CHART FOR EARTH VOLUME	土量計算図
1-C8(1/5)~1-C8(5/5)	DITCH TREATMENT DRAWING FOR AIRFIELD	飛行区水路改良
1-C9(1/2), 1-C9(2/2)	EARTH WORK DISTRIBUTION PLAN	土工配分図
1-C10	SODDING WORKS	芝工平面図
1-F01(1/3)~1-F01(3/3)	GENERAL LAYOUT OF GROUND TREATMENT	地盤改良一般平面図
1-F02	LAYOUT OF RAMMING POINTS IN RUNWAY	重錐落下位置図(滑走路)
1-F03	LAYOUT OF RAMMING POINTS IN OVERRUN	重錐落下位置図(オーバーラン)
1-F04	LAYOUT OF RAMMING POINTS IN PARALLEL TAXIWAY	重錐落下位置図(平行誘導路)
1-F05	LAYOUT OF RAMMING POINTS IN TAXIWAY	重錐落下位置図(誘導路)
1-F06	LAYOUT OF RAMMING POINTS IN APRON	重錐落下位置図(エプロン)
1-F07(1/3)~1-F07(3/3)	DISTRIBUTION OF CHANNELS IN SITE	水路位置図
1-F08	SKETCH MAP OF CHANNEL BACKFILLING	水路埋戻し図
1-F09	DIAGRAMMATIC SECTION OF LEVELING	標準断面図
1-F10	SCHEDULE OF MAIN QUANTITIES	数量集計表
1-D1	EXISTING RIVER	現況水系図
1-D2	CATCHMENT AREA	流域分割図
1-D3(1/2), 1-D3(2/2)	STORM DRAINAGE LAYOUT PLAN	排水施設平面図
1-D4	GENERAL PLAN AND STRUCTURE FOR REGULATING PONDAGE	調節池一般平面・構造図
1-D5(1/36)~1-D5(36/36)	STORM DRAINAGE PROFILE	排水施設縦断面図
1-D6(1/6)~1-D6(6/6)	STORM DRAINAGE STRUCTURE	排水施設構造図
1-D7(1/2), 1-D7(2/2)	REINFORCEMENT OF PRECAST CONCRETE COVERS	プレキャストコンクリート蓋配筋図
1-D8(1/85)~1-D8(85/85)	REINFORCEMENT OF RC DITCH/CULVERT	RC側溝/カルバート配筋図
1-D9(1/29), 1-D9(2/29)	INDEX PLAN FOR STORM DRAINAGE INTERSECTION STRUCTURES	排水施設平面図
1-D9(3/29)~1-D9(29/29)	DETAILS OF STORM DRAINAGE INTERSECTION STRUCTURES	接続部詳細図
1-D10	DETAILS OF CAST GRATINGS	グレーチング蓋詳細図
1-D11	REINFORCEMENT FOR TURNING OF TYPE 2 RC DITCH	RC水路(TYPE2)交差部配筋図
1-D12	DETAILS OF STEEL RAILING STRUCTURES	鋼鉄製柵構造詳細図
1-D13(1/2), 1-D13(2/2)	STORM DRAINAGE QUANTITIES	排水溝数量集計表
1-B1	A-AREA: MOLDING DRAWING	A地区排水ポンプ場 構造平面図
1-B2	A-AREA: SECTIONS (1-1~4-4) OF MOLDING DRAWING	A地区排水ポンプ場 構造断面図
1-B3	A-AREA: BASEBOARD REINFORCEMENT DRAWING	A地区排水ポンプ場 配筋図(1)
1-B4	A-AREA: WALL REINFORCEMENT DRAWING	A地区排水ポンプ場 配筋図(2)
1-B5	A-AREA: HEADSLAB REINFORCEMENT DRAWING	A地区排水ポンプ場 配筋図(3)
1-B6	A-AREA: NORTH DRAINAGE PUMP STATION SUBSTATION STRUCTURE DESIGN	A地区排水ポンプ場 梁及び基礎リスト
1-B7	B-AREA: MOLDING DRAWING	B地区排水ポンプ場 構造平面図
1-B8	B-AREA: SECTIONS (1-1~4-4) OF MOLDING DRAWING	B地区排水ポンプ場 構造断面図
1-B9	B-AREA: BASEBOARD REINFORCEMENT DRAWING	B地区排水ポンプ場 配筋図(1)
1-B10	B-AREA: WALL REINFORCEMENT DRAWING	B地区排水ポンプ場 配筋図(2)
1-B11	B-AREA: HEADSLAB REINFORCEMENT DRAWING	B地区排水ポンプ場 配筋図(3)
1-B12	B-AREA: SOUTH DRAINAGE PUMP STATION SUBSTATION STRUCTURE DESIGN	B地区排水ポンプ場 梁及び基礎リスト

# DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

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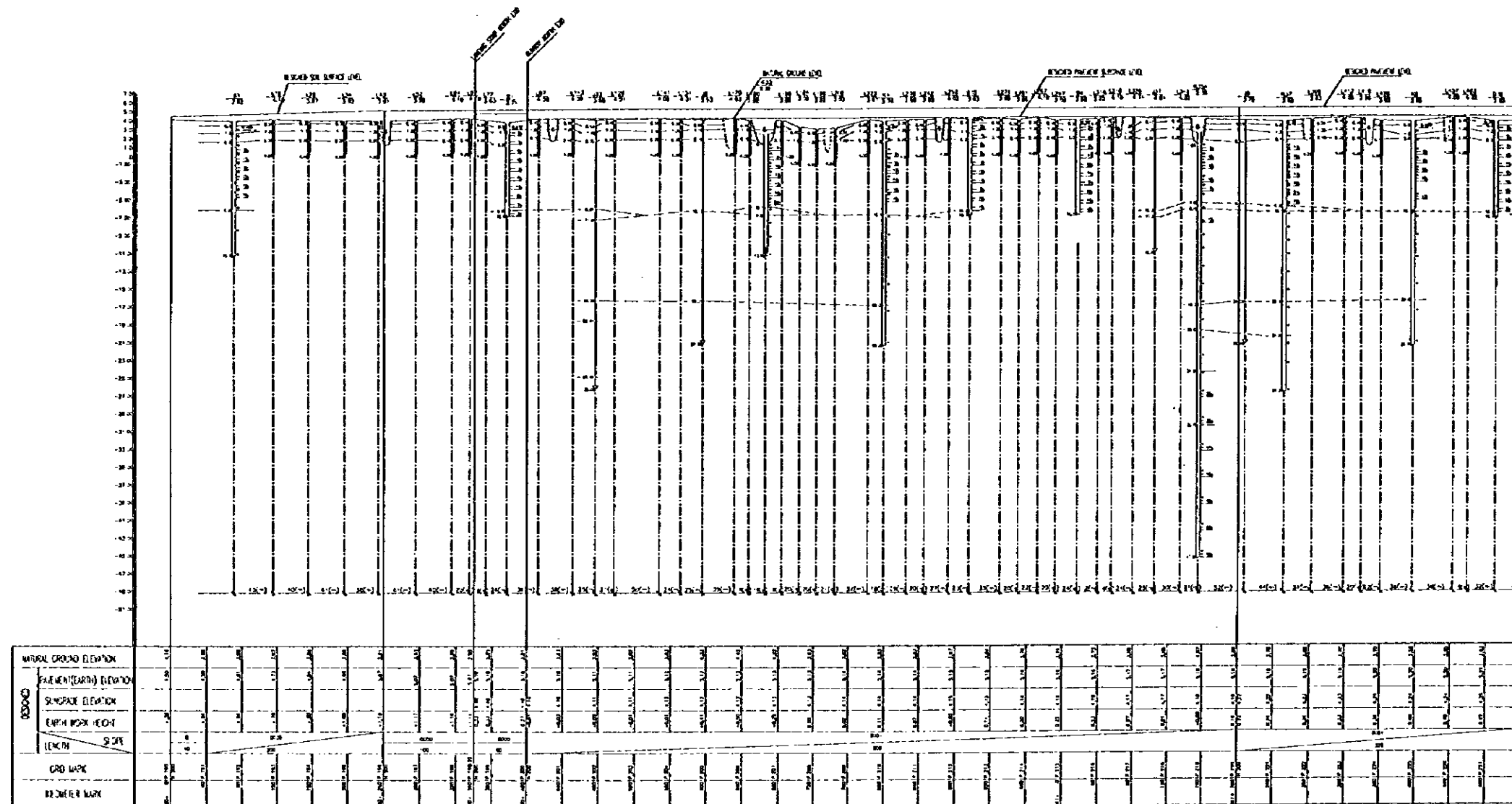
## Airside Civil Works (2/2)

DWG No.	TITLE	題 目
1-A1	A-AREA DRAINAGE PUMP STATION FINISHING TECHNICAL SPECIFICATIONS	A地区排水ポンプ場 電気室仕上仕様書
1-A2	A-AREA DRAINAGE PUMP STATION DETAIL	A地区排水ポンプ場 電気室平面図
1-A3	B-AREA DRAINAGE PUMP STATION FINISHING TECHNICAL SPECIFICATIONS	B地区排水ポンプ場 電気室仕上仕様書
1-A4	B-AREA DRAINAGE PUMP STATION DETAIL	B地区排水ポンプ場 電気室平面図
1-M1	A-AREA DRAINAGE PUMP STATION PLAN	A地区排水ポンプ場 機器配置平面図
1-M2	A-AREA DRAINAGE PUMP STATION CUTAWAY	A地区排水ポンプ場 機器配置断面図
1-M3	B-AREA DRAINAGE PUMP STATION PLAN	B地区排水ポンプ場 機器配置平面図
1-M4	B-AREA DRAINAGE PUMP STATION CUTAWAY	B地区排水ポンプ場 機器配置断面図
1-E1	A,B-AREA DRAINAGE PUMP STATION HIGH-VOLTAGE (10KV) POWER SUPPLY SYSTEM	A,B地区排水ポンプ場 高圧単線結線図
1-E2	A,B-AREA DRAINAGE PUMP STATION LOW-VOLTAGE (400V) POWER SUPPLY SYSTEM	A,B地区排水ポンプ場 低圧単線結線図
1-E3	A,B-AREA DRAINAGE PUMP STATION AUXILIARY WIRING PLAN	A,B地区排水ポンプ場 補助配線計画図
1-E4	A,B-AREA DRAINAGE PUMP STATION POWER RECEIVING AND DISTRIBUTION FACILITIES LAYOUT PLAN	A,B地区排水ポンプ場 受電及び配電計画図
1-E5	A,B-AREA DRAINAGE PUMP STATION LIGHTING PLAN	A,B地区排水ポンプ場 照明等計画図
1-E6	A,B-AREA DRAINAGE PUMP STATION LIGHTING DISCHARGE AND GROUND PLAN	A,B地区排水ポンプ場 避雷等アース計画図
1-E7	A,B-AREA DRAINAGE PUMP STATION POWER DISTRIBUTION LAYOUT PLAN	A,B地区排水ポンプ場 配線平面計画図
1-P1(1/2), P1(2/2)	AIRFIELD PLAN	飛行区計画平面図
1-P2(1/3)~P2(3/3)	PAVEMENT PLAN MEASUREMENT DRAWING	舗装計画平面図
1-P3(1/2), P1(2/2)	PLAN FOR PAVEMENT STRUCTURE	舗装種別平面図
1-P4(1/8)~P4(8/8)	MARKING DETAILS	マーキング詳細図
1-P5(1/2), P5(2/2)	PAVEMENT STRUCTURE DRAWING	舗装構造図
1-P6	PAVEMENT JOINT DRAWING	舗装目地構造図
1-P7	REINFORCEMENT STANDARD FOR CONCRETE SLAB	標準コンクリート版鉄網図
1-P8	PAVEMENT FLAT JOINT REINFORCEMENT DRAWING	舗装目地配筋図
1-P9	PAVEMENT SLAB REINFORCEMENT DRAWING AT RC DITCH WITH COVERS AT APRON	エプロン排水溝蓋(RC)配筋図
1-P10(0/23)	ILLUSTRATION AND LEGEND OF PAVEMENT SLAB SEPARATION DESIGN	目地割説明図
1-P10(1/23)~P10(23/23)	PLANNING HEIGHTS OF CONCRETE PAVEMENT	コンクリート舗装計画平面図
1-P11(1/23)~P11(23/23)	ARRANGEMENT OF JOINTS OF CONCRETE PAVEMENT	コンクリート舗装目地配筋図
1-P12	REINFORCEMENT STANDARD FOR LIGHTING FACILITIES	灯火施設標準配筋図
1-P13	STANDARD DETAILS FOR EARTHING	アースリング標準詳細図
1-P14	STANDARD DETAILS FOR ANCHOR	アンカー標準詳細図
1-P15	DETAILS FOR REINFORCEMENT OF ANCHOR BEAM	地中梁詳細図
1-P16	PLAN OF ARRANGEMENT FOR GROOVING AND BRUSH FINISH	グルーピング平面図
1-P17	REINFORCEMENT STANDARD FOR HYDRANT PIT	ハイドランドピット標準配筋図
1-P18	QUANTITIES OF PAVEMENT	舗装数量集計表
1-R1(1/2), 1-R1(2/2)	PLAN FOR SUPPLEMENT FACILITIES OF AIRFIELD	飛行区付帯施設平面図
1-R2	CROSS SECTION OF SUPPLEMENT FACILITIES OF AIRFIELD	飛行区舗装道路断面図
1-R3(1/2), 1-R3(2/2)	PLAN FOR ROAD PAVEMENT OF AIRFIELD	飛行区付帯施設断面図
1-R4	SERVICE ROAD STRUCTURE DRAWING OF AIRFIELD	場周・保安道路構造図
1-R5-01~1-R5-12	ROAD PROFILE	道路縦断面図
1-R6	HEIGHT DESIGN OF SERVICE ROAD INTERSECTION OF AIRFIELD	飛行区場周・保安道路交差部計画平面図
1-R7	STANDARD DETAILS FOR STEEL FENCE	鋼製場周柵標準詳細図
1-R8	BRICK FENCE STRUCTURE DRAWING	レンガ柵構造図
1-R9	FENCE GATE STRUCTURE DRAWING	門扉構造図
1-R10	PLAN OF BLAST FENCE	プラスチックフェンス平面図
1-R11(1/3)~1-R11(3/3)	STRUCTURE OF BLAST FENCE	プラスチックフェンス構造図
1-R12	MAIN QUANTITIES OF SUPPLEMENT FACILITIES OF AIRFIELD	飛行区付帯施設数量集計表

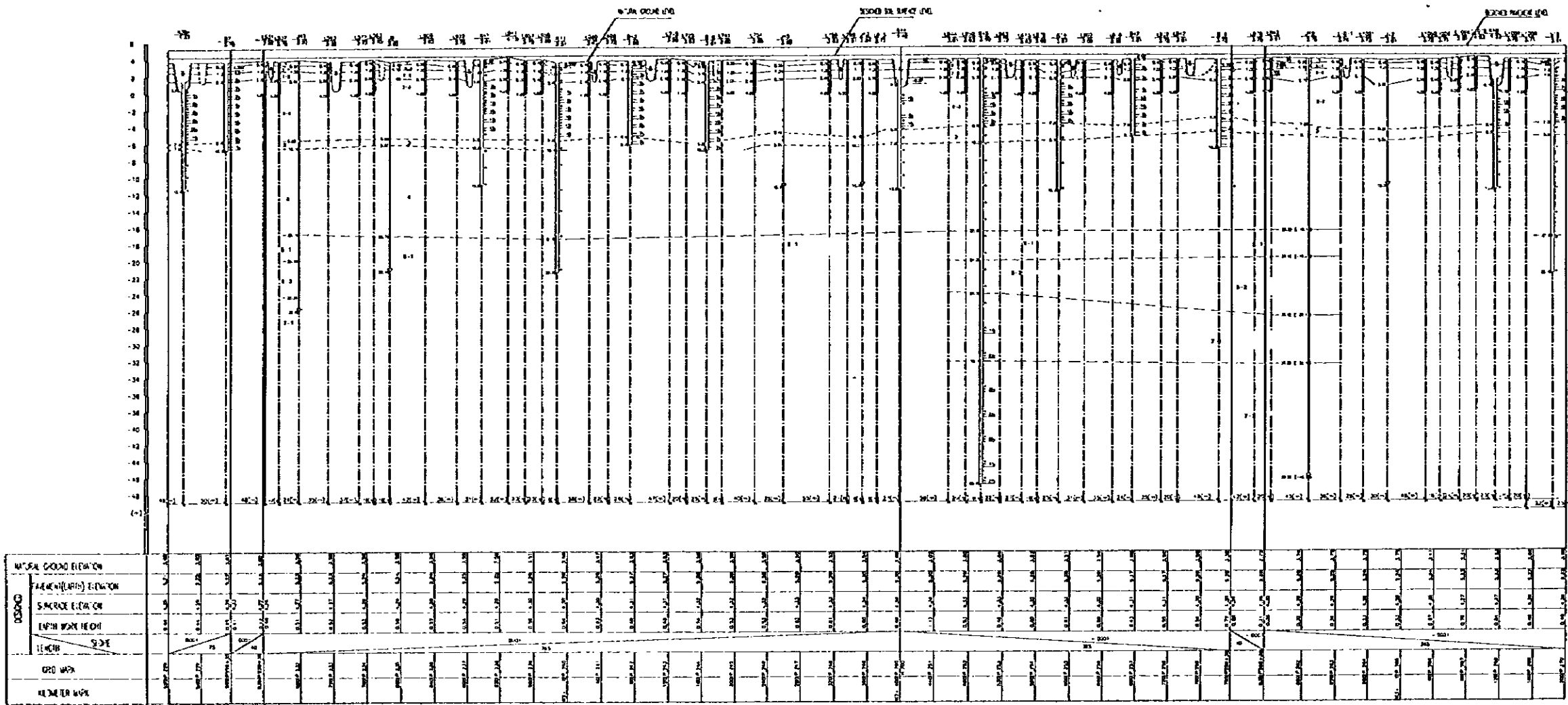


PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT		SEPTEMBER 1997
AIRFIELD TOPOGRAPHY PLAN		
SCALE	$1:2000$	DWG1-C1
JAPAN INTERNATIONAL COOPERATION AGENCY		

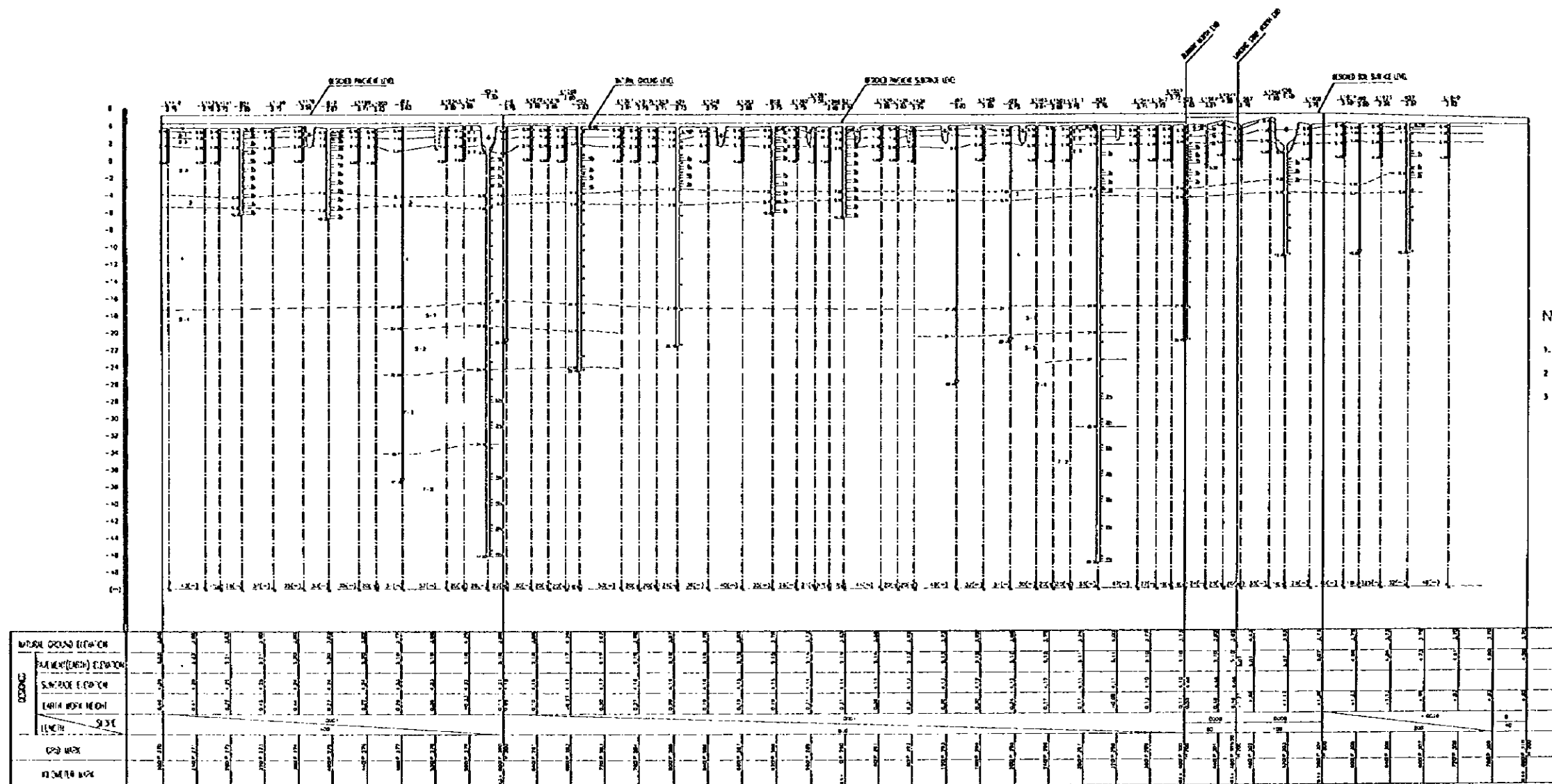




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 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997  
 RUNWAY CENTER LINE PROFILE  
 SCALE: H=1:3000    V=1:300    DWG1-C2(1/3)  
 JAPAN INTERNATIONAL COOPERATION AGENCY



PEOPLE'S REPUBLIC OF CHINA  
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997  
 RUNWAY CENTER LINE PROFILE  
 SCALE H=1:3000 V=1:300 DWG-C2(2/3)  
 JAPAN INTERNATIONAL COOPERATION AGENCY

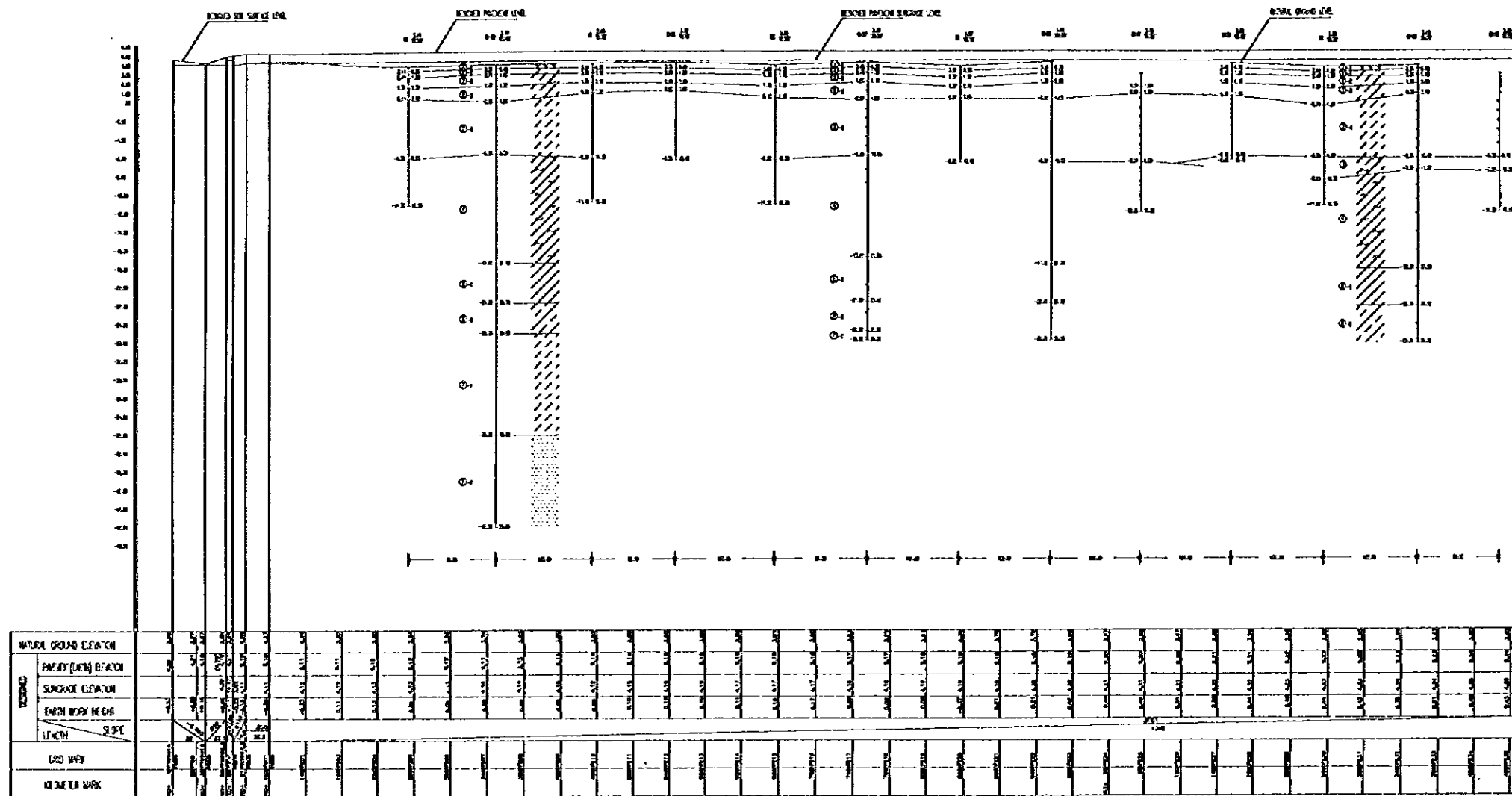


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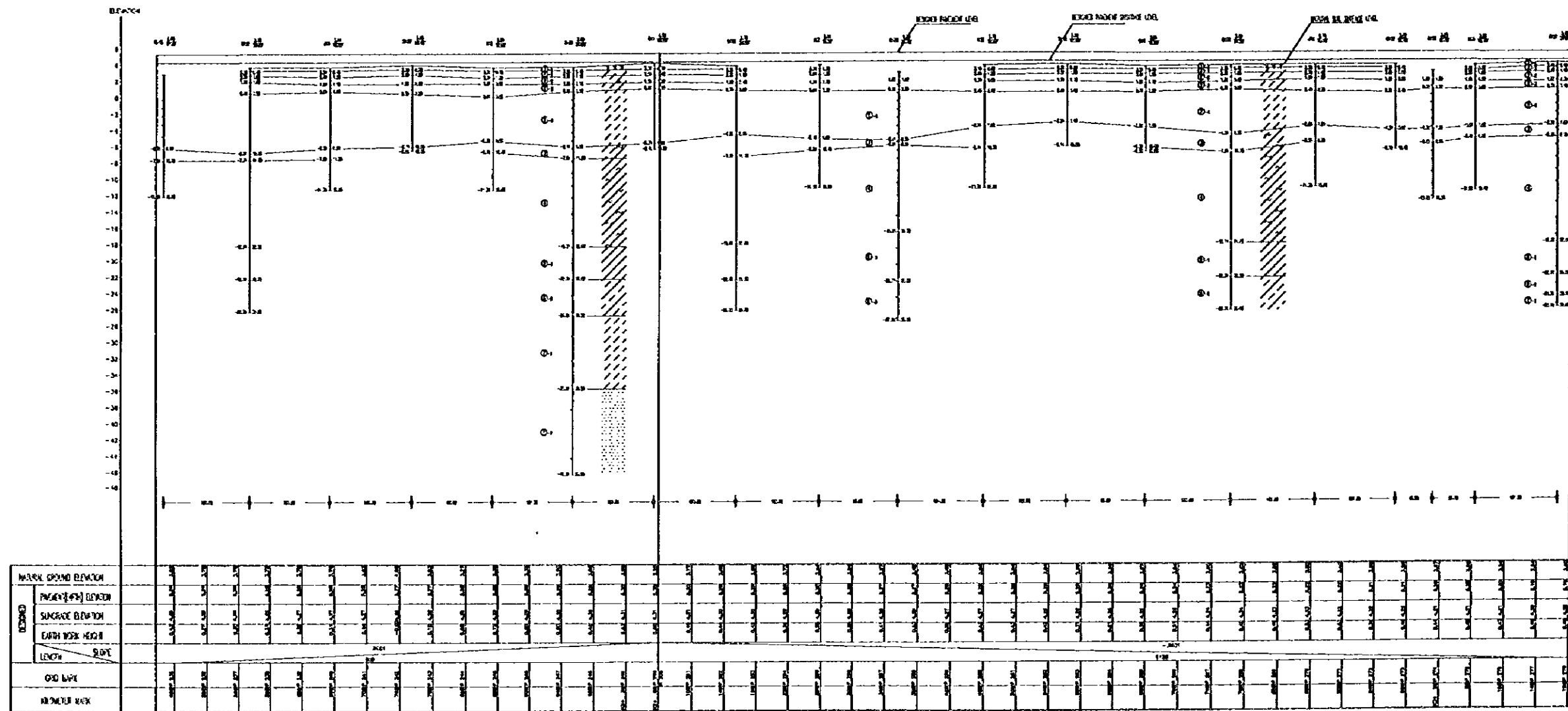
- 1. Unit : meter.
- 2. Elevation system of Wu Song mouth has been provided.
- 3. Original surface elevation was based on 40m x 40m grid elevation surveyed by Shanghai surveying institute and interpolated.

STATION	ORIGINAL GROUND ELEVATION	PAVEMENT (CONC) ELEVATION	SUBGRADE ELEVATION	EARTH WORK HEIGHT	LENGTH	SLOPE
0+00	1.50	1.50	1.50	0.00	0.00	
0+10	1.50	1.50	1.50	0.00	0.00	
0+20	1.50	1.50	1.50	0.00	0.00	
0+30	1.50	1.50	1.50	0.00	0.00	
0+40	1.50	1.50	1.50	0.00	0.00	
0+50	1.50	1.50	1.50	0.00	0.00	
0+60	1.50	1.50	1.50	0.00	0.00	
0+70	1.50	1.50	1.50	0.00	0.00	
0+80	1.50	1.50	1.50	0.00	0.00	
0+90	1.50	1.50	1.50	0.00	0.00	
1+00	1.50	1.50	1.50	0.00	0.00	
1+10	1.50	1.50	1.50	0.00	0.00	
1+20	1.50	1.50	1.50	0.00	0.00	
1+30	1.50	1.50	1.50	0.00	0.00	
1+40	1.50	1.50	1.50	0.00	0.00	
1+50	1.50	1.50	1.50	0.00	0.00	
1+60	1.50	1.50	1.50	0.00	0.00	
1+70	1.50	1.50	1.50	0.00	0.00	
1+80	1.50	1.50	1.50	0.00	0.00	
1+90	1.50	1.50	1.50	0.00	0.00	
2+00	1.50	1.50	1.50	0.00	0.00	
2+10	1.50	1.50	1.50	0.00	0.00	
2+20	1.50	1.50	1.50	0.00	0.00	
2+30	1.50	1.50	1.50	0.00	0.00	
2+40	1.50	1.50	1.50	0.00	0.00	
2+50	1.50	1.50	1.50	0.00	0.00	
2+60	1.50	1.50	1.50	0.00	0.00	
2+70	1.50	1.50	1.50	0.00	0.00	
2+80	1.50	1.50	1.50	0.00	0.00	
2+90	1.50	1.50	1.50	0.00	0.00	
3+00	1.50	1.50	1.50	0.00	0.00	
3+10	1.50	1.50	1.50	0.00	0.00	
3+20	1.50	1.50	1.50	0.00	0.00	
3+30	1.50	1.50	1.50	0.00	0.00	
3+40	1.50	1.50	1.50	0.00	0.00	
3+50	1.50	1.50	1.50	0.00	0.00	
3+60	1.50	1.50	1.50	0.00	0.00	
3+70	1.50	1.50	1.50	0.00	0.00	
3+80	1.50	1.50	1.50	0.00	0.00	
3+90	1.50	1.50	1.50	0.00	0.00	
4+00	1.50	1.50	1.50	0.00	0.00	

PEOPLE'S REPUBLIC OF CHINA			
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT   SEPTEMBER 1997			
RUNWAY CENTER LINE PROFILE			
SCALE	H=1:3000	Y=1:300	CWG1-C2(3/3)
JAPAN INTERNATIONAL COOPERATION AGENCY			

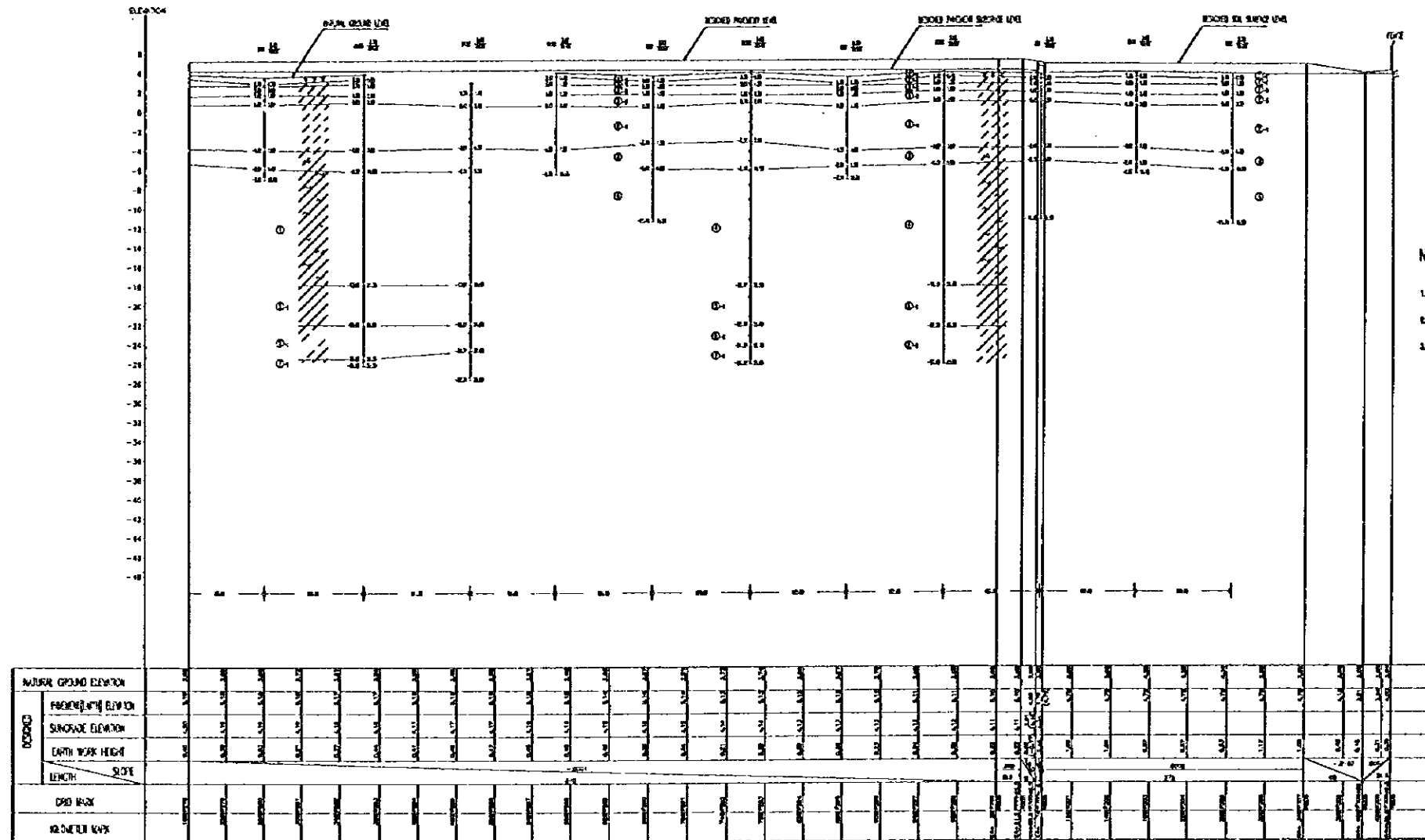


PEOPLE'S REPUBLIC OF CHINA  
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997  
 PARALLEL TAXIWAY CENTER LINE PROFILE  
 SCALE H=1:3000 V=1:300 DWG1-CJ(1/3)  
 JAPAN INTERNATIONAL COOPERATION AGENCY



ELEVATION	MARK POINT ELEVATION		PROPOSED ELEVATION		SURFACE ELEVATION		DRAIN DECK ELEVATION		LENGTH	GRADE	OLD DATA	NEW DATA
	MARK POINT	ELEVATION	MARK POINT	ELEVATION	MARK POINT	ELEVATION	MARK POINT	ELEVATION				
0												
-1												
-2												
-3												
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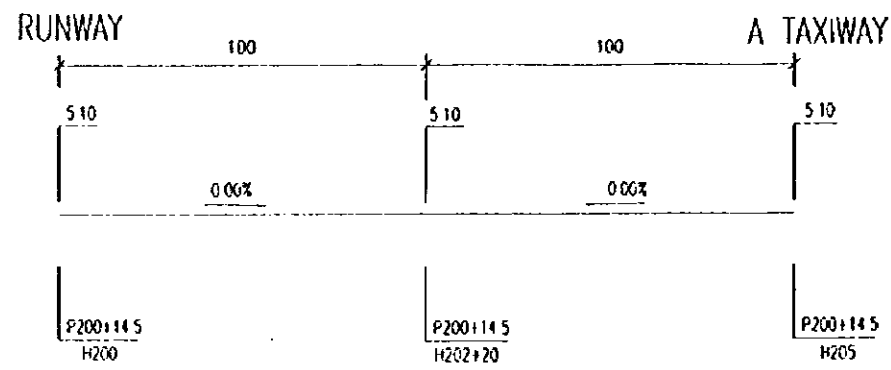
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 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997  
 PARALLEL TAXIWAY CENTER LINE PROFILE  
 SCALE H=1:3000 V=1:300 DWG1-C3(2/3)  
 JAPAN INTERNATIONAL COOPERATION AGENCY



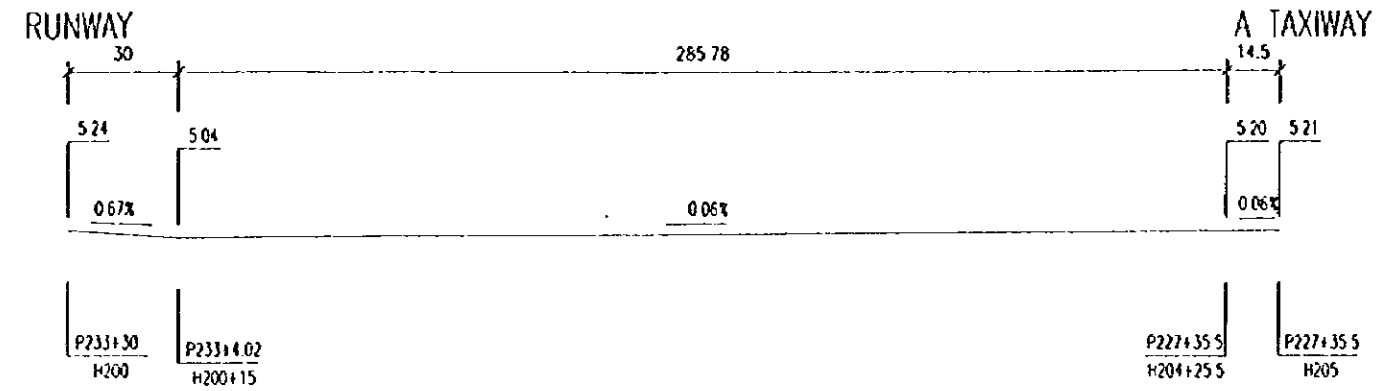
NOTE :

1. Unit : meter.
2. Elevation system of Wu Song mouth has been provided.
3. Original surface elevation was based on 40m x 40m grid elevation surveyed by Shanghai surveying institute and interpolated.

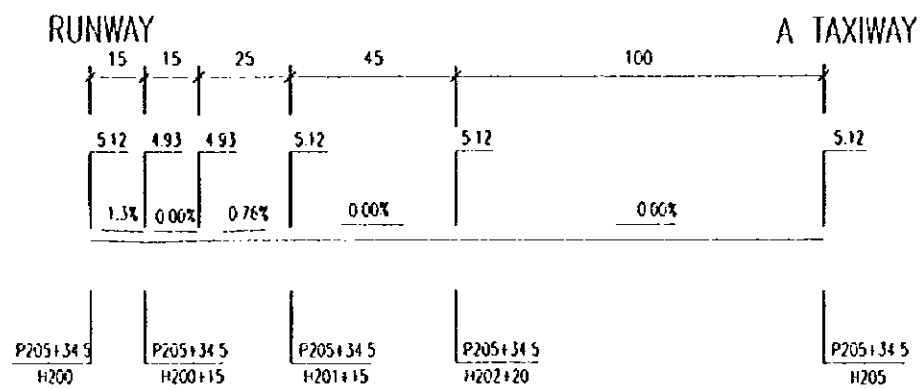
PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUODONG INTERNATIONAL AIRPORT PROJECT		SEPTEMBER 1997
PARALLEL TAXIWAY CENTER LINE PROFILE		
SCALE	H=1:3000	V=1:300
		DWG1-C3(3/3)
JAPAN INTERNATIONAL COOPERATION AGENCY		



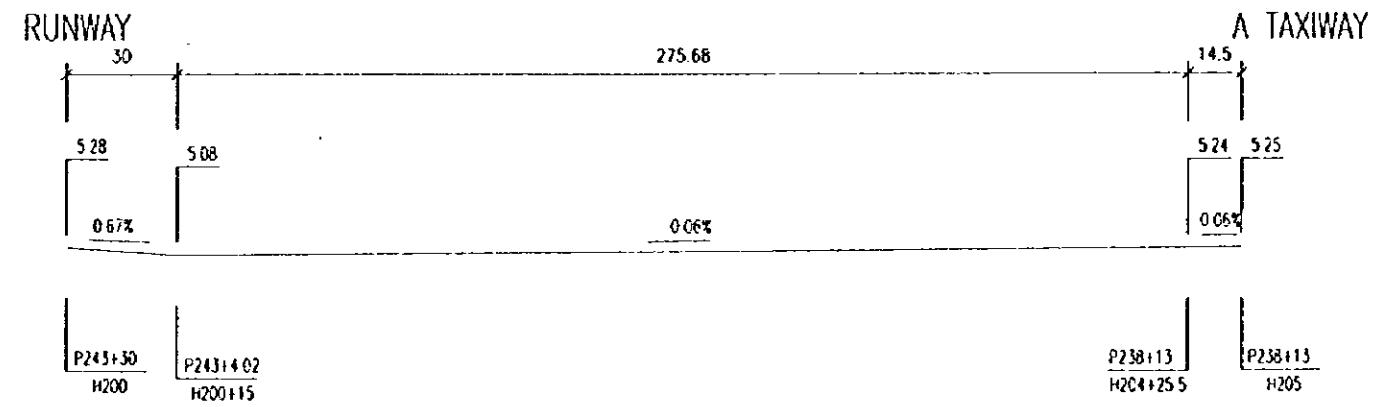
P TAXIWAY



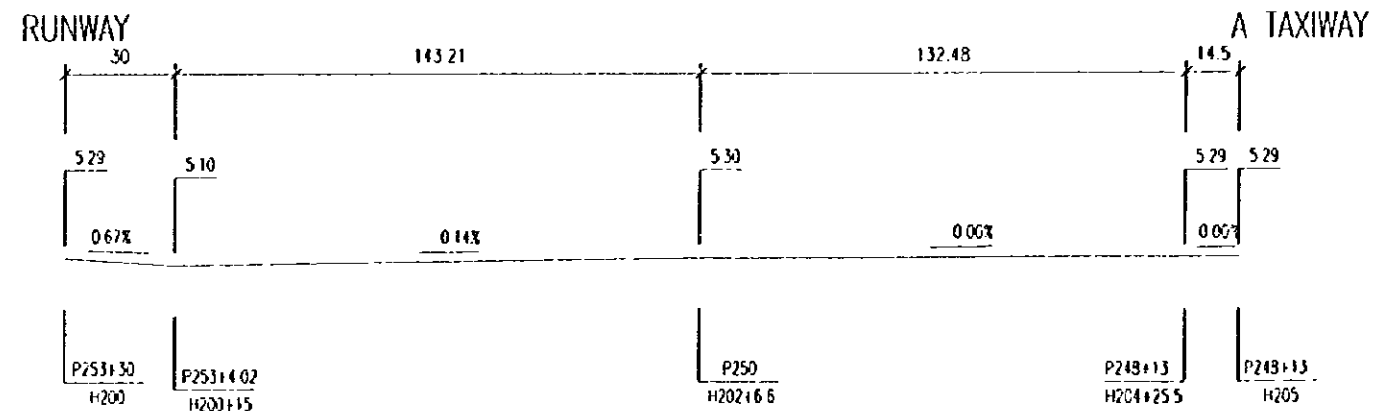
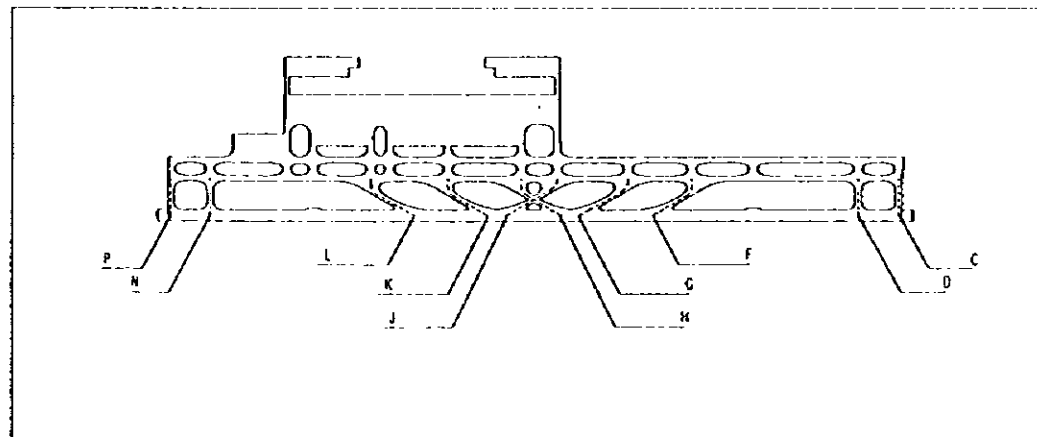
L TAXIWAY



N TAXIWAY



K TAXIWAY

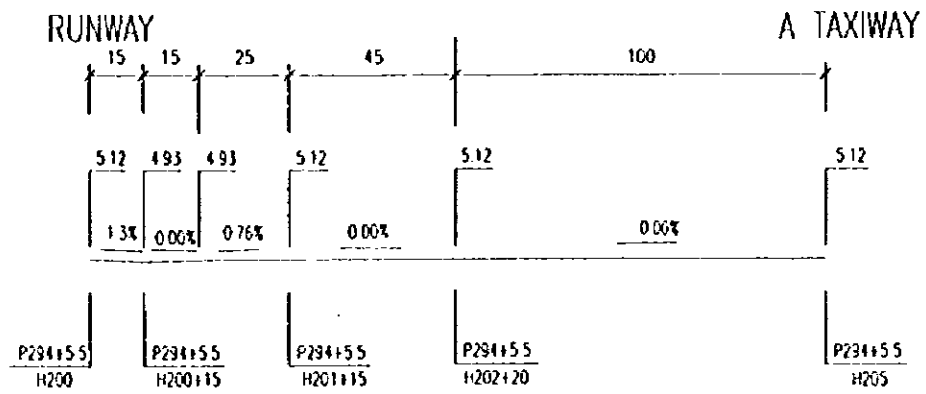


J TAXIWAY

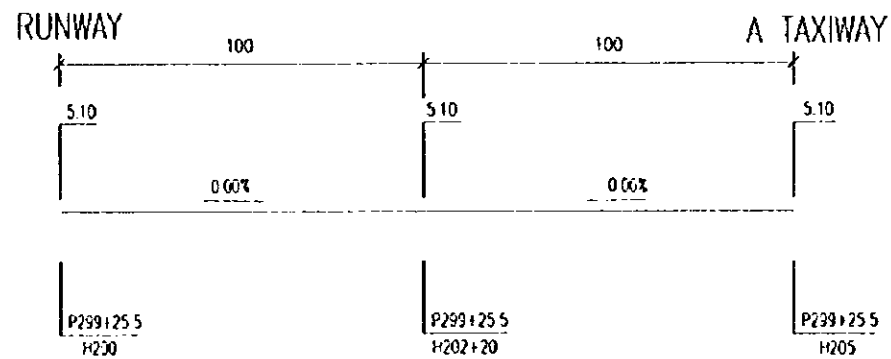
NOTE:

Unit : meter.

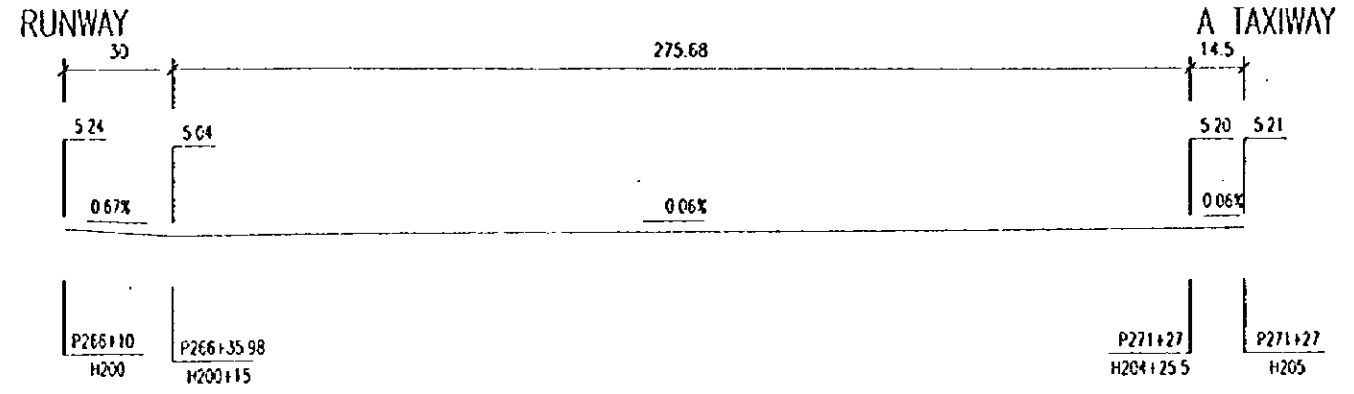
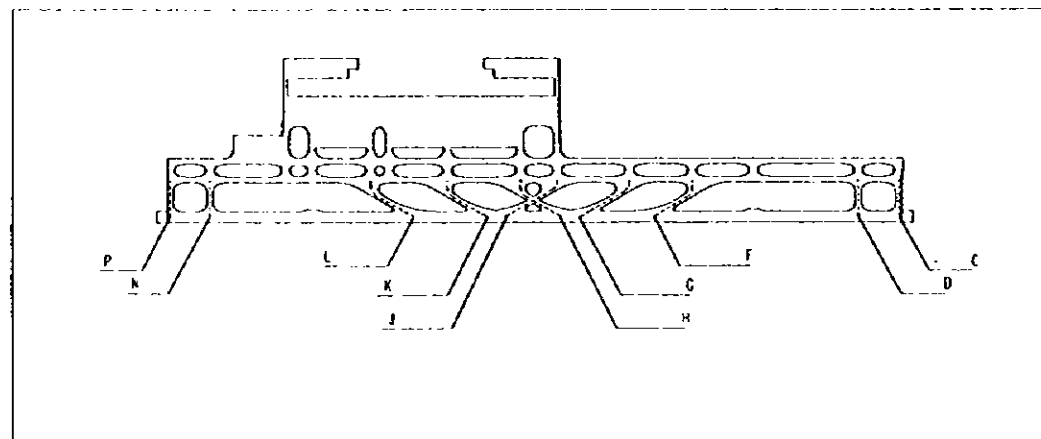
PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT		SEPTEMBER 1997
TAXIWAY CENTER LINE PROFILE		
SCALE	H=1:1000	V=1:100
		DWG1-C4(1/2)
JAPAN INTERNATIONAL COOPERATION AGENCY		



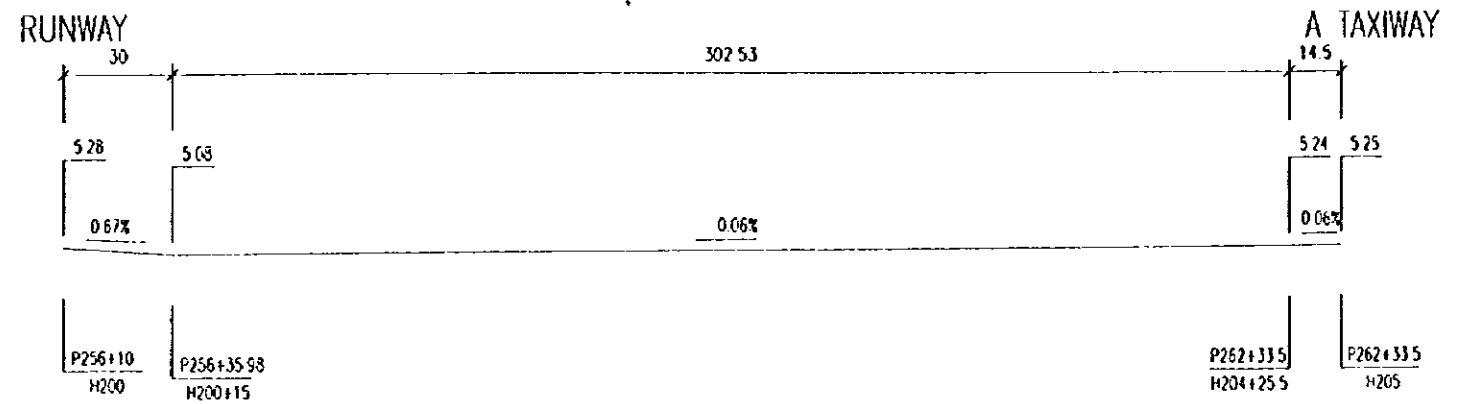
D TAXIWAY



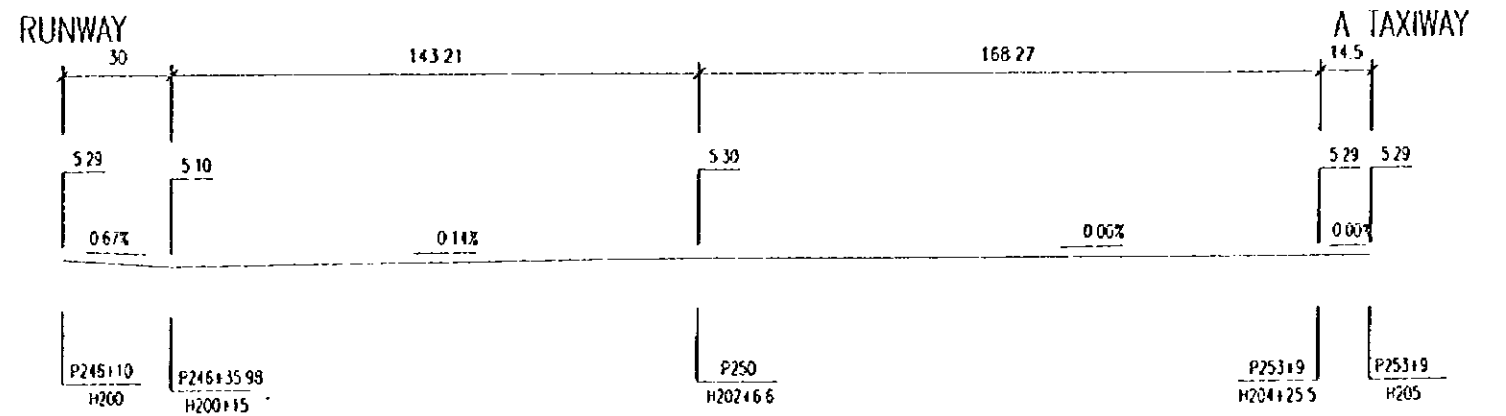
C TAXIWAY



F TAXIWAY



G TAXIWAY



H TAXIWAY

NOTE:  
Unit : meter.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
TAXIWAY CENTER LINE PROFILE	
SCALE	1:2000
DWG1-CA(2/2)	
JAPAN INTERNATIONAL COOPERATION AGENCY	





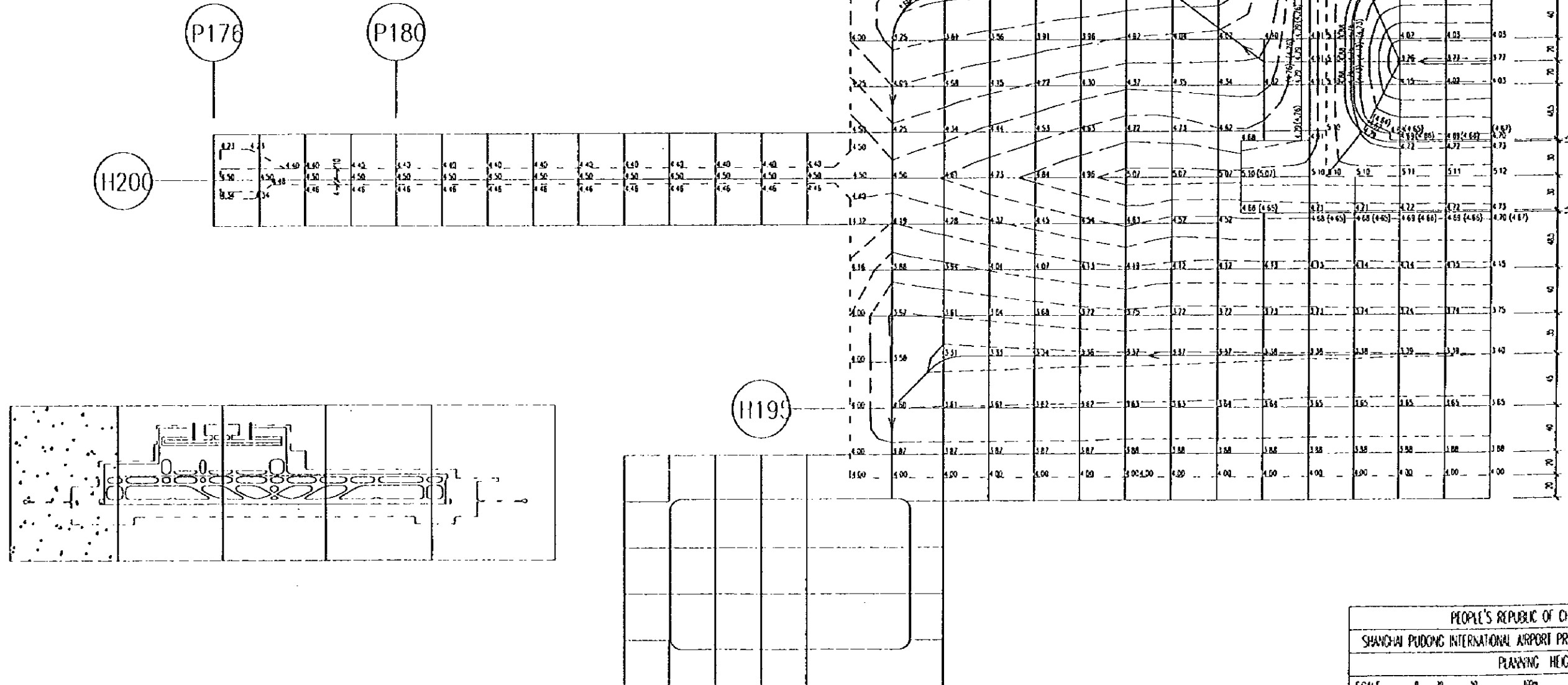


NOTE :

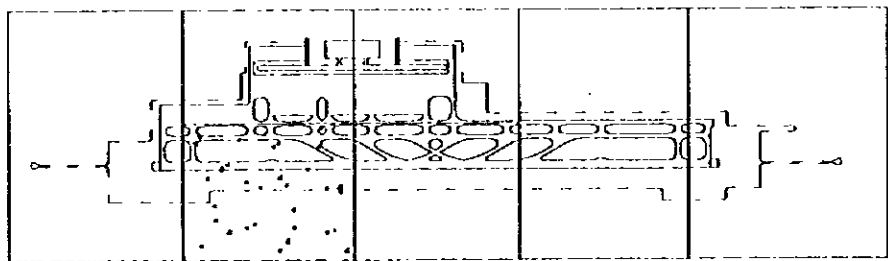
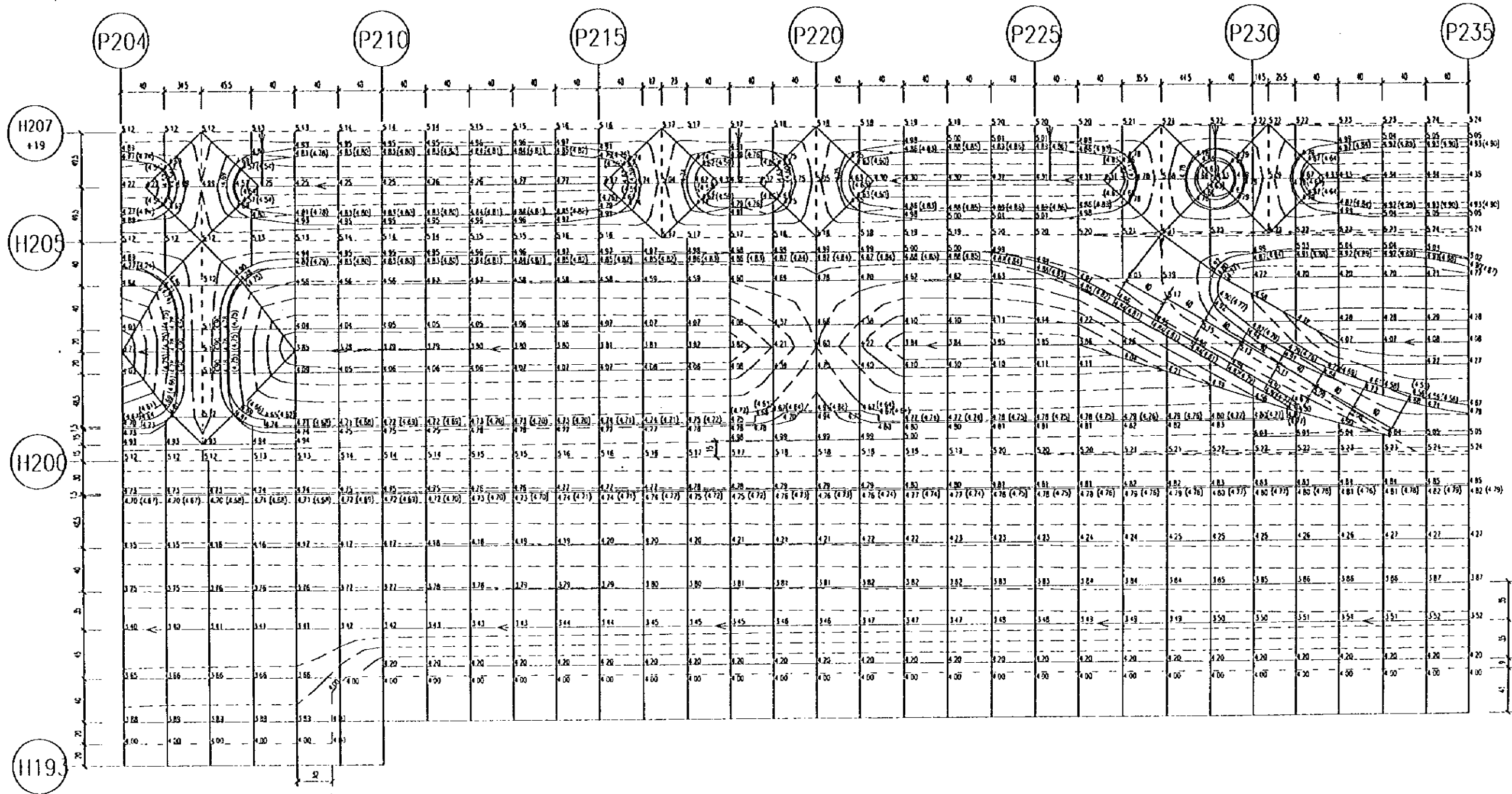
- Interval of designed contour is 0.20m.
- Elevation difference of connection place of soil surface and shoulder is 0.03m.
- When slope of soil surface is greater than 2% ,then grass cover shall be man made at the place.

4.LEGEND

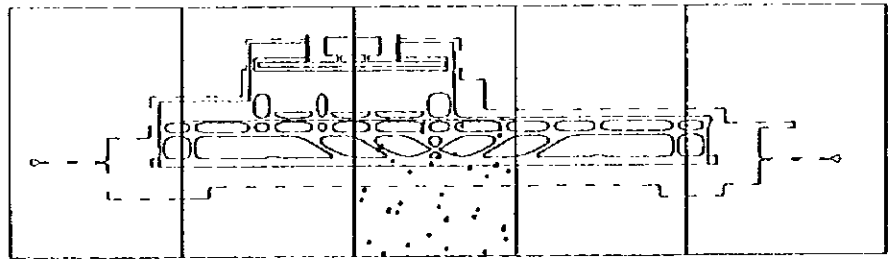
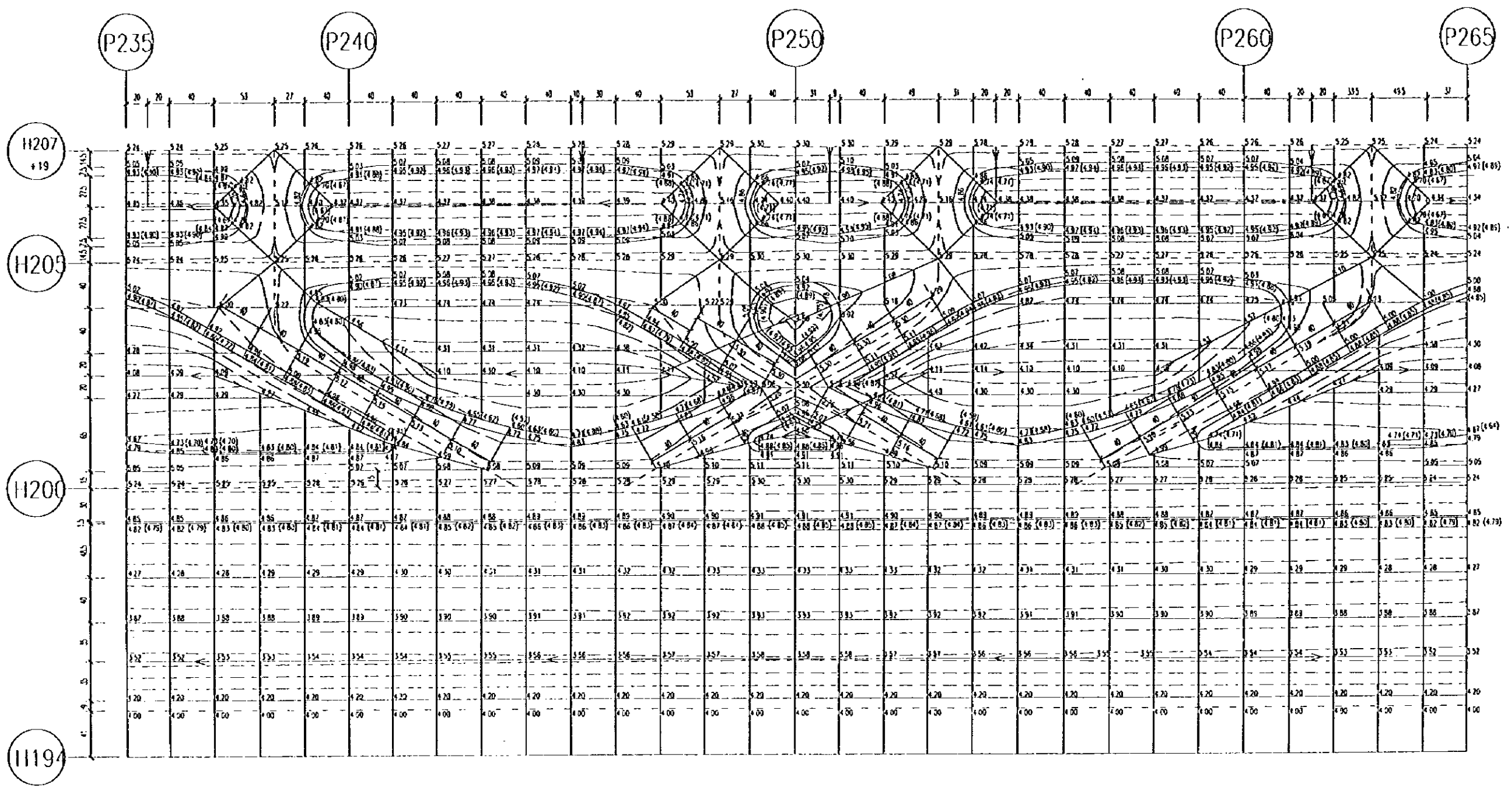
- designed edgeline of pavement
- designed edgeline of pavement shoulder
- center line of pavement
- designed contour line
- edge line of earth work
- drain



PEOPLE'S REPUBLIC OF CHINA  
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997  
 PLANNING HECHIS  
 SCALE 1:2000 DWG1-C6(1/1)  
 JAPAN INTERNATIONAL COOPERATION AGENCY



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT   SEPTEMBER 1997	
PLANNING HEIGHTS	
SCALE	DWG1-C6(2/1)
JAPAN INTERNATIONAL COOPERATION AGENCY	



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT   SEPTEMBER 1997	
SCALE	DWG1-C6(1/1)
JAPAN INTERNATIONAL COOPERATION AGENCY	

P265

P270

P275

P280

P285

P290

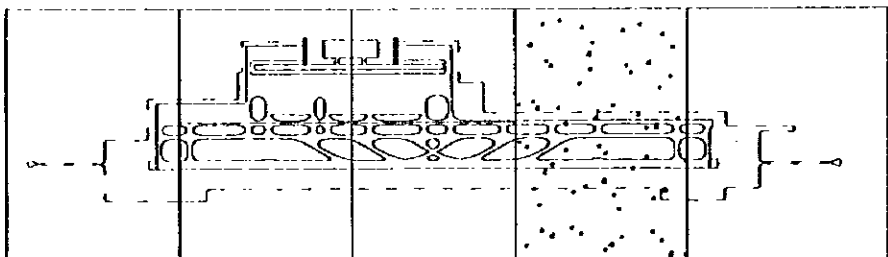
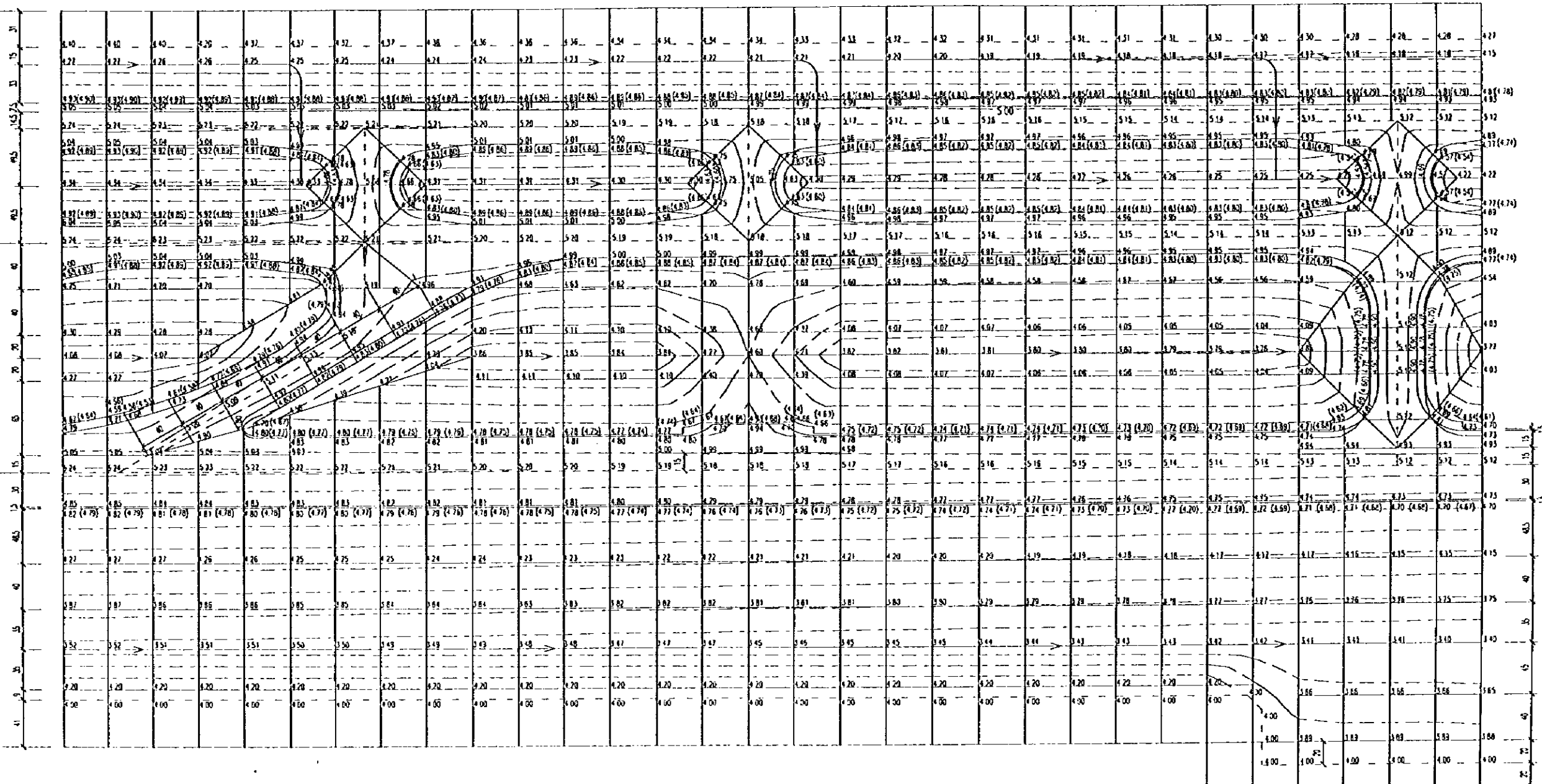
P296

H210

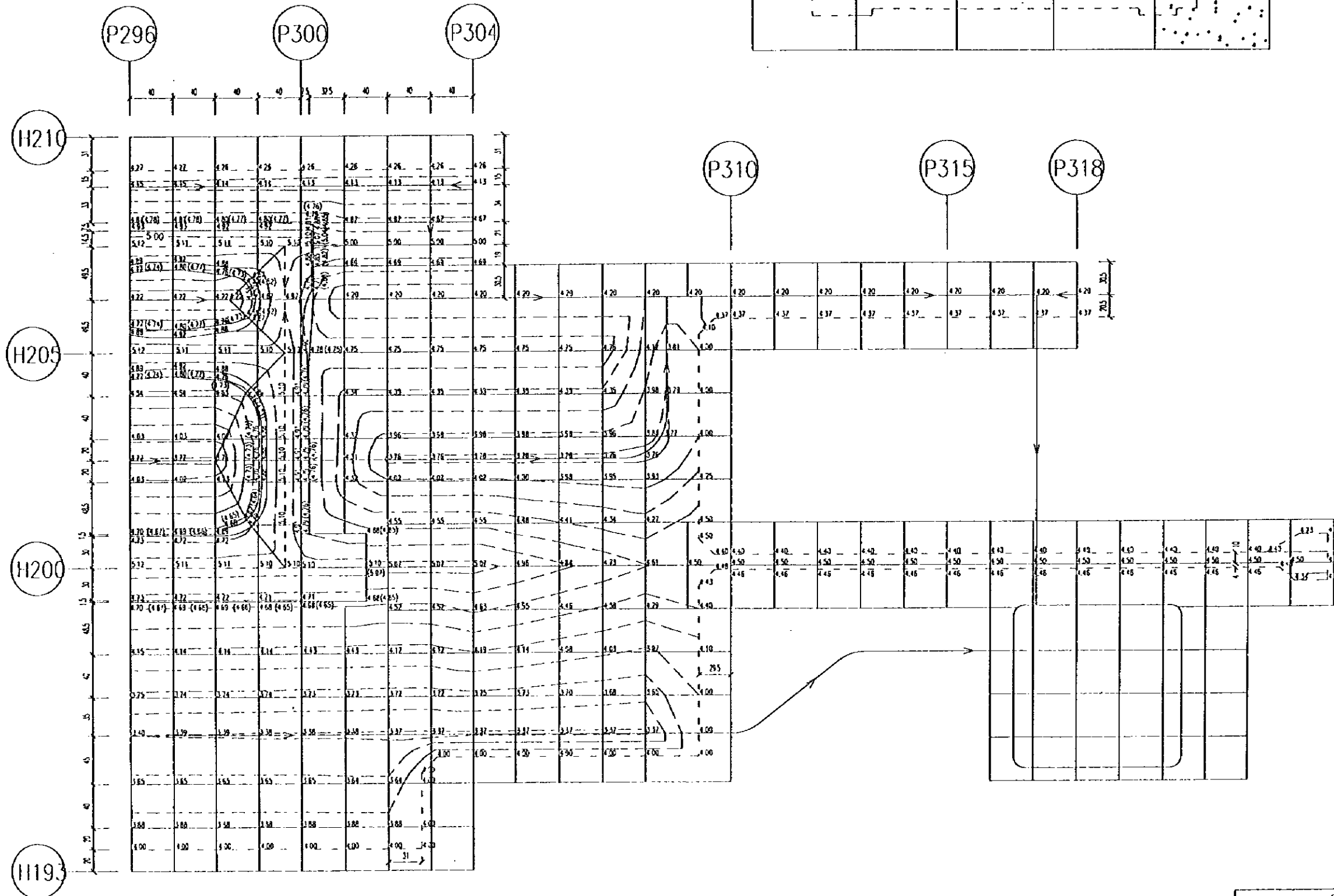
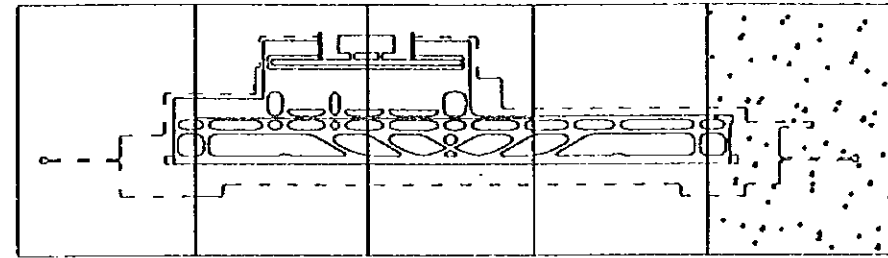
H205

H200

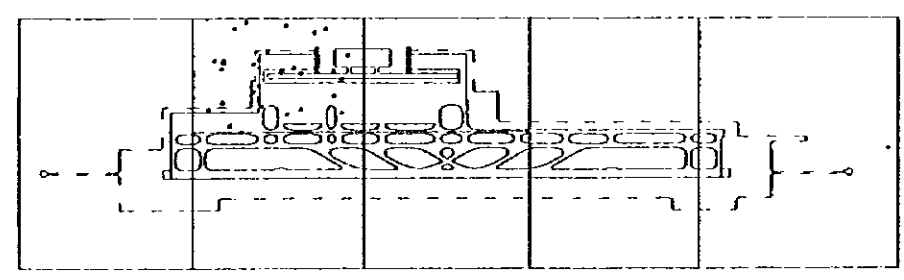
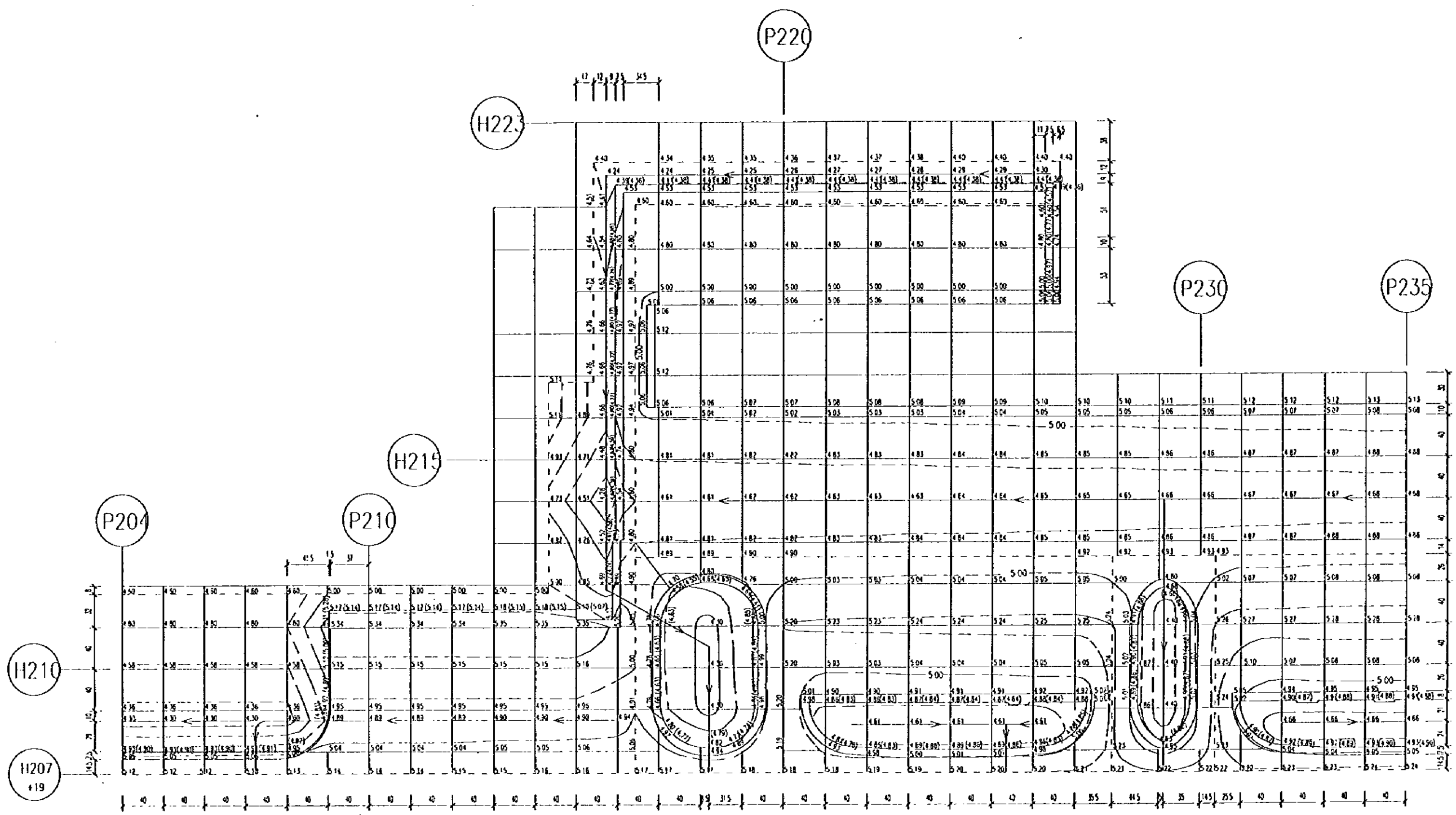
H194



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
PLANNING HEIGHTS	
SCALE	1:500
DWG1-CE(4/1)	
JAPAN INTERNATIONAL COOPERATION AGENCY	

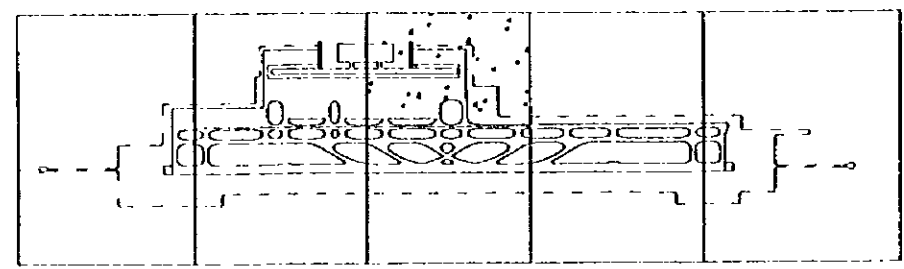
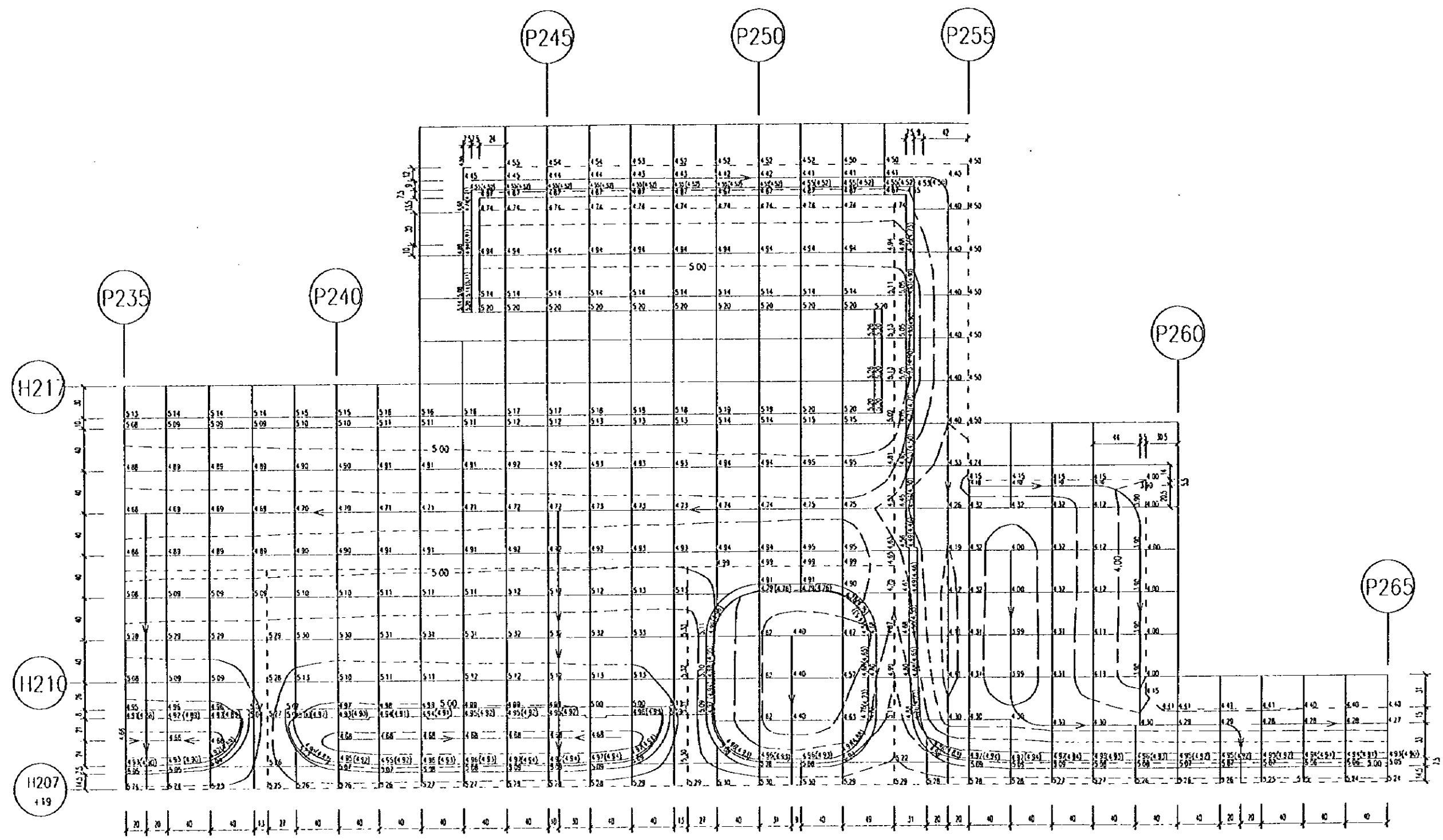


PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
PLANNING HEIGHTS	
SCALE	1:500
DWG1-CE(5/7)	
JAPAN INTERNATIONAL COOPERATION AGENCY	



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
PLANNING HEIGHTS	
SCALE	DWG1-C6(6/7)
JAPAN INTERNATIONAL COOPERATION AGENCY	





PEOPLE'S REPUBLIC OF CHINA  
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997  
 PLANNING HEIGHTS  
 SCALE DWG1-C6(1/1)  
 JAPAN INTERNATIONAL COOPERATION AGENCY

NOTE :

1. Grid mark arrangement is same with DWG1-P1
2. This drawing was designed according to 1:1000,40m x 40m original ground surface elevation drawing surveyed by Shanghai surveying institute in Aug.1956 Shanghai elevation system of Wo Song mouth was provided
3. Plan location of drains is detailed in DWG1-D3
 

Earth work height in pavement area = (designed elevation - thickness of pavement structure - nominal thickness of pad layer for forced compaction + compaction settlement) - (original ground surface elevation - cut organic soil thickness)

Earth work height in soil surface area = designed elevation - (original ground surface elevation - original ground surface compaction settlement)

Thickness of pavement structure is detailed in DWG1-P3

Forced compaction method shall be provided for foundation treatment for pavement area, westward from H206+95.080M

nominal thickness of pad layer for forced compaction shall be provided with compaction settlement 0.30M on pavement area, east ward from H206+95.

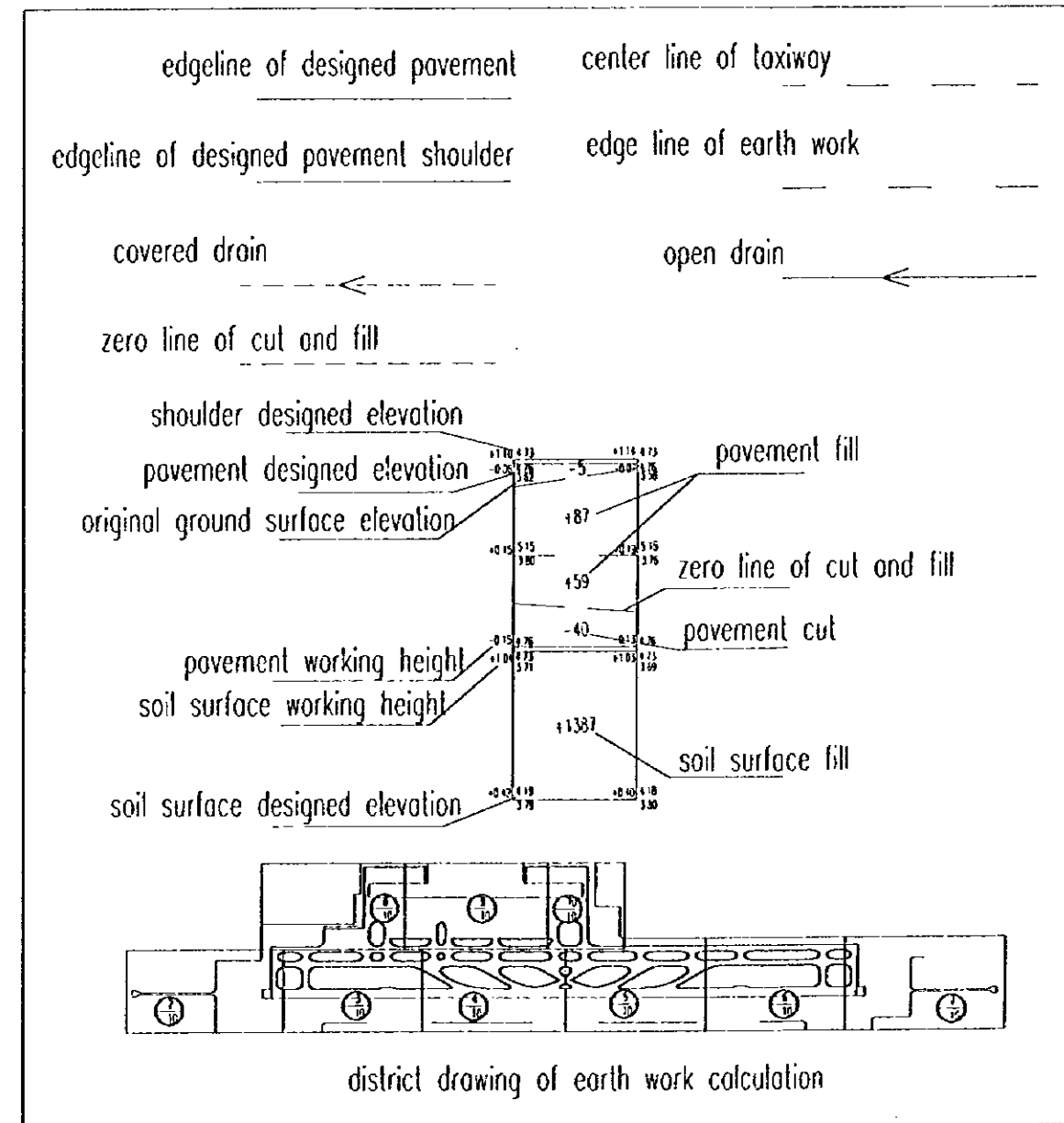
1.00M nominal thickness of pad layer for forced compaction shall be provided with compaction settlement 0.35 on pavement area

30cm organic soil shall be cut on pavement area

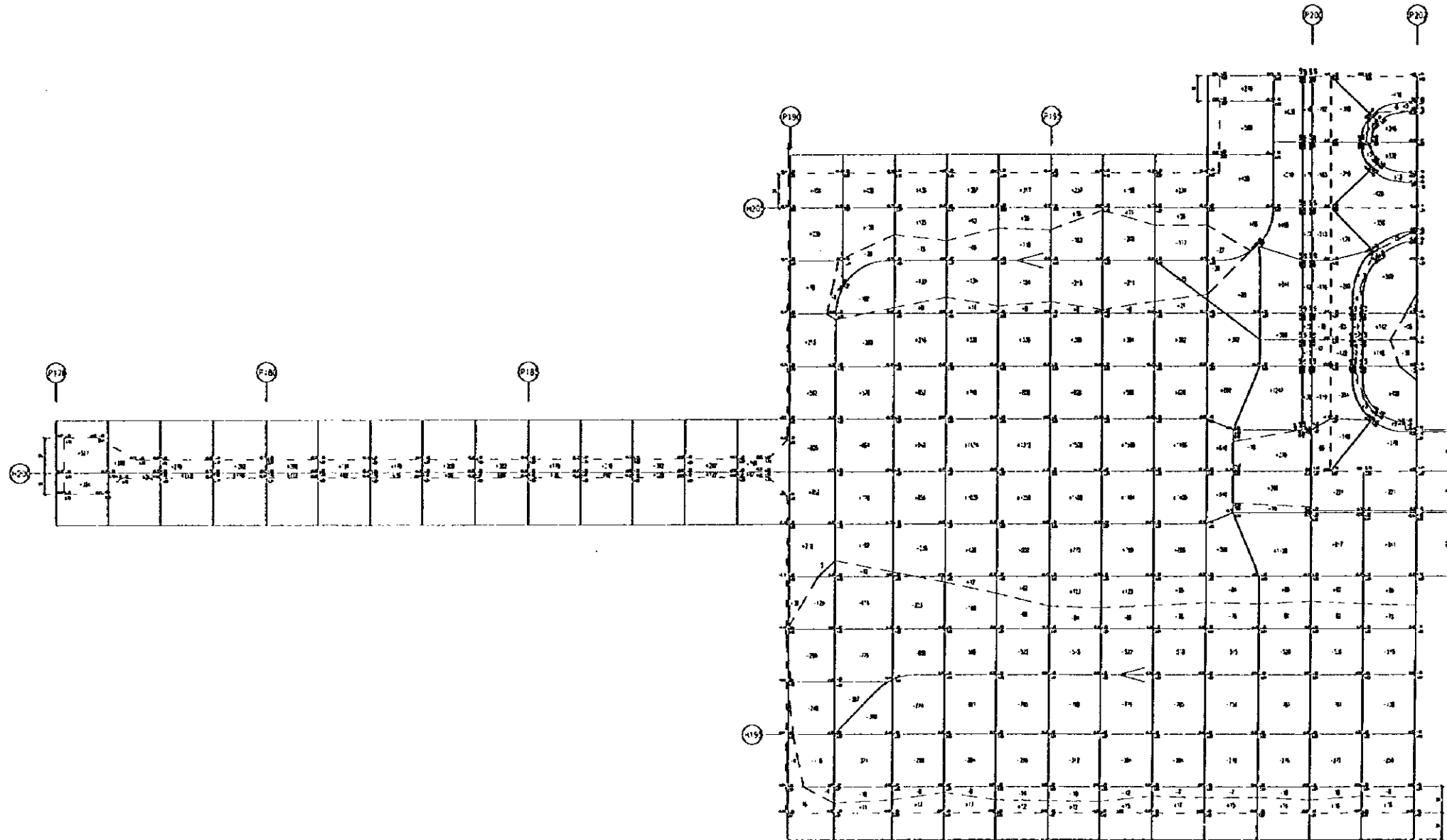
Original ground surface compaction settlement on soil surface area has been determined with 0.02m according to exploration report.
5. Minus value represents cut of earthwork ,plus value represents fill of earth work.
6. Drainage treatment shall be not included in working height and earthwork calculation, cut amount of organic soil, cut amount of people pool, net cut of drainage system, retilling engineering amount of drainage on soil surface area are detailed in DWG1-C8 ,net cut of drain system is shown in
7. Soil surface elevation shall be 3cm lower than adjacent shoulder elevation at connection place of soil surface with pavement shoulder.
8. Designed elevation in pavement area shall rely on pavement seperation elevation drawing , designed elevation in soil surface area shall rely on topography design drawing

11. fill amount in pavement area 256406 M<sup>3</sup>  
 cut amount in pavement area 135469 M<sup>3</sup>  
 fill amount in soil surface area 1080095 M<sup>3</sup>  
 cut amount in soil surface area 94461 M<sup>3</sup>

12. legend:

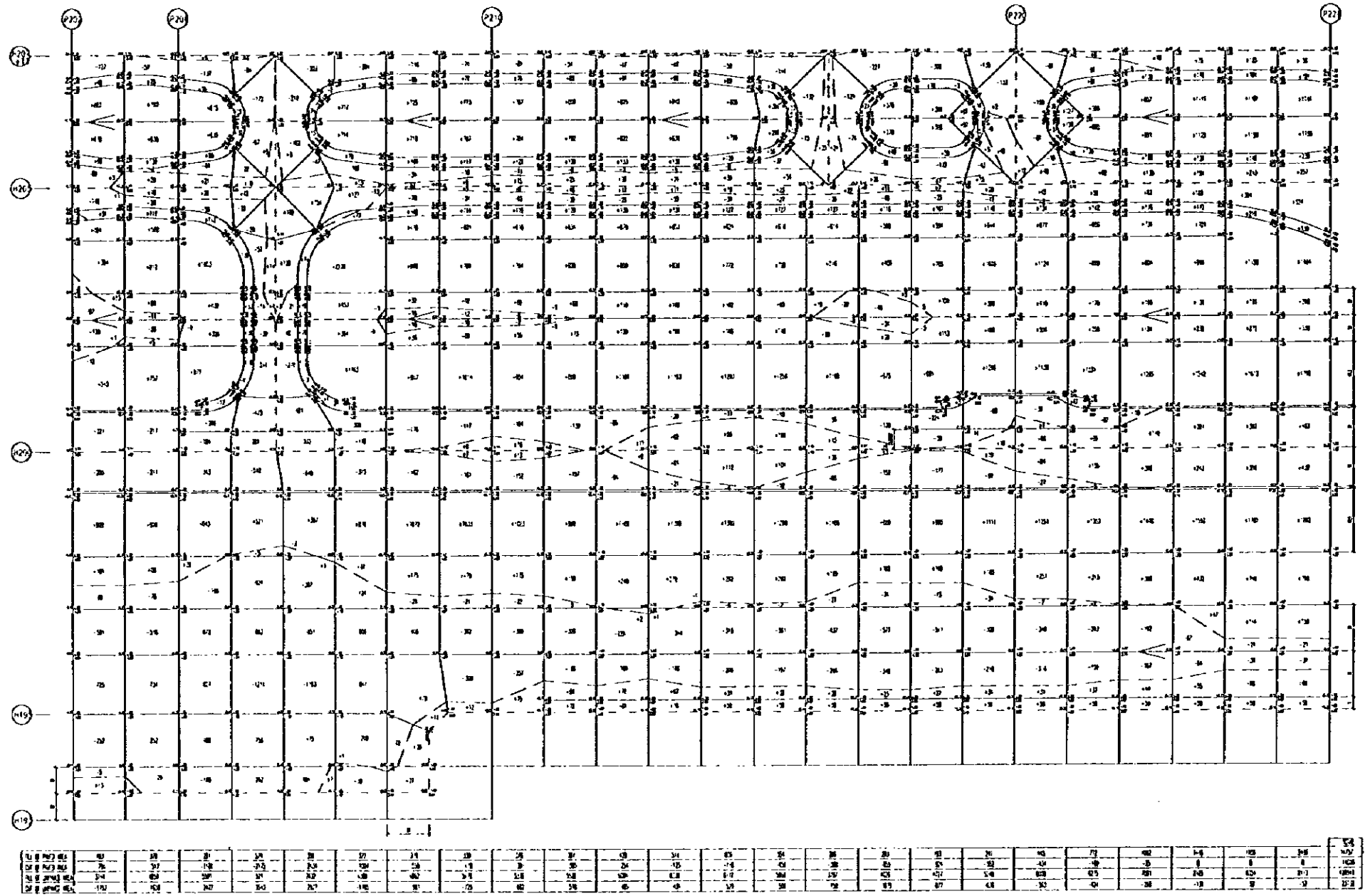


PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
CALCULATION CHART FOR EARTH VOLUME	
SCALE 1:1000	DWG1-C7(1/10)
JAPAN INTERNATIONAL COOPERATION AGENCY	



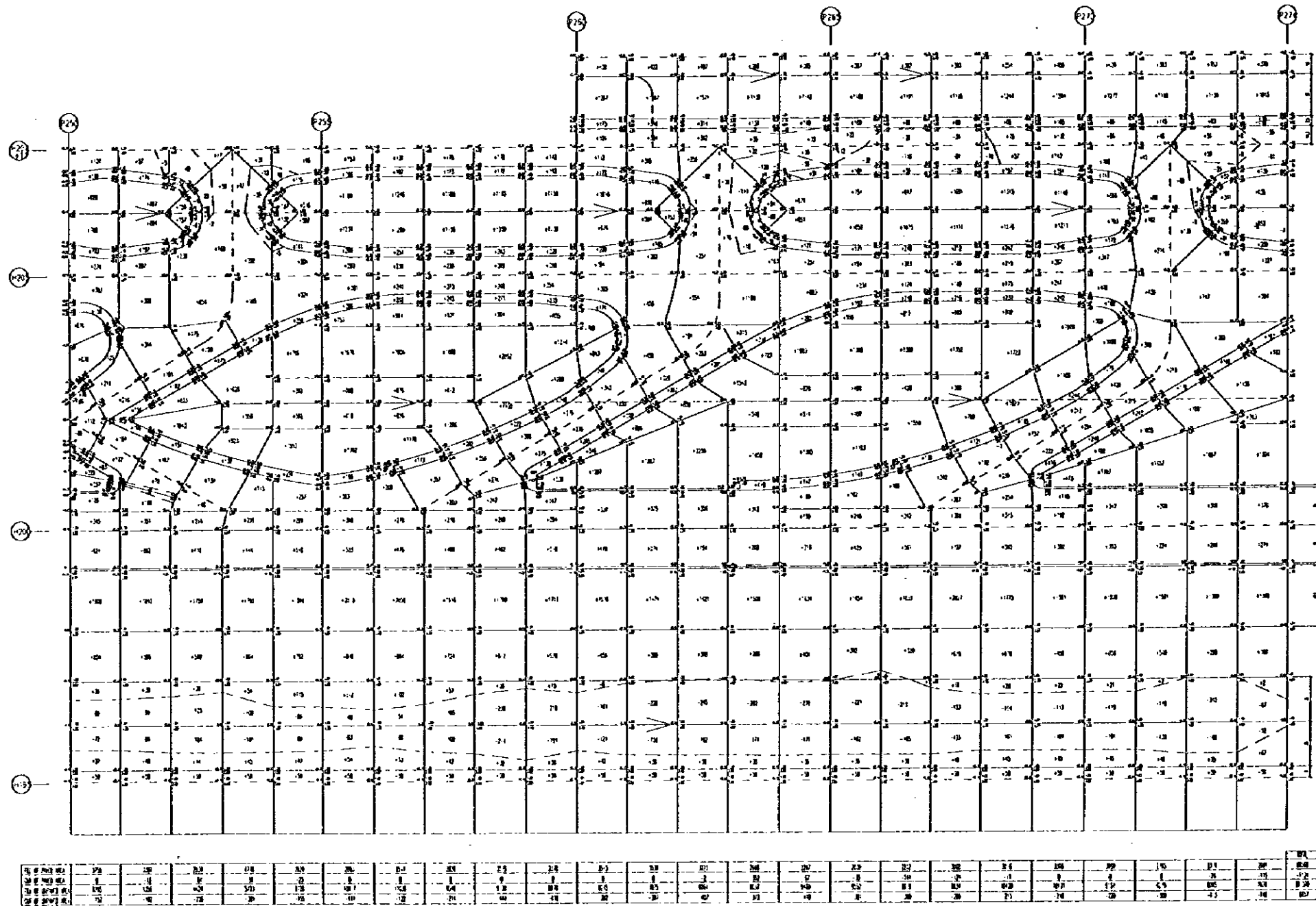
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

PEOPLE'S REPUBLIC OF CHINA  
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997  
 CALCULATION CHART FOR EARTH VOLUME  
 SCALE 1:1000 | DWG1-C7(2/10)  
 JAPAN INTERNATIONAL COOPERATION AGENCY

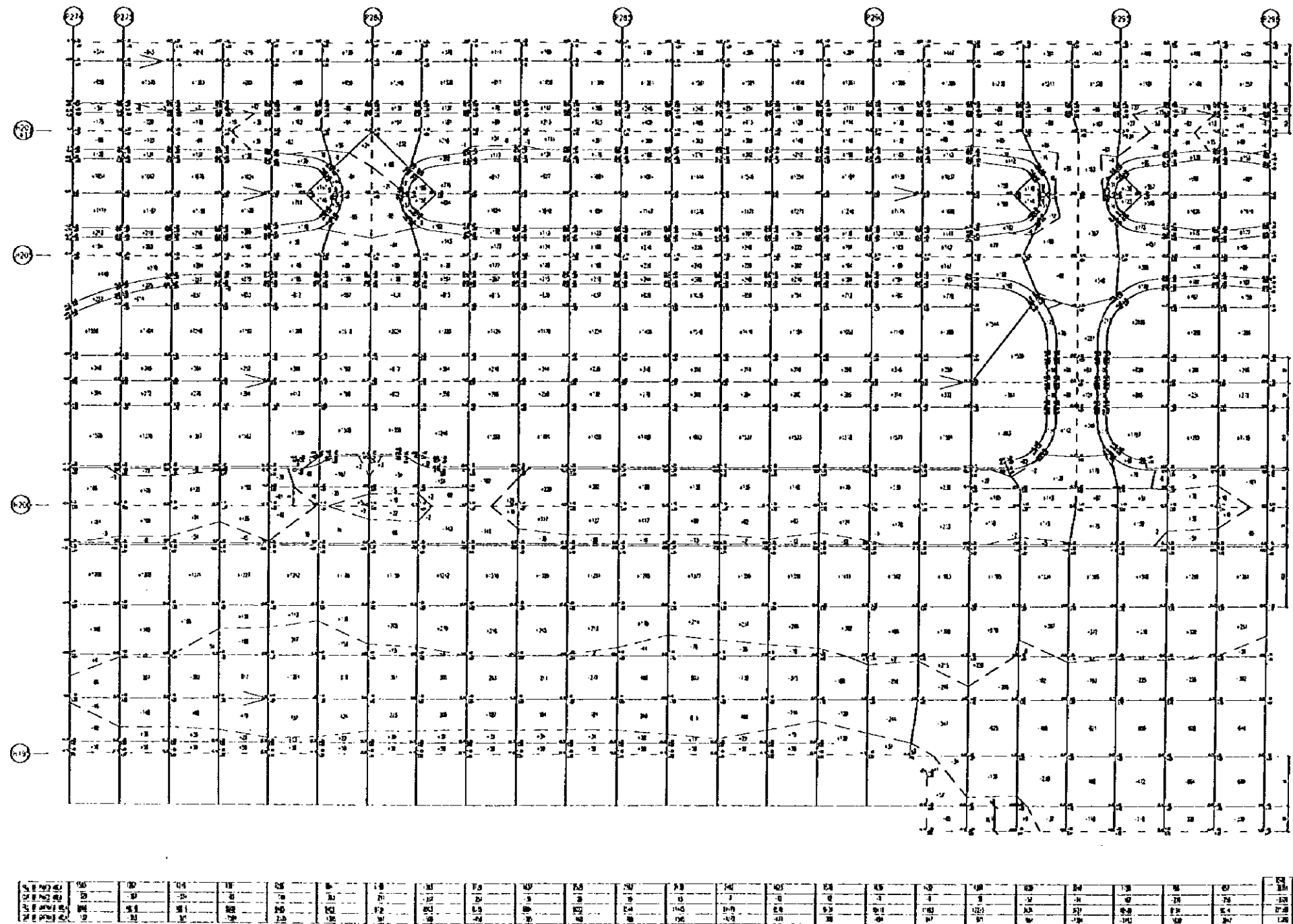


PEOPLE'S REPUBLIC OF CHINA  
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997  
 CALCULATION CHART FOR EARTH VOLUME  
 SCALE 1:1000  
 DWG1-C2(3/10)  
 JAPAN INTERNATIONAL COOPERATION AGENCY





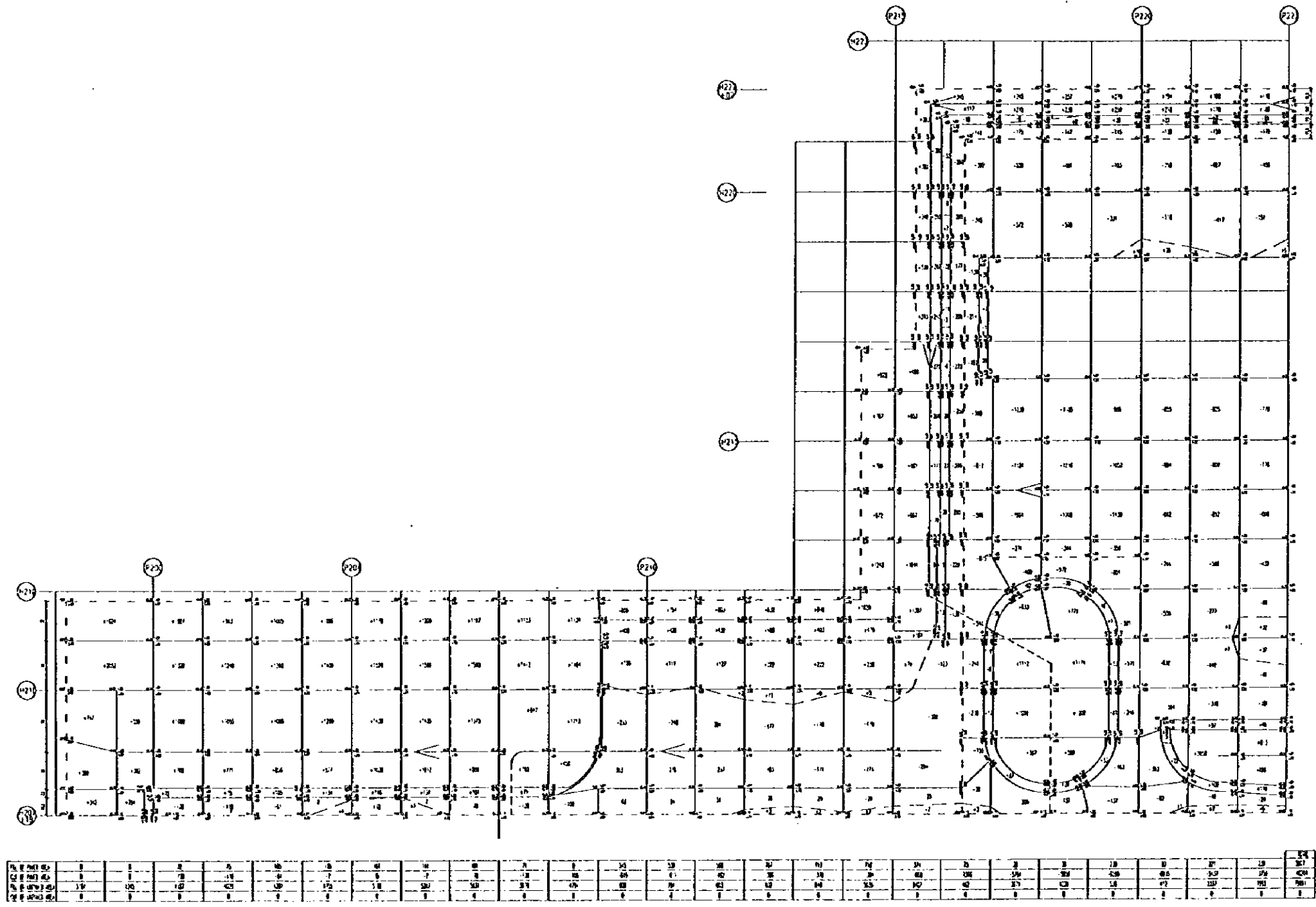
PEOPLE'S REPUBLIC OF CHINA  
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997  
 CALCULATION CHART FOR EARTH VOLUME  
 SCALE DWG-C7(5/10)  
 JAPAN INTERNATIONAL COOPERATION AGENCY



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
CALCULATION CHART FOR EARTH VOLUME	
SCALE	1:1000
DWG1-C7(6/10)	
JAPAN INTERNATIONAL COOPERATION AGENCY	

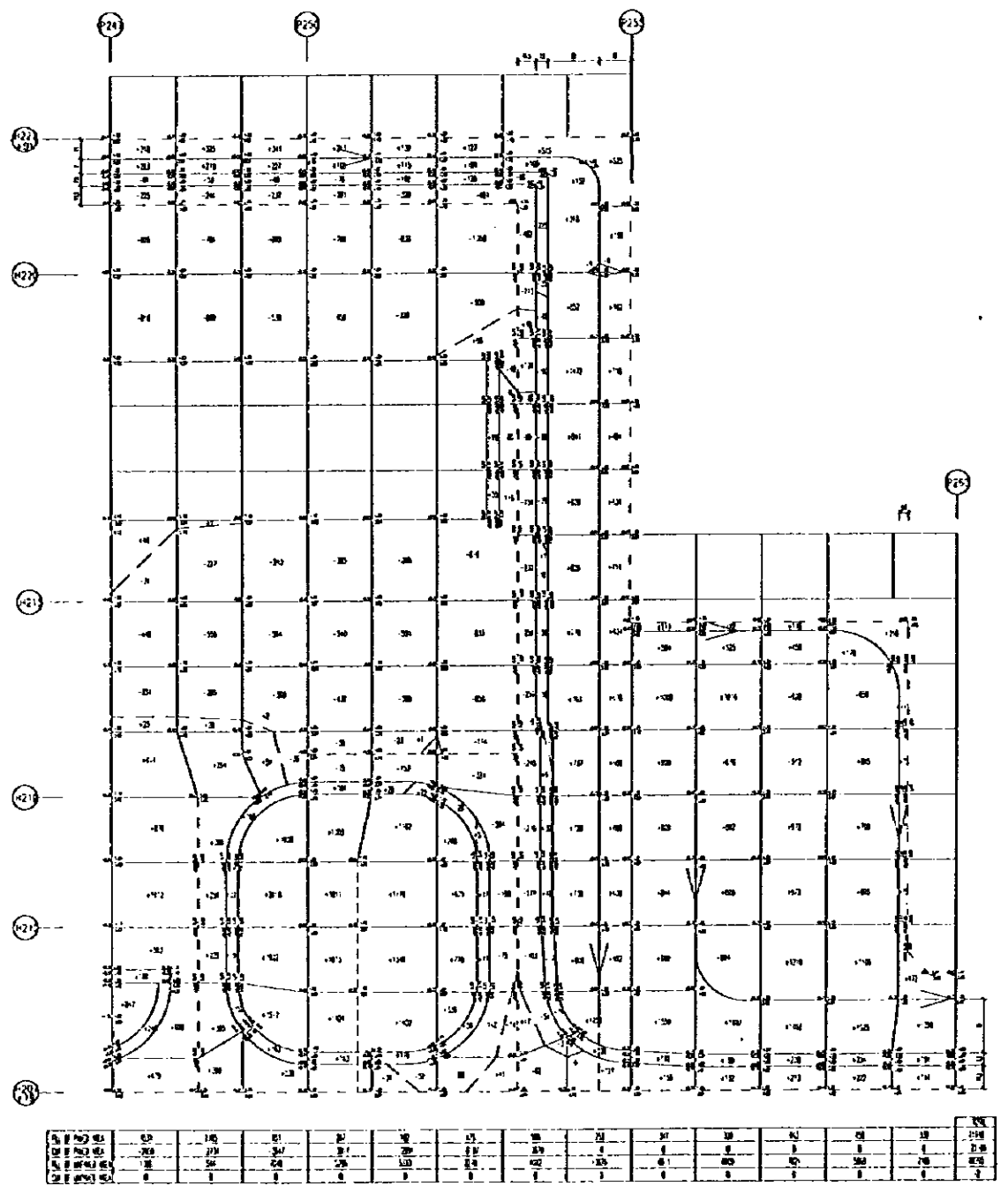




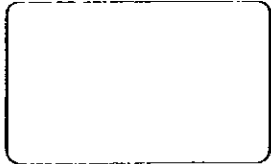
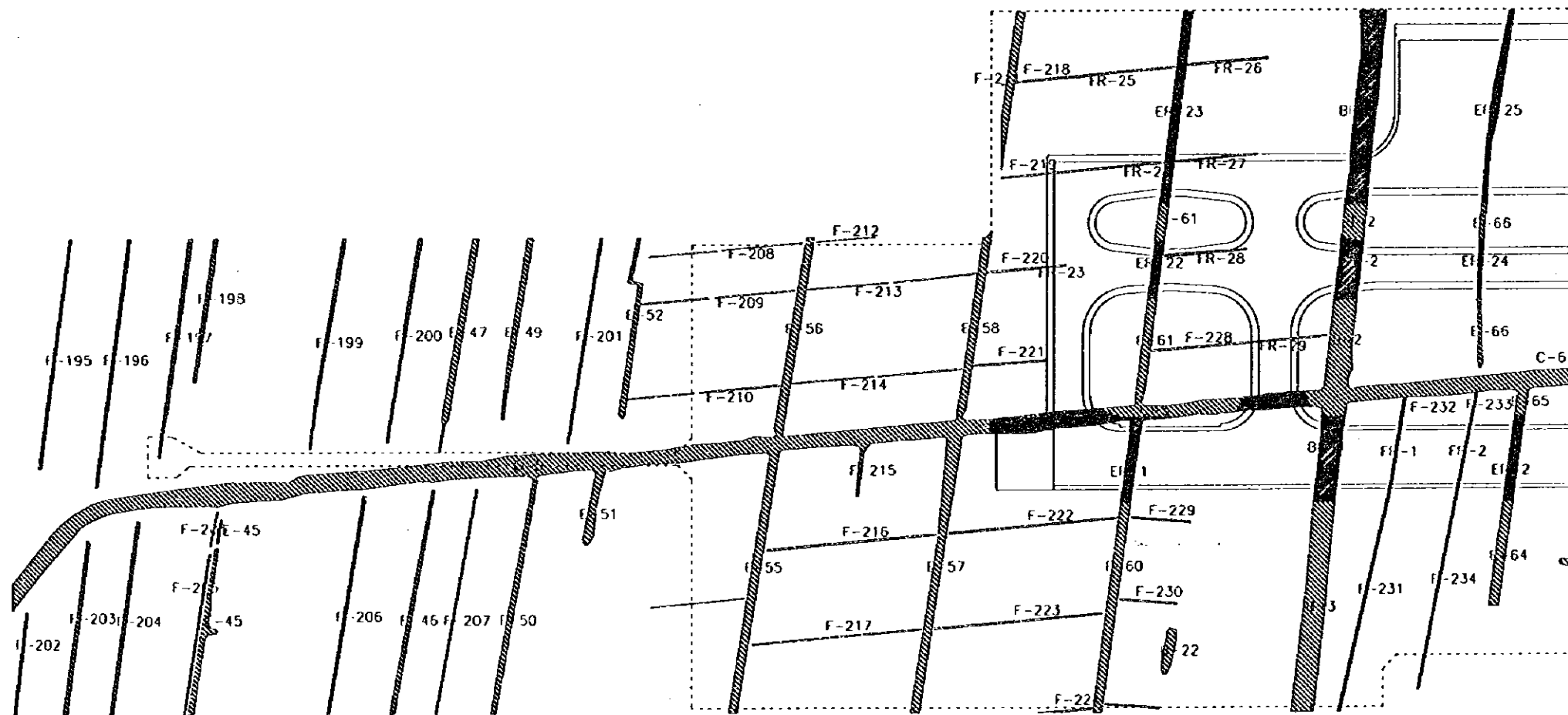


PEOPLE'S REPUBLIC OF CHINA  
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997  
 CALCULATION CHART FOR EARTH VOLUME  
 SCALE 1:2000  
 DWG1-C7(8/10)  
 JAPAN INTERNATIONAL COOPERATION AGENCY

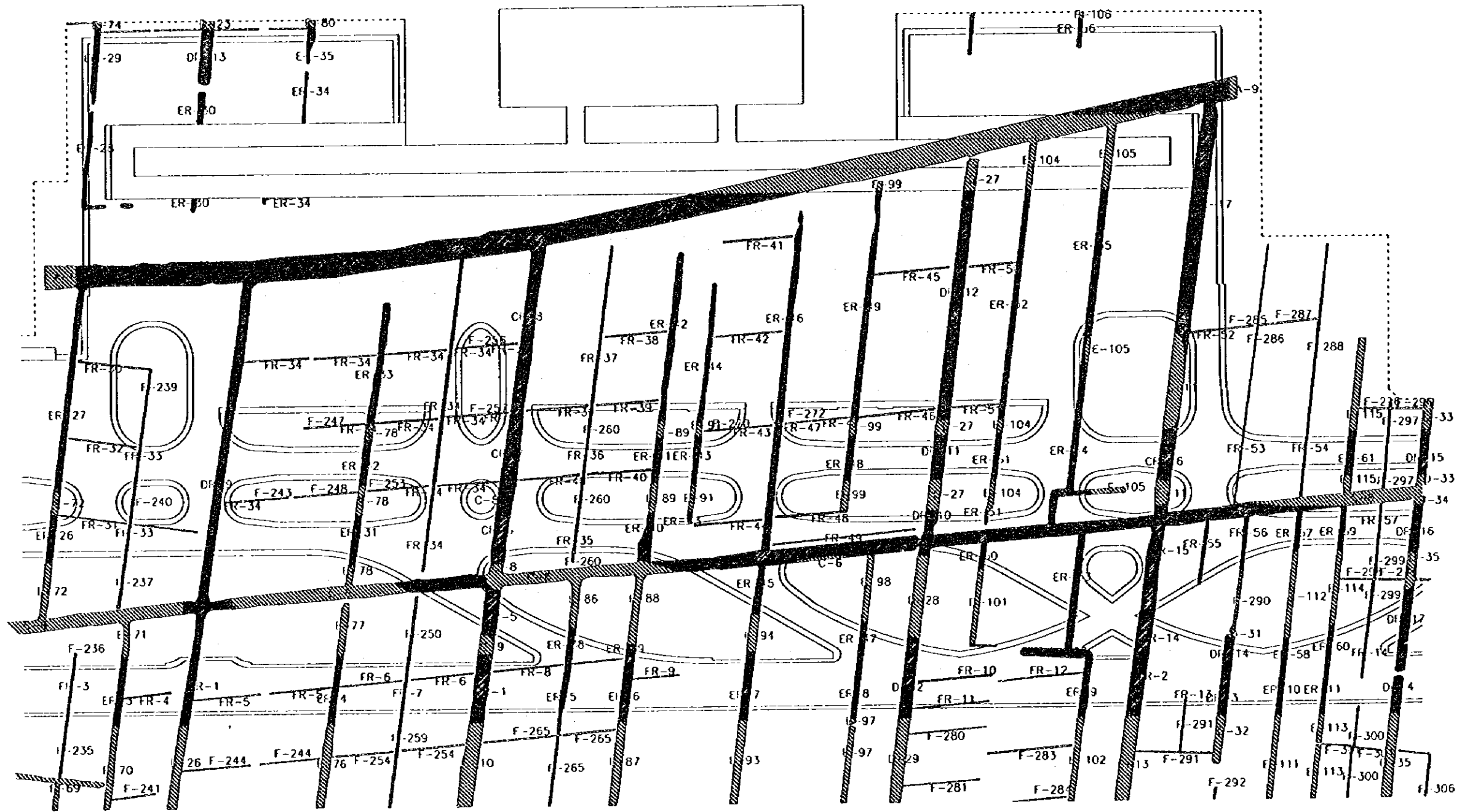
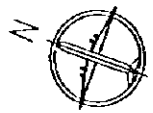




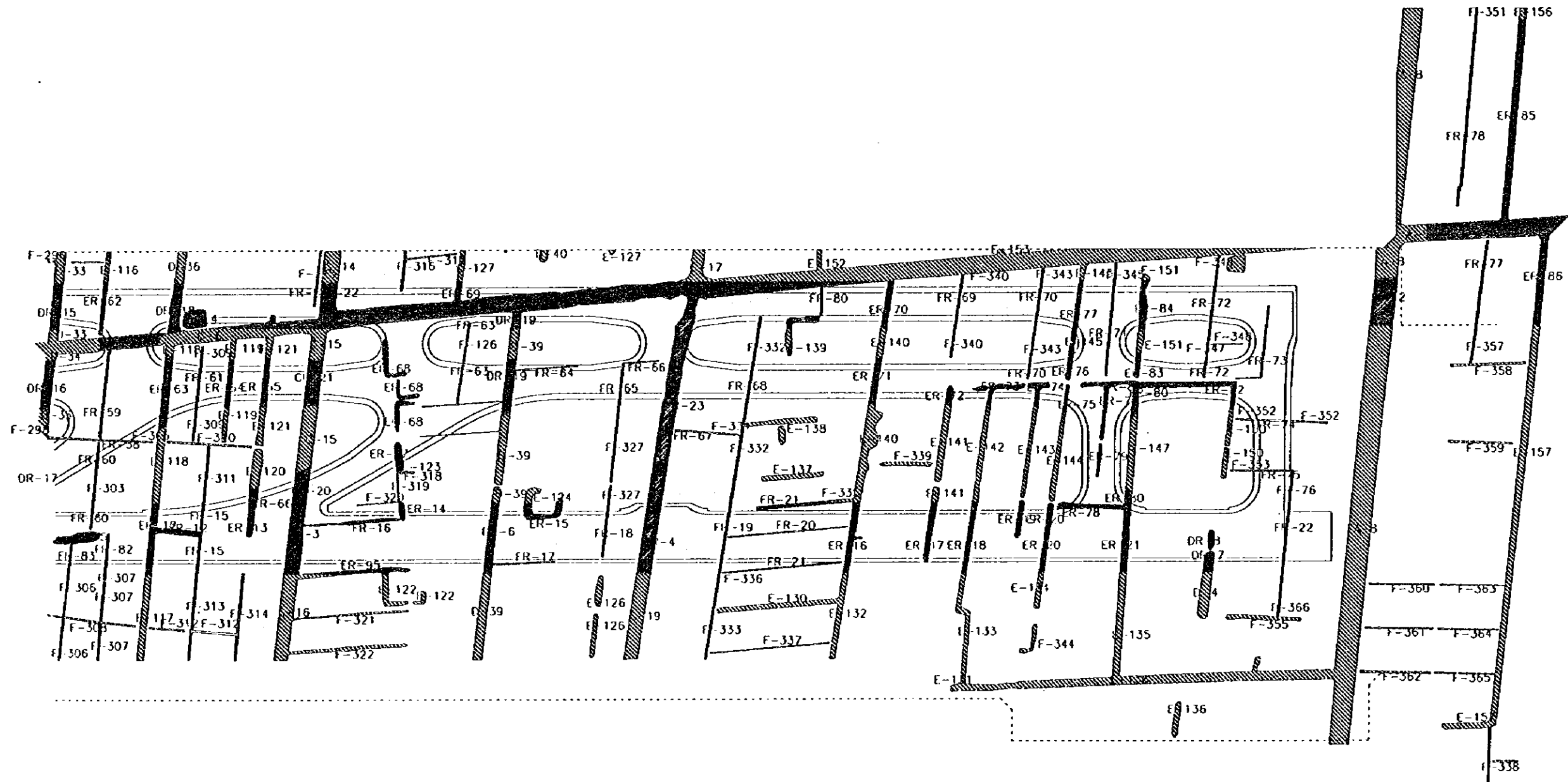
PEOPLE'S REPUBLIC OF CHINA  
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997  
 CALCULATION CHART FOR EARTH VOLUME  
 SCALE 1:1000 | DWG1-C/(10/10)  
 JAPAN INTERNATIONAL COOPERATION AGENCY



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
DITCH TREATMENT DRAWING FOR AIRFIELD	
SCALE	DWG1-C8(1/5)
JAPAN INTERNATIONAL COOPERATION AGENCY	



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT   SEPTEMBER 1997	
DITCH TREATMENT DRAWING FOR AIRFIELD	
SCALE	DWG1-C8(2/5)
JAPAN INTERNATIONAL COOPERATION AGENCY	



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
DITCH TREATMENT DRAWING FOR AIRFIELD	
SCALE	1:500
DWG1-C8(3/5)	
JAPAN INTERNATIONAL COOPERATION AGENCY	

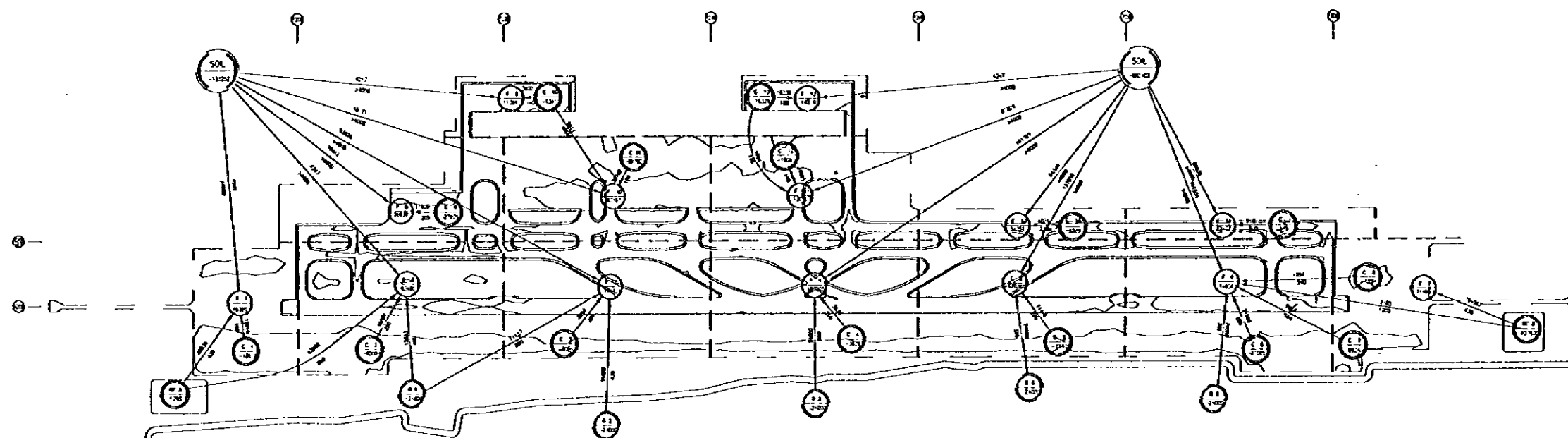


# QUANTITIES OF DITCH TREATMENT

SOIL SURFACE AREA														
0 -- 5 NO	Length (m)	Fill 3.0m <sup>2</sup>	0 -- 5 NO	Length (m)	Fill 3.0m <sup>2</sup>	0 -- 5 NO	Length (m)	Fill 3.0m <sup>2</sup>	5 -- 10 NO	Length (m)	Fill 7.4m <sup>2</sup>	10 -- 15 NO	Length (m)	Fill 14.8m <sup>2</sup>
F -- 197	240	720	F -- 285	35	105	F -- 352	63	189	E -- 104	67	495.8	D -- 4	55	814
F -- 209	160	480	F -- 286	280	840	F -- 353	48.5	145.5	E -- 105	194	1435.6	D -- 22	48	710.4
F -- 210	160	480	F -- 287	79	237	F -- 355	100	300	E -- 106	10	74	D -- 26	150	2220
F -- 211	5	15	F -- 288	272	816	F -- 357	58.5	175.5	E -- 111	150	1110	D -- 28	116	1716.8
F -- 214	195	585	F -- 290	90	270	F -- 358	100	300	E -- 112	110	814	D -- 29	152.5	2257
F -- 215	53	159	F -- 291	145	435	F -- 359	84	252	E -- 113	150	1110	D -- 35	110	1628
F -- 216	182	546	F -- 292	58	174	F -- 360	86	258	E -- 114	103	762.2	D -- 39	310	4588
F -- 217	184	552	F -- 297	70	210	F -- 361	90	270	E -- 115	130	962	D -- 40	20	296
F -- 218	31	93	F -- 298	90	270	F -- 362	92	276	E -- 116	50	370	D -- 42	540	7992
F -- 219	40	120	F -- 299	70	210	F -- 363	82	246	E -- 117	155	1147	D -- 43	548	8110.4
F -- 220	54	162	F -- 300	88	264	F -- 364	80	240	E -- 118	104.5	773.3	D -- 46	515	7622
F -- 221	70	210	F -- 301	148	444	F -- 365	78	234	E -- 119	74	547.6	TOTAL	2564.5	37954.6
F -- 222	182	546	F -- 305	36	108	F -- 367	150	450	E -- 120	52.5	388.5	15 -- 20	Length	Fill
F -- 223	182	546	F -- 306	165	495	F -- 368	70	210	E -- 121	92	680.8	NO	(m)	28.7m <sup>2</sup>
F -- 224	70	210	F -- 307	157	471	TOTAL	10590	31770	E -- 122	138	1021.2	C -- 5	1293.5	37123.45
F -- 228	100	300	F -- 308	141	423	5 -- 10	Length	Fill	E -- 123	81.5	603.1	C -- 6	1103	31656.1
F -- 229	63	189	F -- 309	57	171	NO	(m)	7.4m <sup>2</sup>	E -- 124	33	244.2	C -- 8	70.5	2023.35
F -- 230	62	186	F -- 310	109	327	E -- 55	273	2020.2	E -- 126	95	703	C -- 9	29.5	846.65
F -- 231	225	675	F -- 311	75	225	E -- 56	210	1554	E -- 127	10	74	C -- 10	152.5	4376.75
F -- 232	20	60	F -- 312	115	345	E -- 57	291	2153.4	E -- 129	70	518	C -- 11	174	4993.8
F -- 233	24	72	F -- 313	155	465	E -- 58	328	2427.2	E -- 130	158	1169.2	C -- 13	152.5	4376.75
F -- 234	208	624	F -- 314	153	459	E -- 60	225	1665	E -- 131	803	5942.2	C -- 14	47.5	1363.25
F -- 235	54	162	F -- 315	42	126	E -- 61	145	1073	E -- 132	142.5	1054.5	C -- 15	125.5	3601.85
F -- 236	5	15	F -- 316	40	120	E -- 64	155	1147	E -- 133	178.5	1320.9	C -- 16	152.5	4376.75
F -- 237	20	60	F -- 317	65	195	E -- 65	36	266.4	E -- 134	45	333	C -- 17	37.5	1076.25
F -- 239	40	120	F -- 318	20	60	E -- 66	110	814	E -- 135	132.5	980.5	C -- 18	62.5	1793.75
F -- 240	188	564	F -- 319	33	117	E -- 69	212	1568.8	E -- 136	46	340.4	C -- 19	158.5	4548.95
F -- 241	57	171	F -- 320	55	165	E -- 70	170	1258	E -- 137	80	592	TOTAL	3559.5	102157.65
F -- 243	90	270	F -- 321	149	447	E -- 71	56	414.4	E -- 138	116	858.4	20 -- 25	Length	Fill
F -- 244	183	549	F -- 322	152	456	E -- 72	95	703	E -- 139	76.5	565.1	NO	(m)	41.2m <sup>2</sup>
F -- 245	184	552	F -- 325	83	249	E -- 74	10	74	E -- 140	182	1345.8	B -- 2	163.5	6736.2
F -- 248	87	261	F -- 327	127	381	E -- 76	75	555	E -- 141	119	880.6	B -- 3	222.5	9167
F -- 250	90	270	F -- 331	49	147	E -- 77	55	407	E -- 142	127	939.8	TOTAL	386	15903.2
F -- 253	60	180	F -- 332	170	510	E -- 79	10	74	E -- 143	141.5	1047.1	25 -- 30	Length	Fill
F -- 254	181	543	F -- 333	123	369	E -- 86	60	444	E -- 144	133.5	987.9	NO	(m)	51.2m <sup>2</sup>
F -- 255	179	537	F -- 335	60	180	E -- 87	150	1110	E -- 145	63.5	469.9	A -- 9	60	3072
F -- 259	168	504	F -- 337	156	468	E -- 88	98	725.2	E -- 150	105	777	TOTAL	60	3072
F -- 260	55	165	F -- 339	68	204	E -- 89	55	407	E -- 151	30	222			
F -- 265	331	993	F -- 340	51	153	E -- 91	55	407	E -- 152	30	222			
F -- 266	99	297	F -- 343	60	180	E -- 93	150	1110	E -- 153	10	74			
F -- 267	64	192	F -- 344	48	144	E -- 94	53	392.2	E -- 157	580	4292			
F -- 270	40	120	F -- 345	21	63	E -- 97	150	1110	E -- 159	540	3996			
F -- 280	103	309	F -- 346	30	90	E -- 98	92.5	684.5	E -- 160	540	3996			
F -- 281	100	300	F -- 347	47	141	E -- 99	50	370	TOTAL	9863.5	72983.9			
F -- 283	111	333	F -- 348	32	96	E -- 101	95	703				TOTAL ALL	Length	Fill
F -- 284	114	342	F -- 351	20	60	E -- 102	150	1110					27024	263848

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
DITCH TREATMENT DRAWING FOR AIRFIELD	
NO SCALE	DWG1 C8(5/5)
JAPAN INTERNATIONAL COOPERATION AGENCY	





PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
EARTH WORK DISTRIBUTION PLAN	
SCALE	1:500
DWG1-E9(1/2)	
JAPAN INTERNATIONAL COOPERATION AGENCY	

