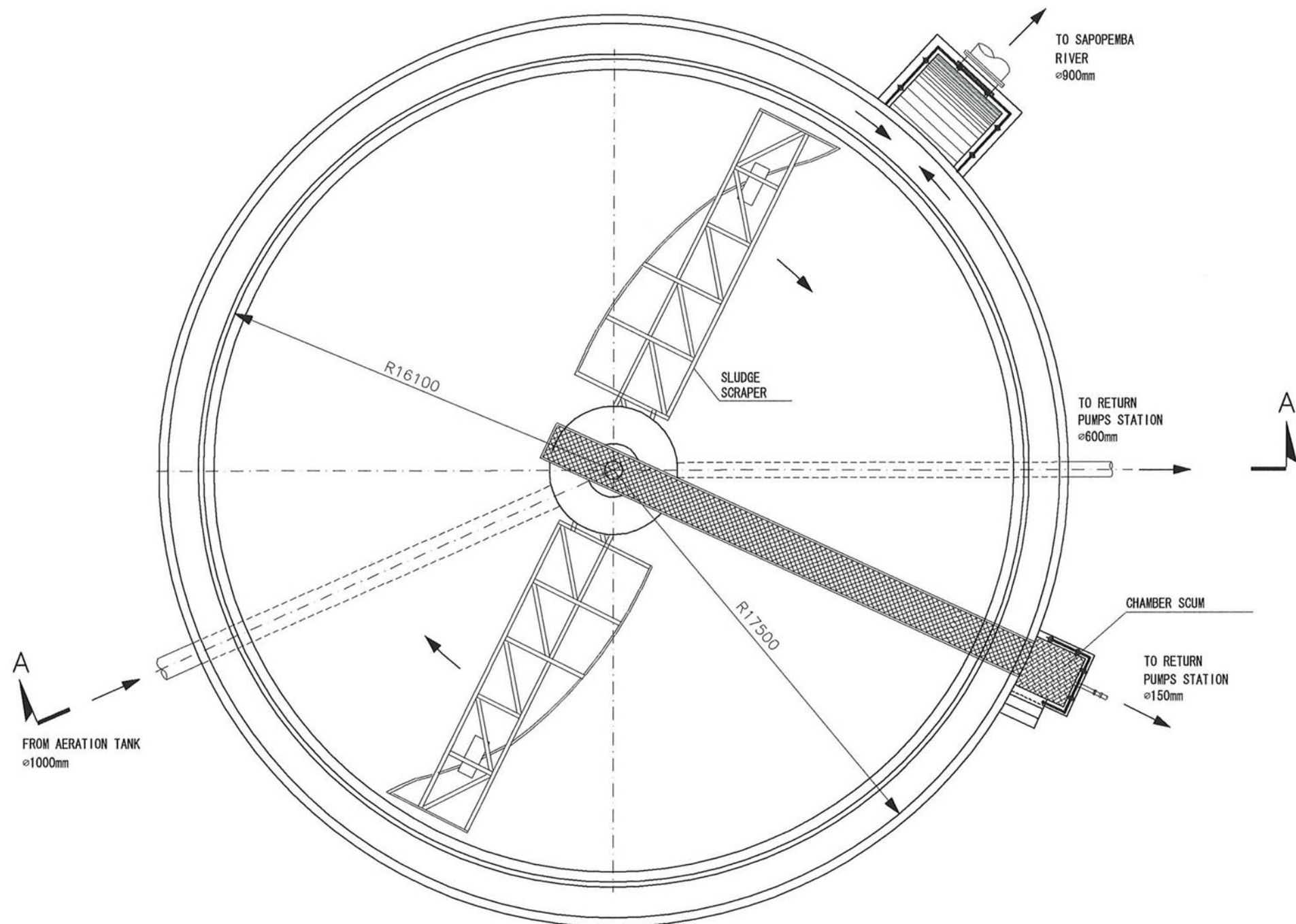
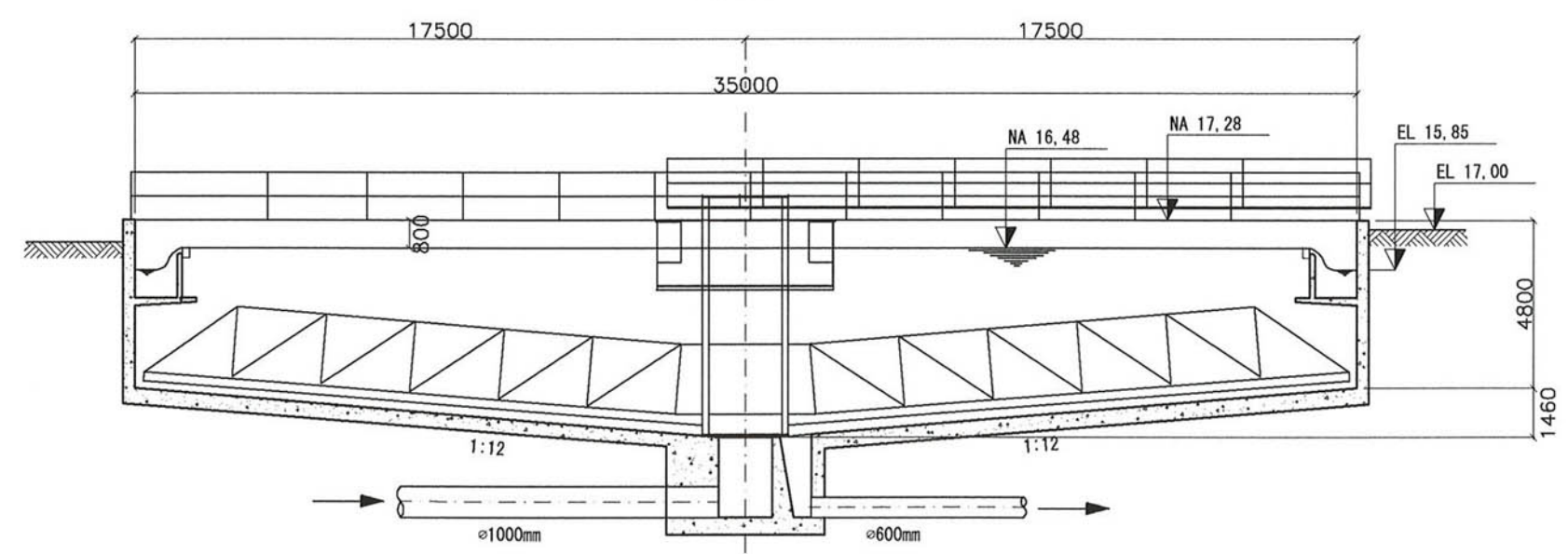


KEY PLAN



PLAN  
ESC. 1:100

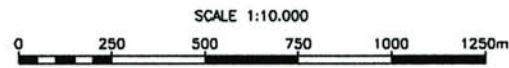
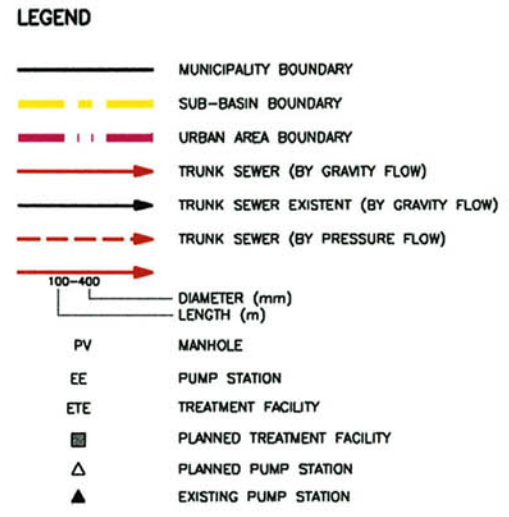
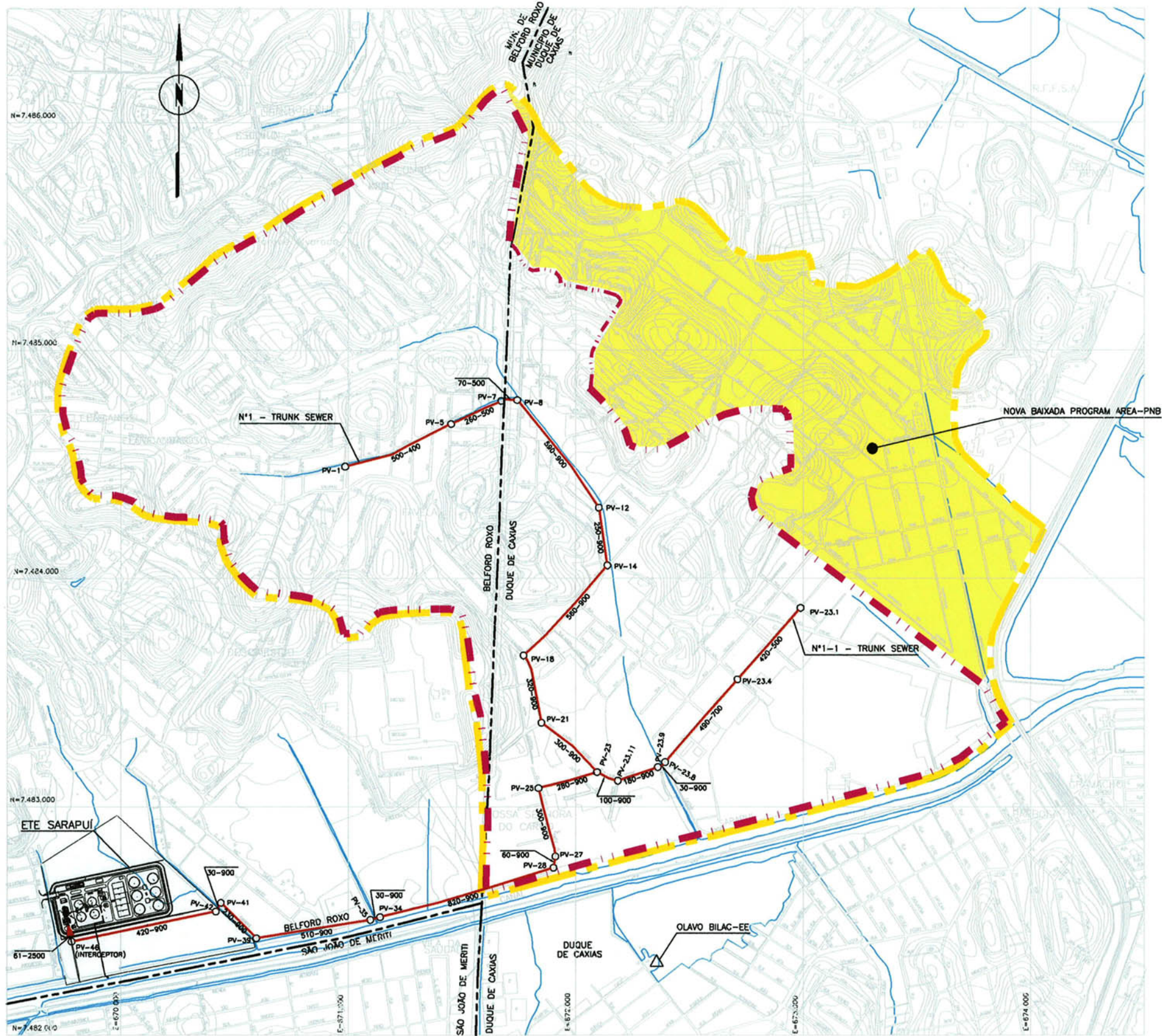


SECTION A-A  
ESC. 1:100



NOTE:  
1- DIMENSION IN MILLIMETER AND ELEVATION IN METER

DRAW. 3.11	THE STUDY ON MANAGEMENT AND IMPROVEMENT OF THE ENVIRONMENTAL CONDITIONS OF GUANABARA BAY IN RIO DE JANEIRO	TITLE ACARI - WWTP SECONDARY CLARIFIER
	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



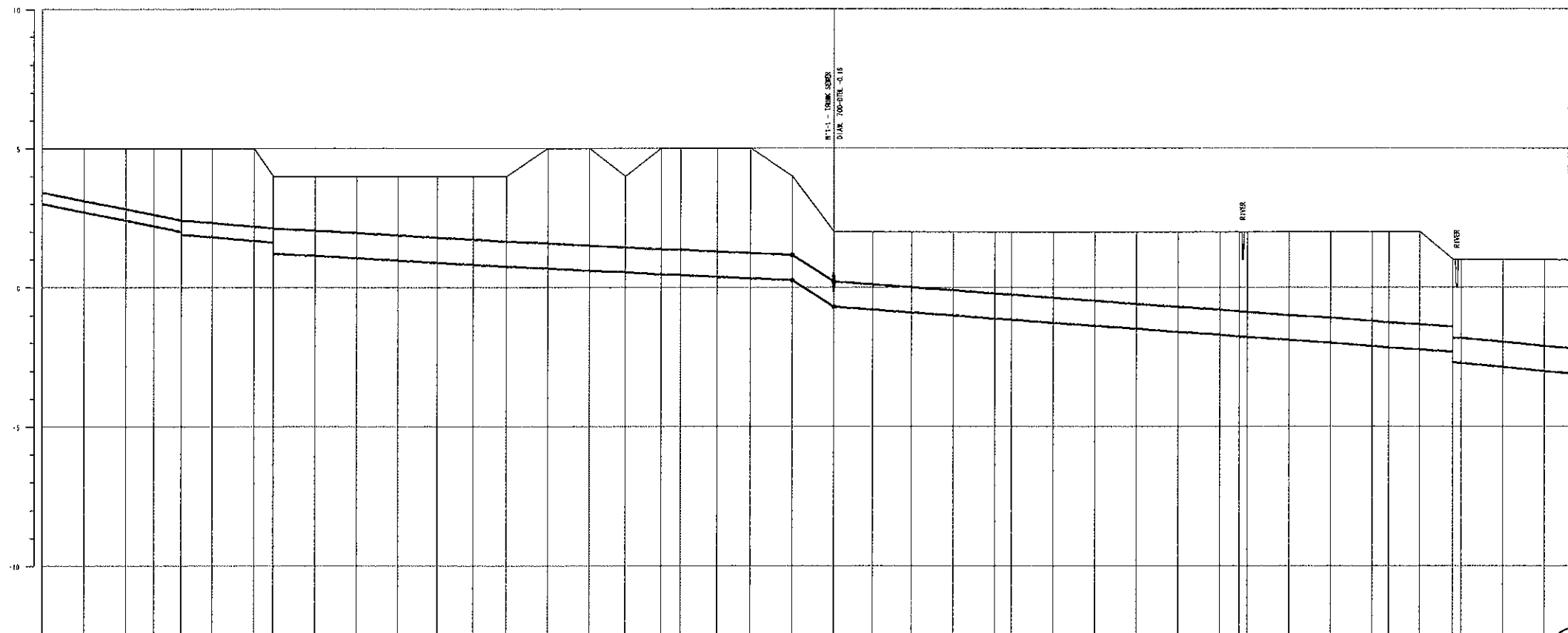
DRAW. 4.1	THE STUDY ON MANAGEMENT AND IMPROVEMENT OF THE ENVIRONMENTAL CONDITIONS OF GUANABARA BAY IN RIO DE JANEIRO	TITLE
	LAYOUT PLAN OF SARAPUI SEWER DISTRICT	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		

**NOTE:**

1- DIAMETERS IN MILLIMETERS, SLOPES IN METER PER METER, LEVELS AND LENGTHS IN METERS.

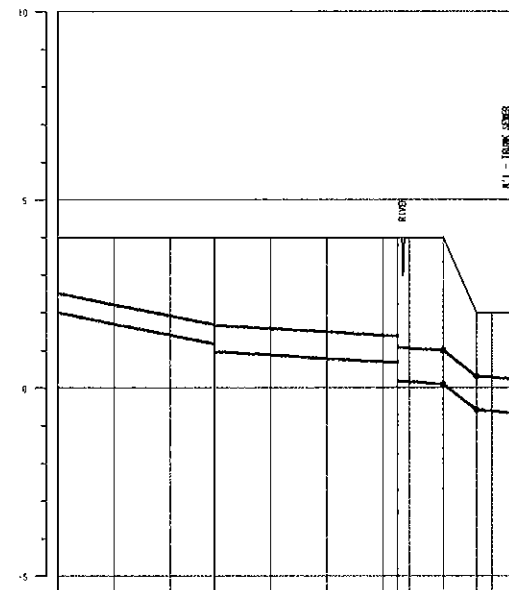
**LEGEND:**

- UMH - UPSTREAM MANHOLE
- UGL - UPSTREAM GROUND LEVEL
- UTBL - UPSTREAM TRUNK SEWER BOTTOM LEVEL
- UTD - UPSTREAM TRUNK SEWER DEPTH
- DMH - DOWNSTREAM MANHOLE
- DGL - DOWNSTREAM GROUND LEVEL
- DTBL - DOWNSTREAM TRUNK SEWER BOTTOM LEVEL
- DTD - DOWNSTREAM TRUNK SEWER DEPTH
- GROUND
- FRESSING LINE
- TRUNK SEWER STUDY
- TRUNK SEWER EXISTENT
- MANHOLE



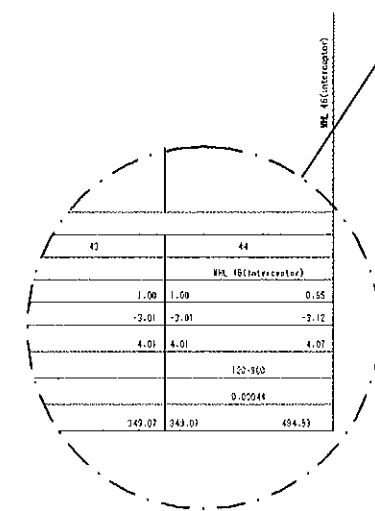
LOCATION STAKE (km)	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
N° OF SEWER	1	2	3	4	5	6	7	8	9	10	11	12
UMH	0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50
UGL	5.00	5.00	5.00	4.00	4.00							
UTBL	DTBL 3.00	2.10	1.70	1.62	1.32							
UTD	DD 2.00	3.00	3.10	2.38	2.78							
LENGTH-DIAMETER	500-400		320-500		4700-300							
SLOPE	0.0020		0.0021		0.0026			0.0035		0.0064		0.0097
FLOW	45.29	45.29	59.25	57.25	83.72							

N°1 - TRUNK SEWER



LOCATION STAKE (km)	0	0.5	1.0	1.22
N° OF SEWER	23.1	23.2	23.3	23.4
UMH	DMH 23.1	23.4	23.8	23.11
UGL	DGL 4.00	4.00	4.00	4.00
UTBL	DTBL 2.00	1.46	0.85	0.67
UTD	DD 2.00	2.54	3.04	3.33
LENGTH-DIAMETER	400-500		300-300	
SLOPE	0.0020		0.0026	
FLOW	113.83	113.83	140.28	140.28

N°1-1 - TRUNK SEWER



**SCALE**

