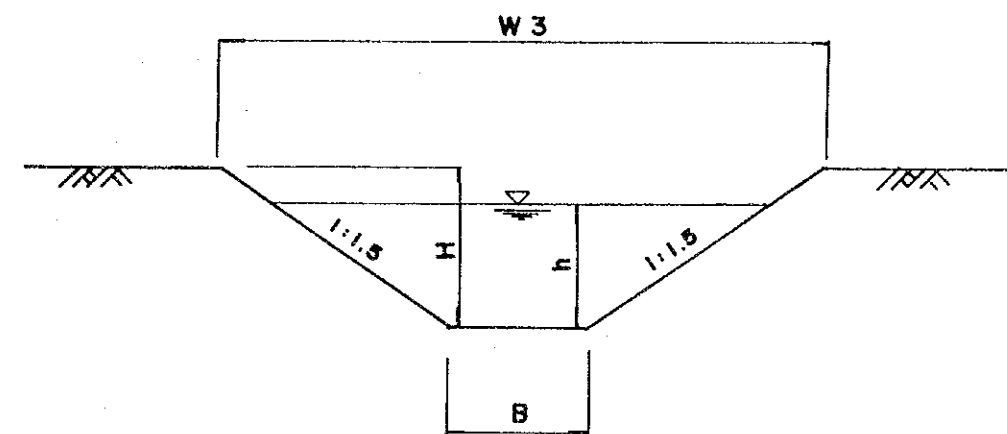


SECONDARY CANAL

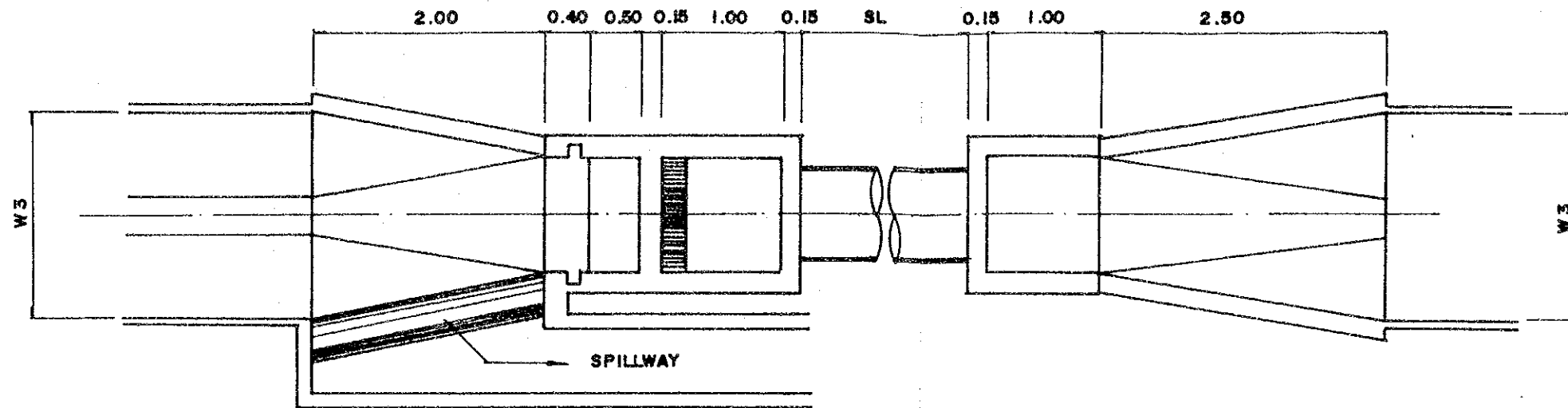
CANAL TYPE	Q (m ³ /s)	B	H	h	W1	W3	W2	SW	m	n	I
A	0.12	0.40	0.60	0.40	1.00	1.60	4.00	9.00	1:1	0.025	1/1000
B	0.09	0.40	0.55	0.35	1.00	1.50	4.00	8.70	1:1	0.025	1/1000
C	0.07	0.40	0.50	0.30	1.00	1.40	4.00	8.40	1:1	0.025	1/1000
D	0.05>	0.40	0.45	0.25	1.00	1.30	4.00	8.30	1:1	0.025	1/1000



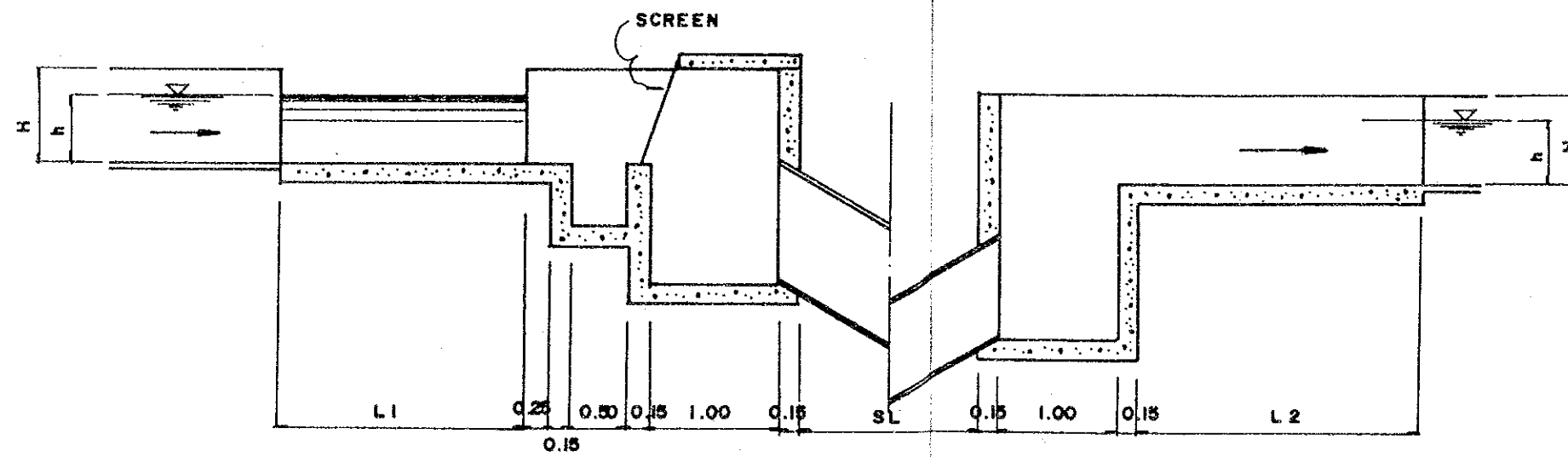
DRAINAGE CANAL

CANAL TYPE	Q (m ³ /s)	B	H	h	W3	m	n	I
A	0.73	0.80	0.90	0.70	3.50	1:1.5	0.025	1/1000
B	0.53	0.80	0.80	0.60	3.20	1:1.5	0.025	1/1000
C	0.44	0.80	0.75	0.55	3.00	1:1.5	0.025	1/1000
D	0.27>	0.80	0.60	0.40	2.60	1:1.5	0.025	1/1000

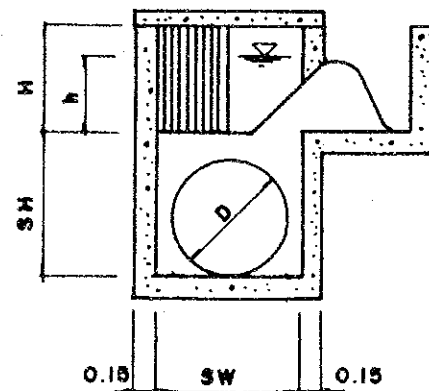
TITLE OF DRAWING SECONDARY, DRAINAGE CANAL	
DRAWING NO. I - 42	



SYPHON TYPE C

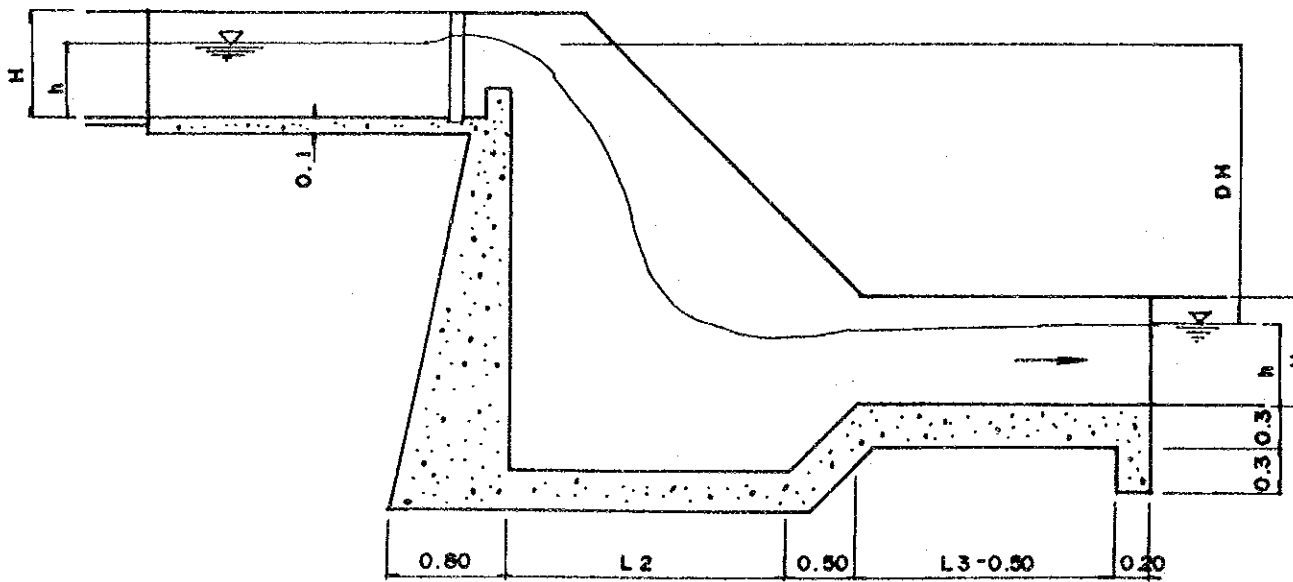
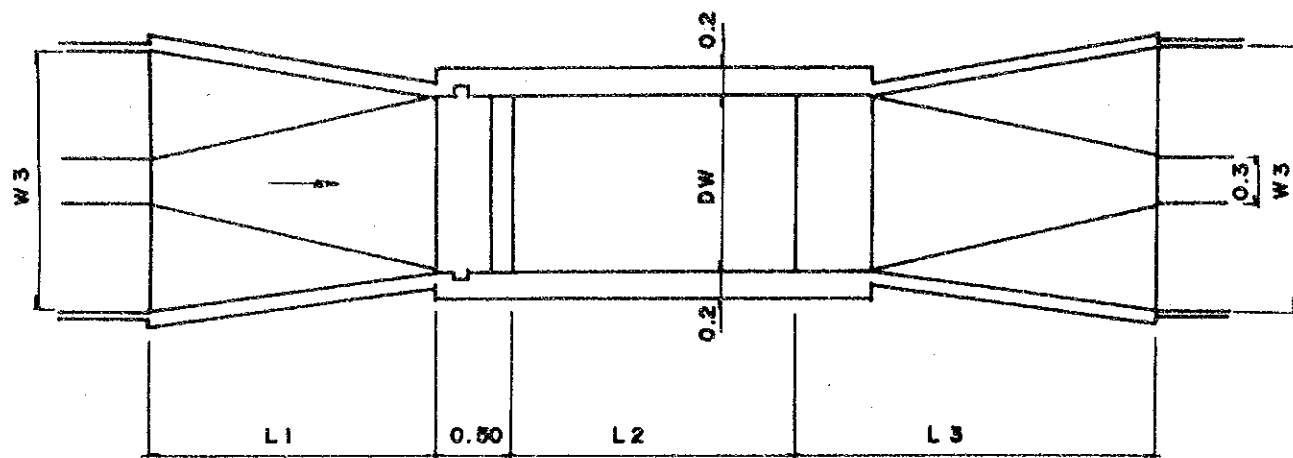


SYPHON S=1:50



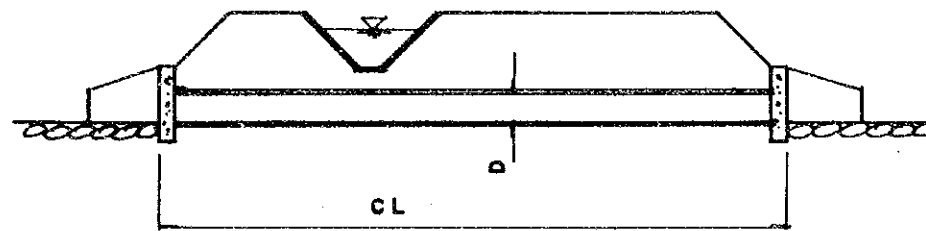
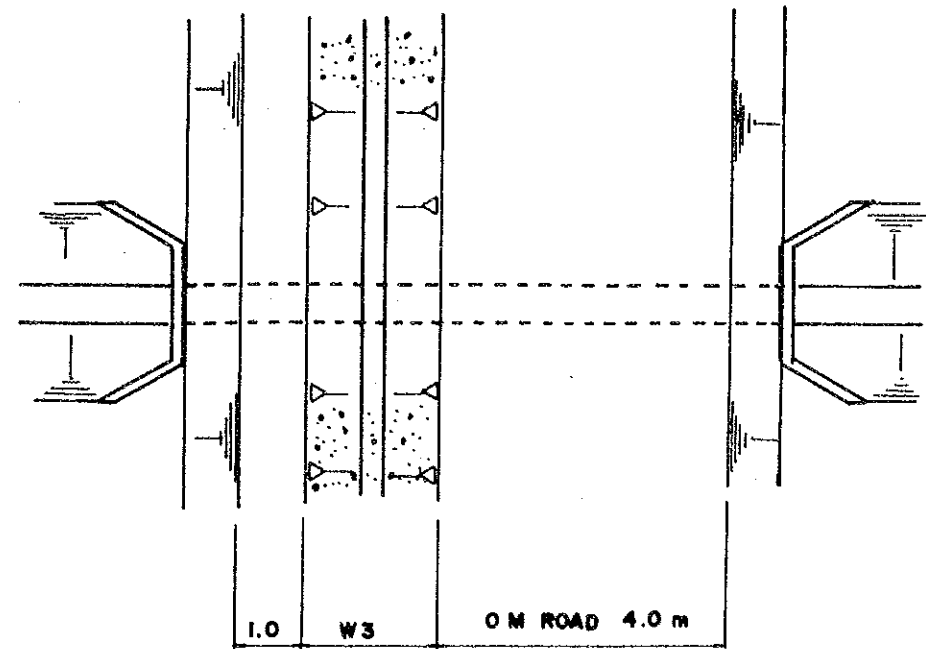
	Q (m ³ /S)	D	SW	L1	L2	SH
A	0.6 - 1.0	1.20	1.40	3.60	4.00	1.60
B	0.3 - 0.6	1.00	1.20	3.00	3.50	1.40
C	0.2 - 0.3	0.80	1.00	2.00	2.50	1.00
D	0.2 - 0.1	0.40	0.60	1.50	2.00	0.80
E	0.1 >	0.40	0.50	1.50	2.00	0.60

TITLE OF DRAWING	
SYPHON	
DRAWING NO.	
I - 43	



DROP S=1:50

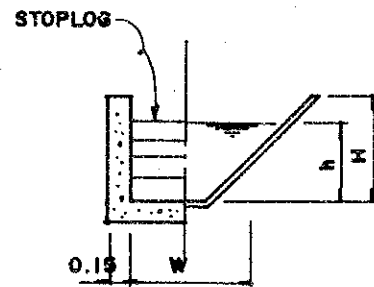
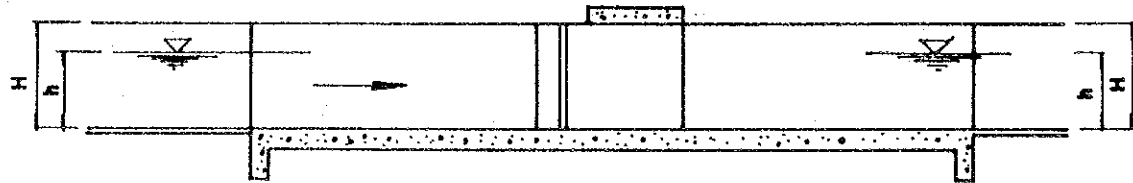
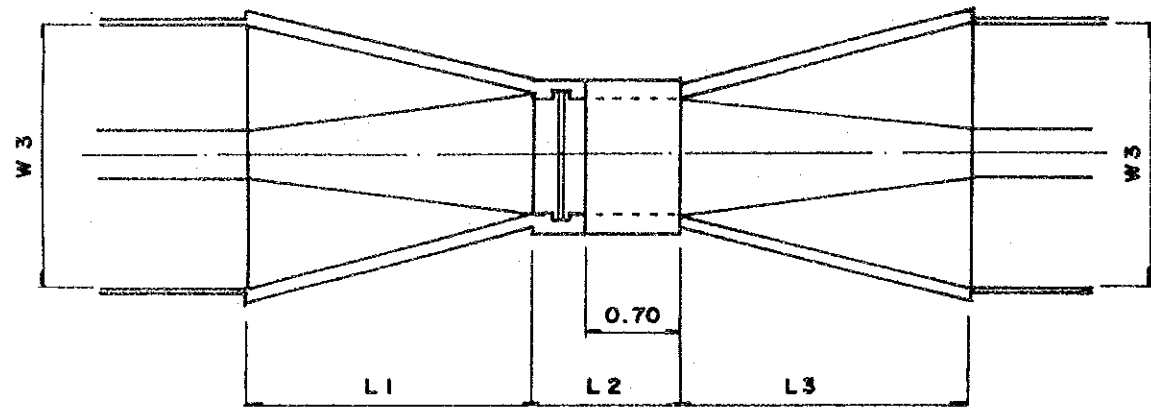
Q (m ³ /S)	DH	L1	L2	L3	DW
1.0-0.5	1.0	2.0	2.0	2.5	1.2
1.0-0.5	2.0	2.0	2.5	3.0	1.3
0.5-0.2	1.0	2.0	2.0	2.5	1.0
0.5-0.2	2.0	2.0	2.0	2.5	1.0
0.2 >	2.0	1.5	1.5	2.0	0.8



CROSS DRAIN S=1:100

Q (m ³ /S)	D	CL
2.5-5.0	1.5	10.0
1.0-2.5	1.0	10.0
0.5-1.0	0.8	9.0
0.5-0.2	0.6	9.0
0.2 >	0.3	9.0

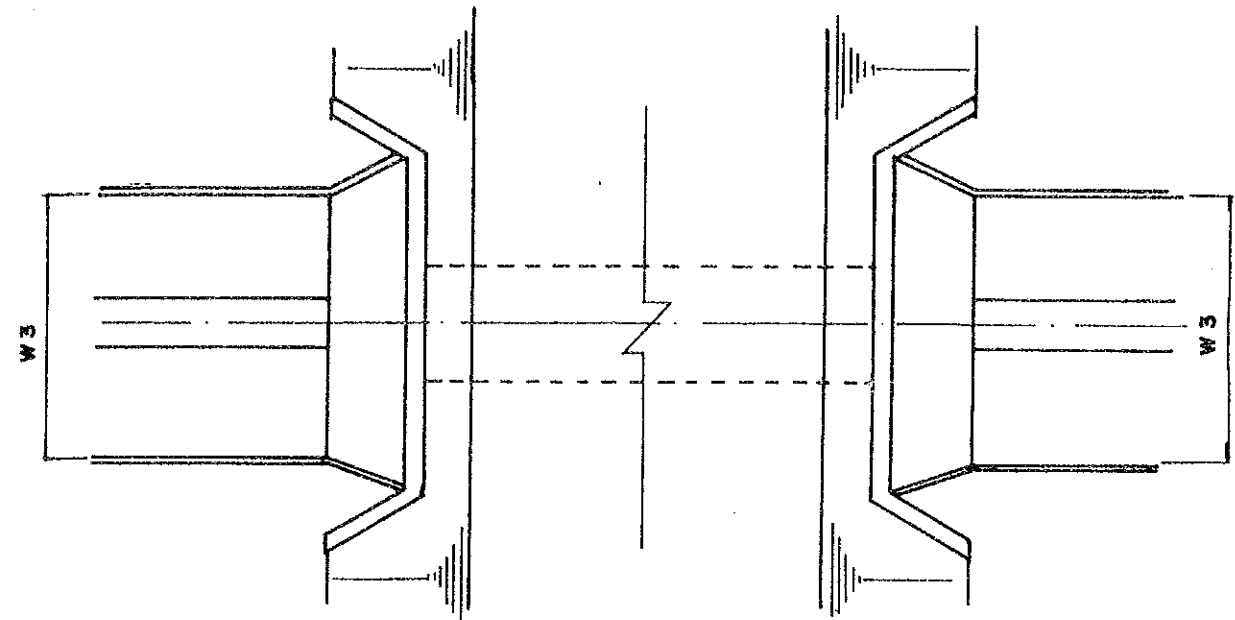
TITLE OF DRAWING	
DROP, CROSS DRAIN	
DRAWING NO.	
I - 44	



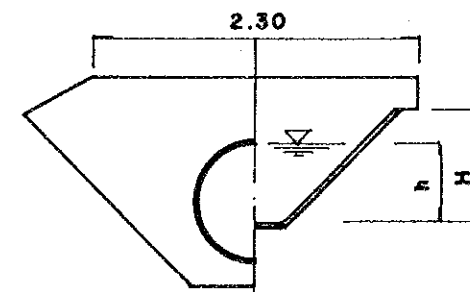
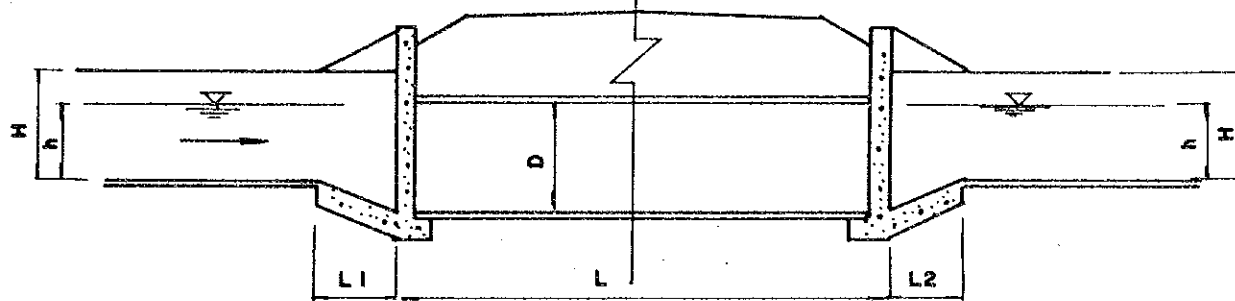
CHECK S = 1:50

Q(m ³ /S)	W	L1	L2	L3
0.6 - 1.0	1.00	2.50	1.50	2.50
0.3 - 0.6	0.80	2.00	1.00	2.00
0.2 - 0.3	0.60	1.50	1.00	1.50
0.1 >	0.40	1.50	1.00	1.50

m



EXISTING ROAD

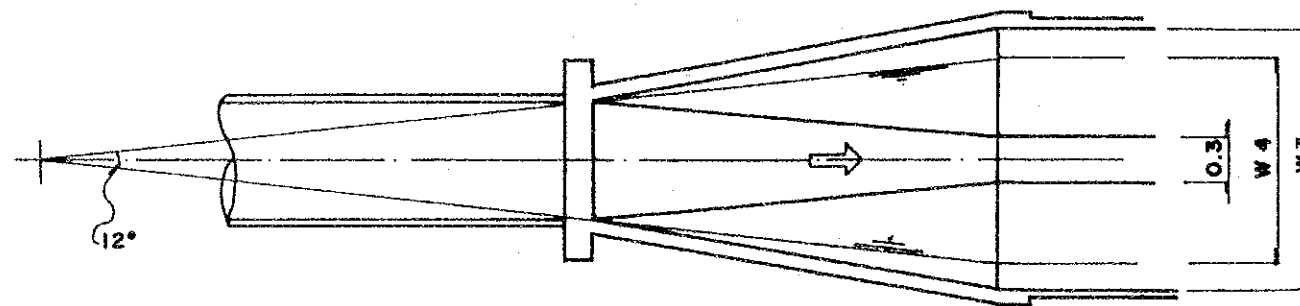
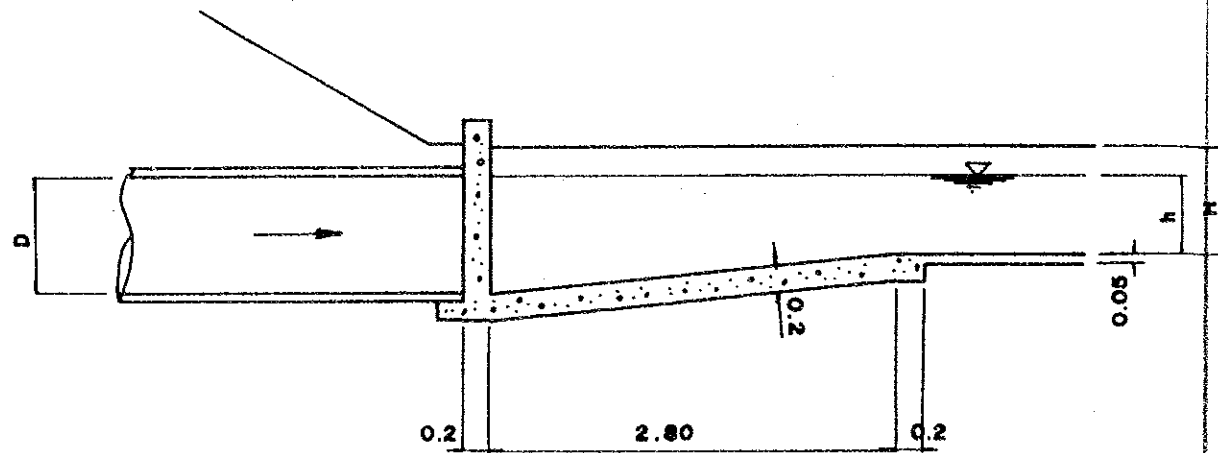
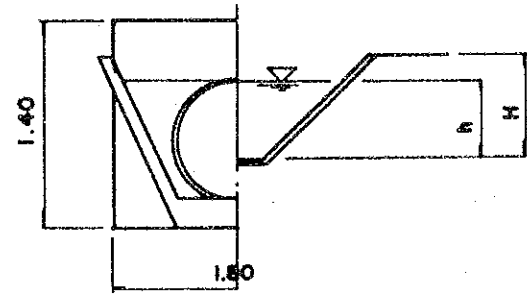


CULVERT S = 1:50

Q(m ³ /S)	D	L1	L2
0.6 - 1.0	1.20	1.50	1.50
0.3 - 0.6	1.00	1.50	1.50
0.2 - 0.3	0.80	1.00	1.00
0.2 >	0.60	0.50	0.50

m

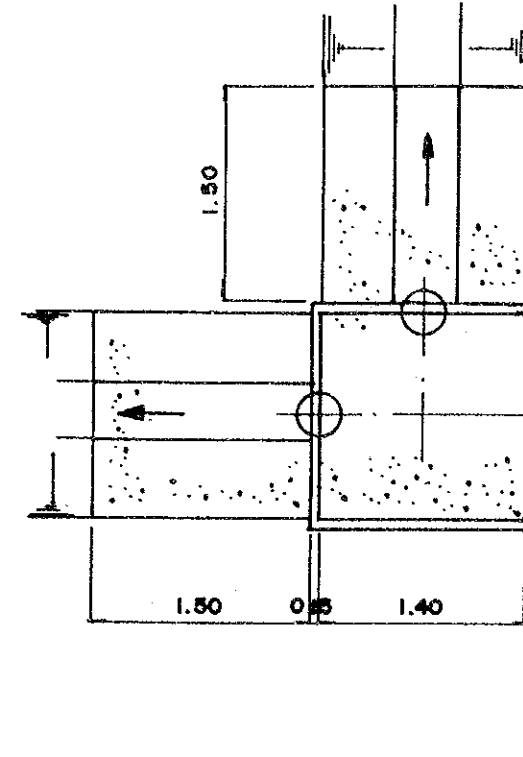
TITLE OF DRAWING	
CHECK , CULVERT	
DRAWING NO.	I - 45



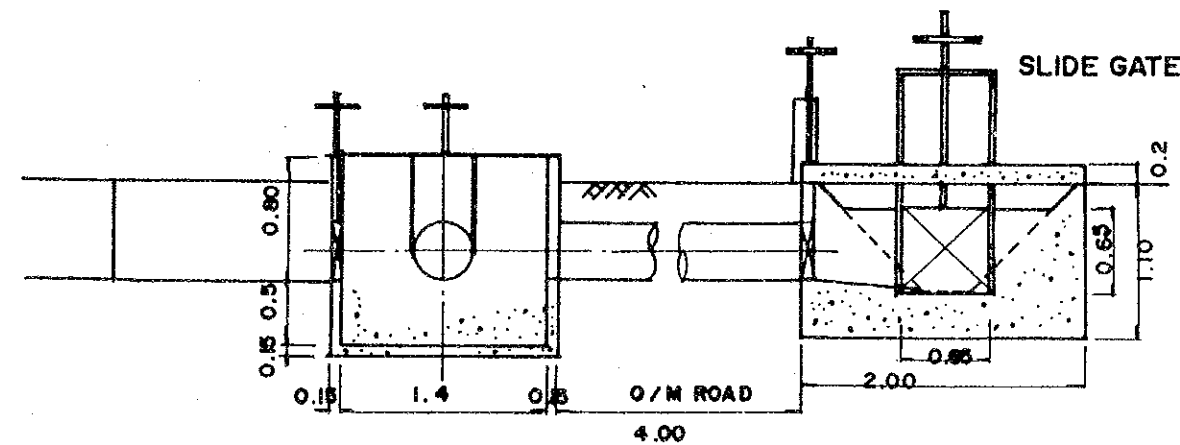
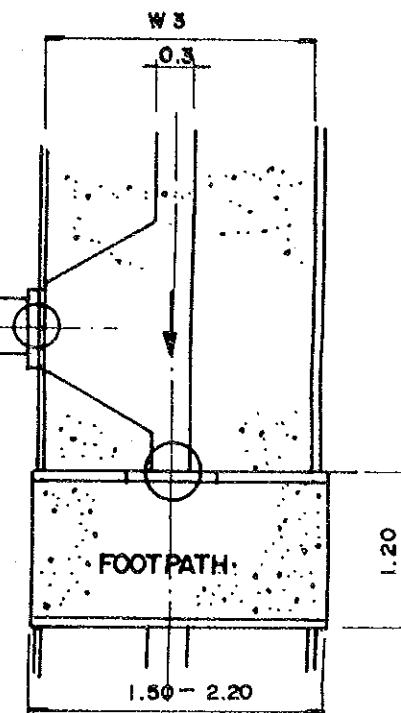
TRANSITION S=1:50

D	Q (m ³ /s)	H	h	W3	W4
Ø 800	0.3 - 0.4	0.75	0.55	1.80	1.40
Ø 600	0.1 - 0.3	0.65	0.45	1.60	1.20
Ø 400	0.1 >	0.45	0.25	1.20	0.80

UNLINED CANAL



MAIN CANAL

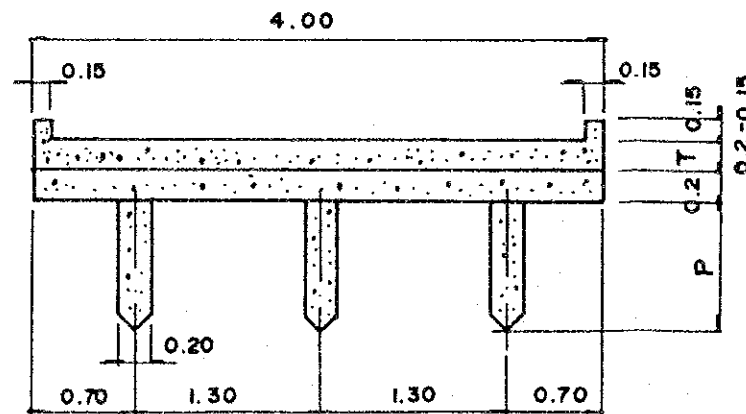
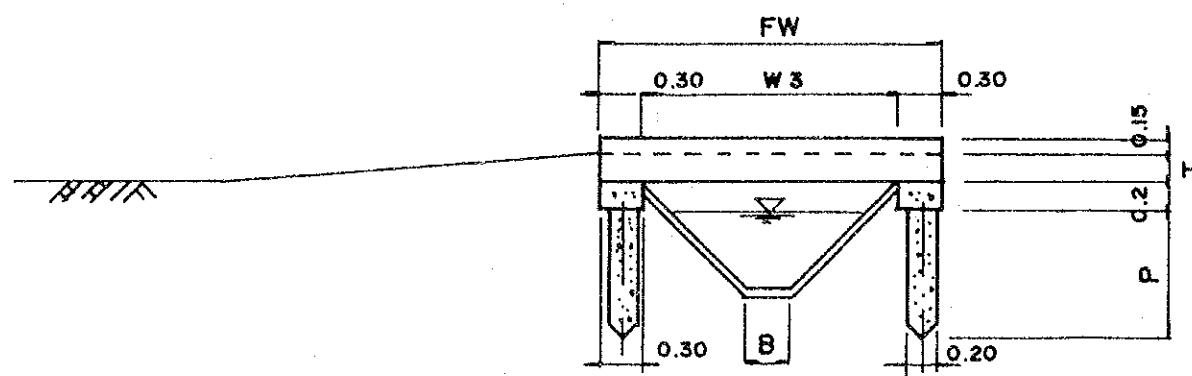
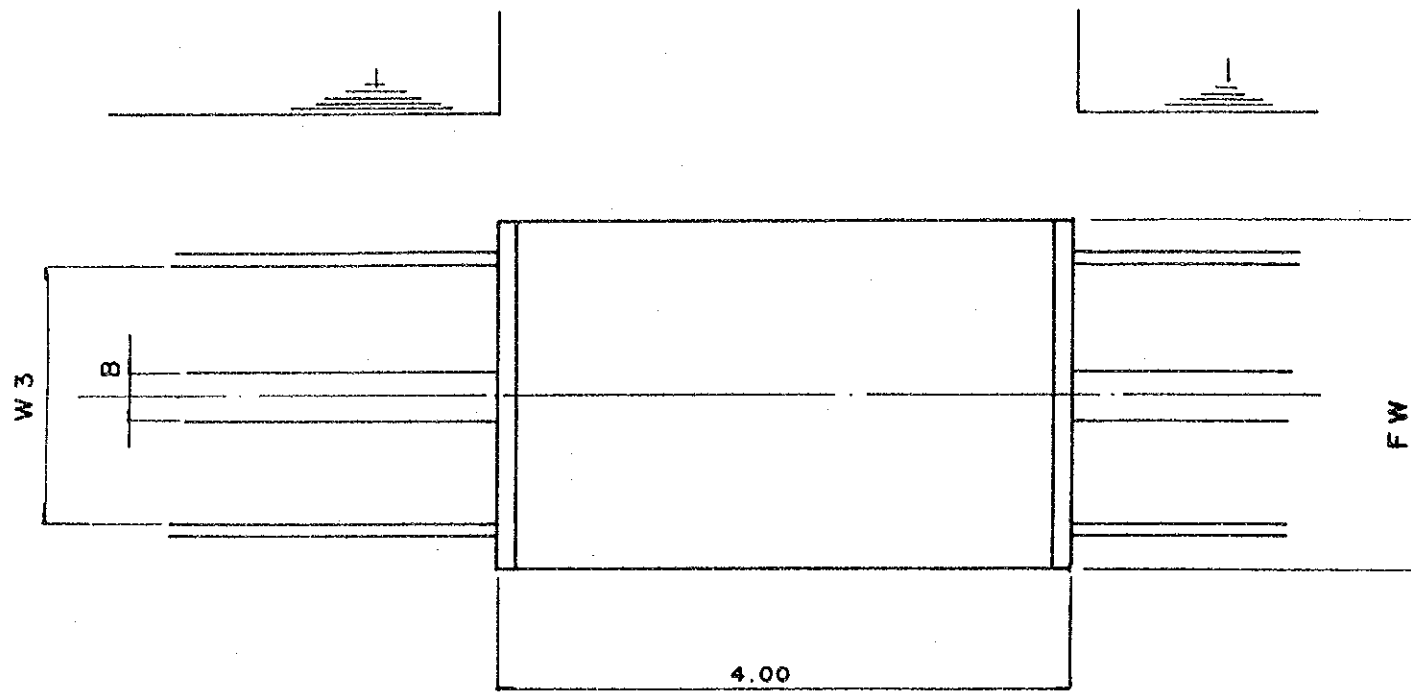


DIVISION BOX

TURNOUT & CHECK S=1:50

CANAL TYPE	SLIDE GATE	FOOT PATH	DIVISION BOX
E	0.65 X 0.85	2.20 X 1.20	1.4 X 1.4
F	0.45 X 0.45	2.00 X 1.20	1.2 X 1.2
G	0.35 X 0.35	1.80 X 1.20	1.0 X 1.0
H, U, R	0.30 X 0.25	1.50 X 1.20	0.8 X 0.8

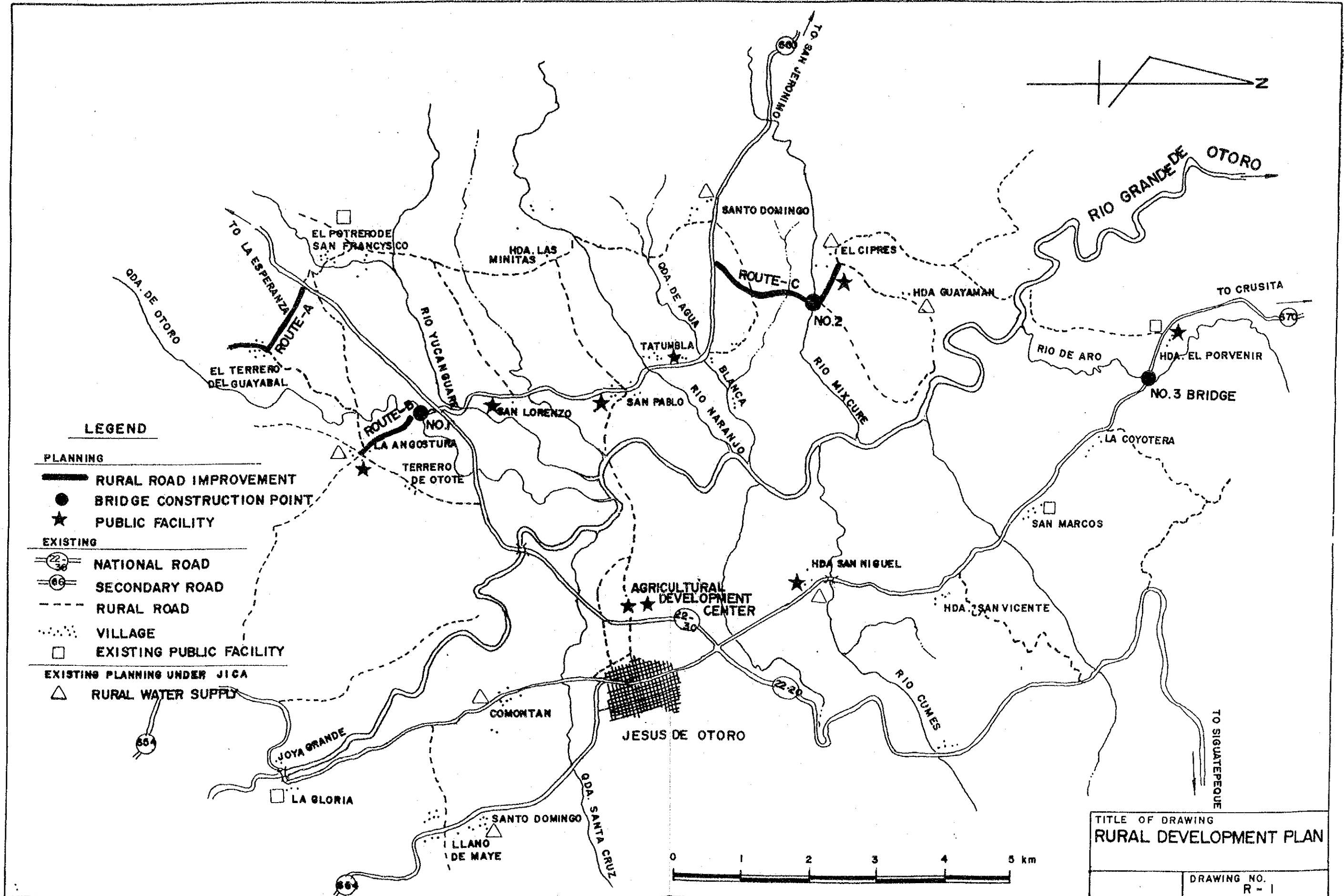
TITLE OF DRAWING	
TRANSITION, TURNOUT, FOOT PATH	
DRAWING NO.	
I - 46	



TYPE	m			
	FW	W3	P	T
A	3.20	2.60	1.40	0.20
B	3.10	2.50	1.40	0.20
C	3.00	2.40	1.20	0.20
D	2.60	2.00	1.20	0.20
E	2.40	1.80	1.00	0.20
F	2.20	1.60	0.90	0.20
G	2.00	1.40	0.80	0.15
H	1.80	1.20	0.60	0.15
U,R	0.90	0.30	-	0.15

FARM BRIDGE S = 1:50

TITLE OF DRAWING	
FARM BRIDGE	
DRAWING NO.	I - 47

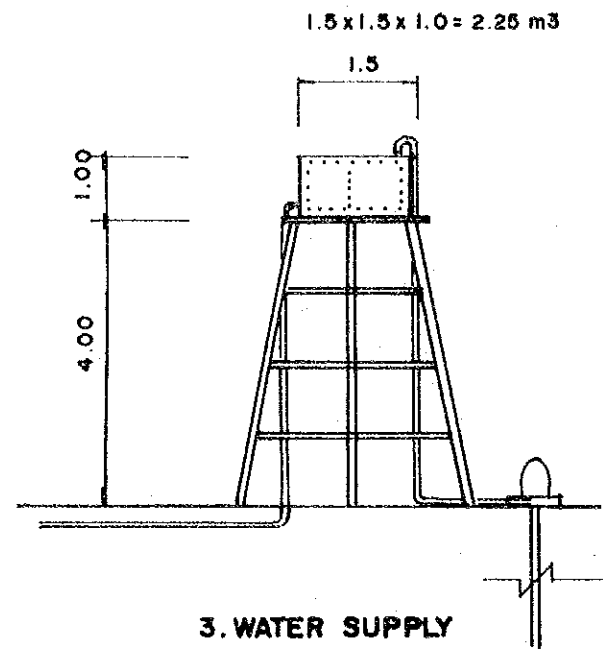


LEGEND

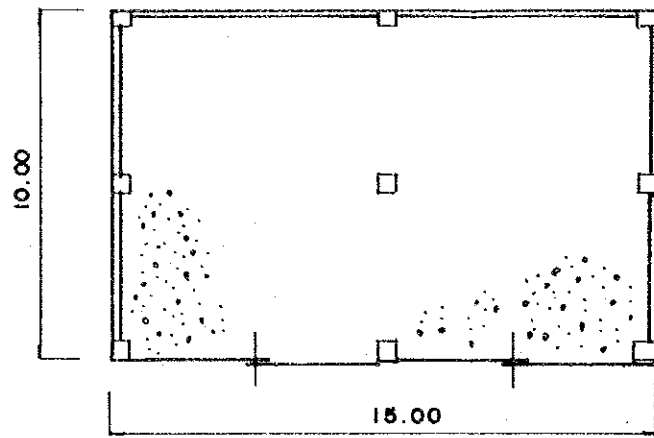
- PLANNING**
- RURAL ROAD IMPROVEMENT
 - BRIDGE CONSTRUCTION POINT
 - PUBLIC FACILITY
- EXISTING**
- NATIONAL ROAD
 - SECONDARY ROAD
 - RURAL ROAD
 - VILLAGE
 - EXISTING PUBLIC FACILITY
- EXISTING PLANNING UNDER JICA**
- RURAL WATER SUPPLY

TITLE OF DRAWING
RURAL DEVELOPMENT PLAN

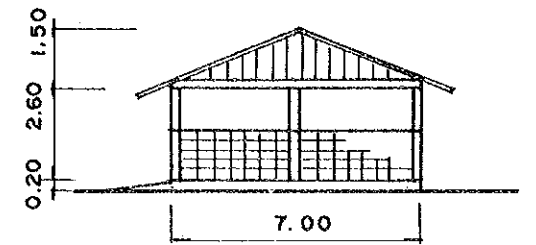
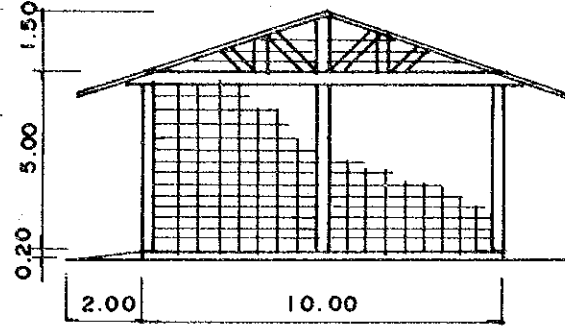
DRAWING NO.
 R - 1



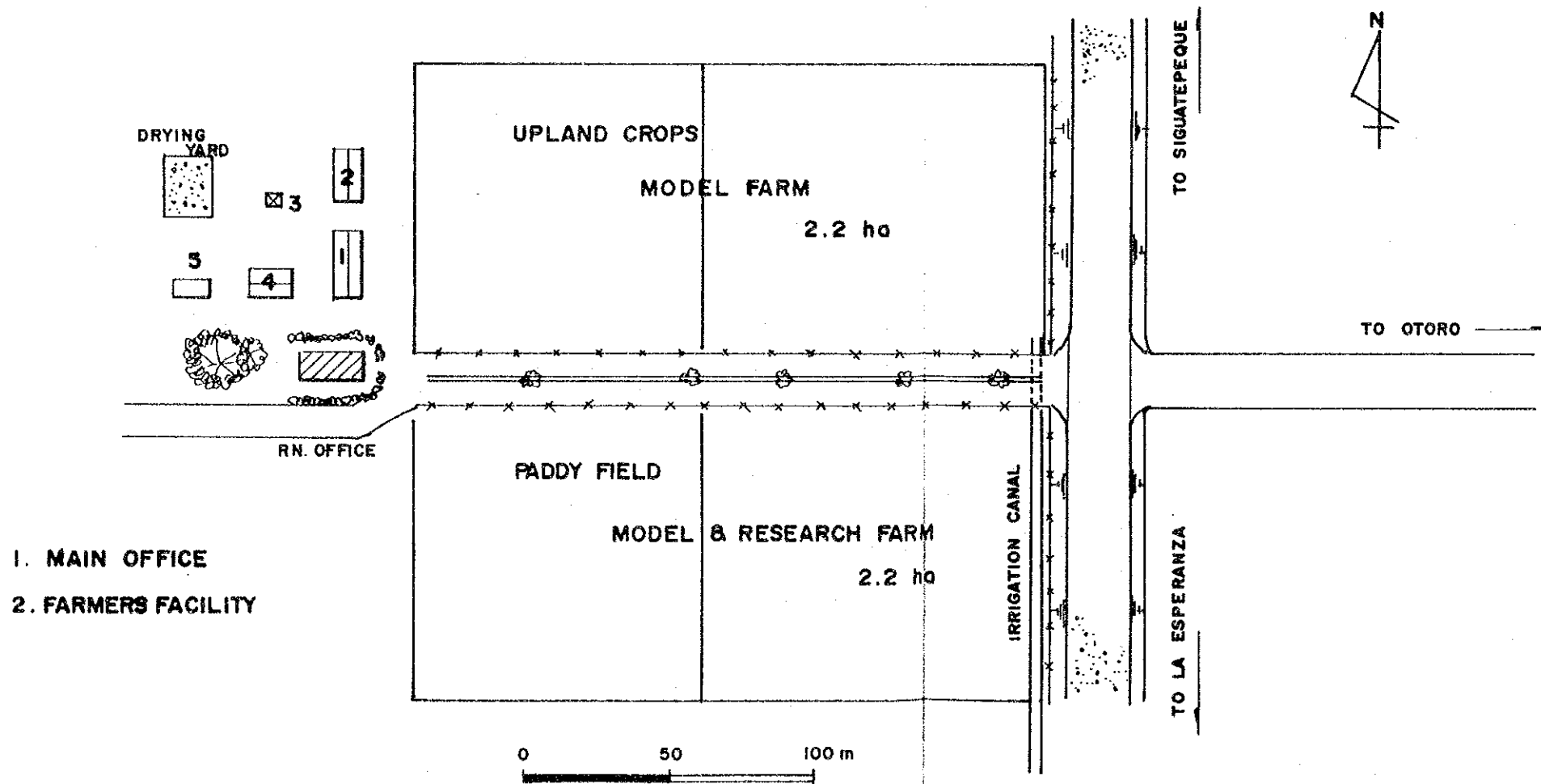
3. WATER SUPPLY



4. STORAGE

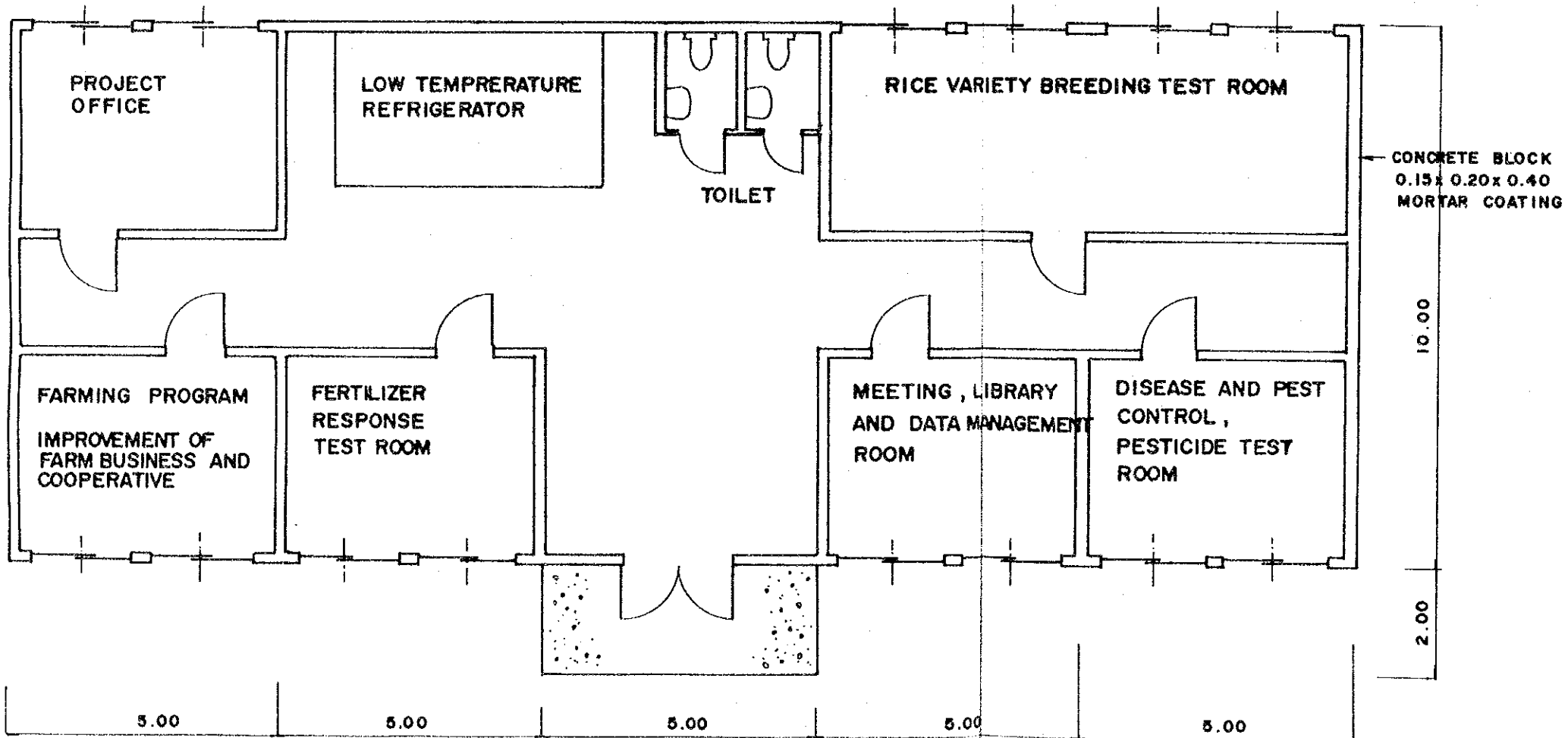
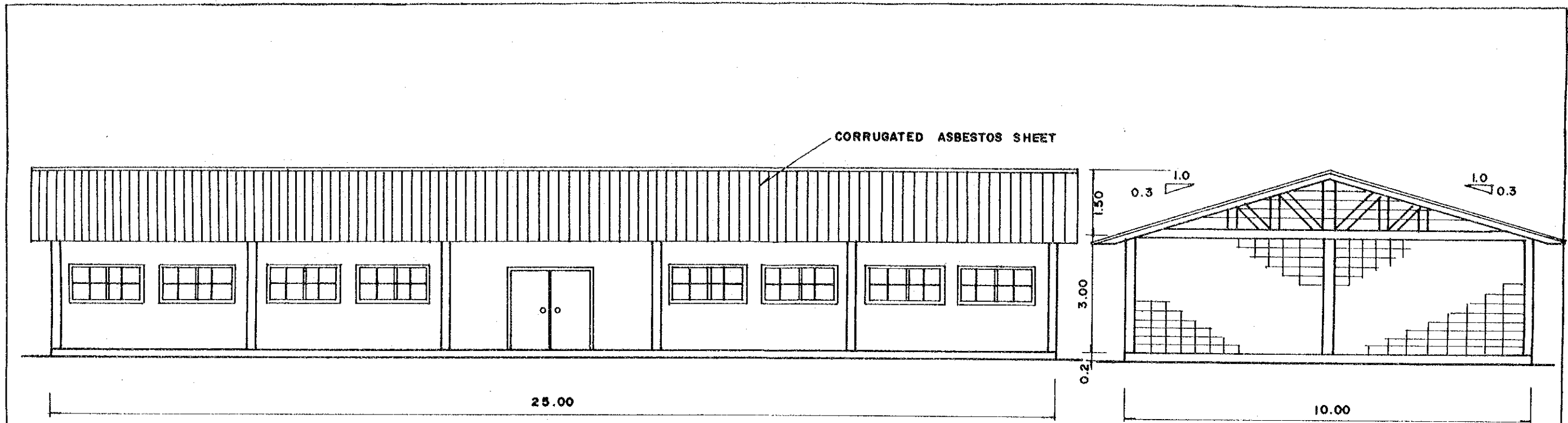


5. GARAGE

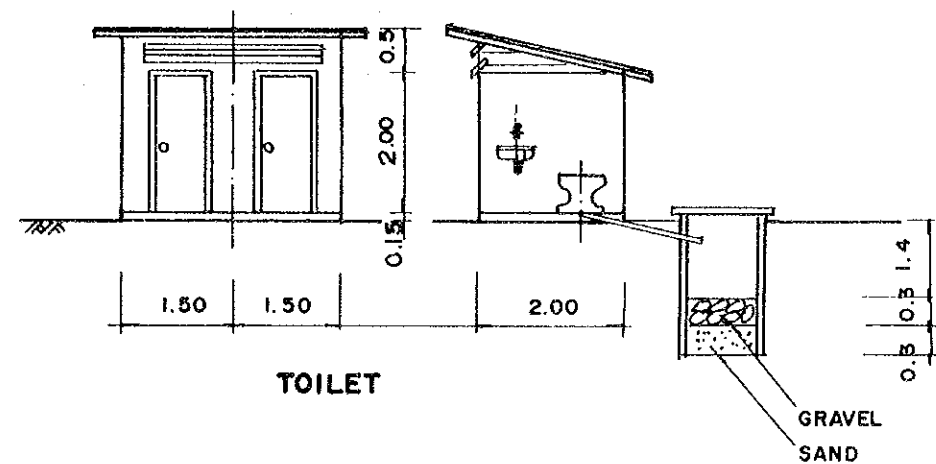
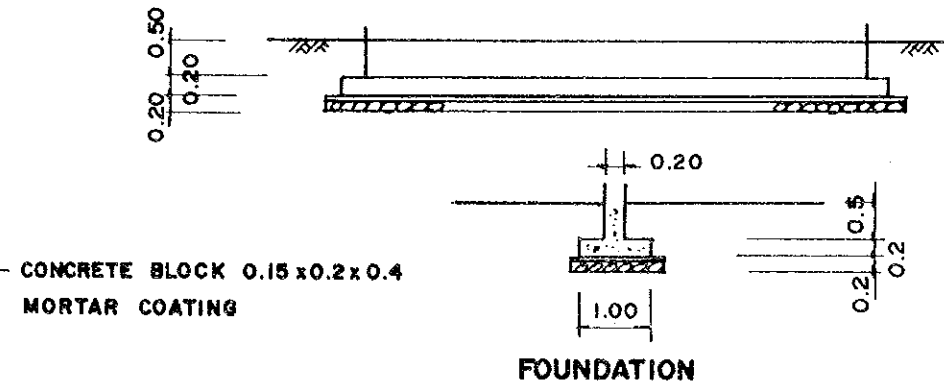
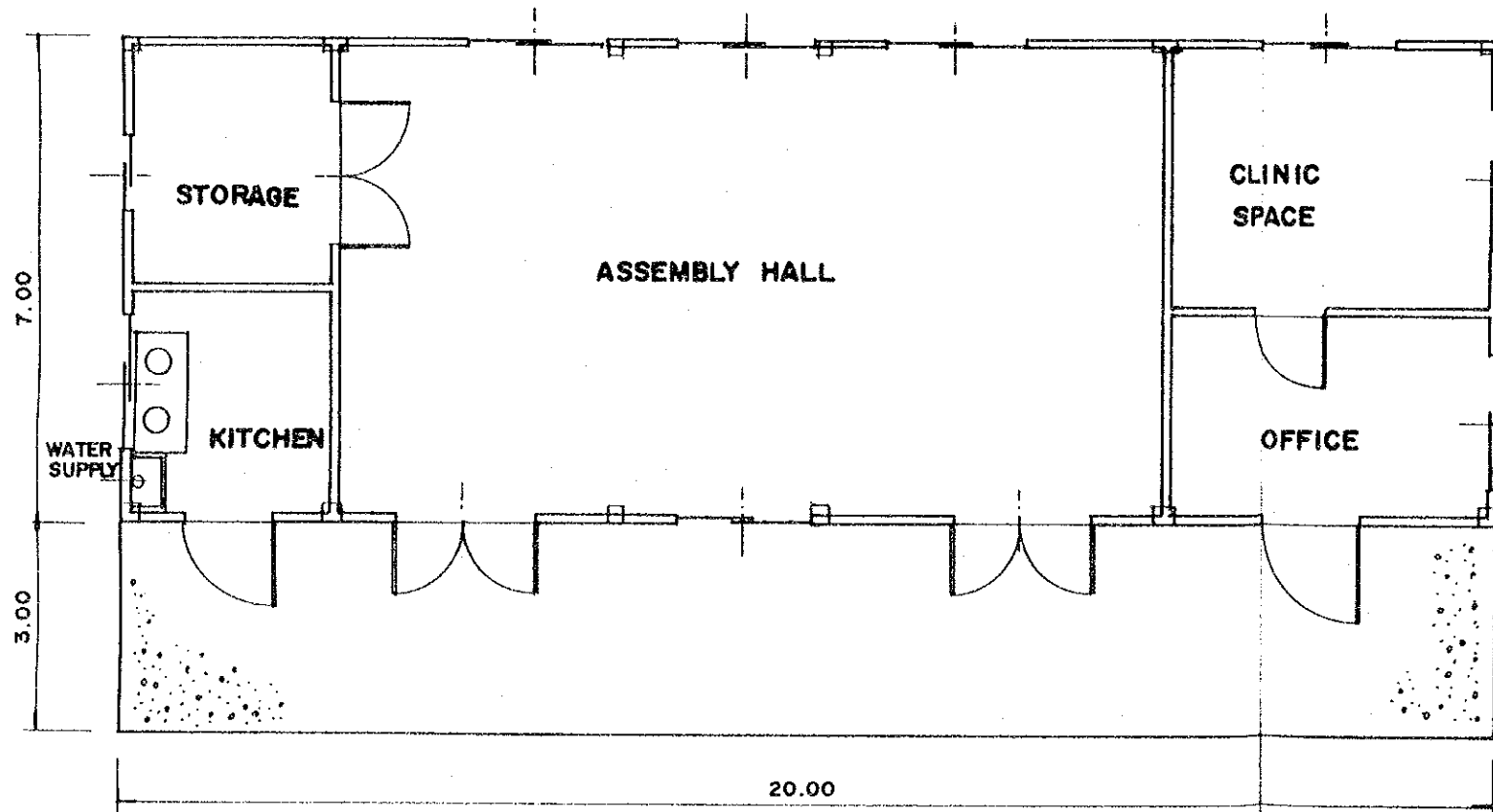
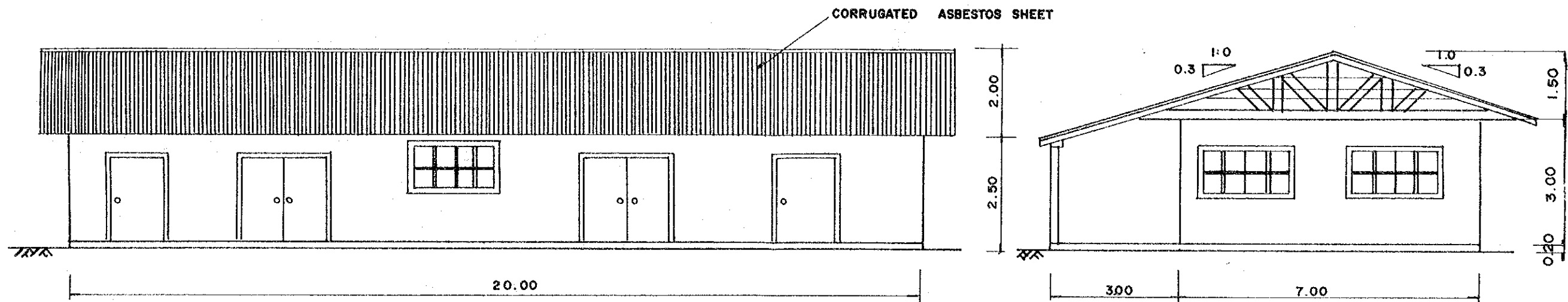


- 1. MAIN OFFICE
- 2. FARMERS FACILITY

TITLE OF DRAWING	
AGRICULTURAL DEVELOPMENT CENTER (1)	
DRAWING NO.	
R-2	

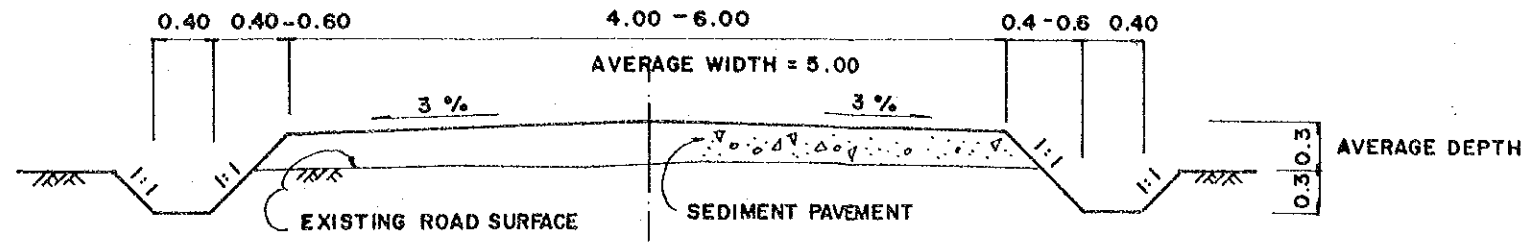


TITLE OF DRAWING AGRICULTURAL DEVELOPMENT CENTER (2)	
MAIN OFFICE	DRAWING NO. R-3

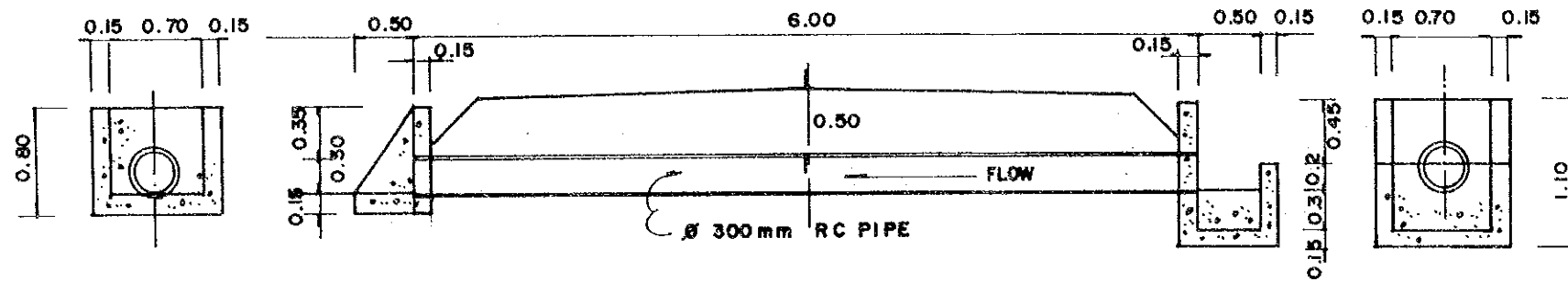


TITLE OF DRAWING RURAL DEVELOPMENT PUBLIC FACILITY (3)	
DRAWING NO. R-4	

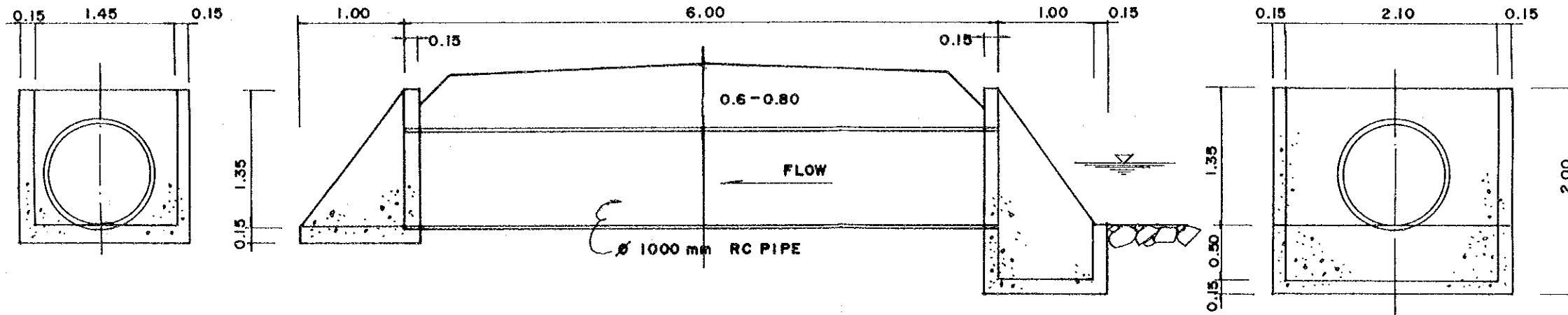
TYPICAL SECTION OF ROAD IMPROVEMENT



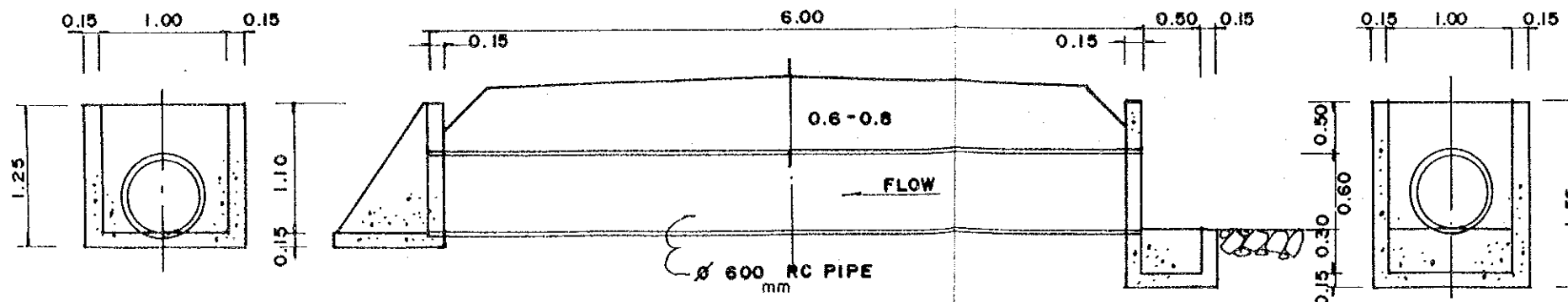
ROAD CROSS DRAIN (RCD) 0.3



ROAD CROSS DRAIN (RCD) 1.0



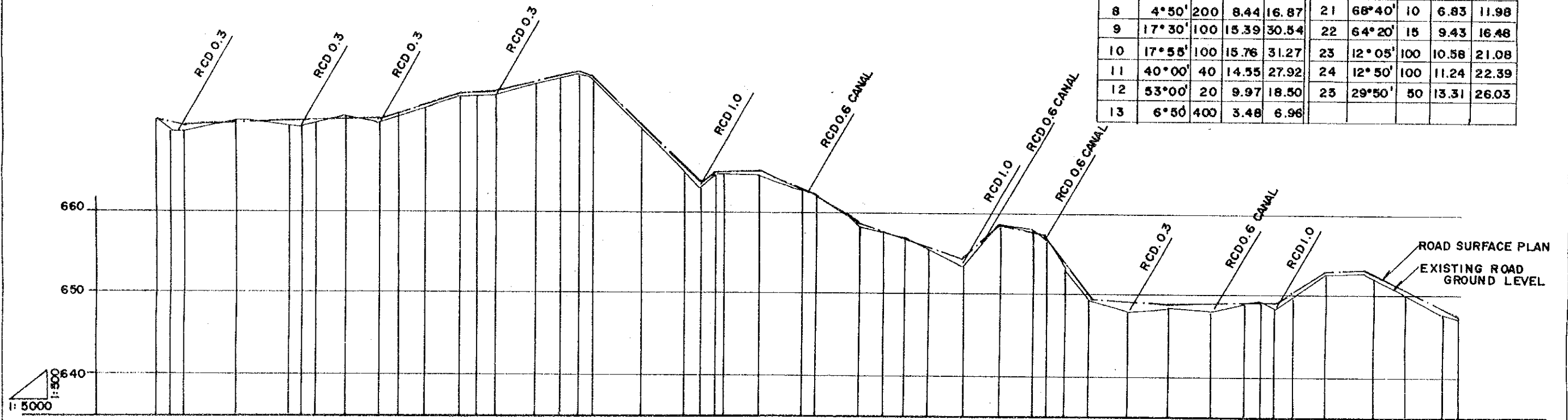
ROAD CROSS DRAIN (RCD) 0.6



TITLE OF DRAWING	
RURAL ROAD IMPROVEMENT ROAD & DRAINAGE STRUCTURE	
DRAWING NO.	
R-5	

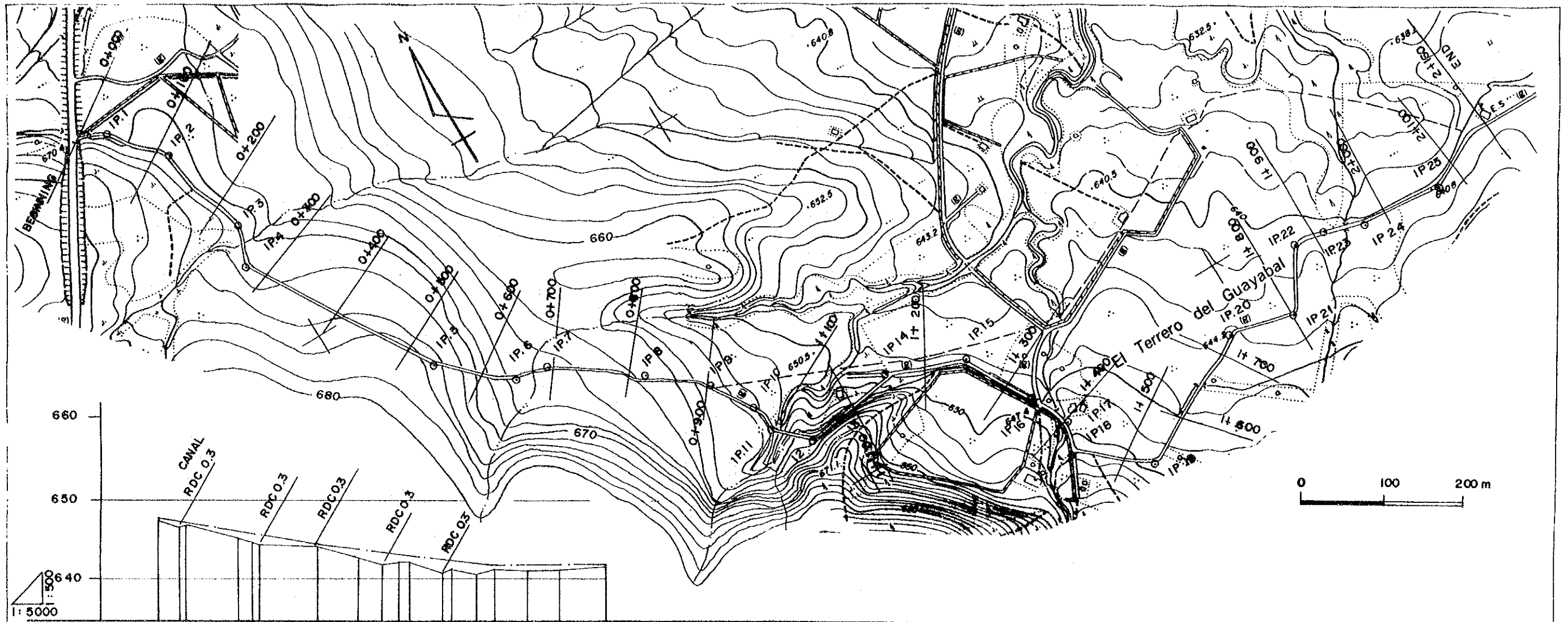
CURVE SETTING

IP	I	R	T	C	IP	I	R	T	C
1	39°30'	40	14.36	27.57	14	27°15'	50	12.11	23.78
2	17°30'	100	15.39	30.54	15	42°55'	20	7.86	14.98
3	30°40'	60	16.45	32.11	16	6°35'	100	5.75	11.49
4	44°50'	30	12.37	23.47	17	43°00'	20	7.87	15.00
5	13°40'	30	3.58	7.15	18	63°20'	20	12.33	22.10
6	34°00'	30	9.17	17.80	19	63°05'	15	9.20	16.51
7	27°40'	60	14.77	28.97	20	37°20'	10	3.37	6.51
8	4°50'	200	8.44	16.87	21	68°40'	10	6.83	11.98
9	17°30'	100	15.39	30.54	22	64°20'	15	9.43	16.48
10	17°55'	100	15.76	31.27	23	12°05'	100	10.58	21.08
11	40°00'	40	14.55	27.92	24	12°50'	100	11.24	22.39
12	53°00'	20	9.97	18.50	25	29°50'	50	13.31	26.03
13	6°50'	400	3.48	6.96					



CURVE SLOPE	BC EC 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19																		
	3.1% 2.1% 8.7% 3.3% 6.8% 2.9% 8.4 11.7% 6.0% 5.2%																		
ROAD SURFACE	671.40	670.10	671.30	674.45	675.00	677.10	678.40	664.30	662.00	658.60	657.10	656.80	654.80	658.50	656.30	649.60	648.30	652.60	647.50
GROUND LEVEL	671.37	669.90	670.60	674.15	674.83	675.74	676.83	664.26	662.60	658.30	656.80	653.36	653.36	648.07	648.24	648.24	648.24	649.03	649.30
ACCUMULAT DISTANCE	0	20.00	163.23	382.69	421.19	471.19	521.19	744.69	800.00	870.00	900.00	930.00	1000.00	1044.00	1086.29	1157.07	1200.00	1443.08	1500.00
DISTANCE	0	20.00	63.23	17.31	32.69	50.00	17.31	21.19	59.47	52.25	26.00	21.75	44.69	55.31	19.40	50.60	30.00	56.48	43.52
STATION	0+000	0+100	0+200	0+300	0+400	0+500	0+600	0+700	0+800	0+900	1+000	1+100	1+200	1+300	1+400	1+500	1+600		

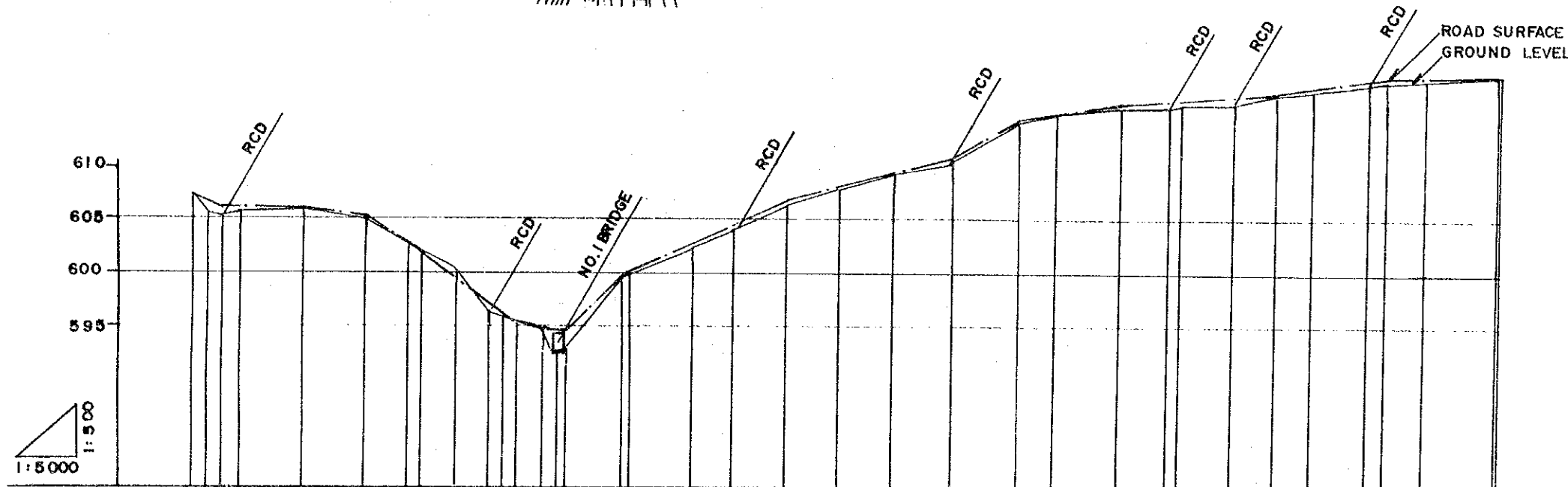
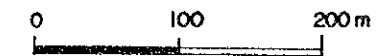
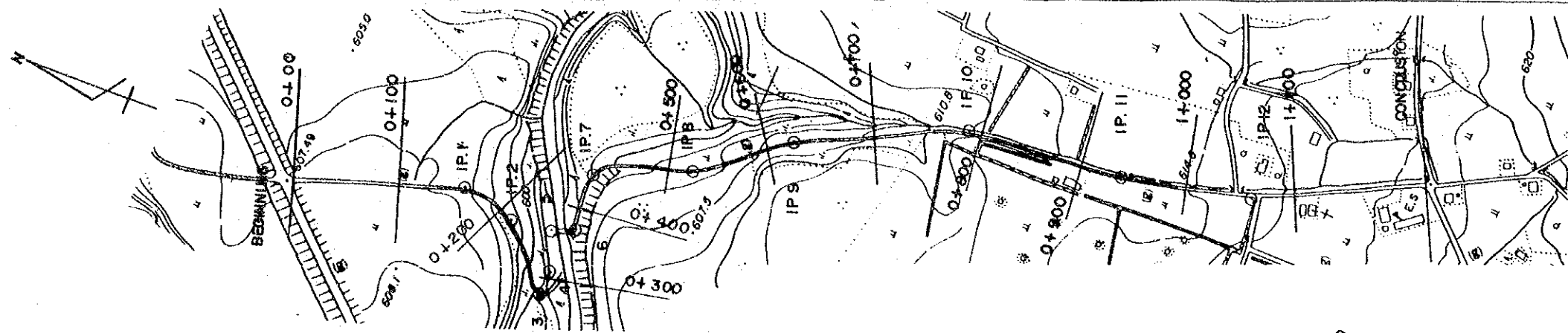
TITLE OF DRAWING
RURAL ROAD IMPROVEMENT
 ROUTE-A 1/2 DRAWING NO
 R-6



CURVE	1.7% 20 21 22 23 24 25																				
SLOPE	1.2%																				
ROAD SURFACE	647.50										641.70										
GROUND LEVEL	647.35	646.29	646.55	645.00	644.70	644.09	644.05	642.85	641.95	642.00	642.07	640.30	641.04	640.58	641.17	641.50	641.00	641.05	641.57	641.70	
ACCUMULATED DISTANCE	1600.00	1626.55	1633.55	1700.00	1719.69	1728.69	1800.00	1850.00	1881.71	1900.00	1916.48	1966.48	1982.87	2000.00	2019.39	2069.00	2100.00	2160.00	2160.00	2160.00	2160.00
DISTANCE	10.25	26.55	7.00	66.45	19.69	9.00	71.31	50.00	31.71	18.29	16.48	50.00	16.39	30.61	19.39	49.61	31.00	60.00	60.00	60.00	60.00
STATION	1+600			1+700			1+800			1+900		2+000				2+100		2+160	2+160	2+160	2+160
																					END

TITLE OF DRAWING
RURAL ROAD IMPROVEMENT

ROUTE-A 2/2 DRAWING NO
 R-7



CURVE SETTING

IP	I	R	T	C	BC	EC
1	36° 10'	20	6.53	12.18	153.47	165.65
2	34° 30'	40	12.42	24.07	202.70	226.77
3	129° 10'	10	21.04	22.53	265.81	288.34
4	13° 45'	8	0.96	1.92	288.34	290.26
5	79° 10'	10	8.27	13.81	322.73	336.54
6	54° 25'	5	2.57	4.74	345.70	350.44
7	68° 20'	10	6.79	11.92	400.58	412.50
8	21° 00'	60	11.12	21.98	489.59	511.57
9	17° 20'	100	15.24	30.23	585.21	615.44
10	18° 40'	80	13.14	26.05	750.06	776.11
11	11° 55'	150	15.65	31.18	895.32	926.50
12	9° 30'	200	16.62	33.16	1019.23	1052.39

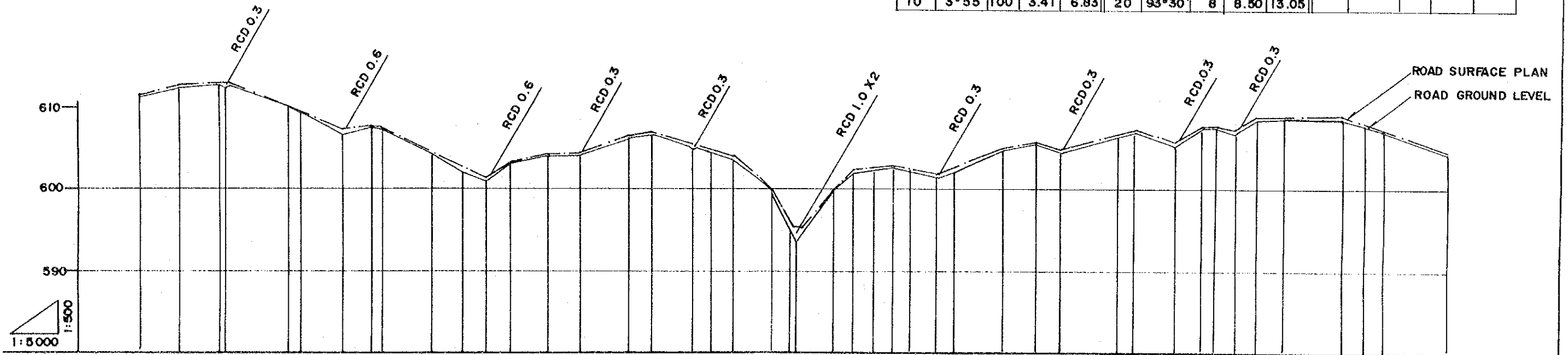
CURVE SLOPE																																				
ROAD SURFACE	607.38	606.00	606.00	605.40	595.60	594.80	594.80	598.30	606.80	610.50	614.00	616.90	618.10	618.60																						
GROUND LEVEL	607.38	605.53	605.94	605.26	603.00	602.17	600.83	596.14	595.88	595.50	594.69	592.30	593.09	598.17	599.40	602.33	604.07	606.50	608.02	609.40	610.18	613.95	614.80	615.08	615.50	615.66	615.93	616.67	617.05	617.68	617.80	617.95	618.56	618.56		
ACCUMULATED DISTANCE	0.00	28.70	38.00	100.00	159.56	200.00	214.73	244.13	277.07	288.30	300.00	329.63	338.70	348.07	400.00	406.54	456.54	500.00	550.00	600.00	650.00	700.00	763.09	800.00	858.20	900.00	910.91	960.91	1000.00	1035.81	1085.00	1100.00	1132.00	1200.00	1202.39	
DISTANCE	10.00	10.70	17.30	62.00	59.56	40.44	14.73	30.00	32.34	12.23	10.70	29.63	10.07	8.37	51.93	6.54	50.00	43.46	50.00	50.00	50.00	50.00	63.09	36.91	58.20	41.80	10.91	50.00	39.09	35.81	49.19	15.00	32.00	68.00	2.39	
STATION	0+00			0+100		0+200		0+300		0+400		0+500		0+600		0+700		0+800		0+900		1+000		1+100		1+200	END									

TITLE OF DRAWING
RURAL ROAD IMPROVEMENT

ROUTE-B DRAWING NO
R-8

CURVE SETTING

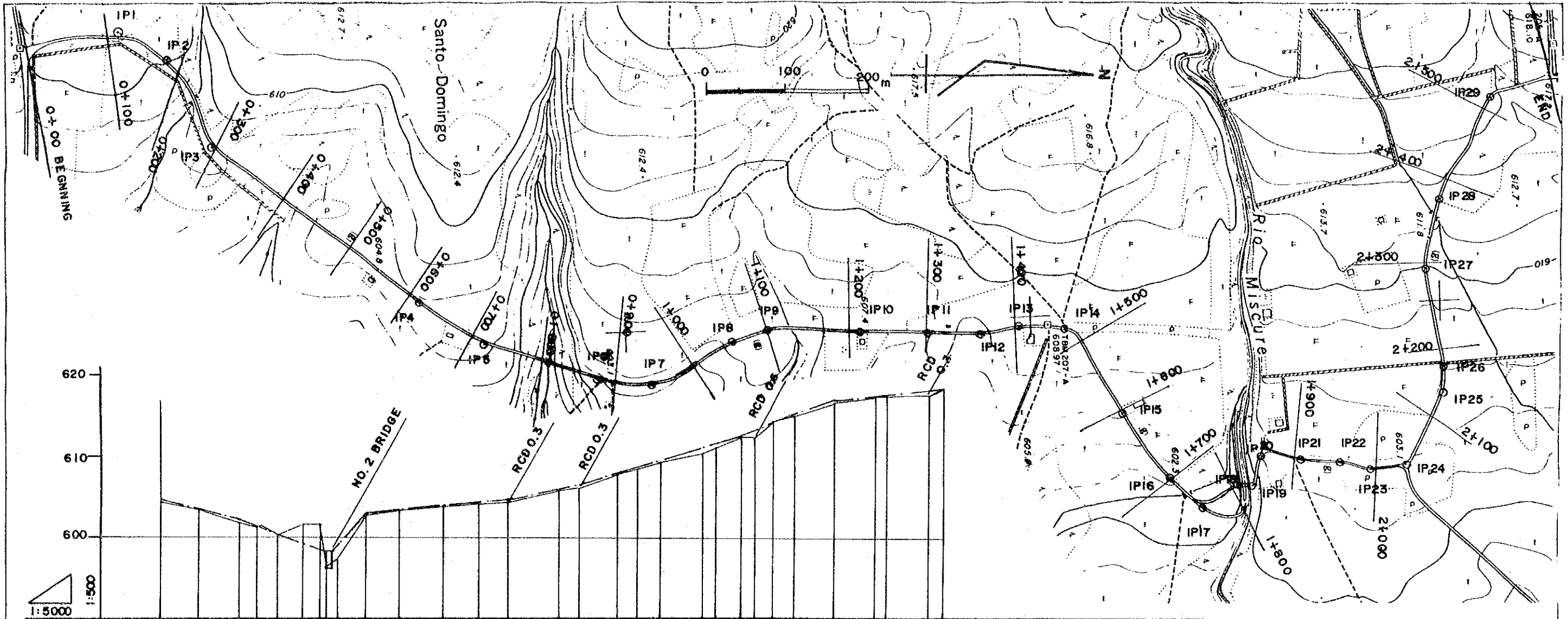
IP	I	R	T	C	IP	I	R	T	C	IP	I	R	T	C
1	39°20'	50	17.86	34.32	11	1°05'	200	1.89	378	21	14°35'	100	12.79	25.45
2	33°15'	60	17.91	34.81	12	14°55'	100	13.09	26.03	22	19°10'	100	16.88	33.45
3	27°40'	80	19.69	38.62	13	21°30'	50	9.49	18.76	23	34°15'	40	12.32	23.91
4	12°50'	80	8.99	17.91	14	52°30'	25	12.32	22.90	24	48°35'	20	9.02	16.95
5	1°45'	100	1.52	3.05	15	6°10'	200	10.77	21.52	25	19°20'	100	17.03	34.74
6	23°10'	150	30.74	60.65	16	18°30'	100	16.28	32.28	26	20°50'	80	14.70	29.08
7	32°10'	50	14.41	28.07	17	79°55'	10	8.37	13.94	27	26°30'	80	18.83	37.00
8	13°15'	100	11.61	23.12	18	32°25'	10	3.19	6.18	28	15°00'	80	10.53	20.94
9	21°20'	50	9.41	18.61	19	71°10'	10	7.15	12.42	29	47°00'	10	4.34	8.20
10	3°55'	100	3.41	6.83	20	93°30'	8	8.50	13.05					



CURVE SLOPE	BC EC																													
	IP 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15															
ROAD SURFACE	611.80	612.50	612.70	606.80	607.60	601.30	603.20	604.20	604.10	606.20	606.50	603.80	596.70	595.10	602.20	602.70	601.60	605.00	605.50	604.70	607.30	605.70	607.60	607.10	608.90	604.50				
GROUND LEVEL	611.71	612.34	612.55	606.34	607.43	600.72	602.95	604.00	603.91	606.08	606.34	603.60	596.65	595.37	602.04	602.15	601.35	604.84	605.35	604.41	607.14	605.32	607.46	607.38	608.69	604.30				
ACCUMULAT DISTANCE	0	50.00	100.00	250.09	286.09	420.21	454.21	500.00	539.31	600.00	628.80	675.80	764.76	800.00	874.35	900.00	978.06	1059.11	1100.00	1128.28	1200.00	1268.88	1300.00	1342.39	1368.80	1472.65	1600.00			
DISTANCE	0	50.00	50.00	50.09	36.00	13.91	54.21	45.79	39.31	60.69	28.80	47.00	24.20	24.76	64.09	25.65	34.50	59.11	40.89	28.28	71.72	50.00	31.12	19.39	23.00	26.41	72.65	27.35	22.65	77.35
STATION	0+000	0+100	0+200	0+300	0+400	0+500	0+600	0+700	0+800	0+900	1+000	1+100	1+200	1+300	1+400	1+500	1+600													

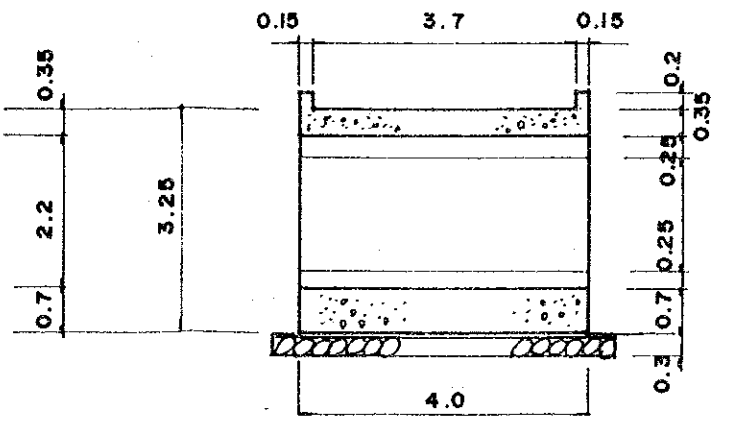
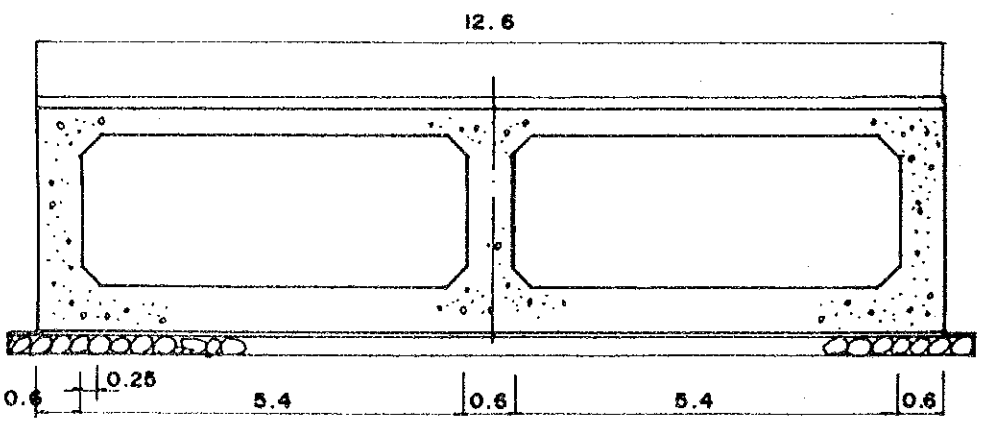
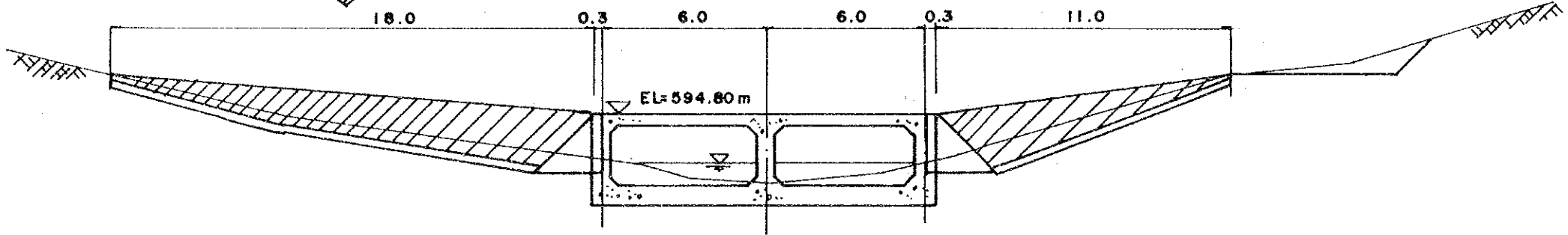
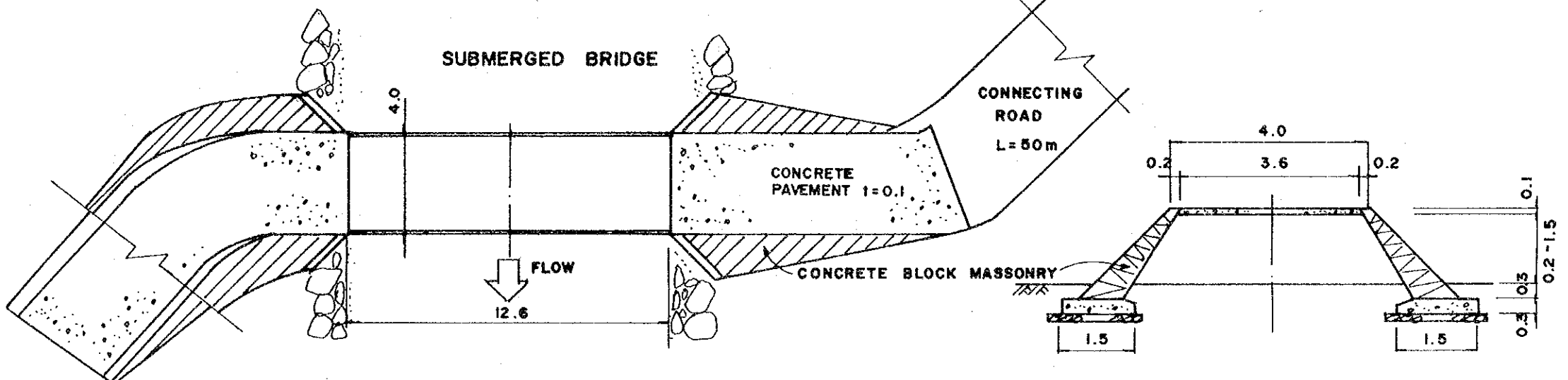
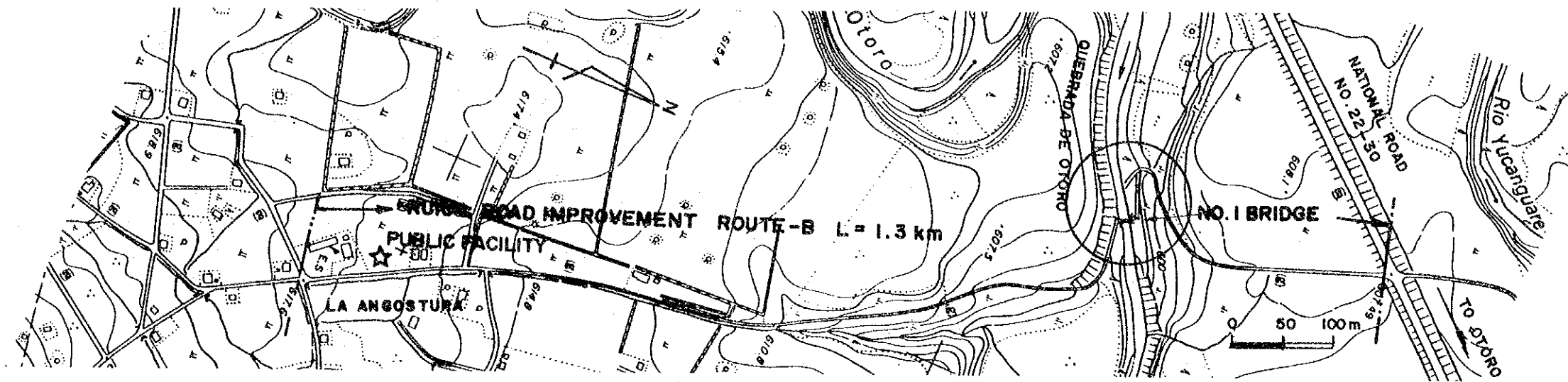
TITLE OF DRAWING
RURAL ROAD IMPROVEMENT

ROUTE-C 1/2 DRAWING NO
 R - 9

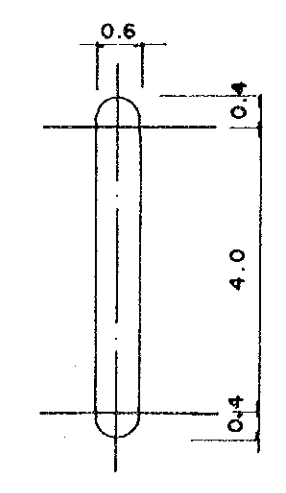
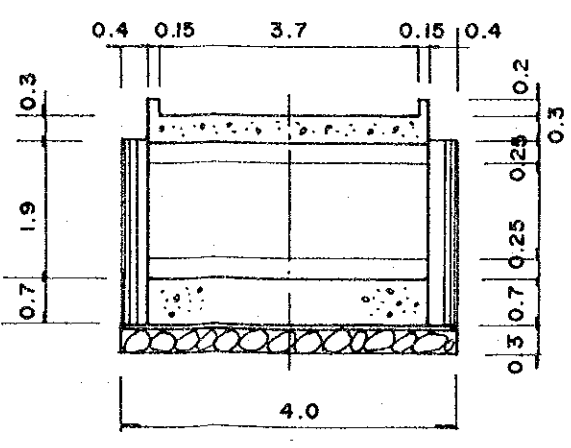
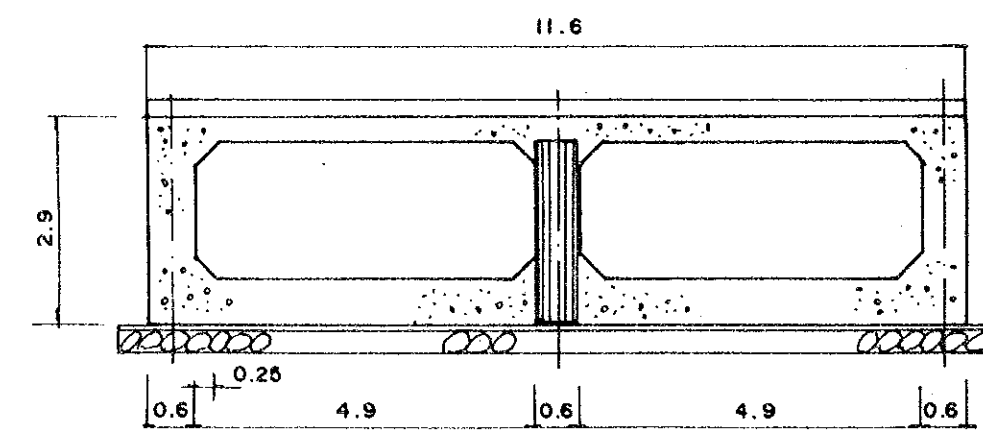
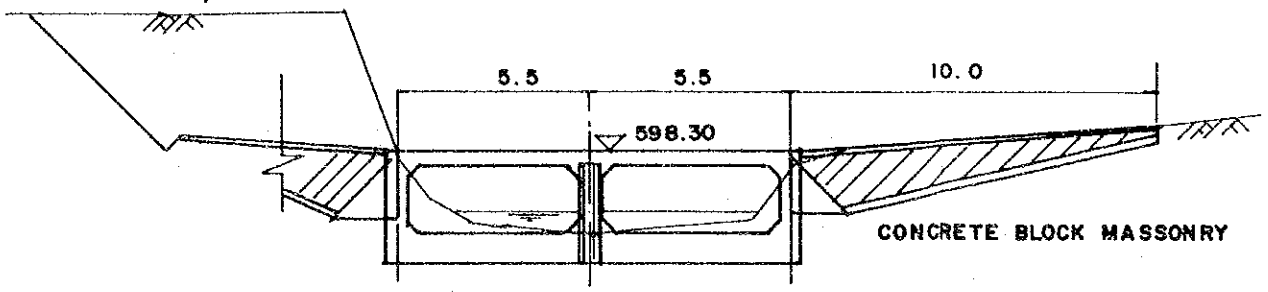
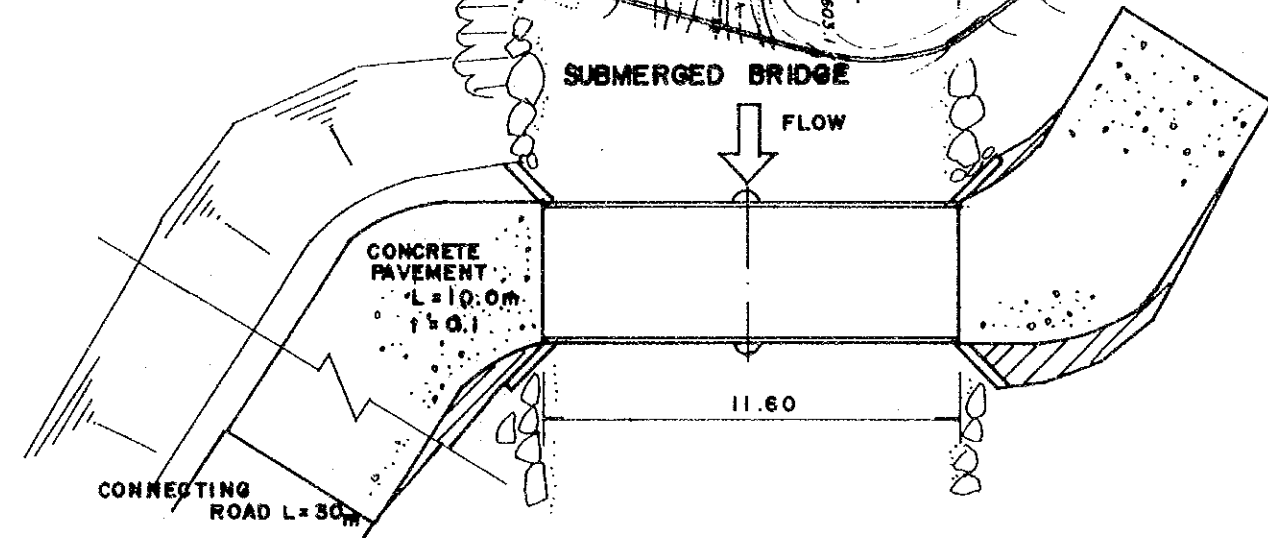
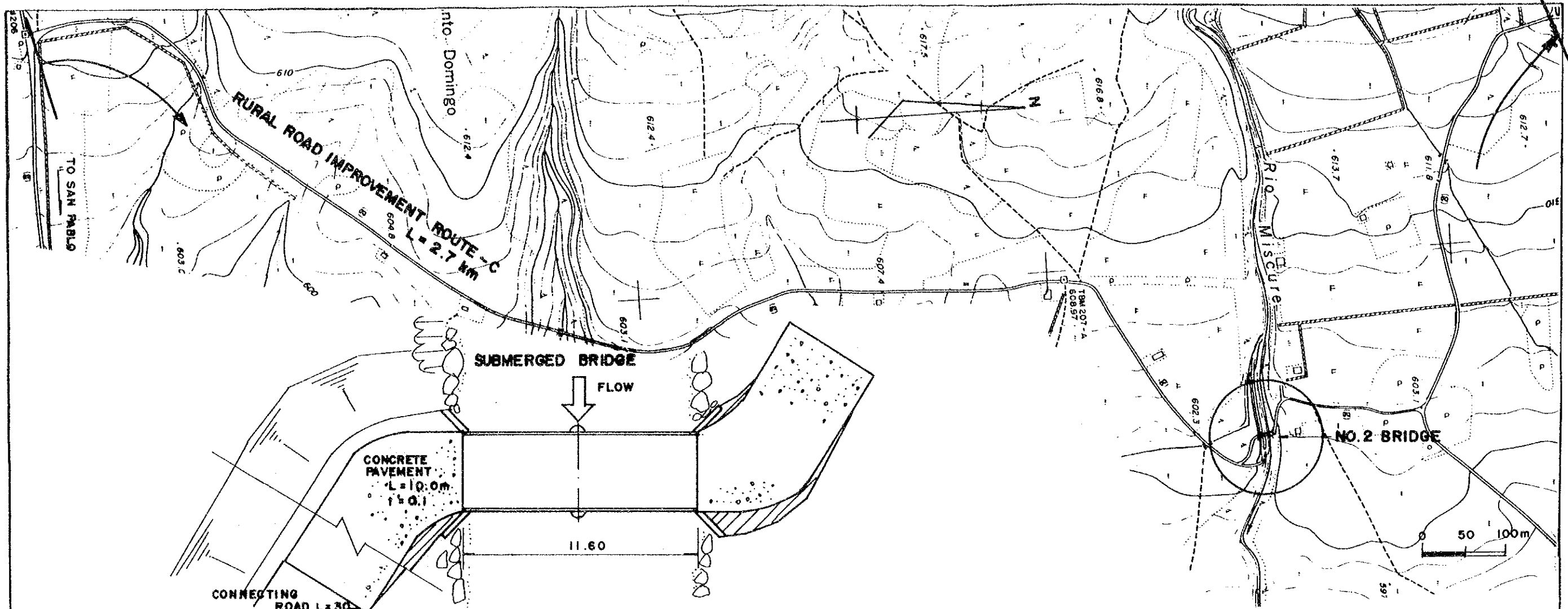


CURVE													
SLOPE	16	17	18	19	20	21	22	23	24	25	26	27	28
ROAD SURFACE													
GROUND LEVEL	604.50	604.30	603.29	602.10	601.91	601.17	600.12	601.63	598.30	602.80			
ACCUMULAT DISTANCE	1600.00	1646.77	1700.00	1729.00	1761.58	1800.00	1813.08	1821.04	1856.82	1900.00	1955.86	2000.00	2036.44
DISTANCE	27.35	46.77	53.23	29.00	32.58	30.00	8.42	13.08	35.58	43.38	55.86	44.14	36.44
STATION	1+600	1+700	1+800	1+900	2+000	2+100	2+200	2+300	2+400	2+500	2+585		

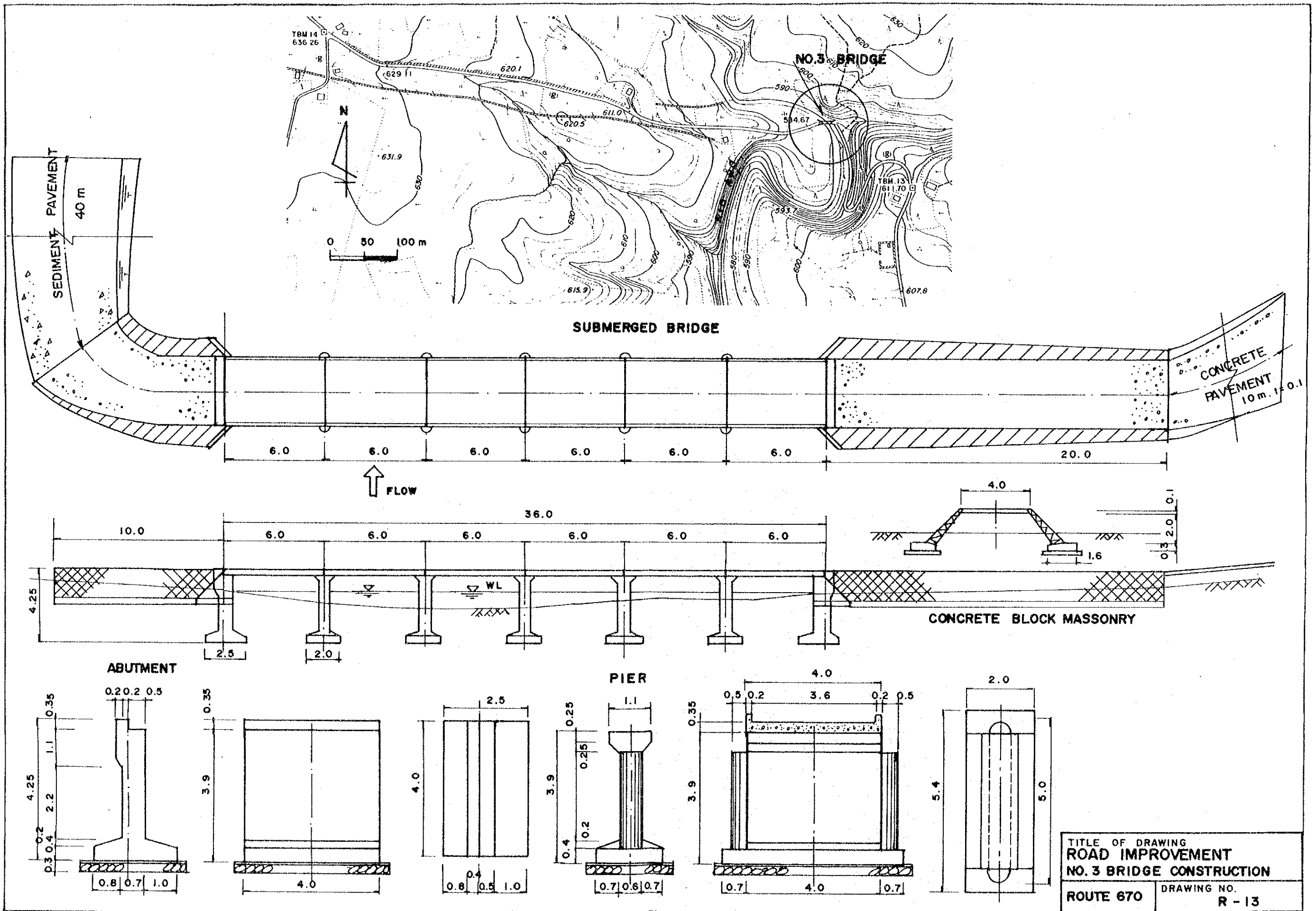
TITLE OF DRAWING
 RURAL ROAD IMPROVEMENT
 ROUTE-C 2/2 DRAWING NO
 R-10



TITLE OF DRAWING	
RURAL ROAD IMPROVEMENT	
ROUTE - B NO. 1 BRIDGE	
DRAWING NO.	R-11



TITLE OF DRAWING	
RURAL ROAD IMPROVEMENT	
ROUTE - C NO. 2 BRIDGE	
DRAWING NO.	R-12



TITLE OF DRAWING ROAD IMPROVEMENT NO. 3 BRIDGE CONSTRUCTION	
ROUTE 670	DRAWING NO. R - 13

JICA