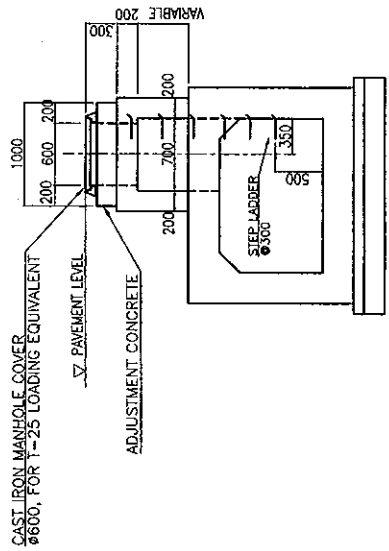
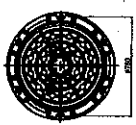


PLAN  
SCALE 1:25



SECTION A-A  
SCALE 1:25



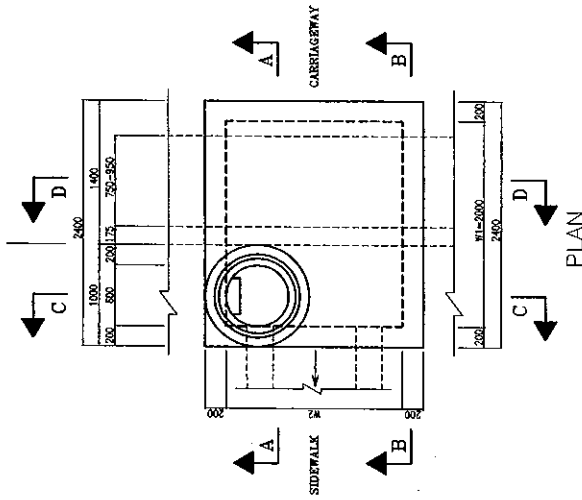
ø600  
FOR T-14 & T-25  
LOADING EQUIVALENT  
DETAIL OF CAST IRON MANHOLE COVER  
SCALE 1:20



DETAIL OF STEP LADDER  
SCALE 1:10

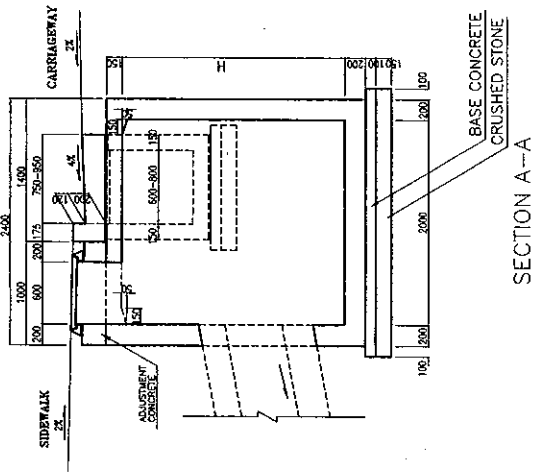
TYPE-A (FOR MEDIAN)

DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	TITLE:	DRAWING No:	REV.
			MANHOLES TYPE A	DR-81	
			SCALE:	As Shown	

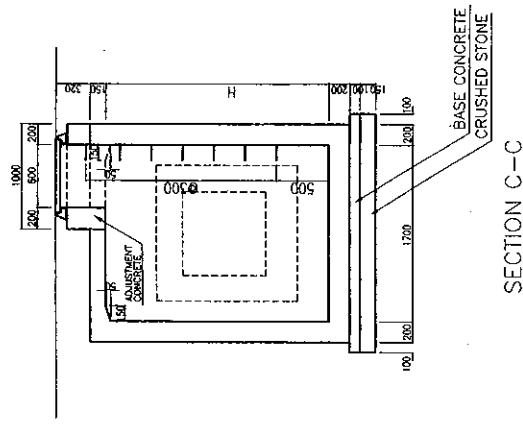


DIMENSION TABLE

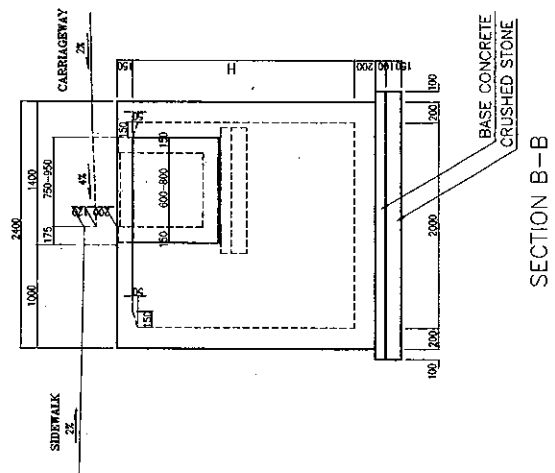
TYPE	W1	W2	H
B-20-10-10	2000	1000	1000
B-20-10-15	2000	1000	1500
B-20-10-20	2000	1000	2000
B-20-15-20	2000	1500	2000



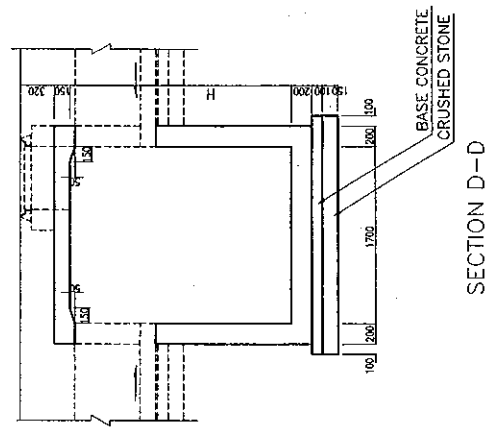
SECTION A-A



SECTION C-C

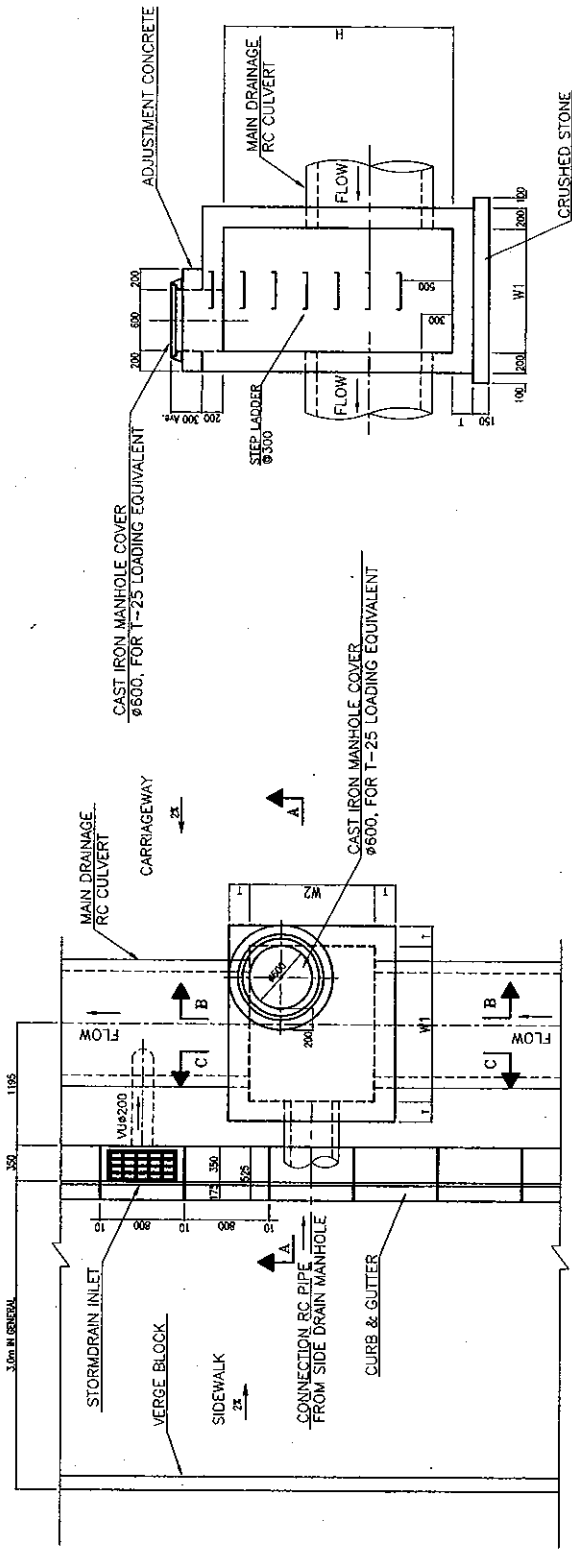


SECTION B-B



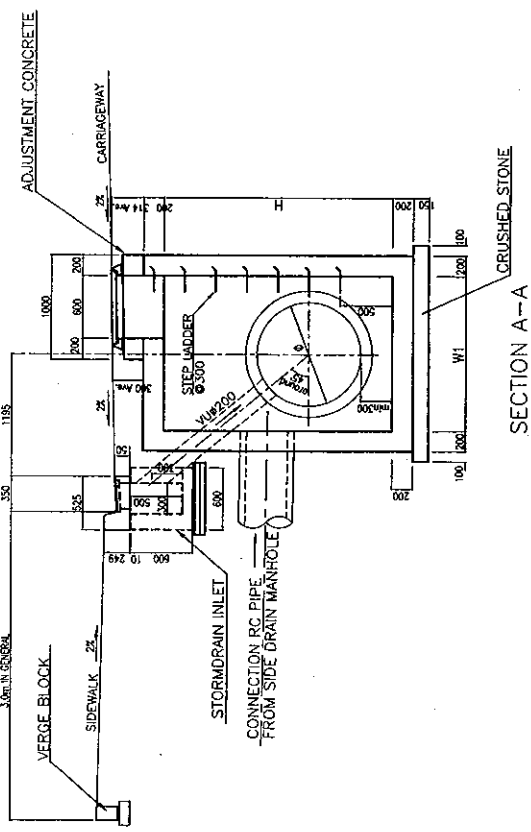
SECTION D-D

DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	TITLE:	MANHOLES TYPE--B	SCALE:	1:50	DRAWING No:	DR-82	Rev:



SECTION B-B

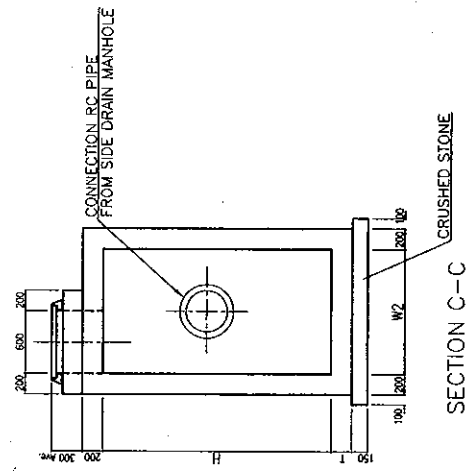
PLAN



SECTION A-A

DIMENSION TABLE

TYPE	W1	W2	H
C10-10-15	1000	1000	1500
C10-10-20	1000	1000	2000
C10-10-25	1000	1000	2500
C10-10-30	1000	1000	3000
C12-10-15	1200	1000	1500
C12-10-20	1200	1000	2000
C12-10-25	1200	1000	2500
C12-10-30	1200	1000	3000
C12-12-20	1200	1200	2000
C12-12-25	1200	1200	2500
C12-12-30	1200	1200	3000
C15-10-20	1500	1000	2000
C15-10-25	1500	1000	2500
C15-10-30	1500	1000	3000
C15-12-22	1500	1200	2200
C15-15-20	1500	1500	2000
C15-15-25	1500	1500	2500
C15-15-35	1500	1500	3500
C15-20-35	1500	2000	3500



SECTION C-C

MANHOLES TYPE-C (INSIDE CARRIAGEWAY)

DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION  
TRANSPORT, POST AND CONSTRUCTION  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

BASIC DESIGN STUDY ON THE PROJECT FOR THE  
IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

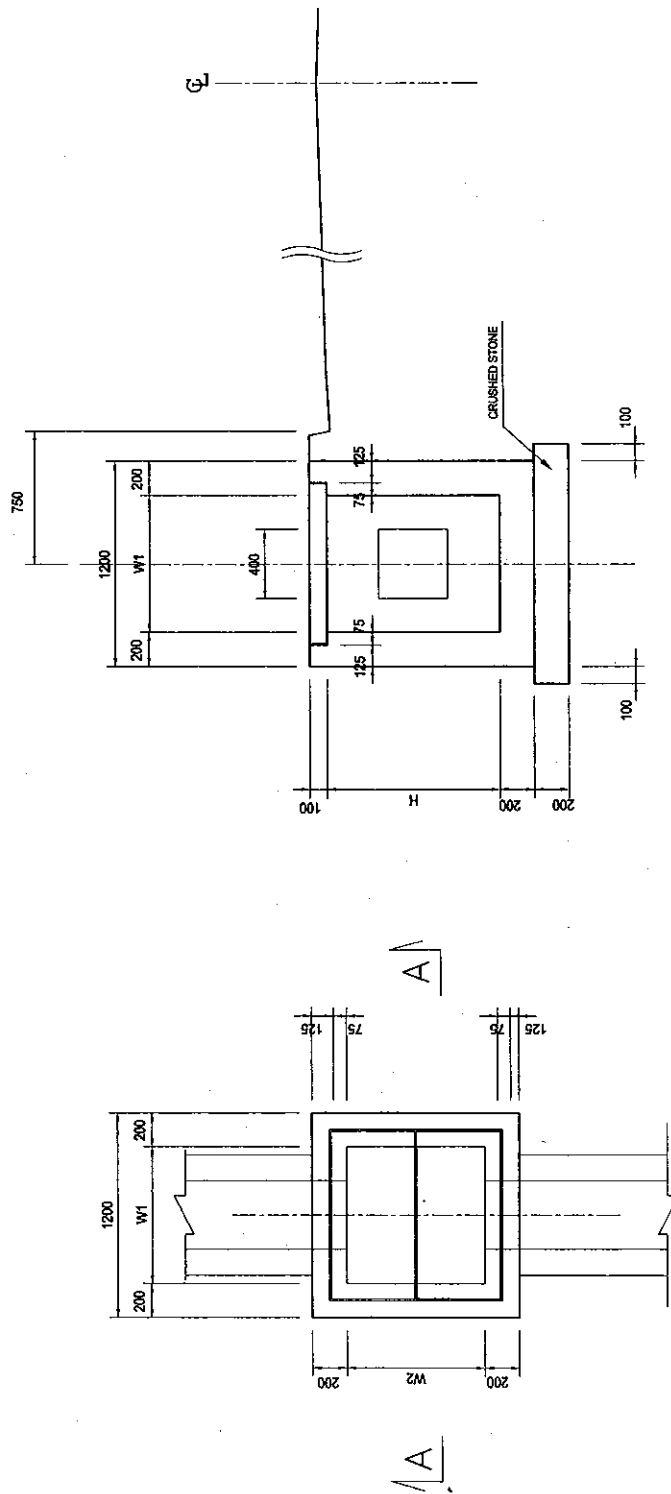
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO.LTD

TITLE:  
MANHOLES TYPE-C

SCALE:  
1:50

DRAWING No:  
DR-83

R.V.



DIMENSION TABLE

TYPE	W1	W2	H
D8-8-10	800	800	1000
D8-8-15	800	800	1500
D8-8-20	800	800	2000
D10-10-10	1000	1000	1000
D10-10-15	1000	1000	1500
D10-10-20	1000	1000	2000

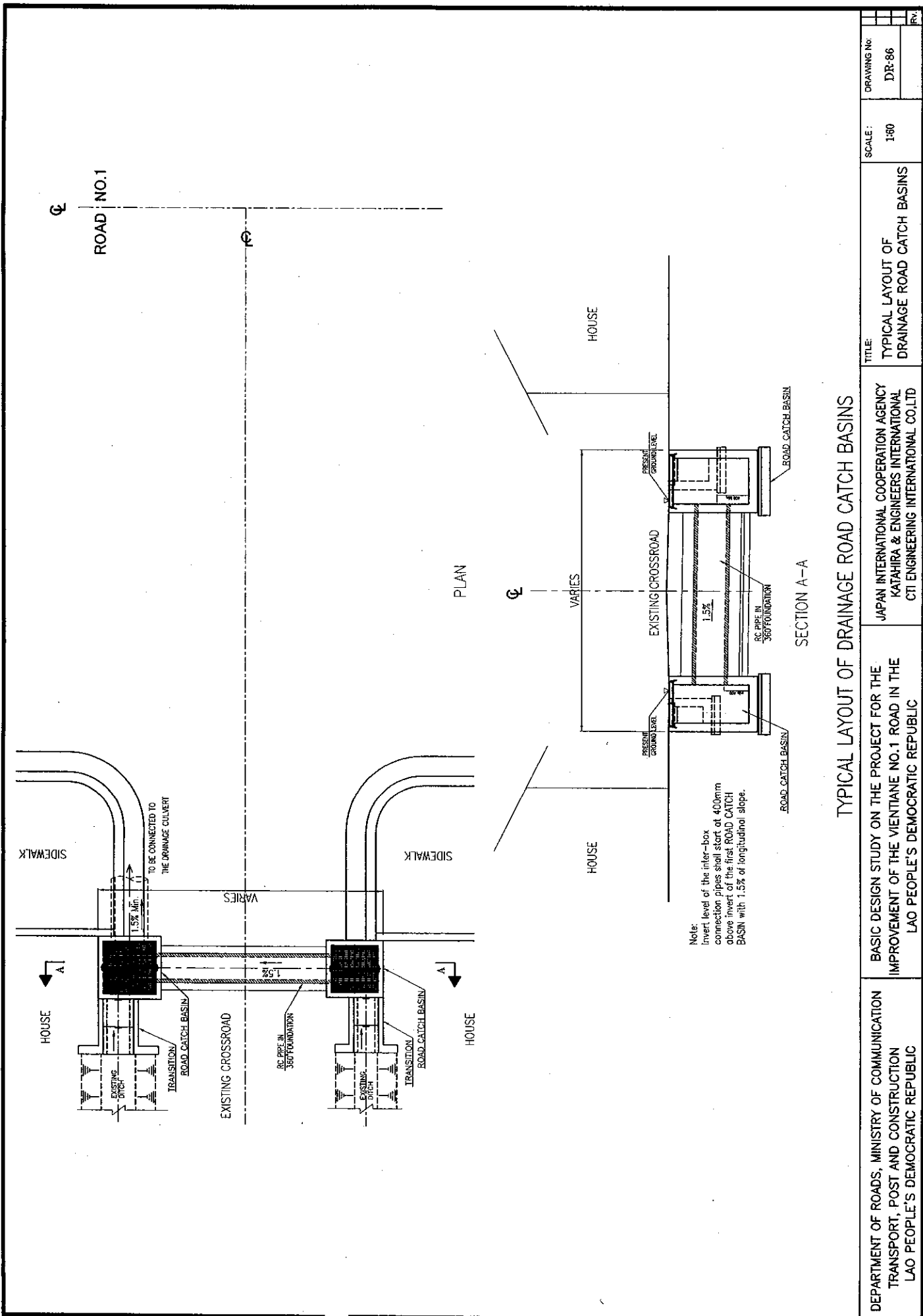
SECTION A-A

PLAN

MANHOLES TYPE-D  
(FOR BOX INSIDE SIDEWALK)  
(対BOX歩道内)

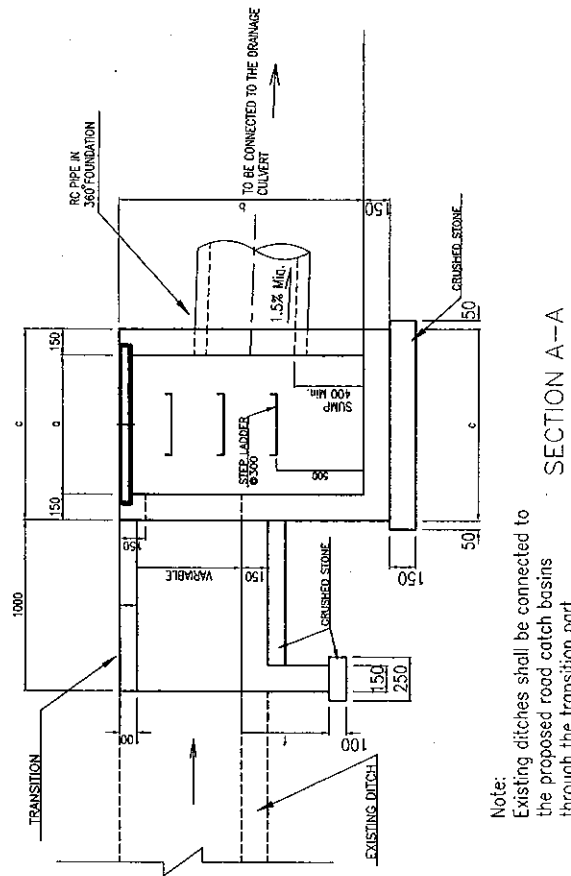
DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO, LTD	TITLE:	MANHOLES TYPE-D	SCALE:	1:30	DRAWING No:	DR-84





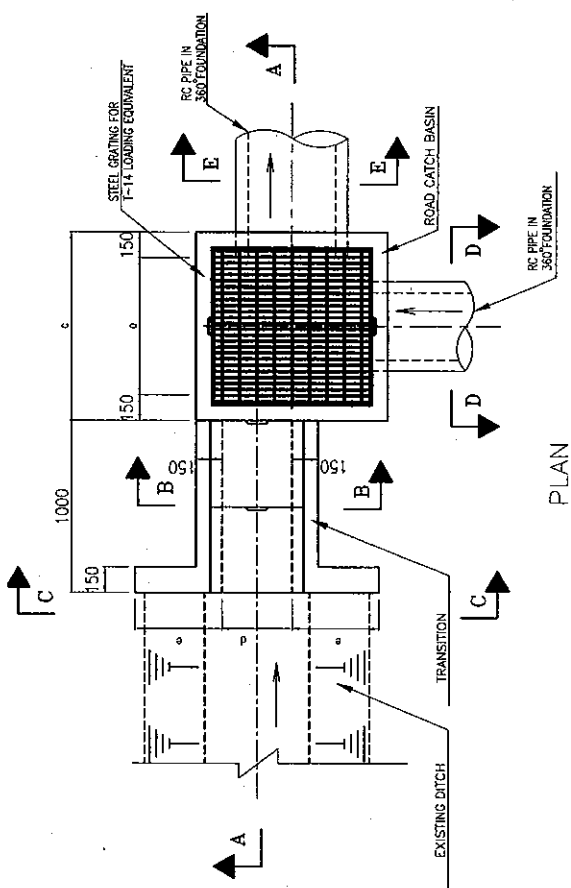
TYPICAL LAYOUT OF DRAINAGE ROAD CATCH BASINS

DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	TITLE: TYPICAL LAYOUT OF DRAINAGE ROAD CATCH BASINS	SCALE: 1:80	DRAWING No: DR-86	REV.
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SECTION A-A

Note:  
Existing ditches shall be connected to the proposed road catch basins through the transition part.

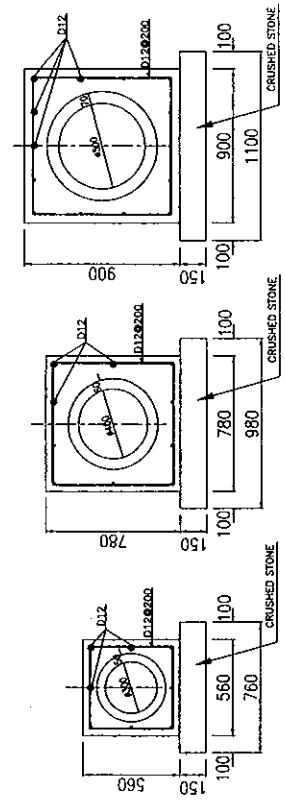


PLAN

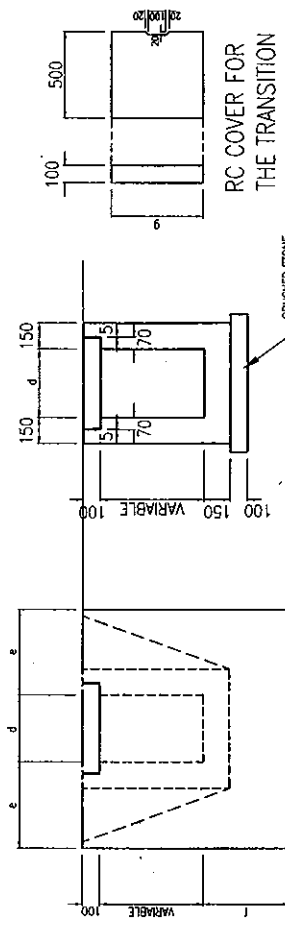
EXISTING CROSSROAD

DIMENSION TABLE FOR ROAD CATCH BASINS (Unit in mm)

TYPE	PIPE $\phi$	a	b	c	d	e	f	g
A	300	600	1100	900	300	300	400	430
B	400	700	1200	1000	300	400	400	430
C	500	800	1400	1100	400	500	500	530



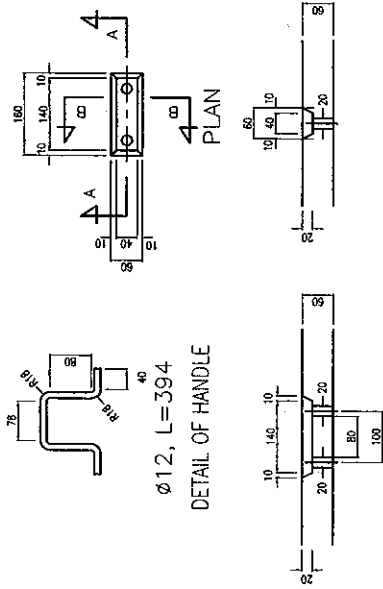
FOR  $\phi 300$  FOR  $\phi 400$  FOR  $\phi 500$



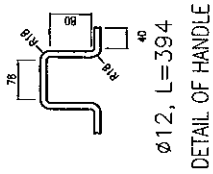
SECTION B-B

SECTION C-C

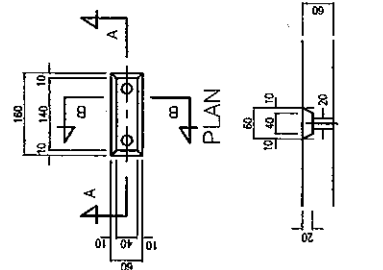
DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	TITLE:	SCALE:	DRAWING NO:
			STRUCTURAL DRAWINGS OF DRAINAGE ROAD CATCH BASINS	1:30	DR-87
					R/N



DETAIL OF RC COVER 1:30

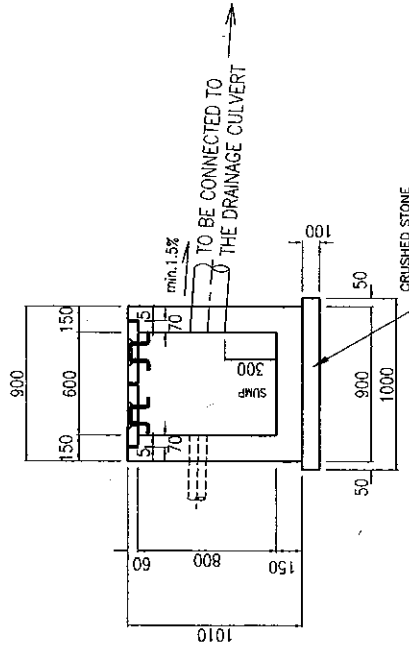


DETAIL OF HANDLE



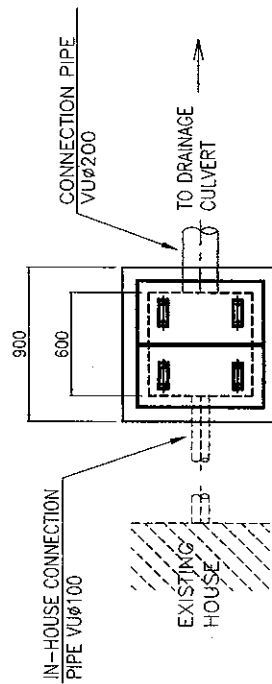
A-A SECTION B-B SECTION

DETAIL OF HANDLE HOLE 1:10



SECTION

HOUSE CATCH BASIN 1:30

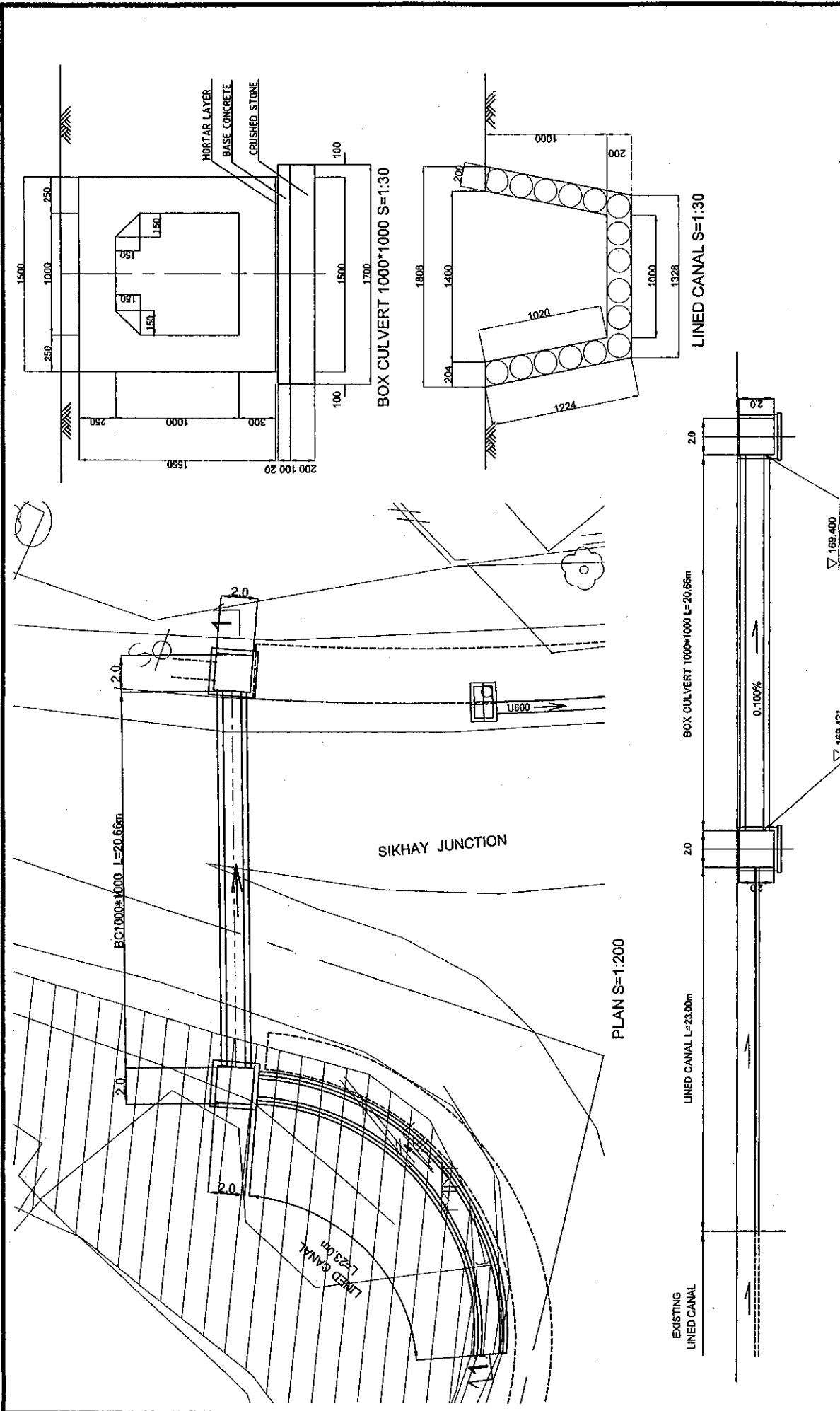


PLAN

Note:  
In-house connection pipe shall be installed at the house/building owners' costs.

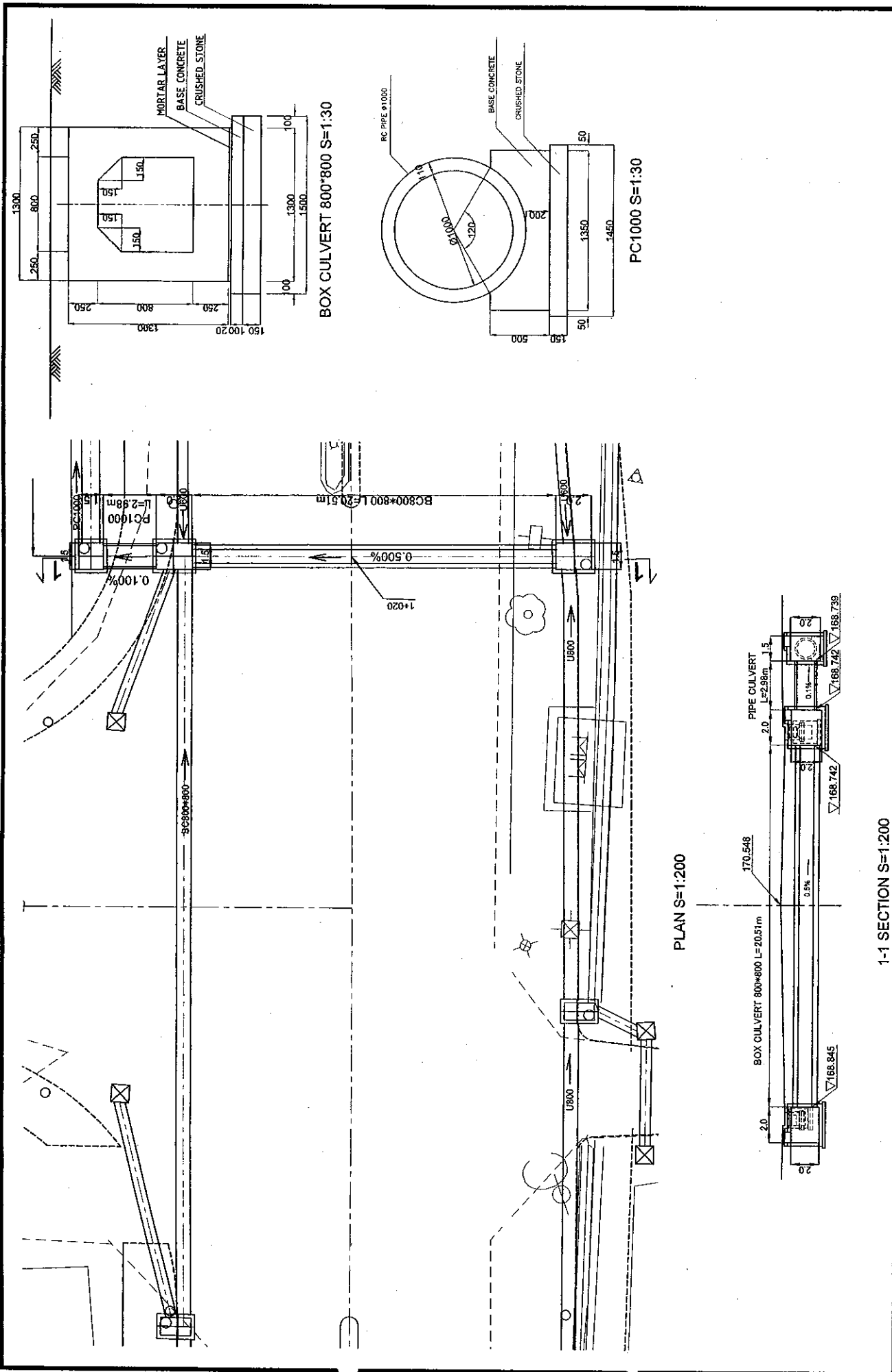
DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	TITLE: STRUCTURAL DRAWINGS OF HOUSE CATCH BASIN	SCALE: As Shown	DRAWING No: DR-88	Rn
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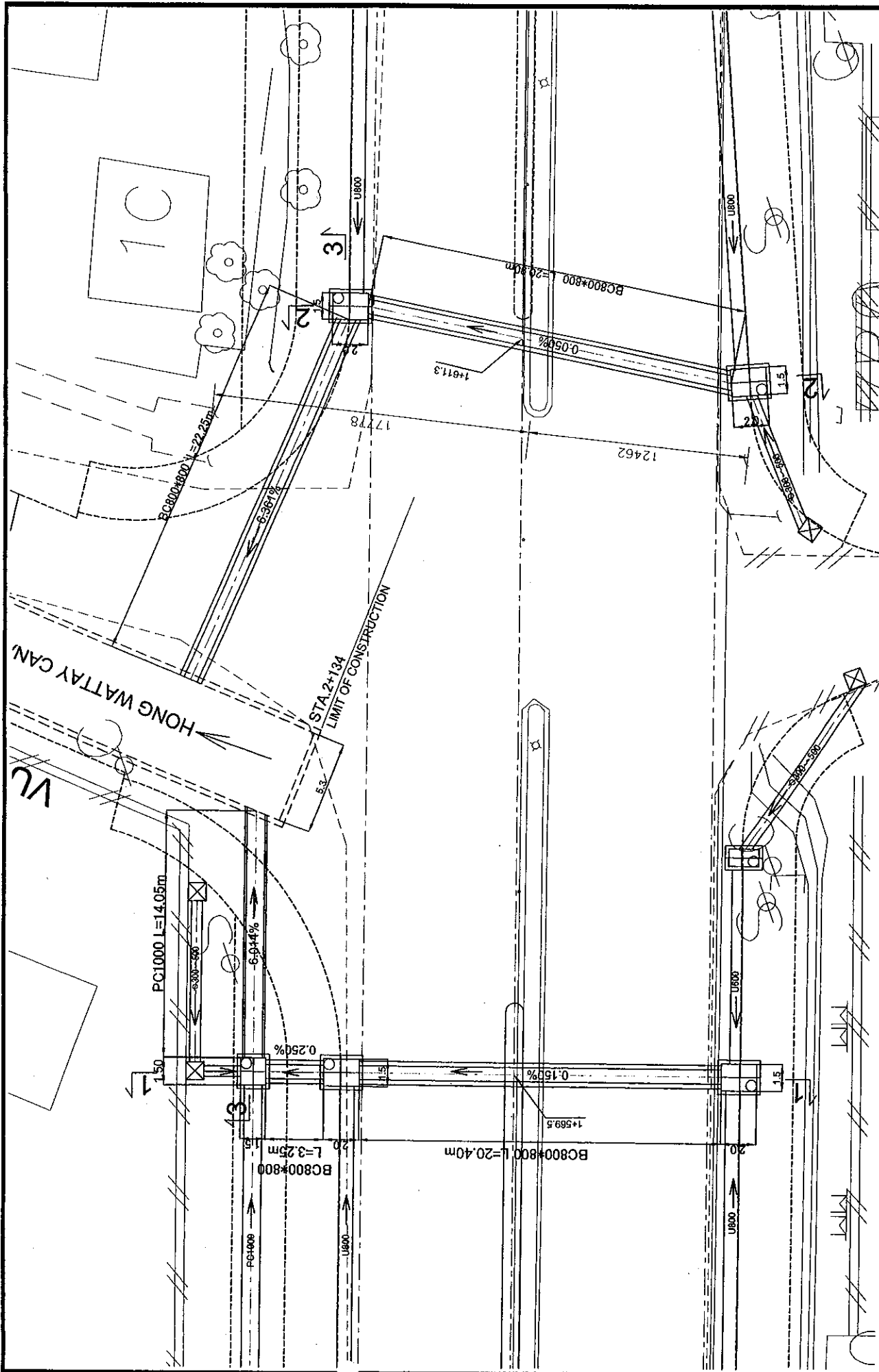


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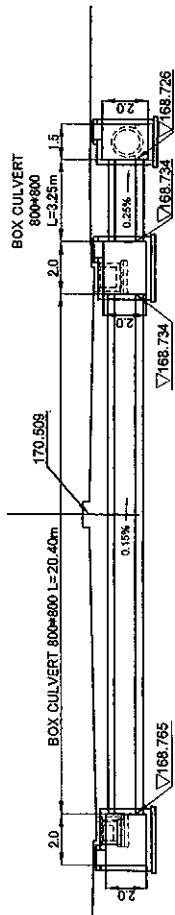
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE: PLAN OF OUTLET SIKHAY JUNCTION	SCALE: AS SHOWN	DRAWING NO: DR-89	R2
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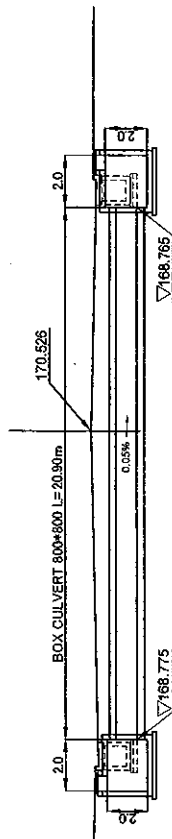
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE	PLAN OF OUTLET	SCALE:	DRAWING No:
				WATTAY AIRPORT 1+020		
						FR.



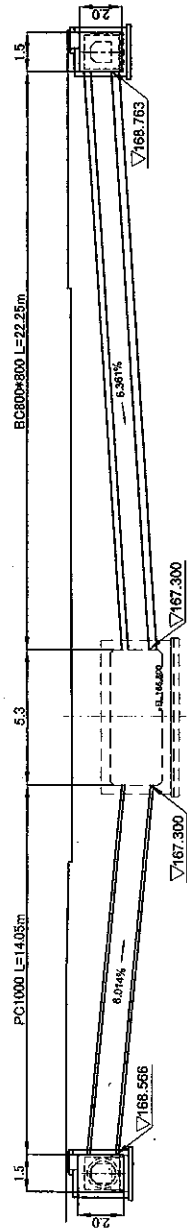
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	PLAN OF OUTLET WATTAY AIRPORT 1-567	DRAWING No:	DR-91	Rv
		SCALE:	1:200			



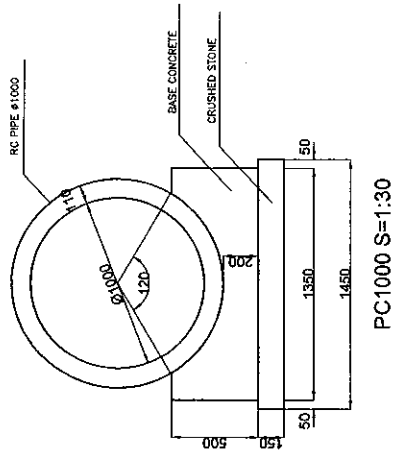
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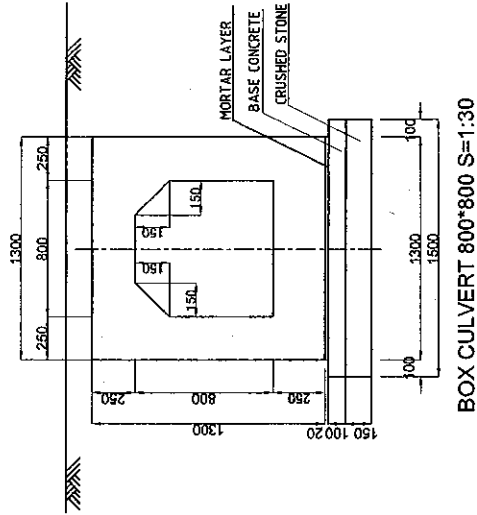
2-2 SECTION S=1:200



3-3 SECTION S=1:200

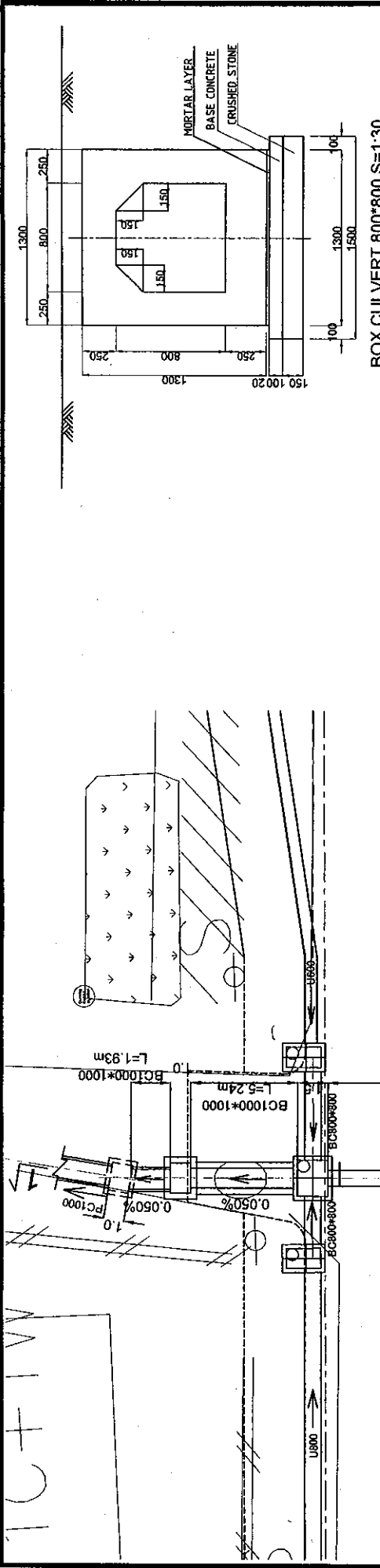


PC1000 S=1:30

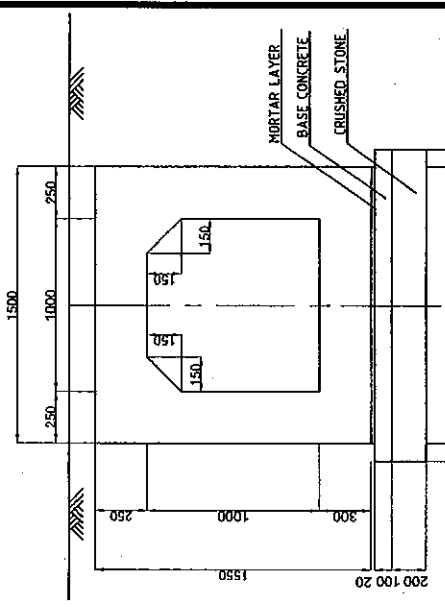


BOX CULVERT 800\*800 S=1:30

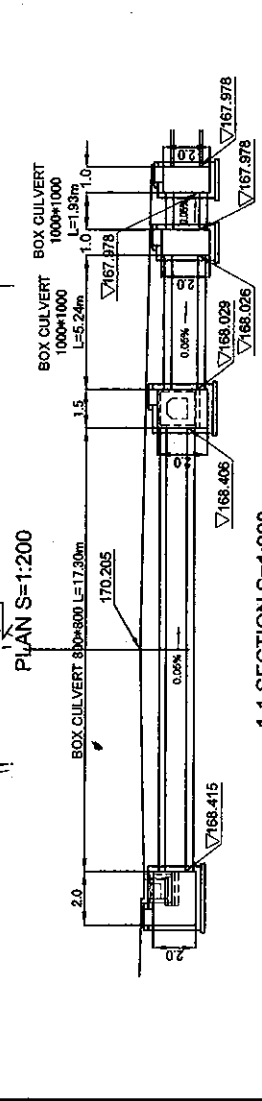
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	TITLE: JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	SCALE: 1:200	DRAWING NO:	RR
			DIR-92	
BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC		PLAN OF OUTLET WATTAY AIRPORT 1+567		



BOX CULVERT 800\*800 S=1:30

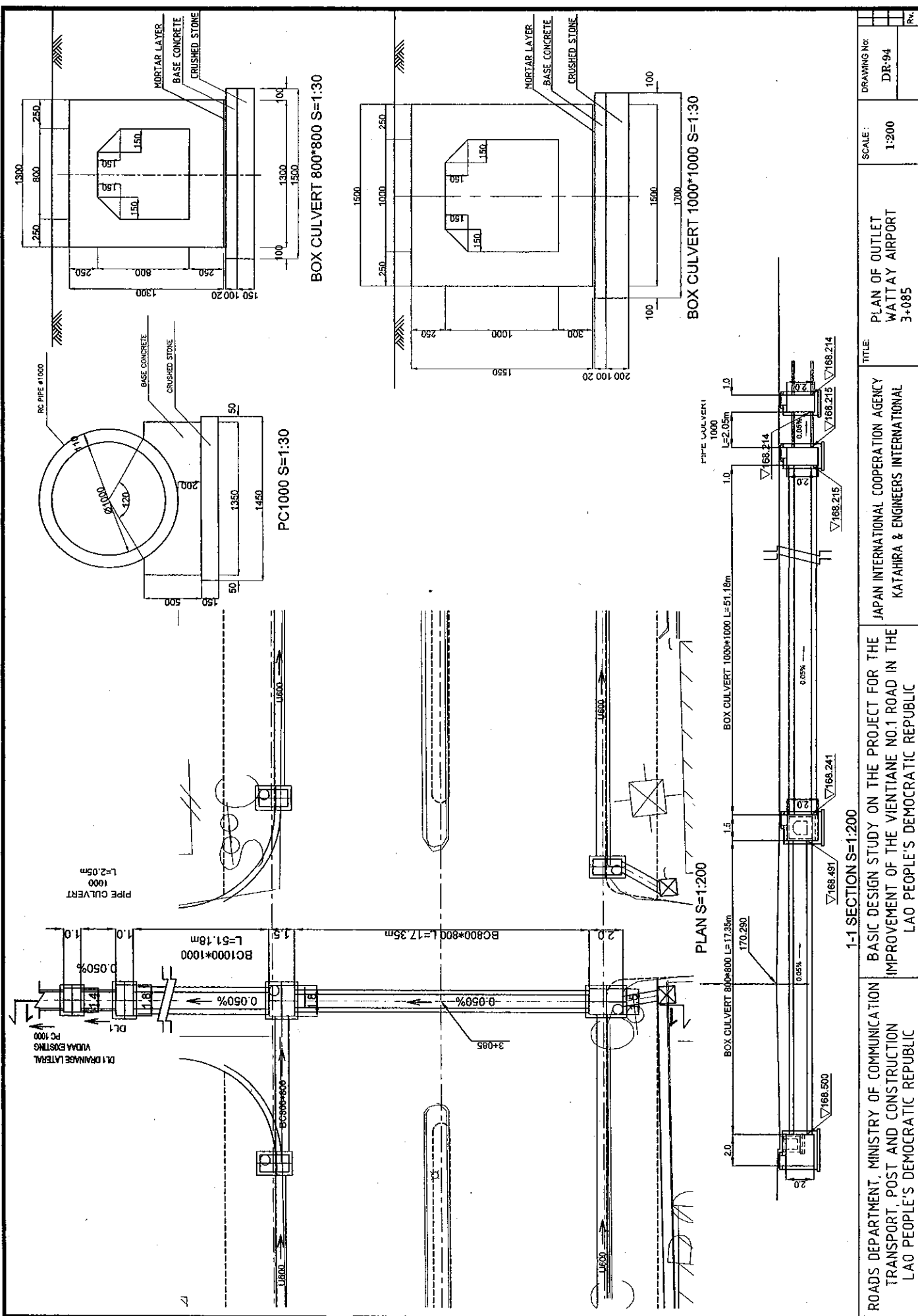


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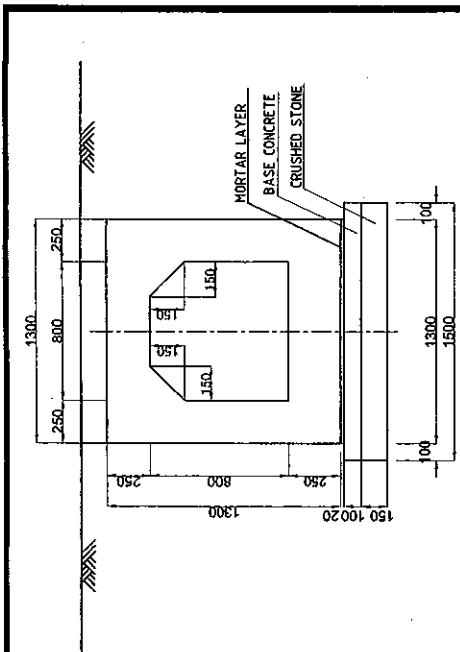


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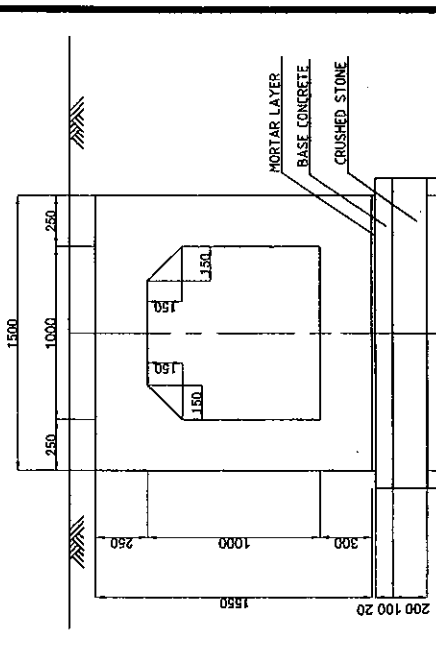
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE PLAN OF OUTLET WATTAY AIRPORT 2+604	SCALE: 1:200	DRAWING No: DR-98	REV.
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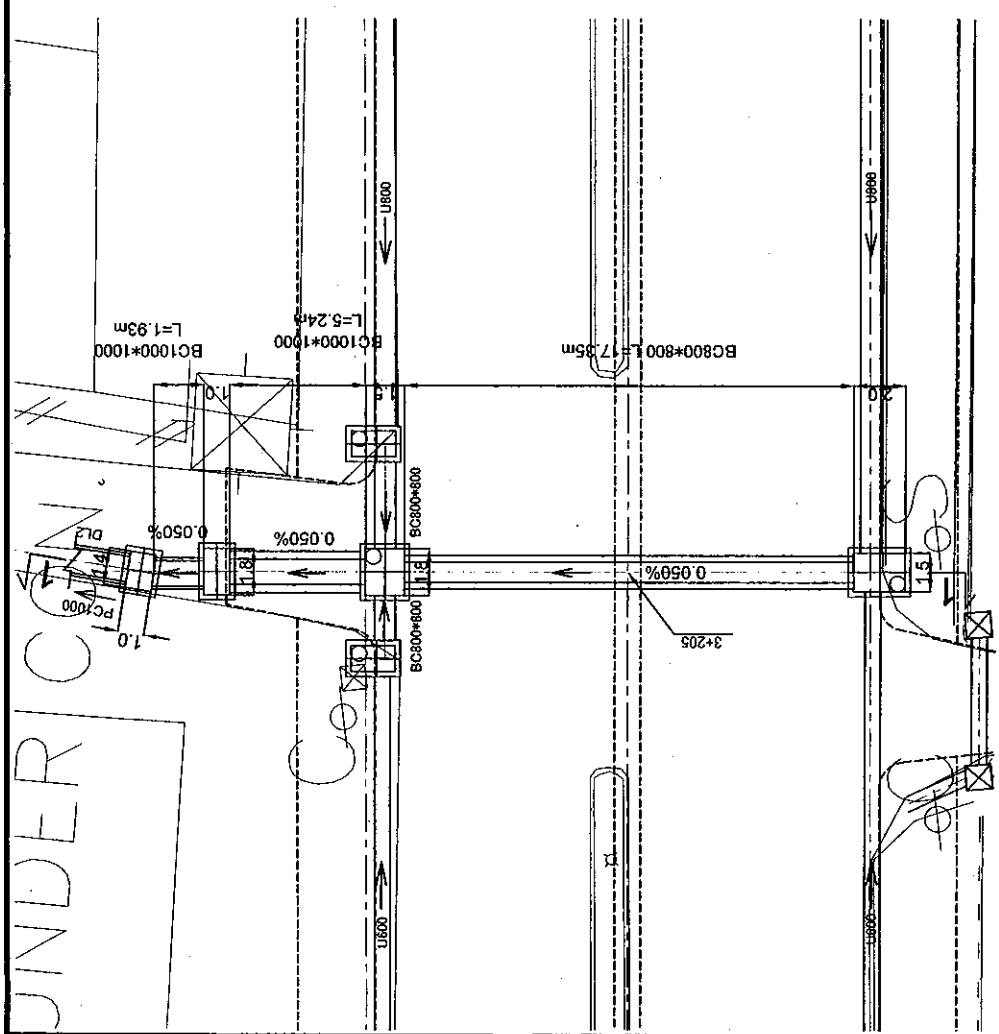
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	PLAN OF OUTLET	SCALE:	DRAWING No:
				WATTAY AIRPORT 3+085	1:200	DR-94
						Rv.



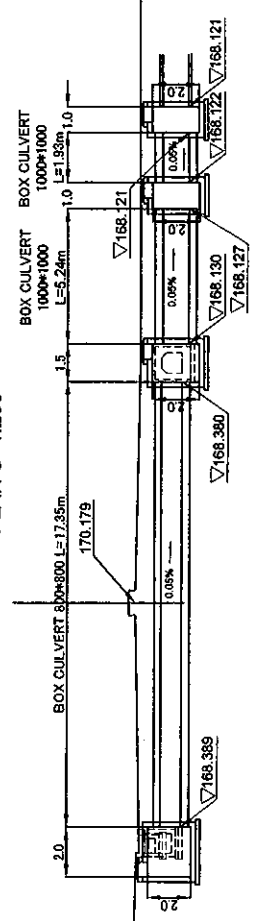
BOX CULVERT 800\*800 S=1:30



BOX CULVERT 1000\*1000 S=1:30

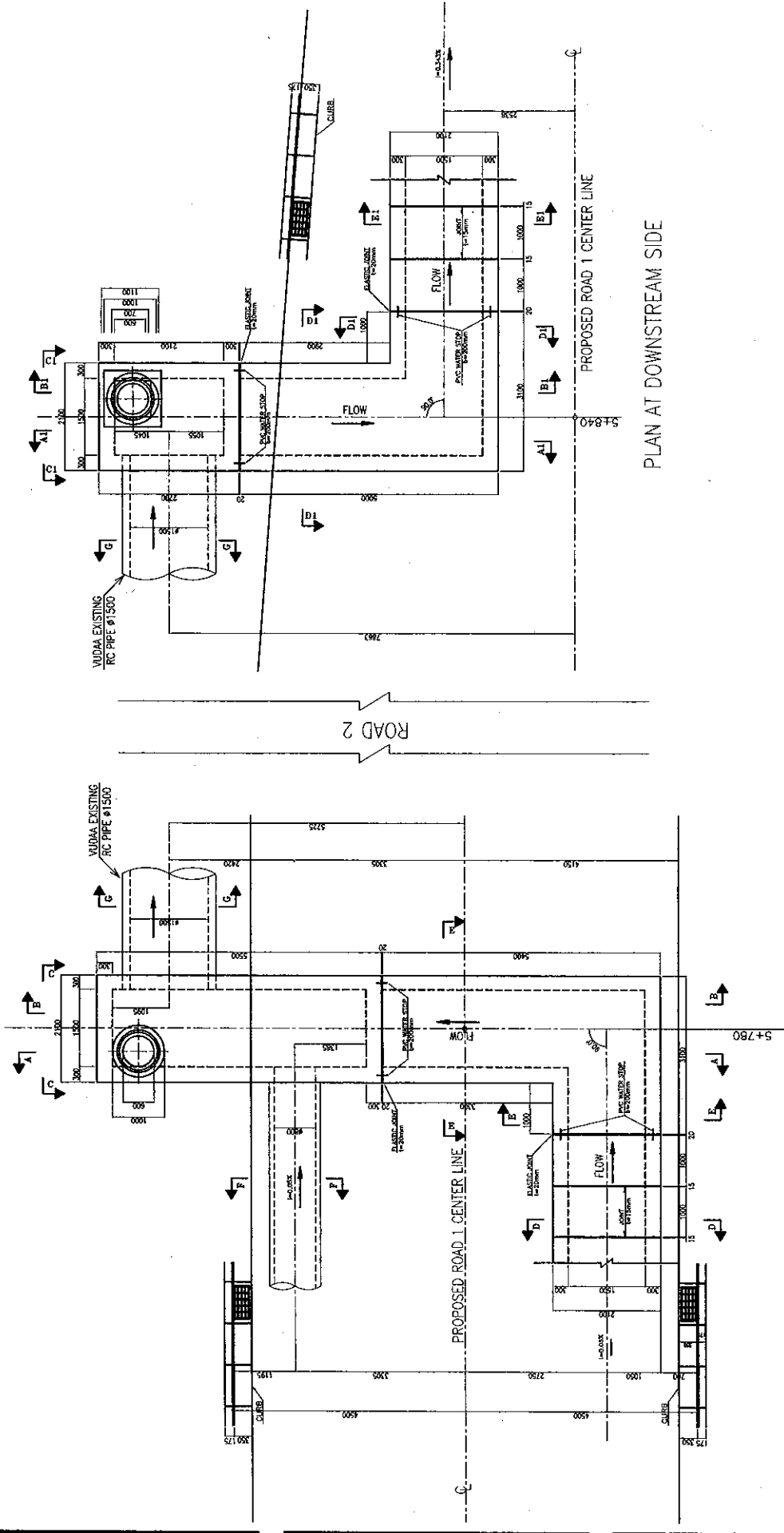


PLAN S=1:200



1-1 SECTION S=1:200

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE: PLAN OF OUTLET WATTAY AIRPORT 3+205	SCALE: 1:200	DRAWING NO: DR-95	REV:
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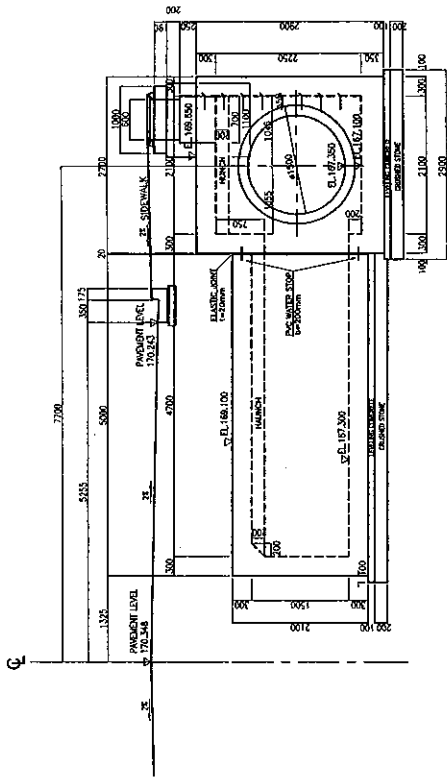


PLAN AT UPSTREAM SIDE

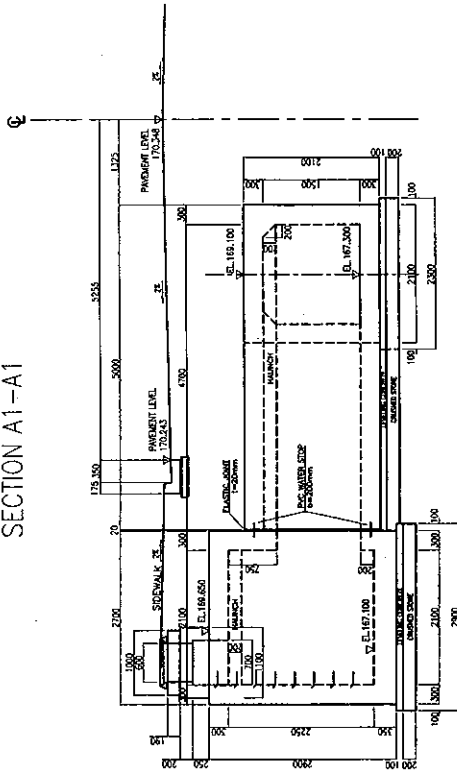
PLAN AT DOWNSTREAM SIDE

DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	TITLE: STRUCTURAL DRAWING OF CONNECTION R1-R2,J(5+800)	SCALE: 1:300	DRAWING No: DR-96
				Rv.	

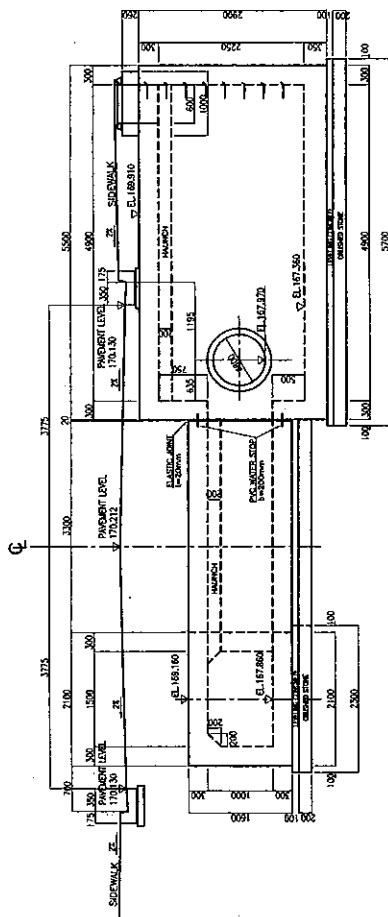




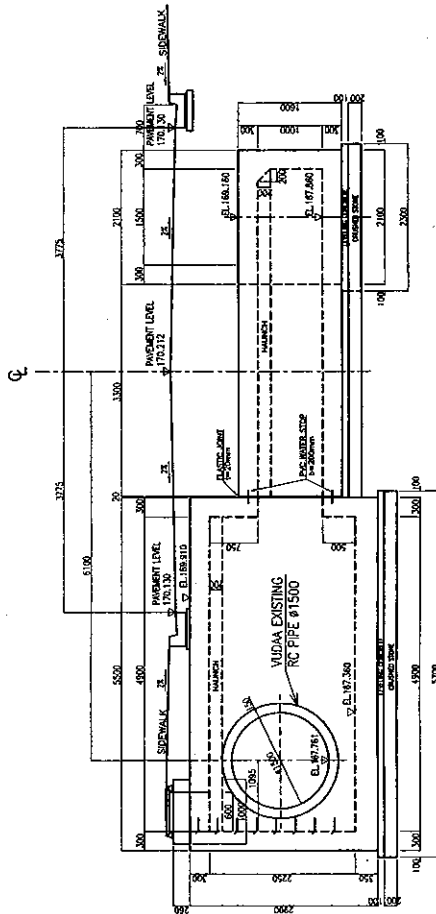
SECTION A1-A1



SECTION B1-B1

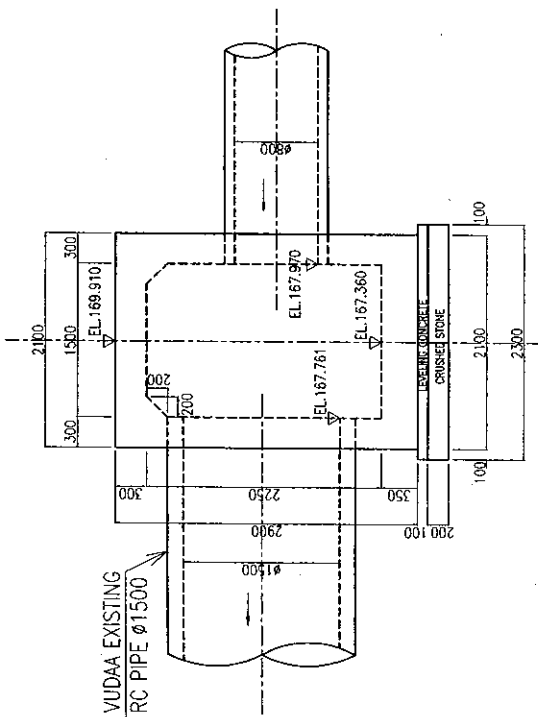


SECTION A-A

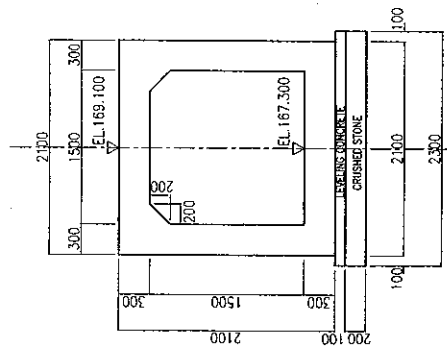


SECTION B-B

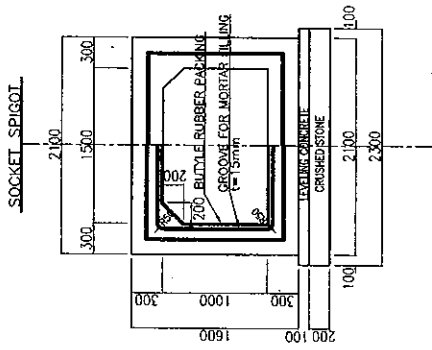
DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.LTD	TITLE: STRUCTURAL DRAWING OF CONNECTION R1-R2.J(5+800)	SCALE: 1:80 DRAWING No: DR-97
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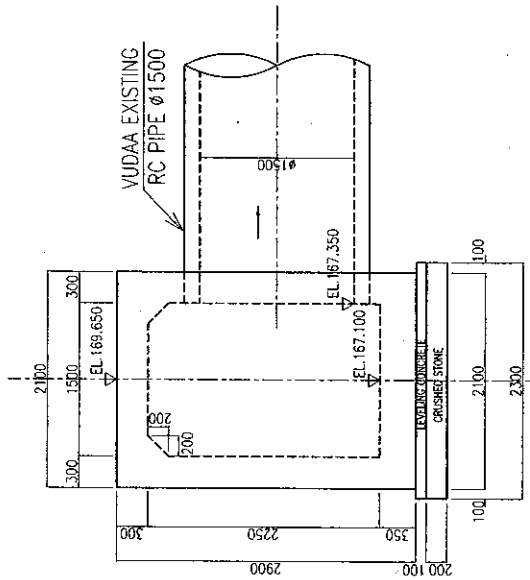
SECTION C-C  
CAST-IN-PLACE BOX



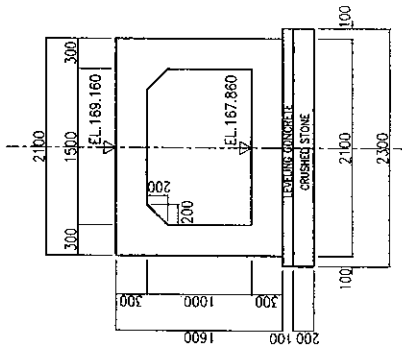
SECTION D1-D1  
CAST-IN-PLACE BOX



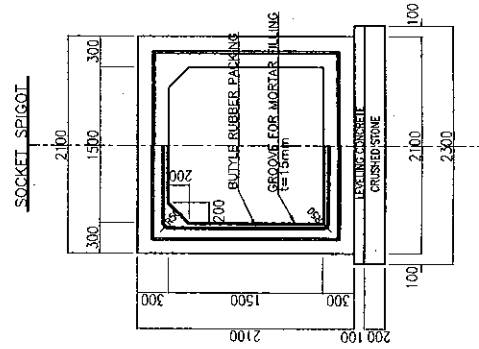
SECTION D-D  
PRECAST BOX



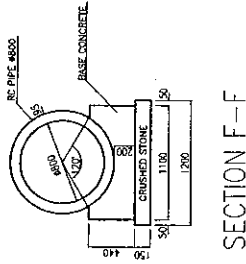
SECTION C1-C1  
CAST-IN-PLACE BOX



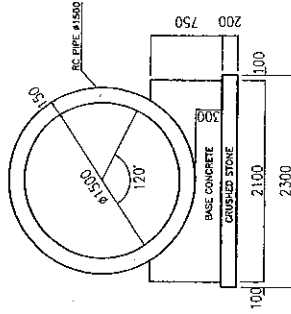
SECTION E-E  
CAST-IN-PLACE BOX



SECTION E1-E1  
PRECAST BOX



SECTION F-F



SECTION G-G  
VUDAA EXISTING RC PIPE

DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION  
TRANSPORT, POST AND CONSTRUCTION  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

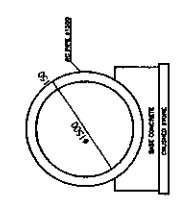
BASIC DESIGN STUDY ON THE PROJECT FOR THE  
IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO.,LTD

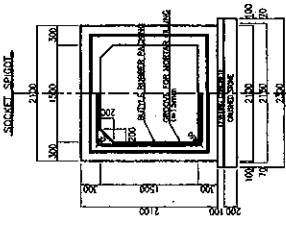
TITLE: STRUCTURAL DRAWING OF  
CONNECTION AT  
R1-R2 JUNCTION  
R1-R2.J(5+800)

SCALE: 1:50  
DRAWING No: DR-98

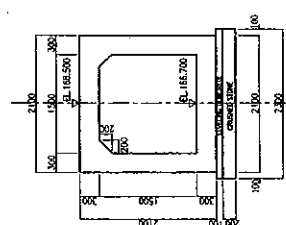
Rv.



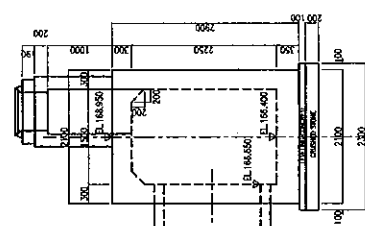
SECTION F-F  
VUDAA EXISTING RC PIPE



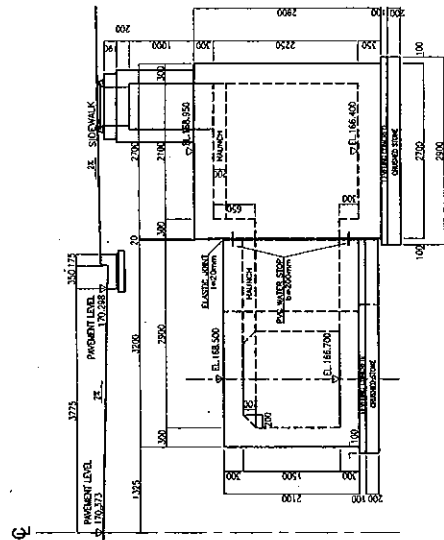
SECTION D-D  
PRECAST BOX



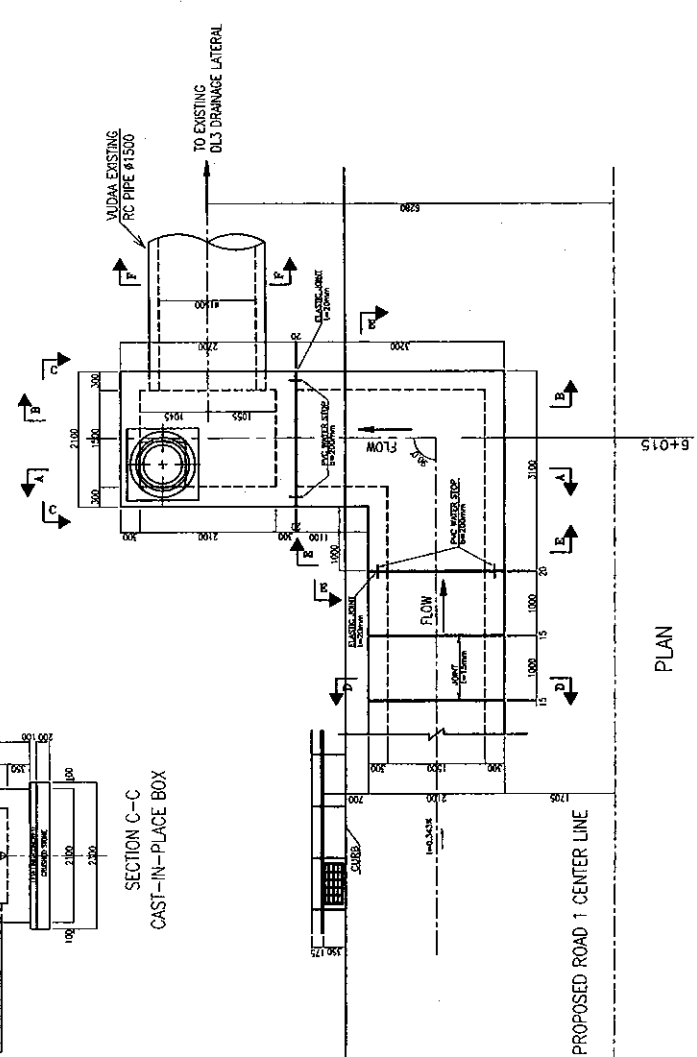
SECTION E-E  
CAST-IN-PLACE BOX



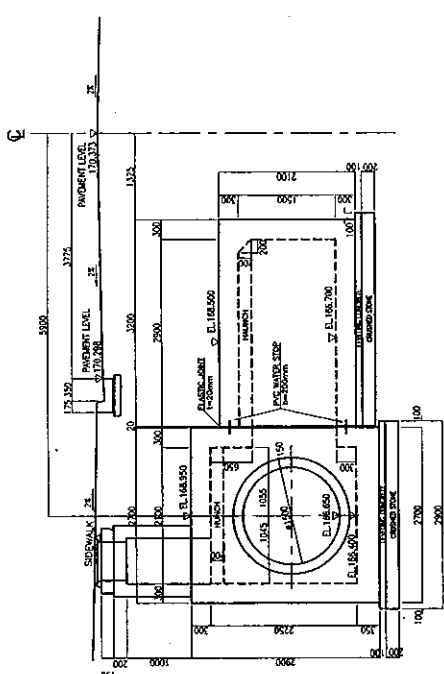
SECTION C-C  
CAST-IN-PLACE BOX



SECTION A-A

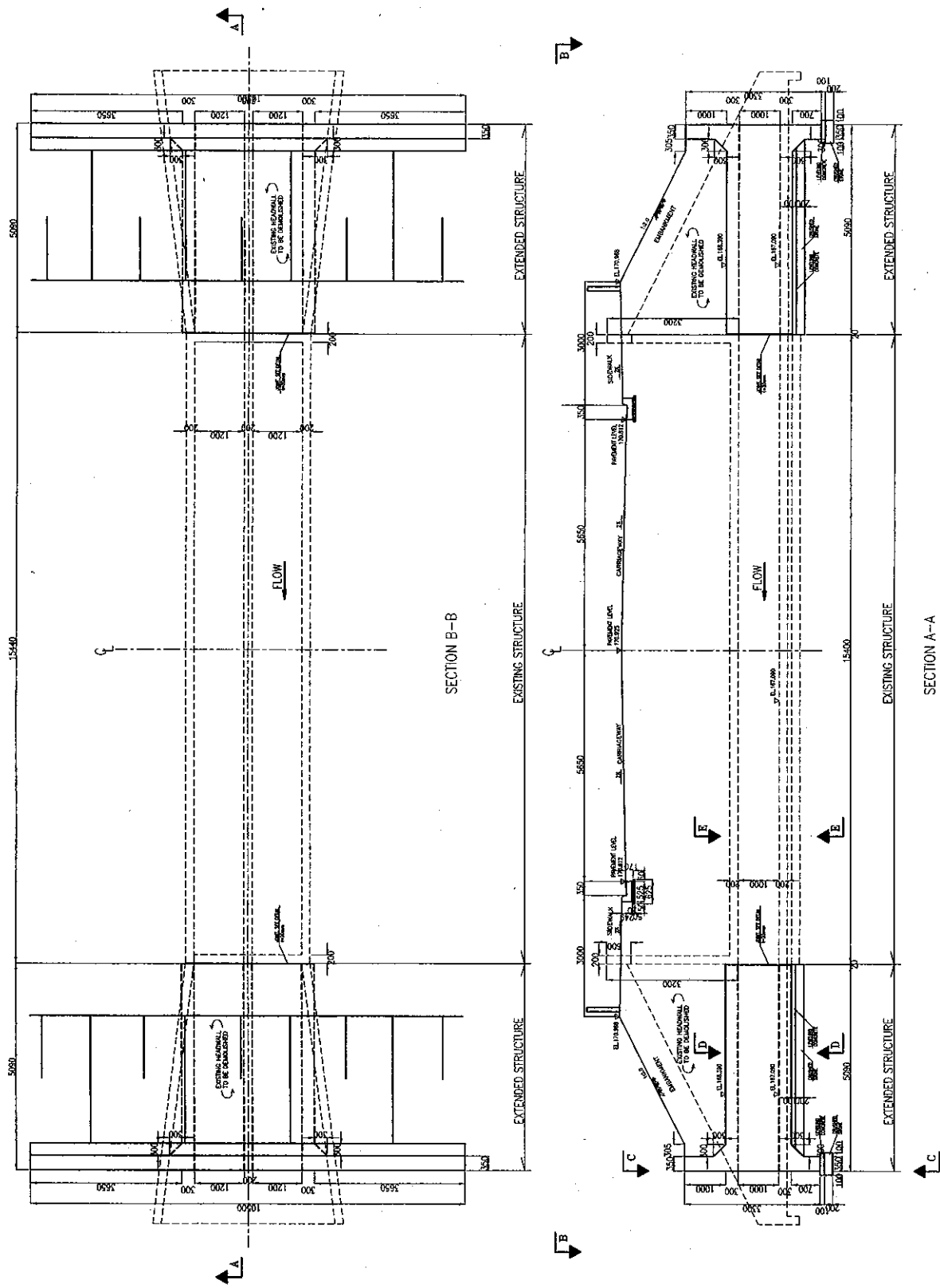


PLAN

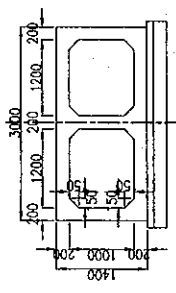


SECTION B-B

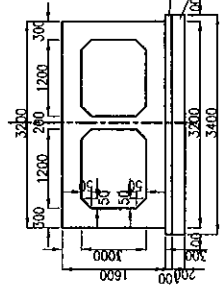
DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.LTD	TITLE: STRUCTURAL DRAWING OF CONNECTION WITH DLS DRAINAGE LATERAL AT R1-R3 JUNCTION DL 3(6+015)	DRAWING No: DR-99	SCALE: 1:80	No. 1/1
			No. 1/1	No. 1/1	No. 1/1	No. 1/1



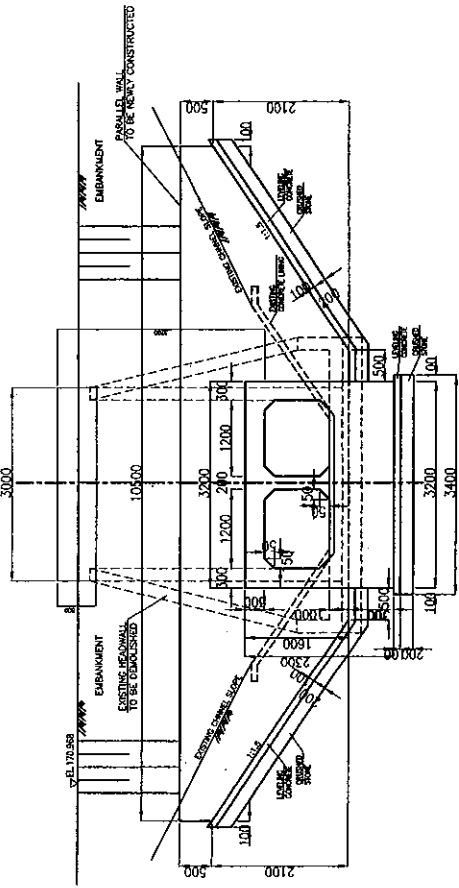
DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.LTD	THE STRUCTURAL DRAWING OF ROAD 1A HONG PASAK CANAL CROSSING BOX CULVERT (1/2)		HONG PASAK CANAL(1A-01-810)
			SCALE: 1:100	DRAWING No: DR-100	
					Rv



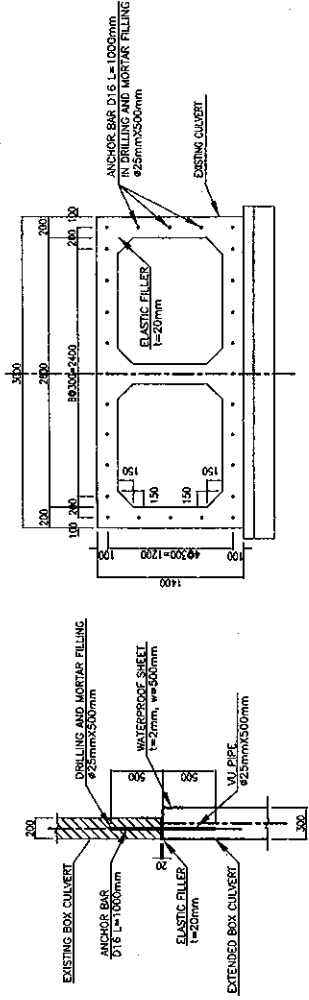
SECTION E-E (EXISTING)



SECTION D-D



SECTION C-C



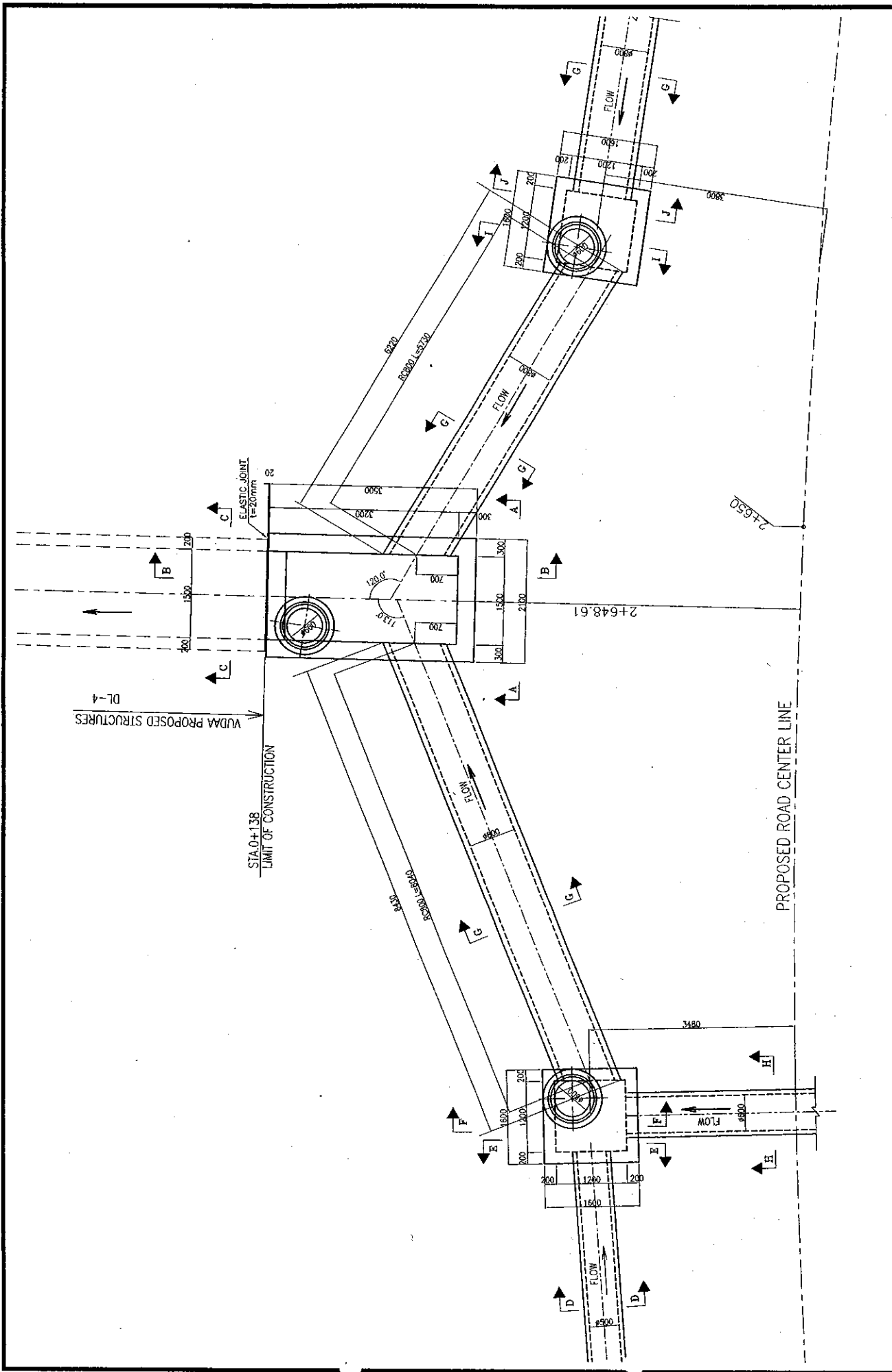
ARRANGEMENT OF ANCHOR BARS

PLAN

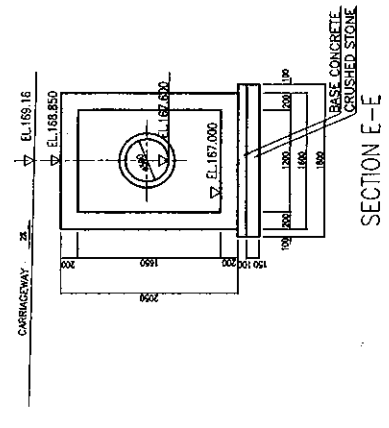
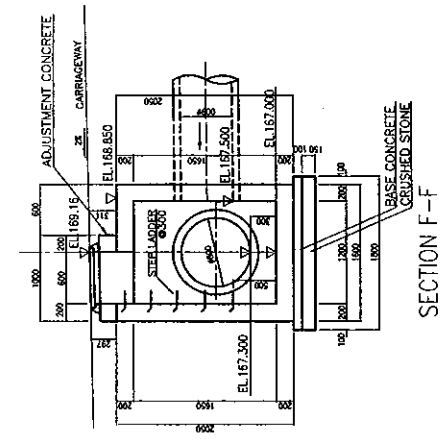
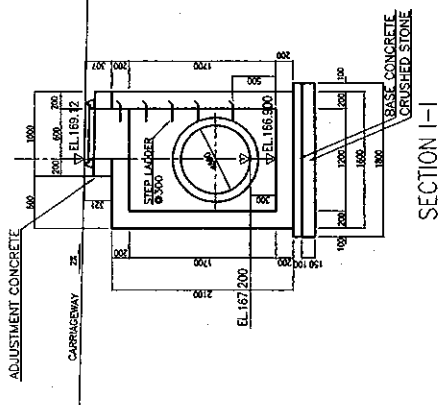
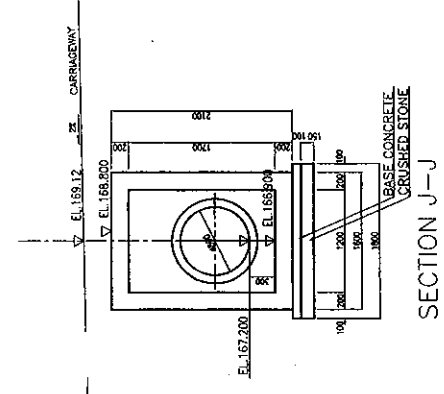
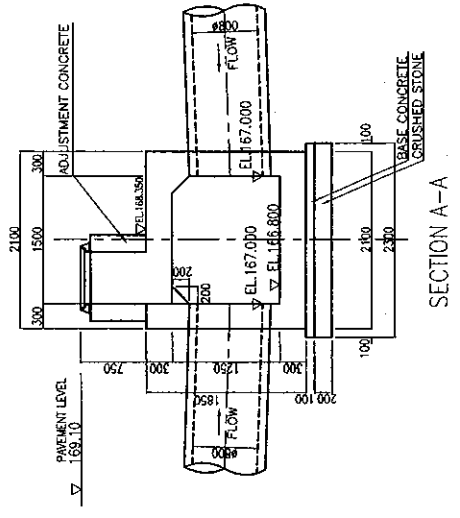
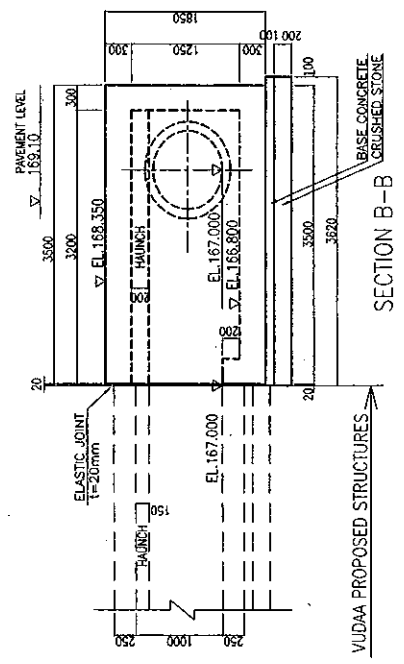
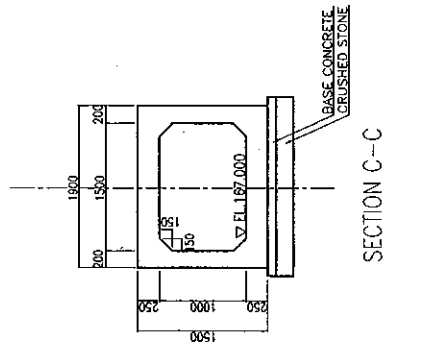
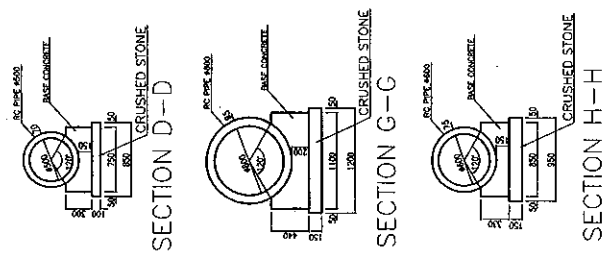
SCALE 1:50 DETAIL OF JOINT BETWEEN EXISTING AND EXTENDED CULVERT

SCALE 1:80 FOR ABOVE CROSS SECTIONS

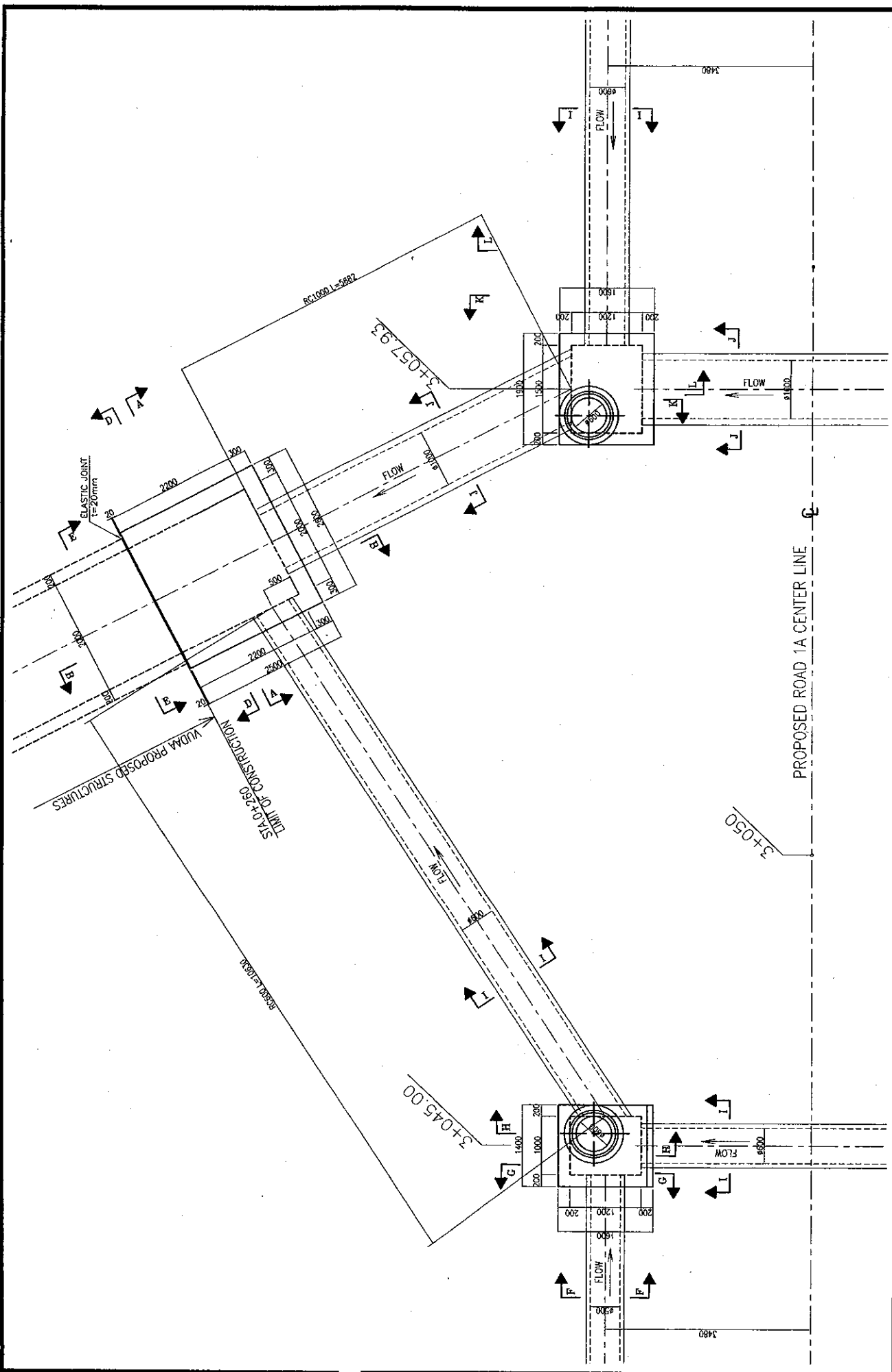
DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CITI ENGINEERING INTERNATIONAL CO.LTD	TITLE STRUCTURAL DRAWING OF ROAD TA HONG PASAK CANAL CROSSING BOX CULVERT (2/2) HONG PASAK CANAL(TA-0+810)	SCALE: 1:80	DRAWING NO: DR-101
				REV	REV



DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CITI ENGINEERING INTERNATIONAL CO.,LTD	TITLE: STRUCTURAL DRAWING OF OUTLET WORKS AT DL4 DRAINAGE LATERAL (1/2) DL4(1A-2+650)	
			SCALE: 1:60	DRAWING No: DR-102
			REV:	PK:

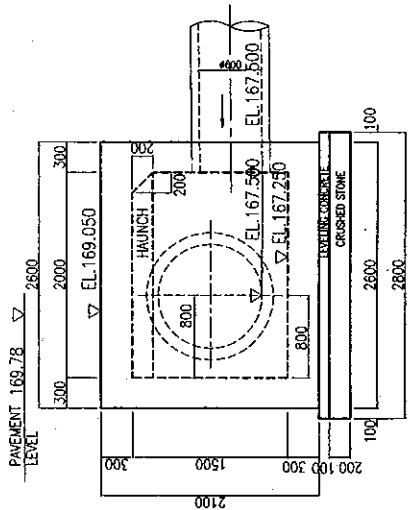


DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	TITLE: STRUCTURAL DRAWING OF OUTLET WORKS AT DL4 DRAINAGE LATERAL (2/2) DL4(1A-2+650)	SCALE: 1:60	DRAWING No: DR-103
			NO.	RE.	

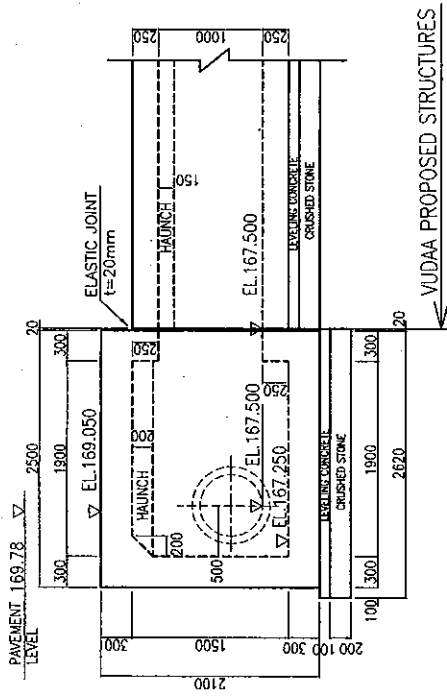


DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	TITLE: STRUCTURAL DRAWING OF OUTLET WORKS AT DLS DRAINAGE LATERAL (1/3) DL5(1A-3+055)	
			SCALE: 1:80	DRAWING No: DR-104
			Rv	Rv

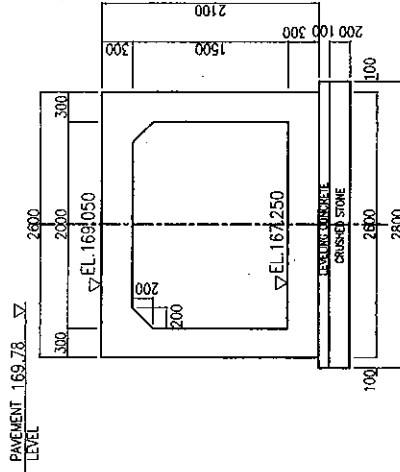




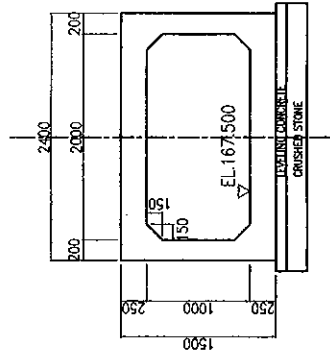
SECTION A-A  
CAST-IN-PLACE BOX



SECTION B-B  
VJDA PROPOSED STRUCTURES

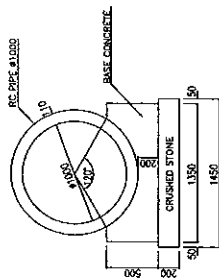


SECTION D-D  
CAST-IN-PLACE BOX

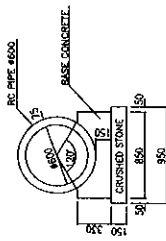


SECTION E-E  
(STA.0+260)

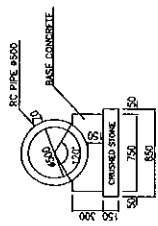
DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO. 1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	TITLE: STRUCTURAL DRAWING OF OUTLET WORKS AT DLS DRAINAGE LATERAL (2/3) DLS(1A-3+055)	SCALE:	DRAWING No:
				1:50	DR-105
					REV



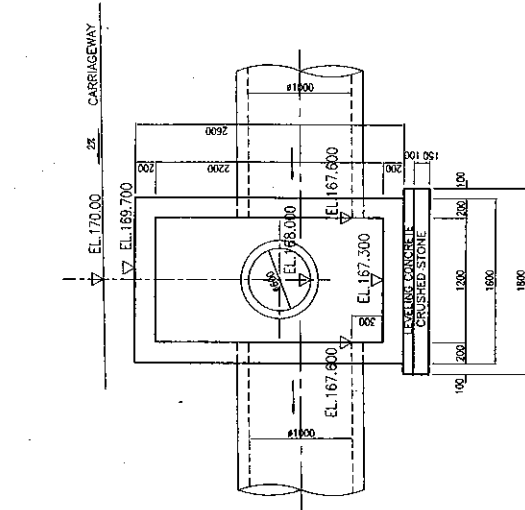
SECTION J-J



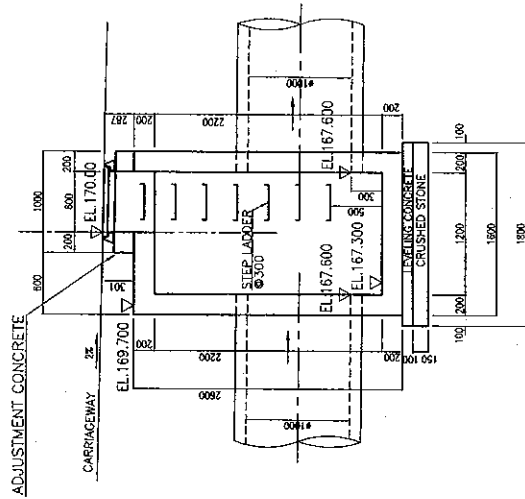
SECTION I-I



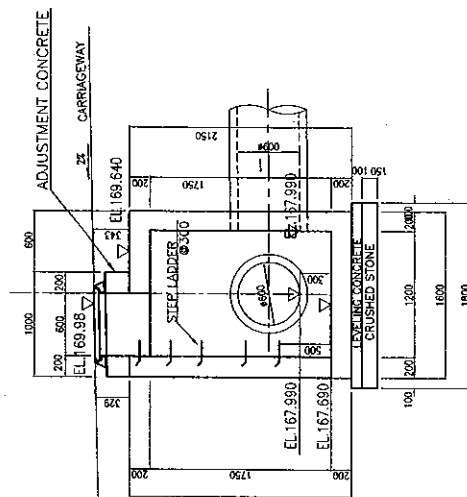
SECTION F-F



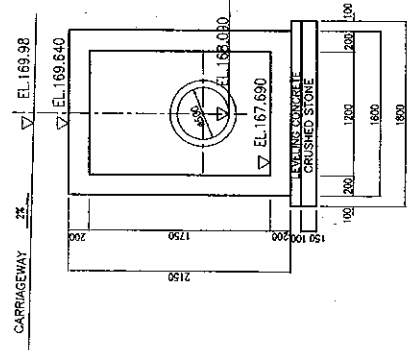
SECTION L-L



SECTION K-K

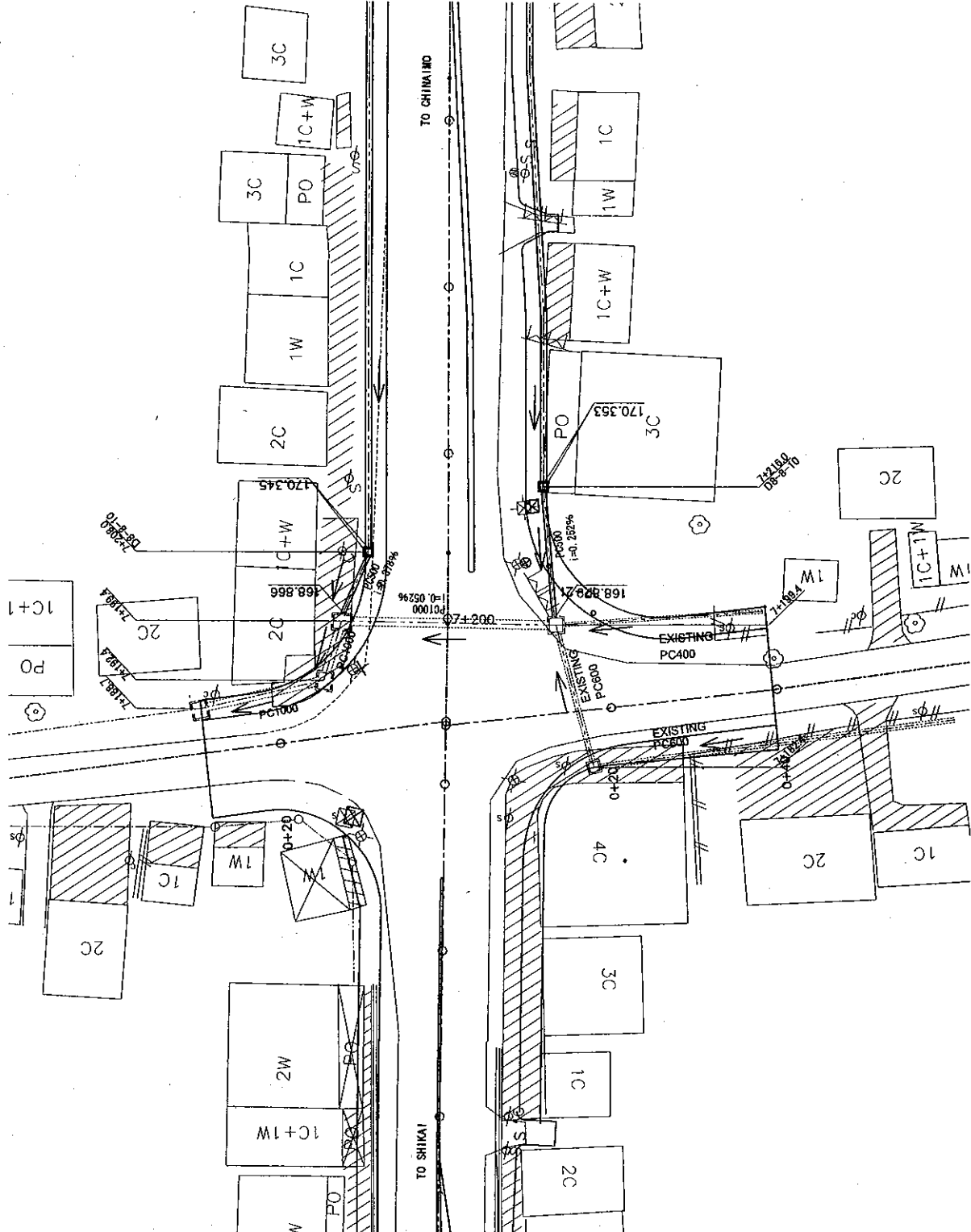


SECTION H-H



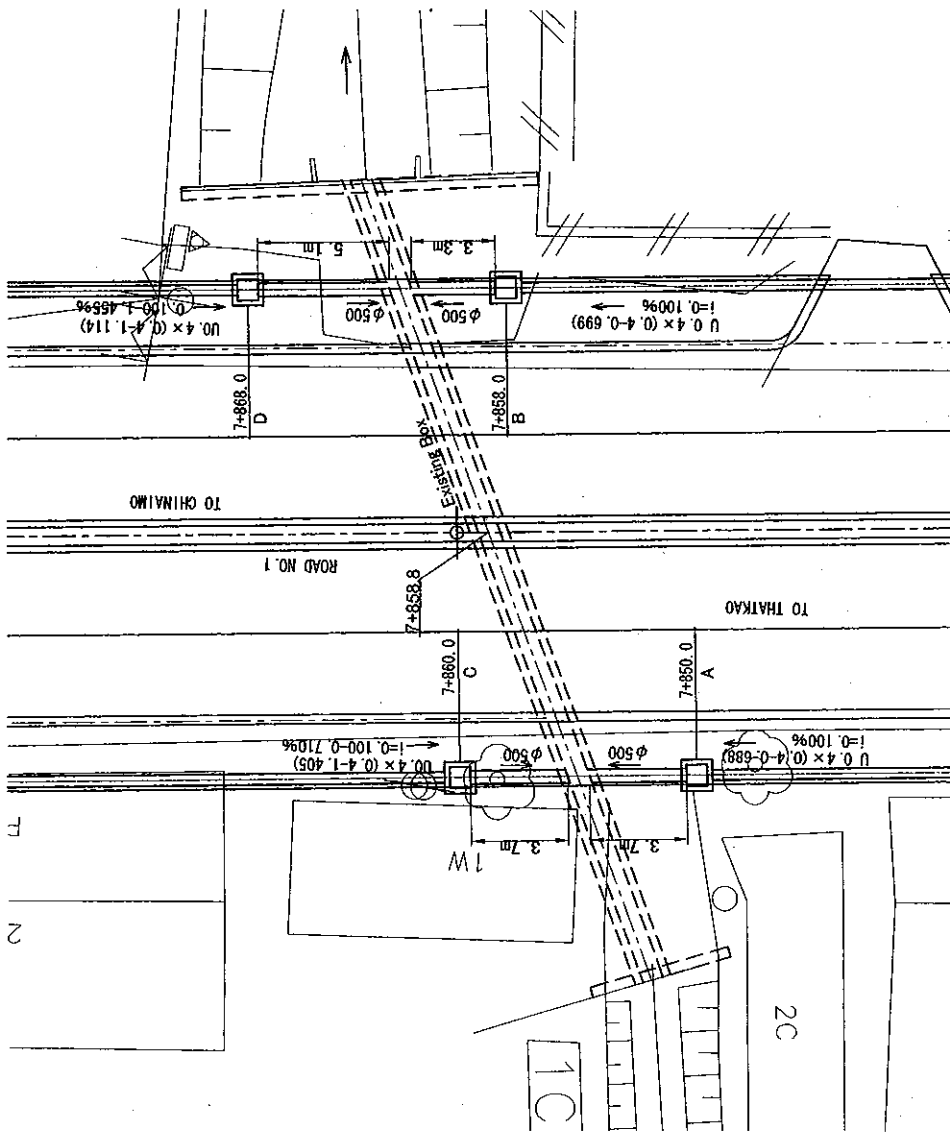
SECTION G-G

DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	TITLE: STRUCTURAL DRAWING OF	DRAWING No:
			OUTLET WORKS AT DL5 DRAINAGE LATERAL (3/3)	DR-106
			SCALE: 1:50	
				Rev

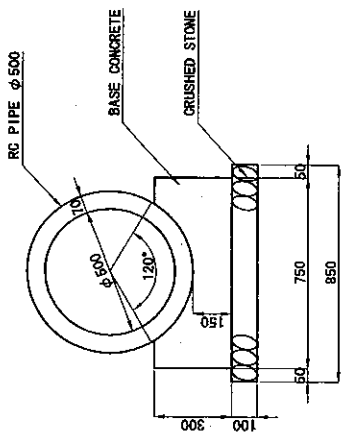


PLAN S=1:500

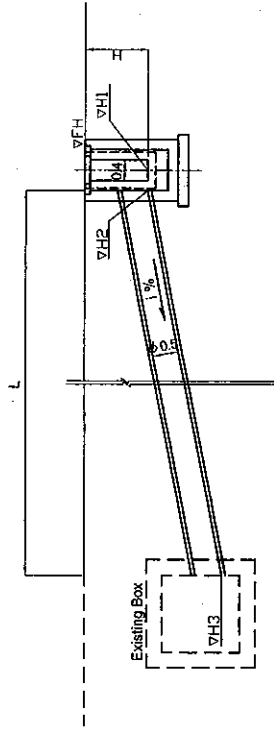
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CITI ENGINEERING INTERNATIONAL CO.,LTD	TITLE: GENERAL DRAWING OF DRAINAGE OUTLET DL6 (7+195.7)	SCALE: S=1:100	DRAWINGS NO: DR-107 Rv
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PLAN 1:200



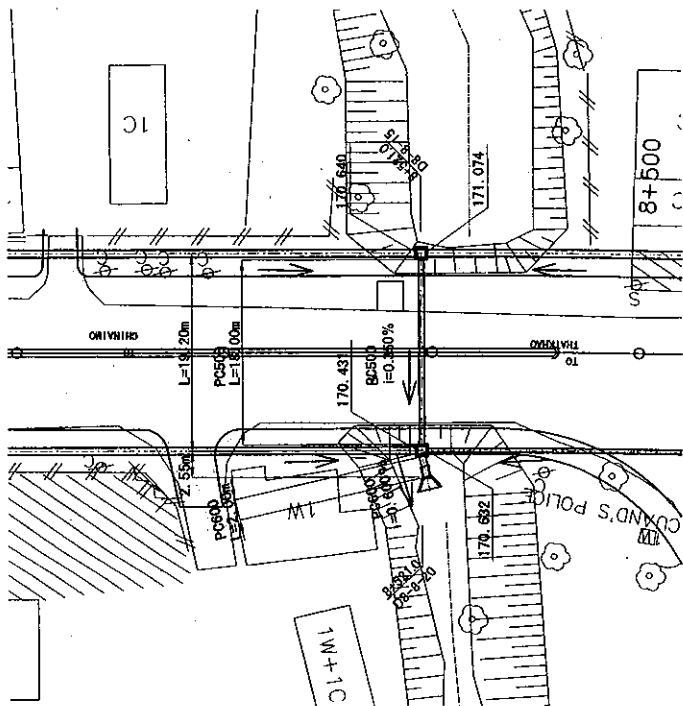
RC PIPE CROSS SECTION 1:20



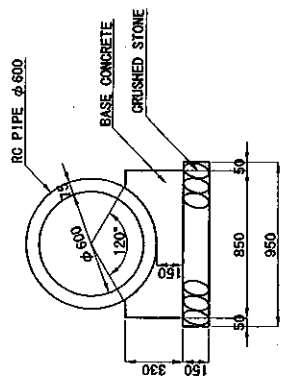
DIMENSION TABLE

STATION	FH (m)	H1 (m)	H2 (m)	H3 (m)	H (m)	L (m)
A	7+850	171.095	170.307	167.190	0.788	3.700
B	7+858	171.098	170.299	166.975	0.799	3.300
C	7+860	171.099	169.881	167.190	1.218	3.700
D	7+868	171.103	169.889	168.034	1.214	5.100

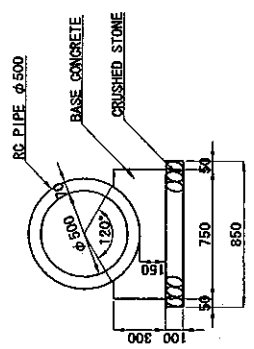
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NBI ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE:	OUTLET PLAN 7+850-7+868 (DL.7)	SCALE:	AS SHOWN	DRAWING No:	DR-108	Rv



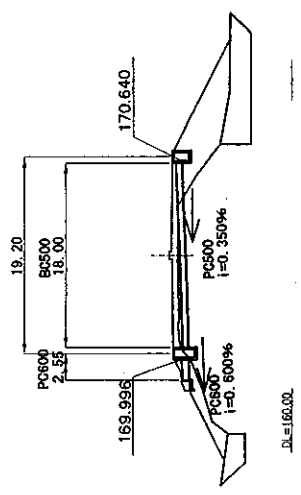
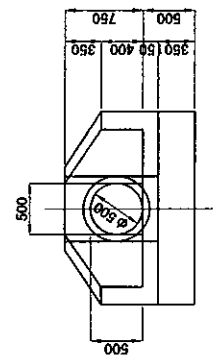
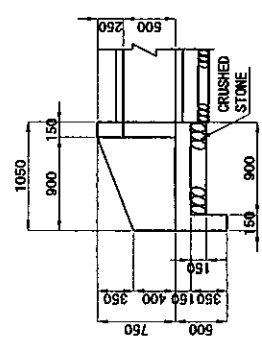
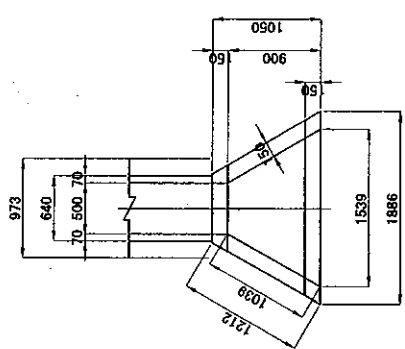
PLAN S=1:500



PIPE CULVERT S=1:30



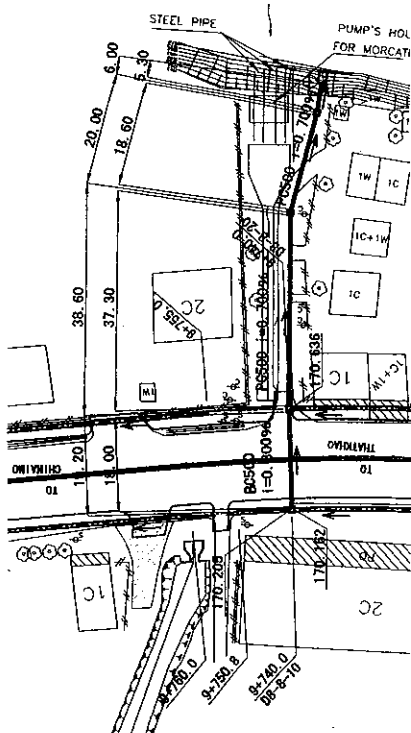
PIPE CULVERT S=1:30



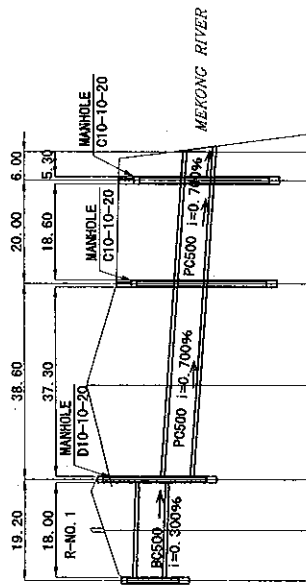
CROSS SECTION S=1:500

OUTLET WORK S=1:50

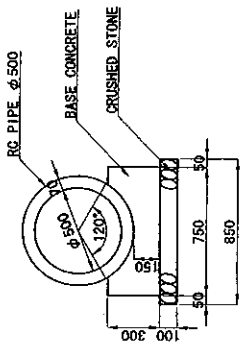
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.LTD	TITLE: GENERAL DRAWING OF DRAINAGE OUTLET DL8 (8+521)	SCALE:	As Shown	DRAWING No:	DR-109	Rv



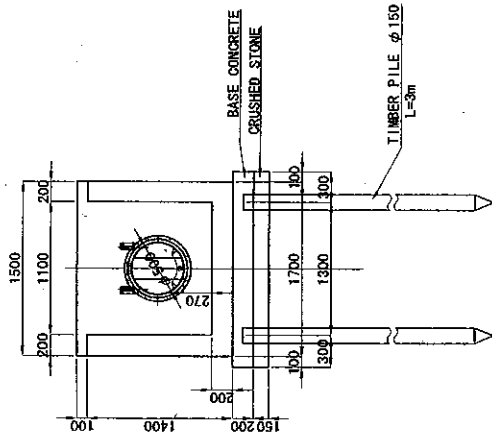
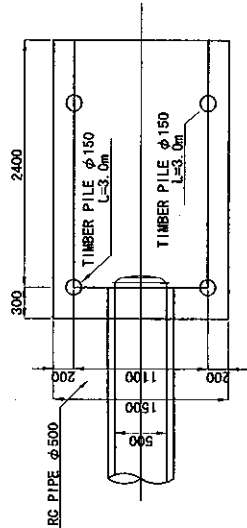
PLAN S=1:1000



Stationing	Surface Elevation	Overburden Elevation	Invert Elevation	Pegged Elevation
DL=167.0m				
0+000	171.111	169.307	169.784	169.841
0+020	171.30	169.177	169.177	169.177
0+040	170.71	169.037	169.037	169.037
0+060	170.67	168.892	168.892	168.892
0+066	169.59	168.855	168.855	168.855



PIPE CULVERT S=1:30



OUTLET WORK S=1:50

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION  
 TRANSPORT, POST AND CONSTRUCTION  
 LAO PEOPLE'S DEMOCRATIC REPUBLIC

BASIC DESIGN STUDY ON THE PROJECT FOR THE  
 IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE  
 LAO PEOPLE'S DEMOCRATIC REPUBLIC

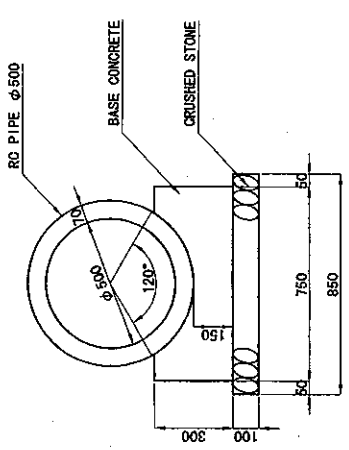
JAPAN INTERNATIONAL COOPERATION AGENCY  
 KATAHIRA & ENGINEERS INTERNATIONAL  
 CTI ENGINEERING INTERNATIONAL CO.,LTD

GENERAL DRAWING OF  
 DRAINAGE OUTLET  
 DL-9 (9+740)

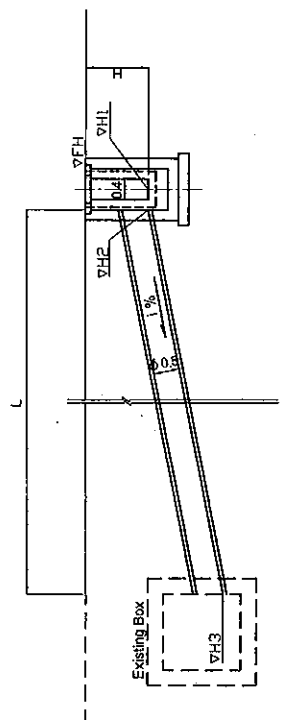
SCALE: As Shown

DRAWING No: DR-110

Rev: [ ]

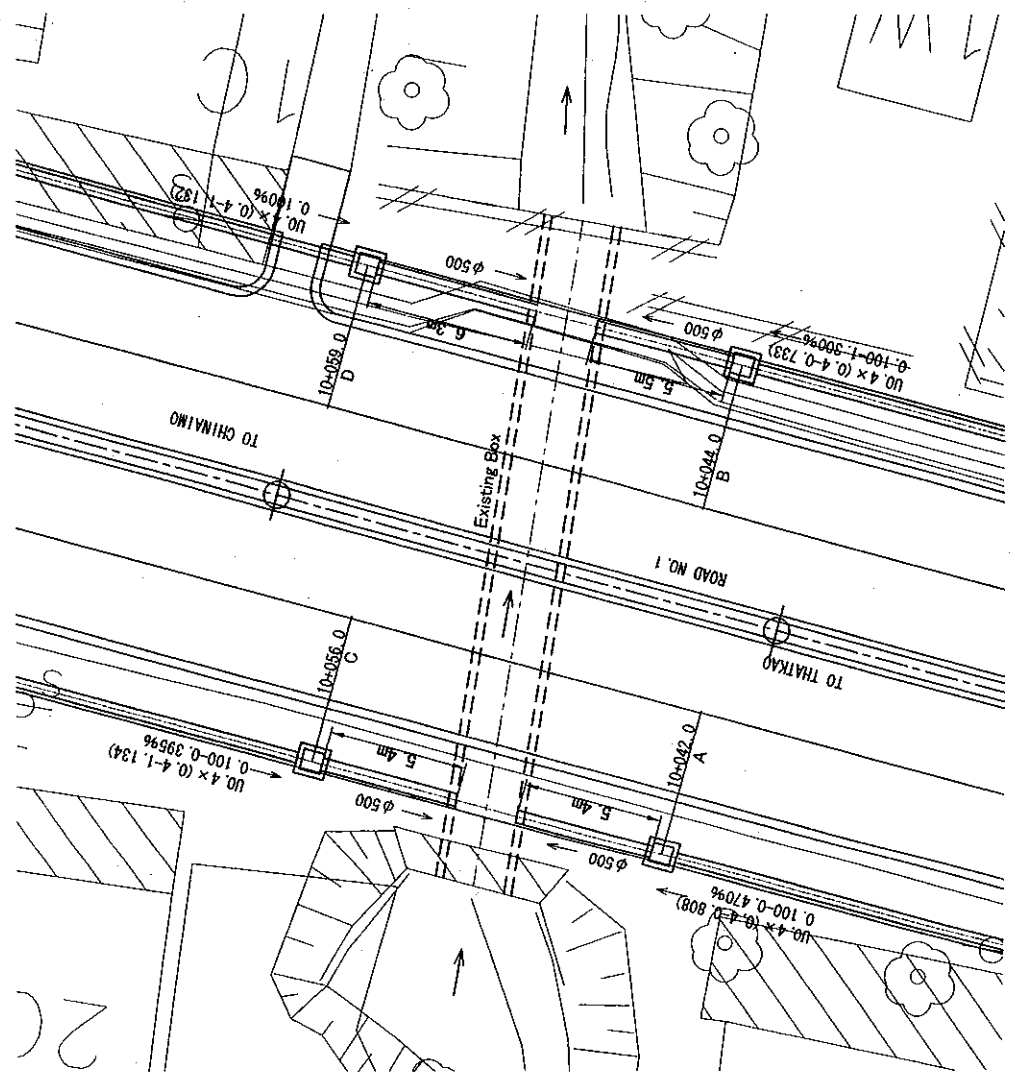


RC PIPE CROSS SECTION 1:20



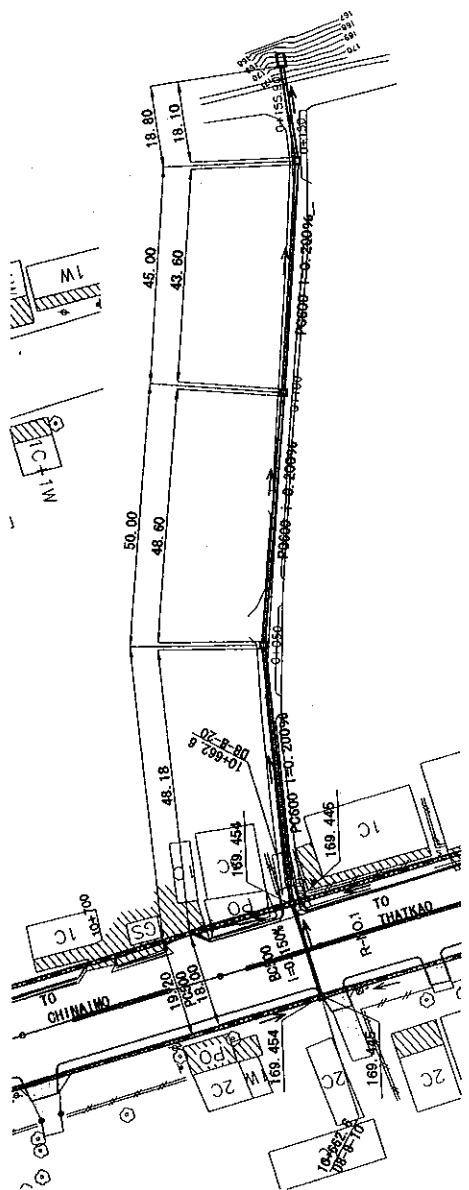
DIMENSION TABLE

STATION	FH (m)	H1 (m)	H2 (m)	H3 (m)	H (m)	L (m)
A 10+042	170.435	169.743	169.943	168.893	0.682	5.400
B 10+044	170.436	169.566	169.566	168.908	0.870	5.500
C 10+056	170.438	169.204	169.204	167.986	1.234	5.400
D 10+059	170.439	169.337	169.337	167.990	1.102	6.300

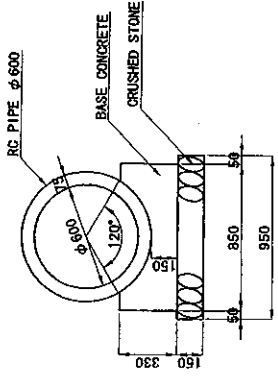


PLAN 1:200

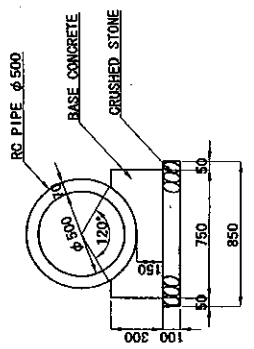
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NDL ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE:	OUTLET PLAN 10+042-10+059 DL10	SCALE:	AS SHOWN	DRAWING No:	DR-111



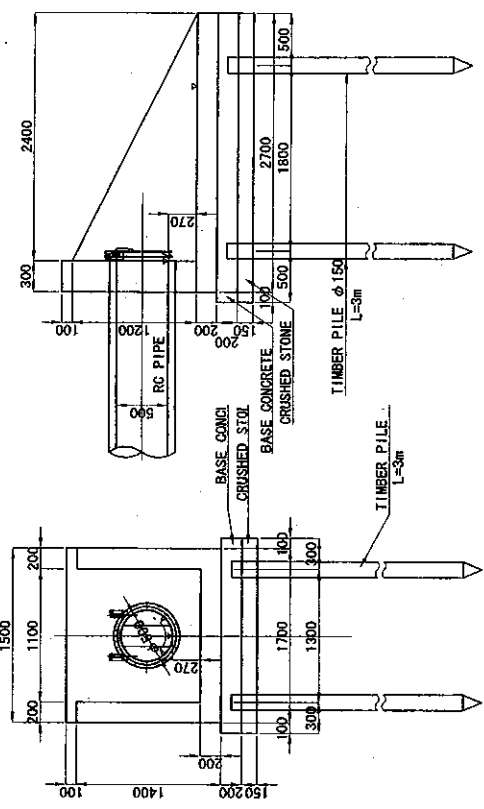
PLAN S=1:1000



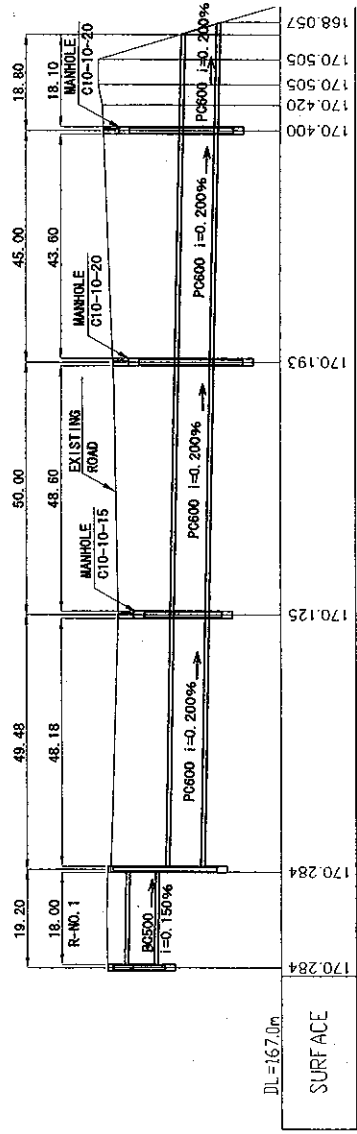
PIPE CULVERT S=1:30



PIPE CULVERT S=1:30



OUTLET WORK S=1:50

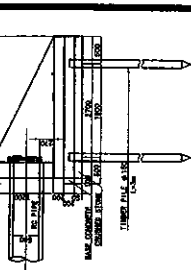
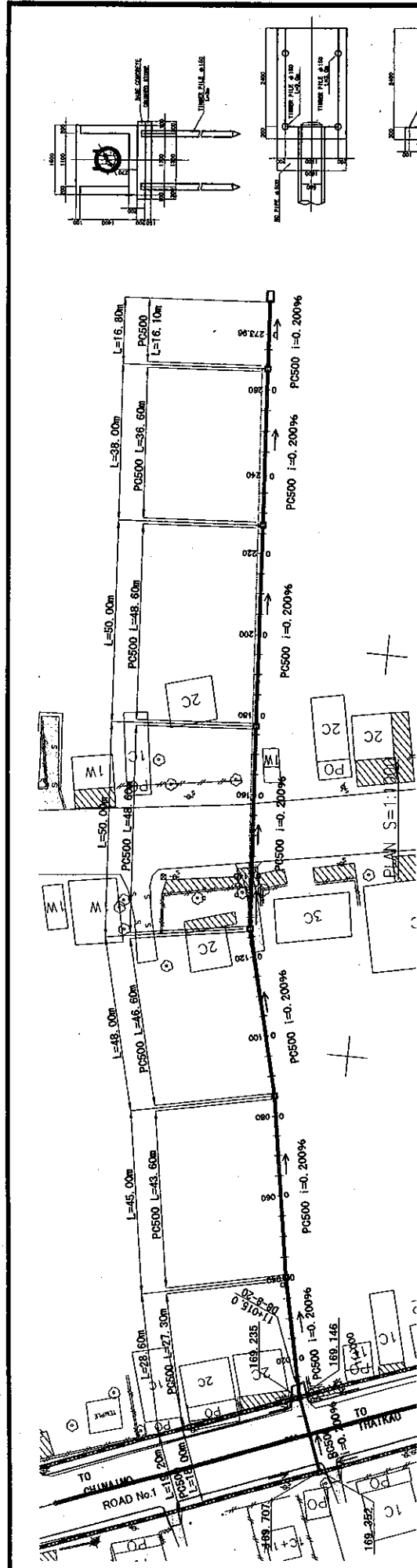


Station	Surface Elevation	Overburden Elevation	Invert Elevation	Pegged Elevation
0+000	170.284	169.416	168.549	169.445
0+050	170.125	168.450	168.350	168.260
0+100	170.193	168.350	168.350	168.260
0+145	170.400	168.260	168.260	168.222
0+150	170.420	168.260	168.260	168.222
0+154	170.505	168.260	168.260	168.222
0+159	170.505	168.260	168.260	168.222
0+162.2	170.505	168.260	168.260	168.222

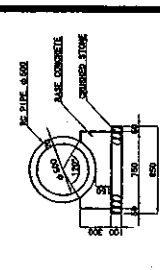
PROFILE V=1:100 H=1:1000

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	GENERAL DRAWING OF DRAINAGE OUTLET DL11 (10+662.6)	SCALE: As Shown	DRAWING No: DR-112	R/L:
BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE-NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC				
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC				

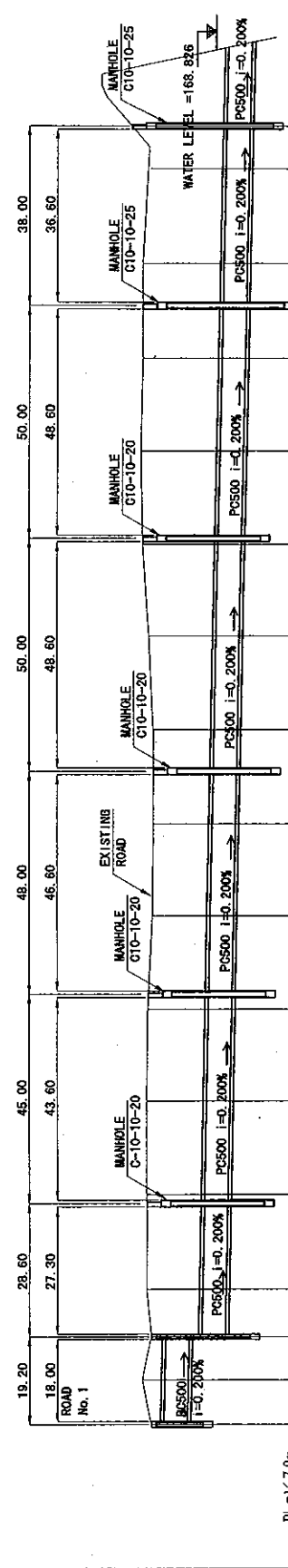




OUTLET WORK S=1:100



PIPE CULVERT  
S=1:50



Stationing	Surface Elevation	Invert Elevation	Pegged Elevation
0+000	170.295	169.418	169.418
0+020	170.289	169.380	169.380
0+040	170.275	168.557	168.557
0+060	170.290	168.467	168.467
0+080	170.266	168.371	168.371
0+100	170.162	168.371	168.371
0+120	170.146	168.371	168.371
0+140	170.149	168.371	168.371
0+160	170.238	168.271	168.271
0+180	170.373	168.171	168.171
0+200	170.418	168.171	168.171
0+220	170.374	168.171	168.171
0+240	170.374	168.095	168.095
0+260	170.61	168.095	168.095
0+275	171.264	168.062	168.062
0+280	171.349	168.062	168.062
0+285	171.426	168.062	168.062
0+290	171.522	168.062	168.062

PROFILE  
V=1:100  
H=1:1000

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION  
TRANSPORT, POST AND CONSTRUCTION  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

BASIC DESIGN STUDY ON THE PROJECT FOR THE  
IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

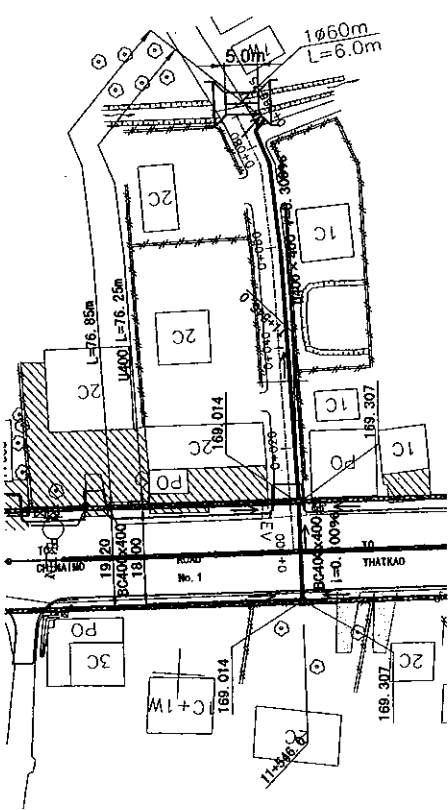
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO.LTD

GENERAL DRAWING OF  
DRAINAGE OUTLET  
DL12 (11+015)

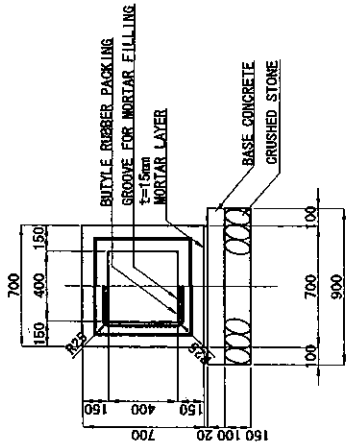
SCALE: As Shown

DRAWING No: DB-113

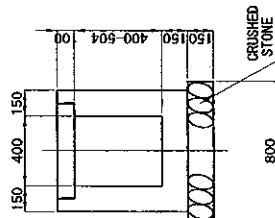
REV.



PLAN S=1:1000



BOX CULVERT S=1:30



DRAINAGE CHANNEL S=1:30

DL=167.0m	19.20	76.85	169.161	0+086.75	168.648
SURFACE	BC400x400 ROAD No. 1	76.25	169.252	0+080	168.648
OVERBURDEN	MANHOLE D-8-8-15	EXISTING ROAD	169.708	0+063	168.728
INVERT	BC400x400		169.428	0+060	168.728
PEGGED			169.445	0+040	168.788
			169.427	0+034.3	168.848
			169.348	0+020	168.848
			168.878	0+009.6	168.878
			169.905	0+000	168.948
			168.120		168.697

PROFILE V=1:100 H=1:1000

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC

BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

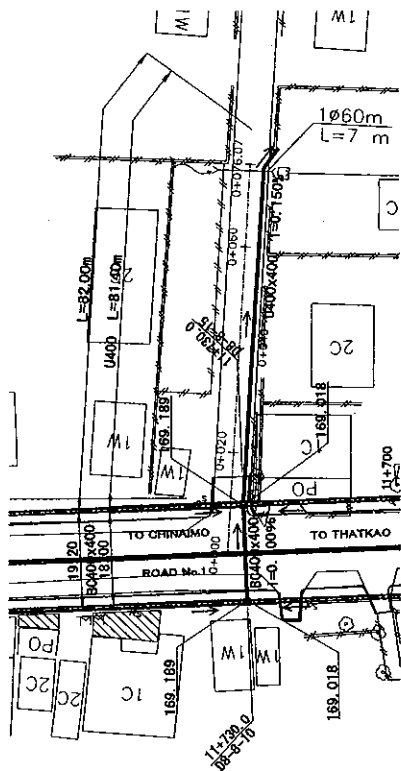
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

GENERAL DRAWING OF DRAINAGE OUTLET DL14 (11+546)

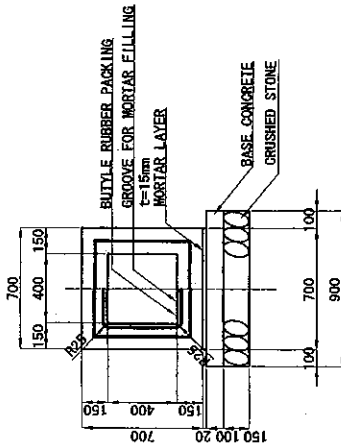
SCALE: As Shown

DRAWING No: DR-114

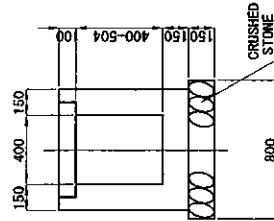
Rv.



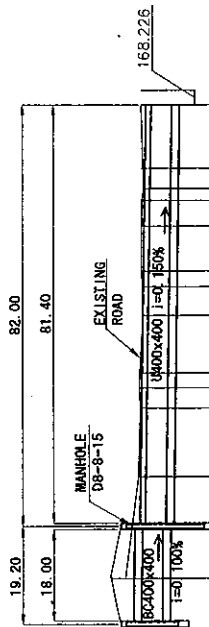
PLAN S=1:1000



BOX CULVERT S=1:30



DRAINAGE CHANNEL S=1:30



SURFACE	DL=167.0m	169.711	169.602	169.353	169.312	169.337	169.321	169.268	169.268	169.293	169.284	169.276	169.245	169.293						
		168.896	168.877	168.822	168.808	168.778	168.748	168.718	168.699	0+03.3	0+03.7	0+04.0	0+05.1	0+05.7	0+06.0	0+06.8	0+07.3	0+07.6	0+08.0	0+92.5
OVERBURDEN																				
INVERT																				
PEGGED																				

PROFILE V=1:100 H=1:1000

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION  
TRANSPORT, POST AND CONSTRUCTION  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

BASIC DESIGN STUDY ON THE PROJECT FOR THE  
IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

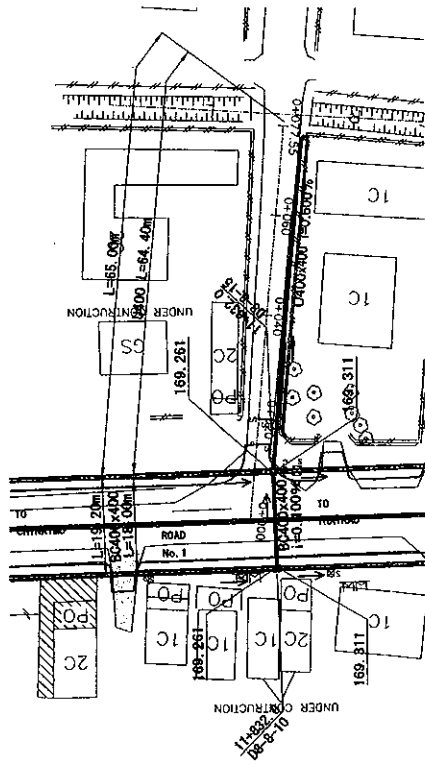
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO.LTD

GENERAL DRAWING OF  
DRAINAGE OUTLET  
DL15 (11+730)

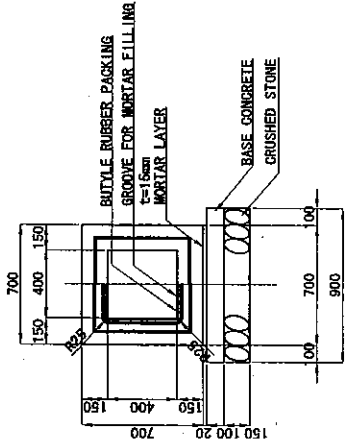
SCALE:  
As Shown

DRAWING No:  
DR-115

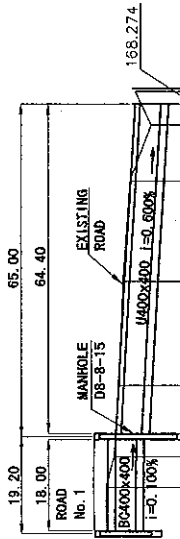
REV.



PLAN S=1:1000



BOX CULVERT S=1:30



DL=167.0m	169.769	169.613	169.500	169.427	169.289	168.876	169.182
SURFACE	169.769	169.613	169.500	169.427	169.289	168.876	169.182
OVERBURDEN							
INVERT	169.196	169.126	169.077	169.017	168.977	168.777	168.686
PEGGED	0+000	0+006	0+010.02	0+020	0+040	0+060	0+071
							0+075.1
							0+077.55

PROFILE V=1:100 H=1:1000

DRAINAGE CHANNEL S=1:30

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION  
TRANSPORT, POST AND CONSTRUCTION  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

BASIC DESIGN STUDY ON THE PROJECT FOR THE  
IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

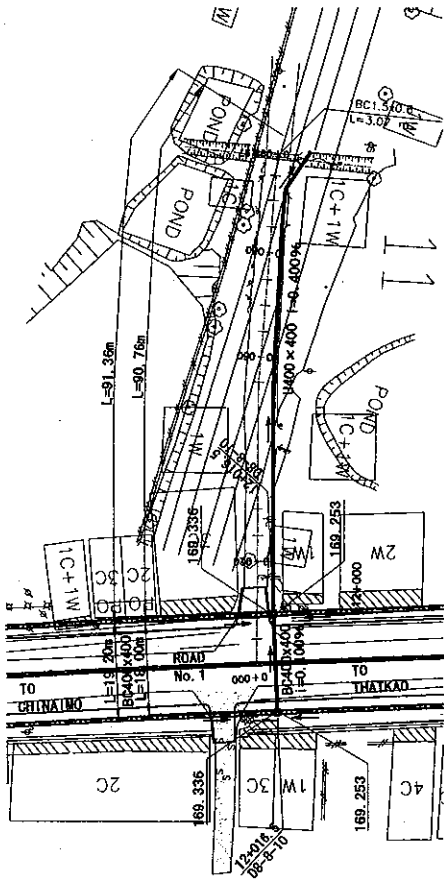
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE: GENERAL DRAWING OF  
DRAINAGE OUTLET  
DL16 (11+832)

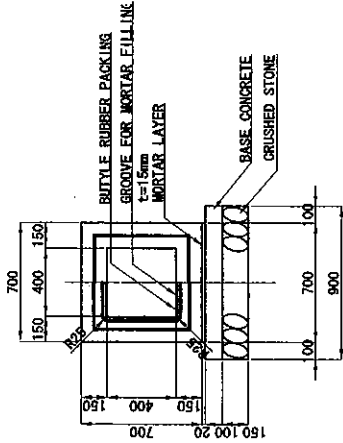
SCALE:  
As Shown

DRAWING No:  
DR-116

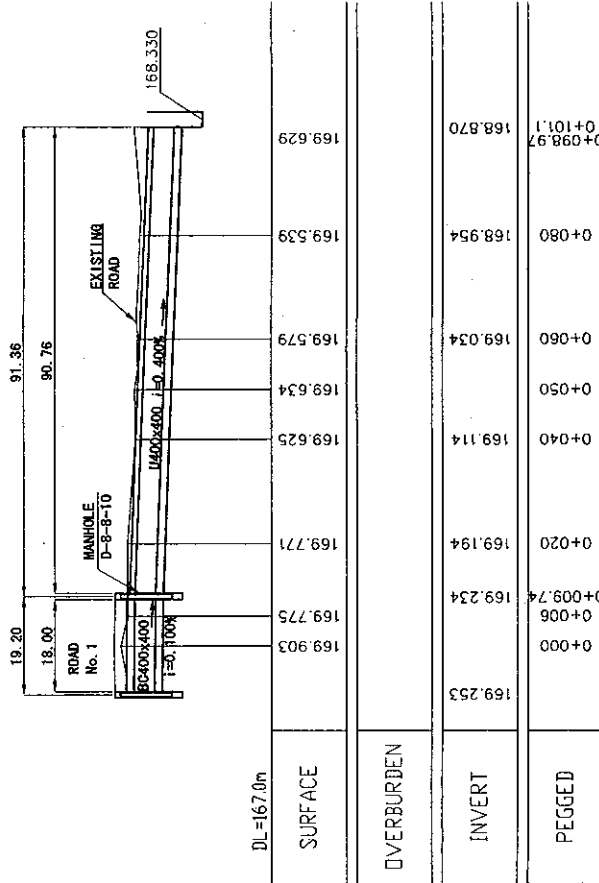
Rv.



PLAN S=1:1000

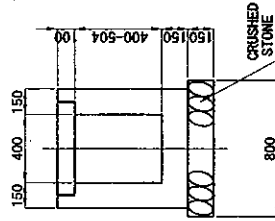


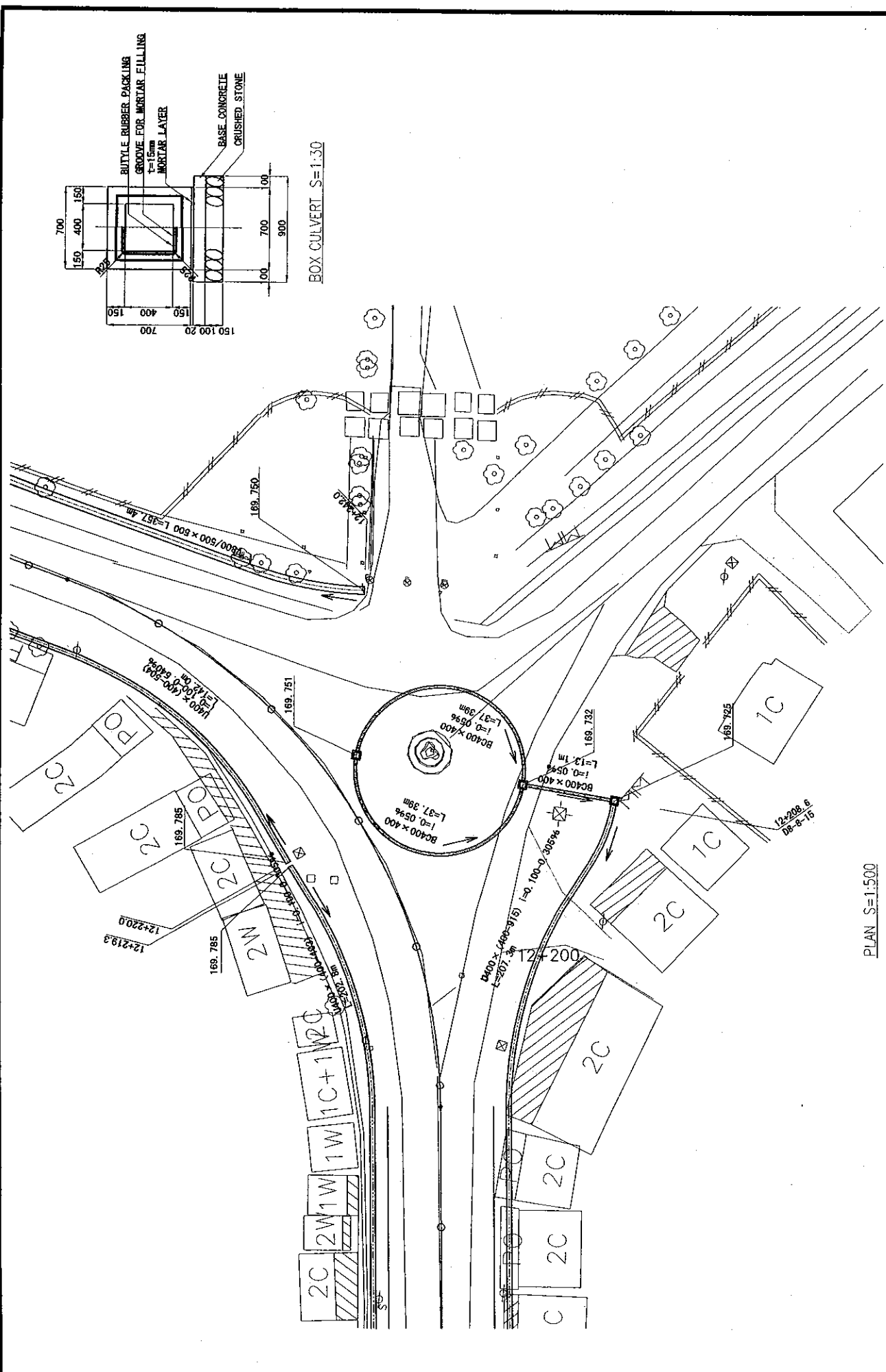
BOX CULVERT S=1:30



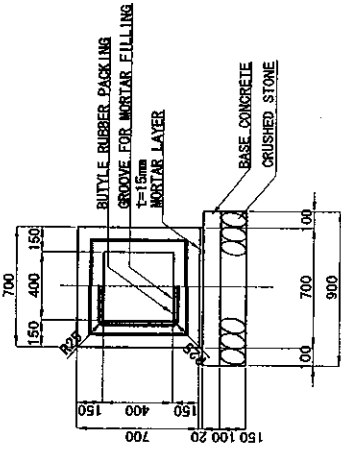
PROFILE V=1:100  
H=1:1000

DRAINAGE CHANNEL S=1:30



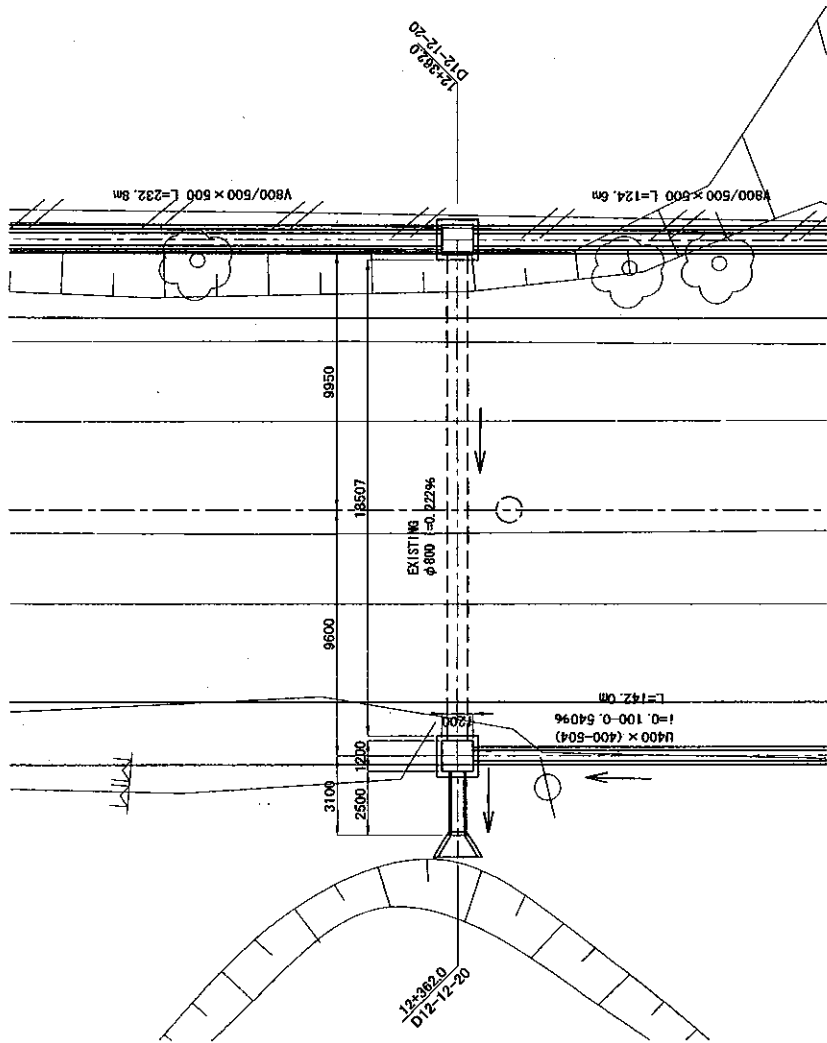


PLAN S=1:500

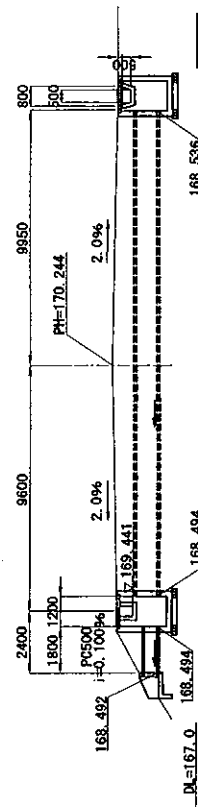


BOX CULVERT S=1:30

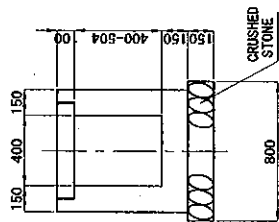
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE GENERAL DRAWING OF DRAINAGE OUTLET (12+220)	SCALE:	DRAWING No:
			As Shown	DR-118
				R2



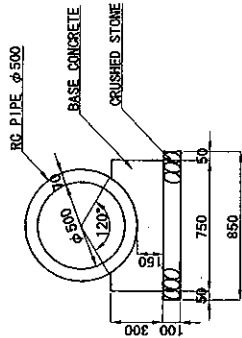
PLAN S=1:200



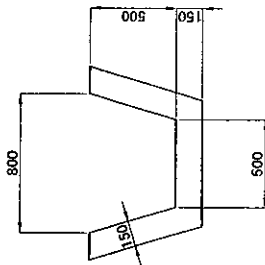
PROFILE S=1:200



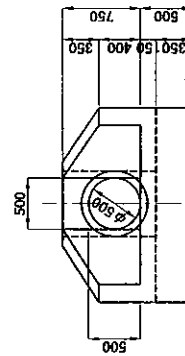
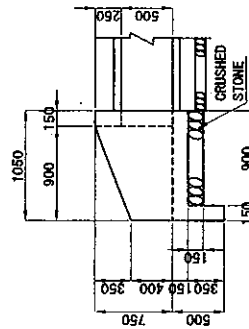
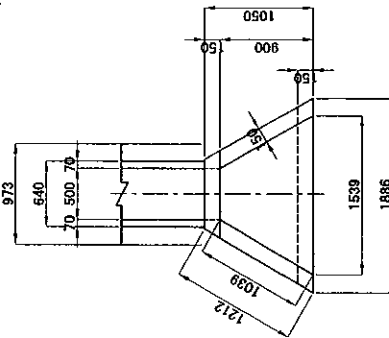
DRAINAGE CHANNEL S=1:30



PIPE CULVERT S=1:30

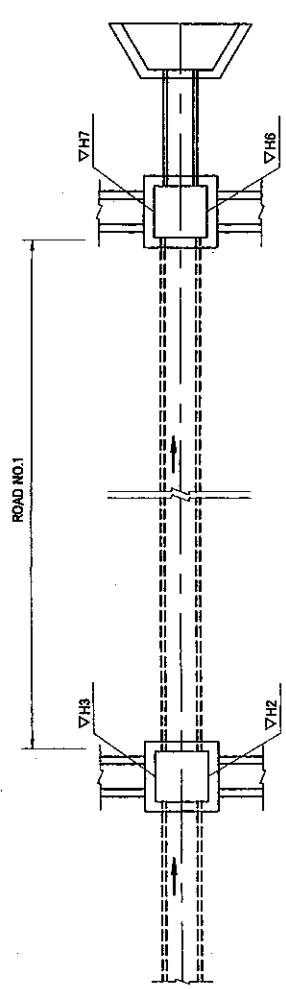
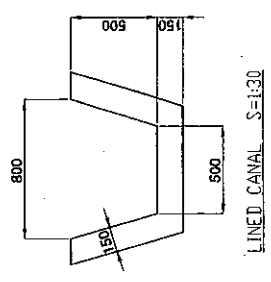
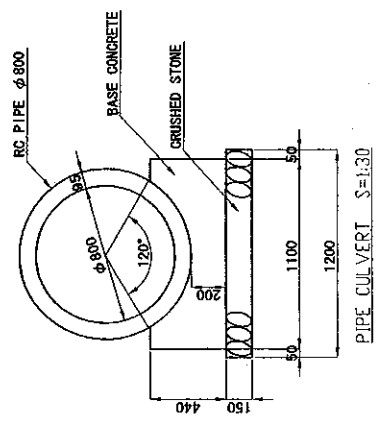
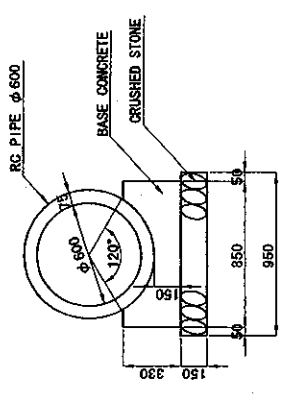


LINED CANAL S=1:30

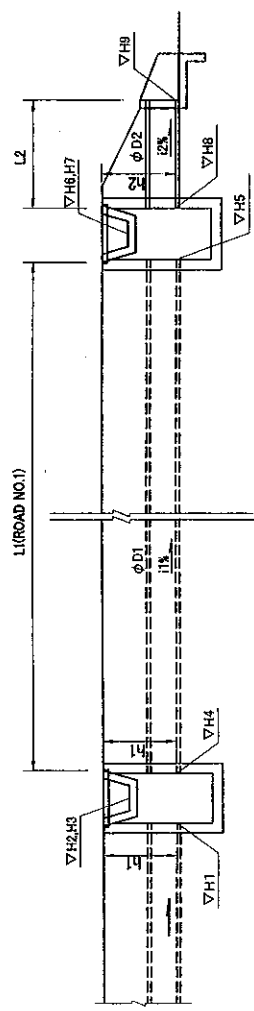


OUTLET WORK S=1:50

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE: GENERAL DRAWING OF DRAINAGE OUTLET DL18(12+362)	SCALE:	DRAWING No:
			As Shown	DR-119
				REV:



PLAN 1:100



PROFILE 1:100

DIMENSION TABLE

STA	FH	H1	H2	H3	H4	H5	H6	H7	H8	H9	h1	h2	D1	D2	I1 (%)	I2 (%)	I3 (%)	L1	L2	REMARKS (Outlet, Flow Direction)
12+702.6	170.699	169.055	170.183	170.237	169.055	168.645	169.399	170.102	168.645	168.625	1.655	1.906	0.6	0.6	2.049	2.049	2.049	6.0	1.0	DL-18 . R → L
14+652.9	175.105	173.167	170.408	174.405	173.167	173.069	—	—	173.069	173.059	1.740	1.838	0.8	0.8	0.480	0.480	0.490	2.0	2.0	DL-21 . L → R

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION  
TRANSPORT, POST AND CONSTRUCTION  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

BASIC DESIGN STUDY ON THE PROJECT FOR THE  
IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

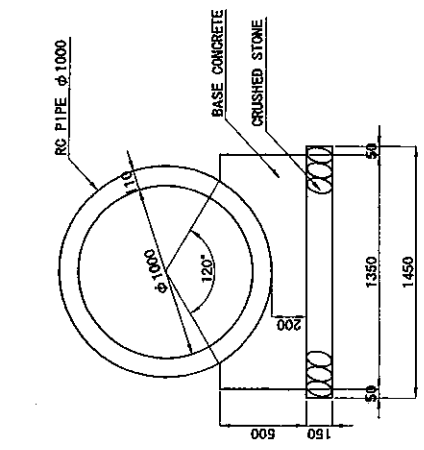
TITLE: OUTLET PLAN  
12+362.12+703.14+553  
(DL19, DL21)

SCALE: AS SHOWN

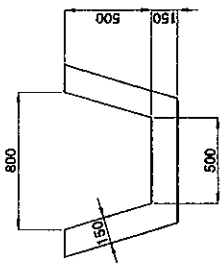
DRAWING No: DR-120

Rev: [ ]

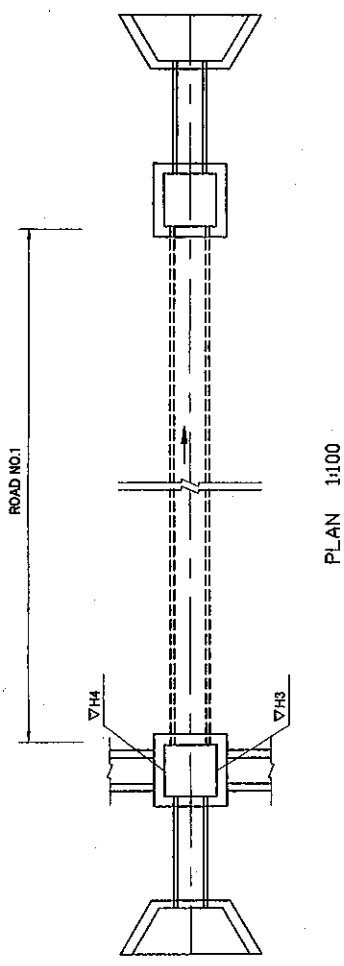




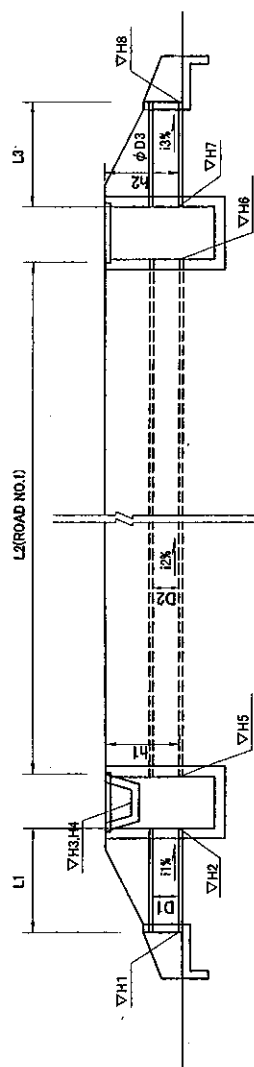
PIPE CULVERT S=1:30



LINED CANAL S=1:30



PLAN 1:100

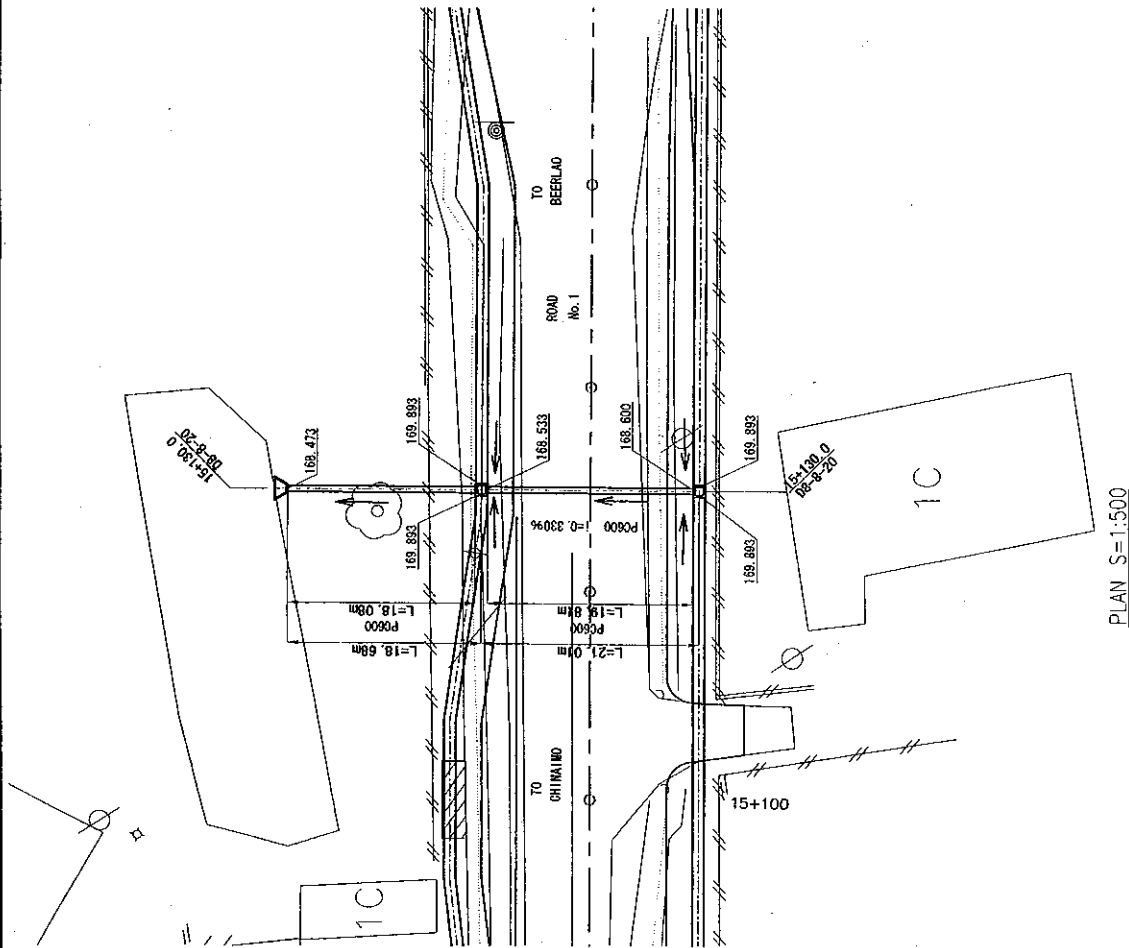


PROFILE 1:100

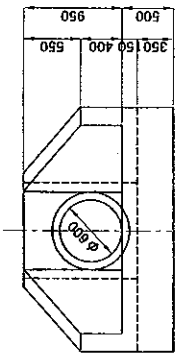
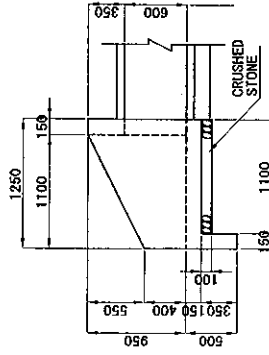
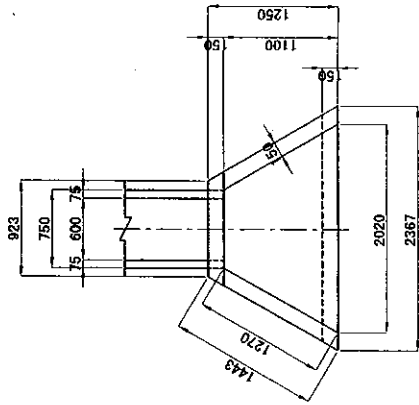
DIMENSION TABLE

STA	FH	H1	H2	H3	H4	H5	H6	H7	H8	h1	h2	D1	D2	D3	D4	D5	REMARKS (Outlet, Flow Direction)			
13+296.8	189.927	167.245	167.245	189.232	189.223	167.245	167.303	167.303	167.301	2.395	2.425	1.0	1.0	1.0	1.0	0.200	0.200	0.200	1.0	DL20 L → R

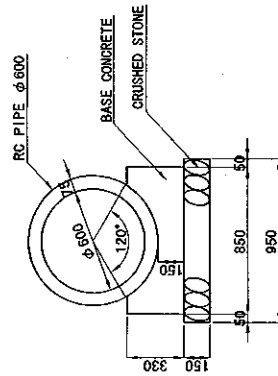
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NELL ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	DRAWING No: DR-121 AS SHOWN REV
OUTLET PLAN 13+297.17+660 (DL20, DL25)			



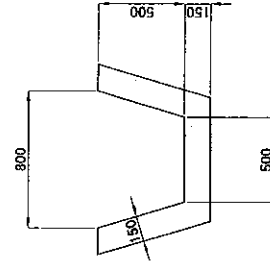
PLAN S=1:500



OUTLET WORK S=1:50

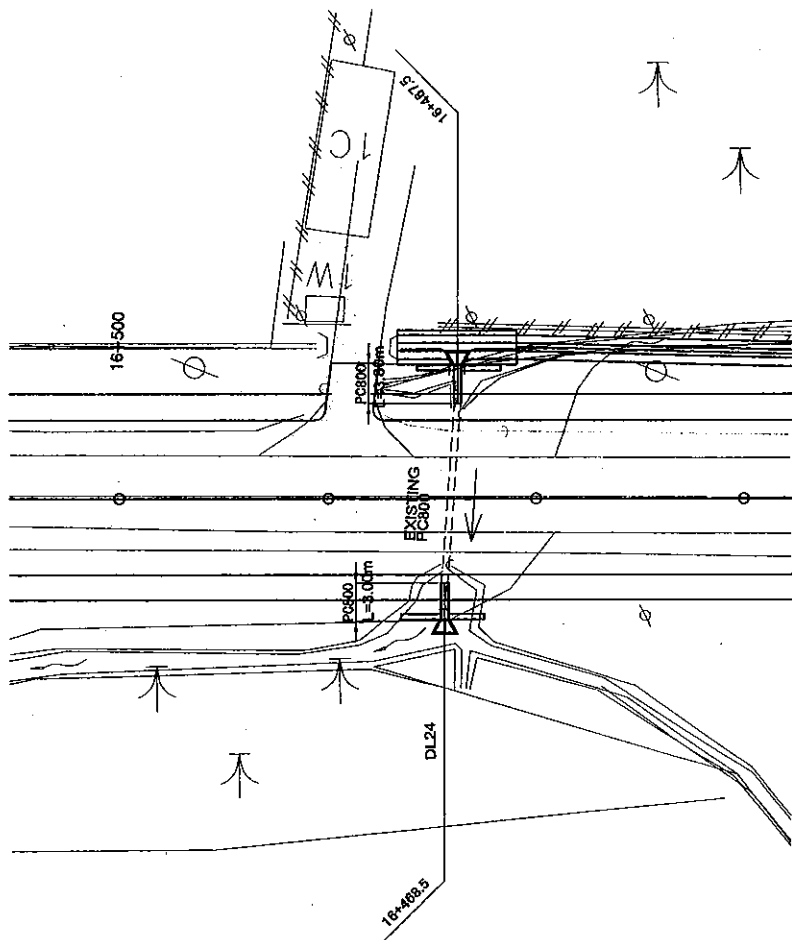


PIPE CULVERT S=1:30

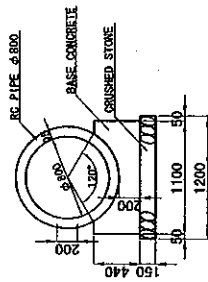


LINED CANAL S=1:30

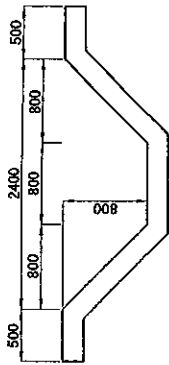
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	TITLE:	GENERAL DRAWING OF DRAINAGE OUTLET DL22 (15+130)	SCALE:	As Shown	DRAWING No:	DR-122	Rev:	



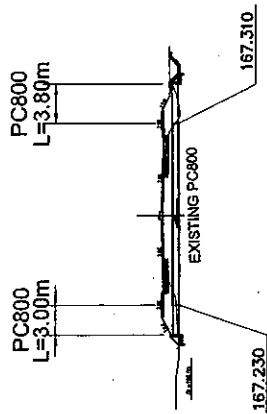
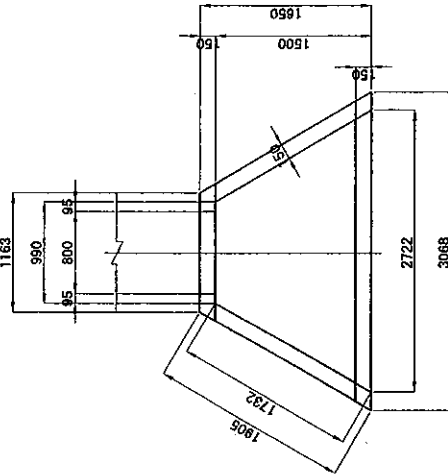
PLAN S=1:500



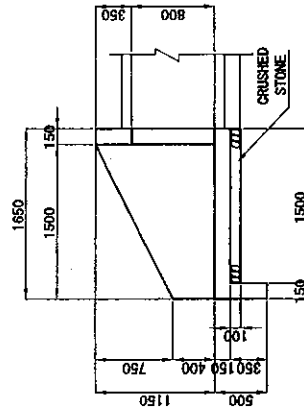
PIPE CULVERT S=1:50



CANAL PROTECTION (L=10.0m) S=1:50

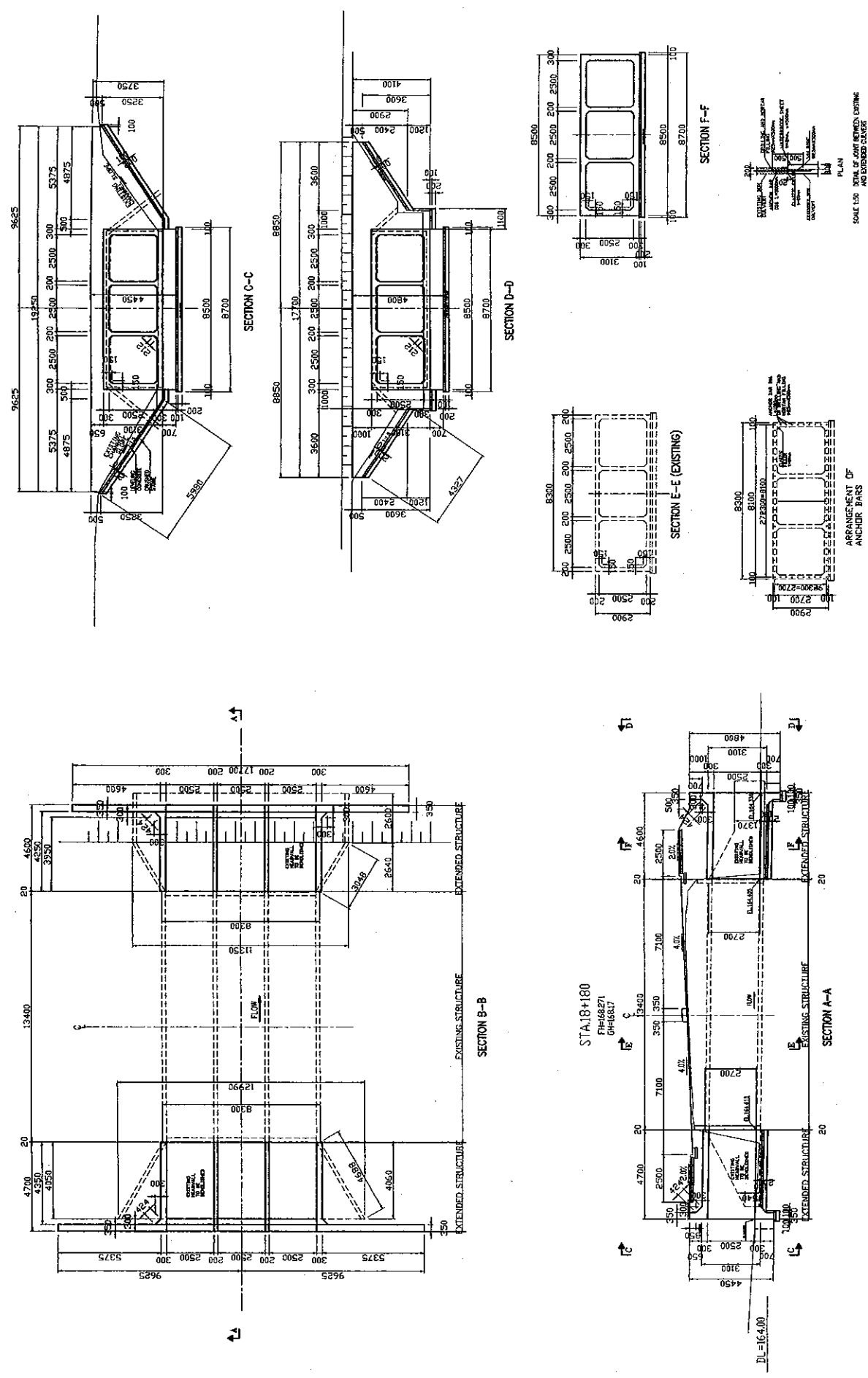


CROSS SECTION S=1:500

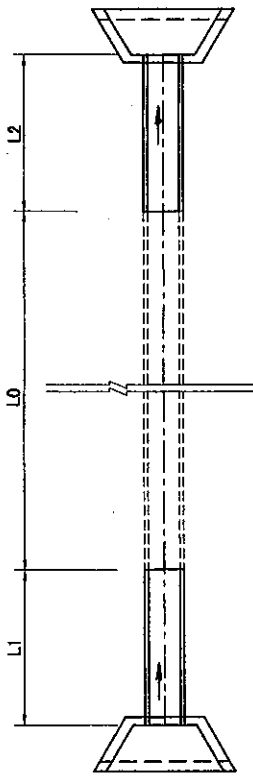


OUTLET WORK S=1:50

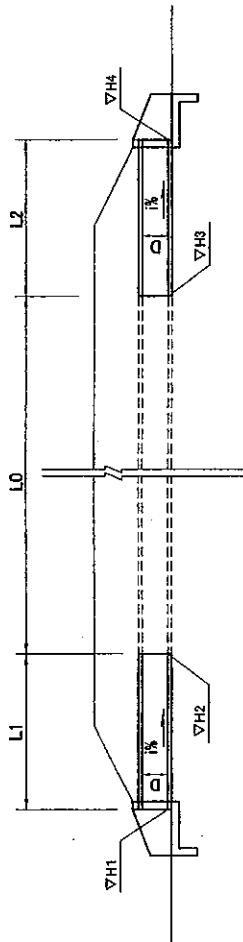
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.LTD	TITLE:	GENERAL DRAWING OF DRAINAGE OUTLET DL24 (16+468.5)	SCALE:	S=1:100	DRAWING No:	DR-123	Rev:
			OUTLET WORK S=1:50						



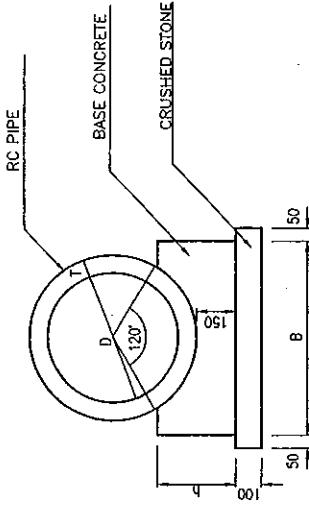
DEPARTMENT OF ROADS, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NDI ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CII ENGINEERING INTERNATIONAL CO., LTD	TITLE: STRUCTURAL DRAWING OF OUTLET WORKS DL26 (18+180)	SCALE: 1:120	DRAWING NO: DR-124
				SCALE: 1:120	Rv.



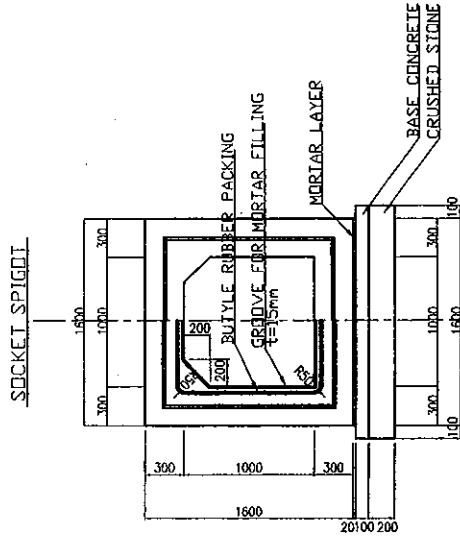
PLAN 1:200



PROFILE 1:200



RC PIPE



BOX CULVERT

DIMENSION TABLE

STA	H1	H2	H3	H4	TYPE	i (%)	L0	L1	L2	REMARKS (Flow Direction)
19+749	-	166.215	166.175	166.170	BC1000*1000	0.245	16.3	-	2.0	R → L
22+256	166.173	166.555	166.172	166.025	PC600	2.946	13.0	4.0	5.0	R → L
23+087	166.449	166.449	166.446	166.445	PC600	0.021	14.3	1.5	4.0	R → L

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION  
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LAO PEOPLE'S DEMOCRATIC REPUBLIC

BASIC DESIGN STUDY ON THE PROJECT FOR THE  
IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

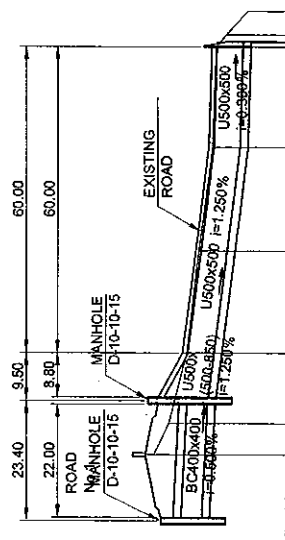
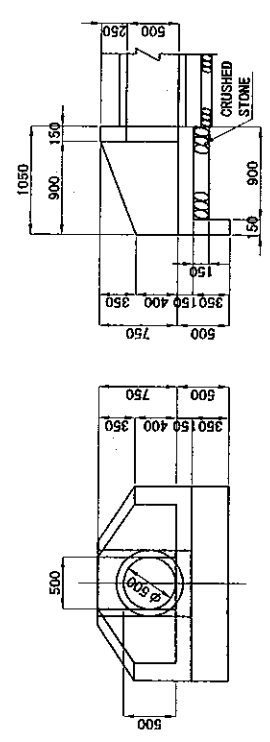
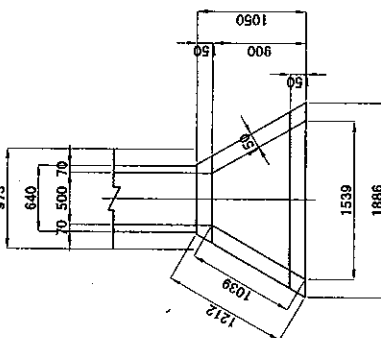
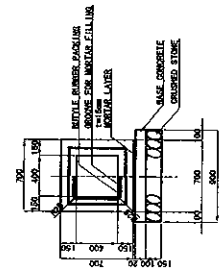
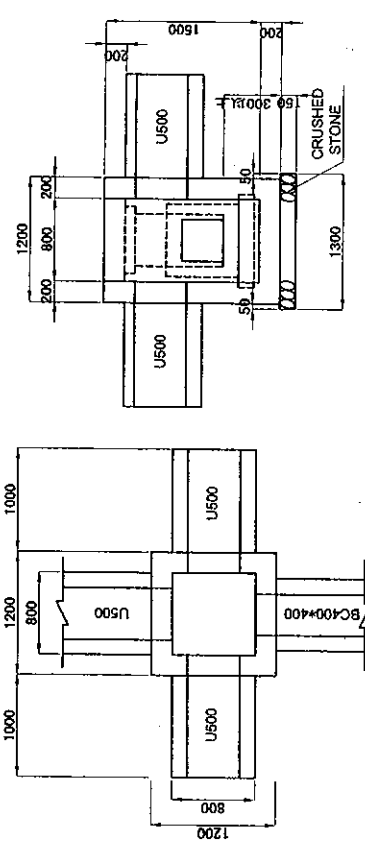
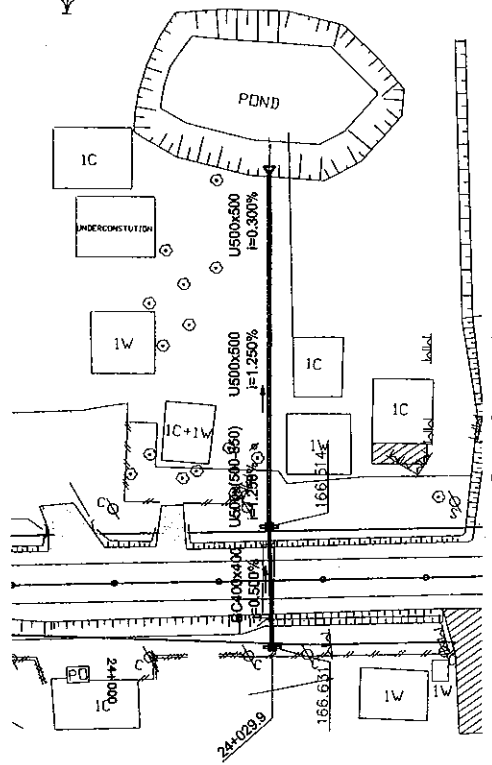
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

TITLE: EXTENDED DTRUCTURE  
19+749,22+257,23+087

SCALE: AS SHOWN

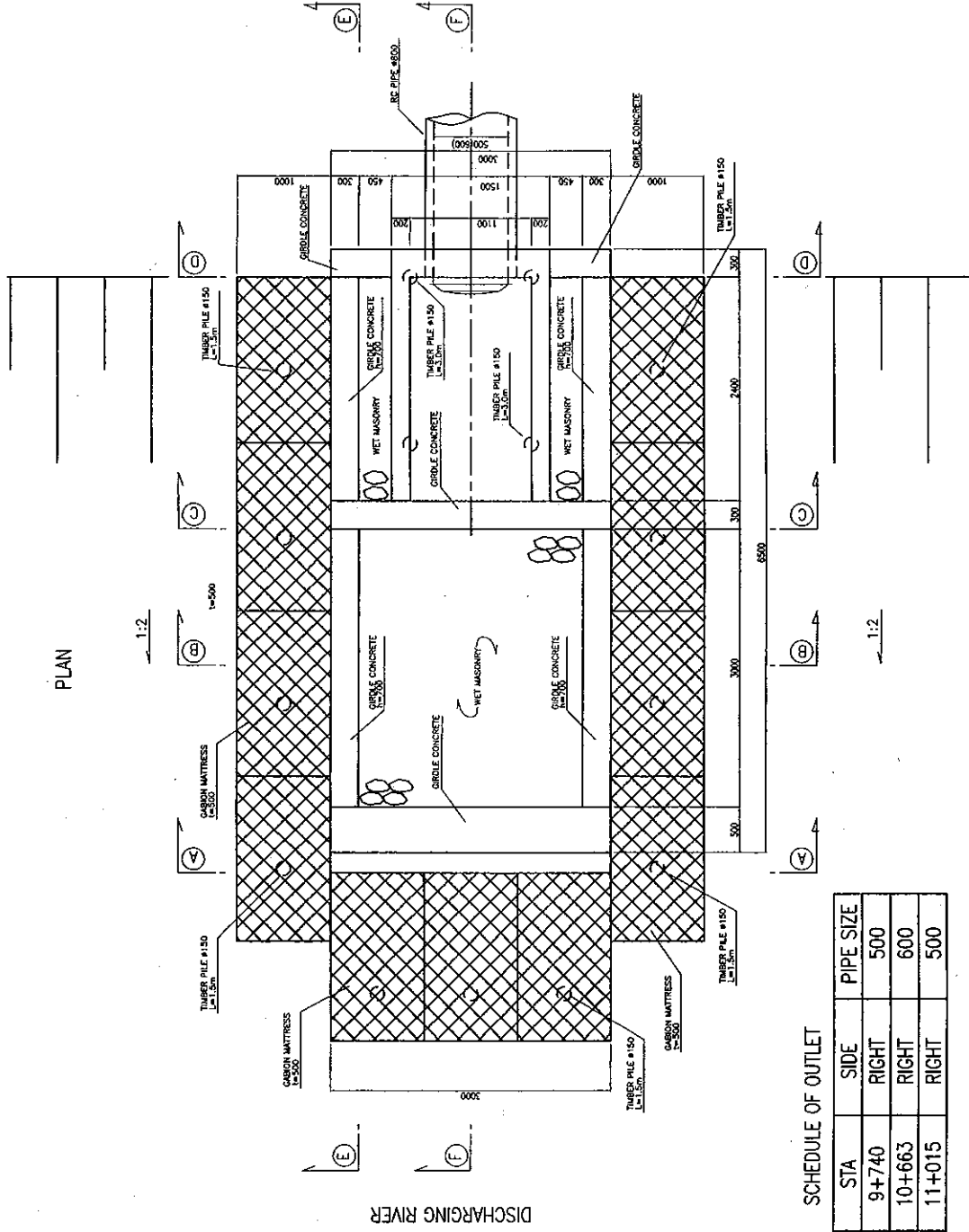
DRAWING No: DR-125

Rev.



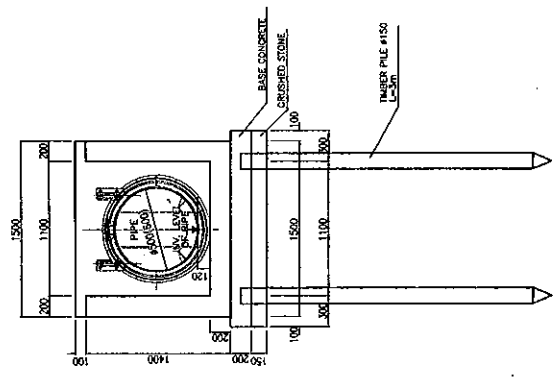
165.00	167.551	167.265	166.922	166.692	166.424	166.395	166.156	165.740
SURFACE								
OVERBURDEN								
INVERT	166.631	166.514	166.395	166.145	165.895	165.835	165.824	165.740
PEGGED	0+000	0+005	0+020	0+040	0+060	0+080	0+082.4	0+087

OUTLET WORK S=1:50



PLAN

OUTLET FRONT



DISCHARGING RIVER

SCHEDULE OF OUTLET

DL	STA	SIDE	PIPE SIZE
DL-9	9+740	RIGHT	500
DL-11	10+663	RIGHT	600
DL-12	11+015	RIGHT	500

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION  
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BASIC DESIGN STUDY ON THE PROJECT FOR THE  
IMPROVEMENT OF THE VIETIANE NO.1 ROAD IN THE  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

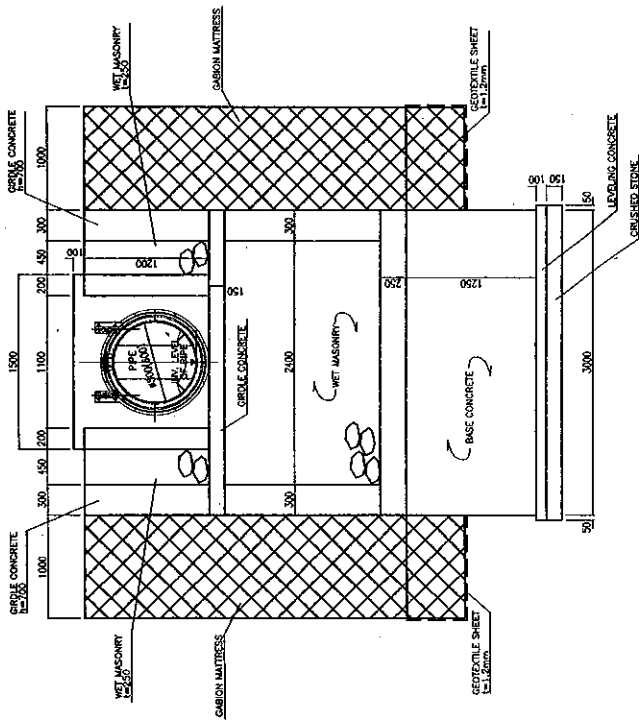
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO.,LTD

OUTLET WORKS 1/4

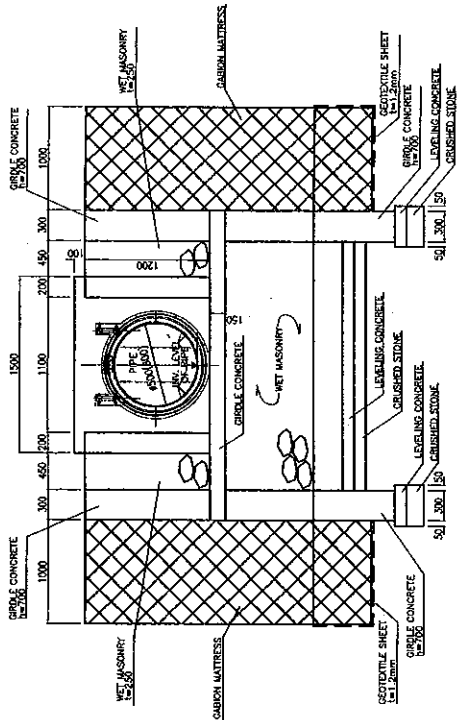
SCALE:  
AS SHOWN

DRAWING No:  
DR-127

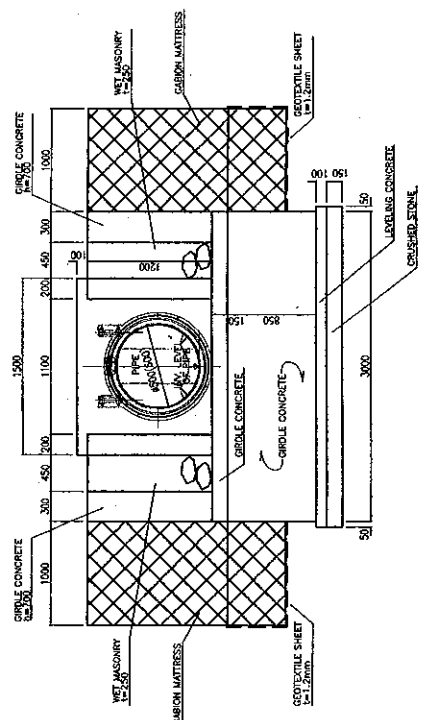
A-A SECTION



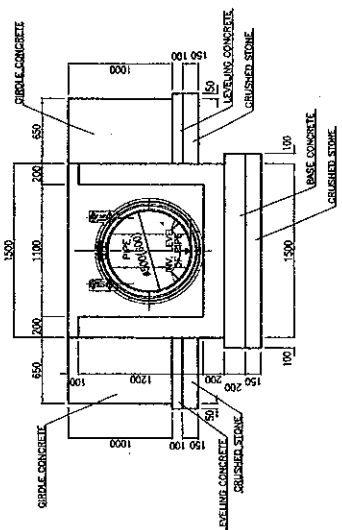
B-B SECTION



C-C SECTION



D-D SECTION



ROADS DEPARTMENT, MINISTRY OF COMMUNICATION  
TRANSPORT, POST AND CONSTRUCTION  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

BASIC DESIGN STUDY ON THE PROJECT FOR THE  
IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CIT ENGINEERING INTERNATIONAL CO.LTD

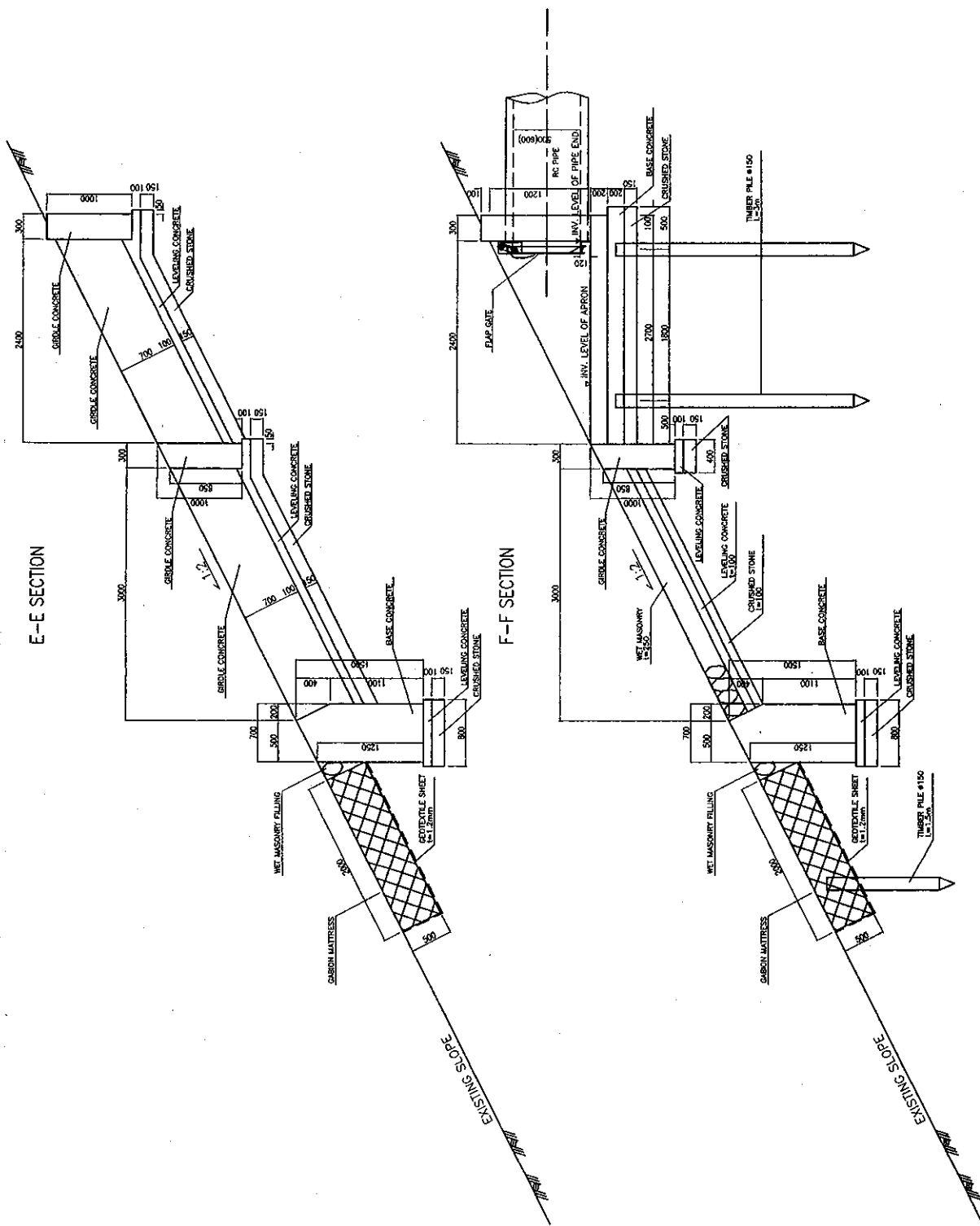
OUTLET WORKS 2/4

SCALE:  
AS SHOWN

DRAWING No:  
DR-128

R/R

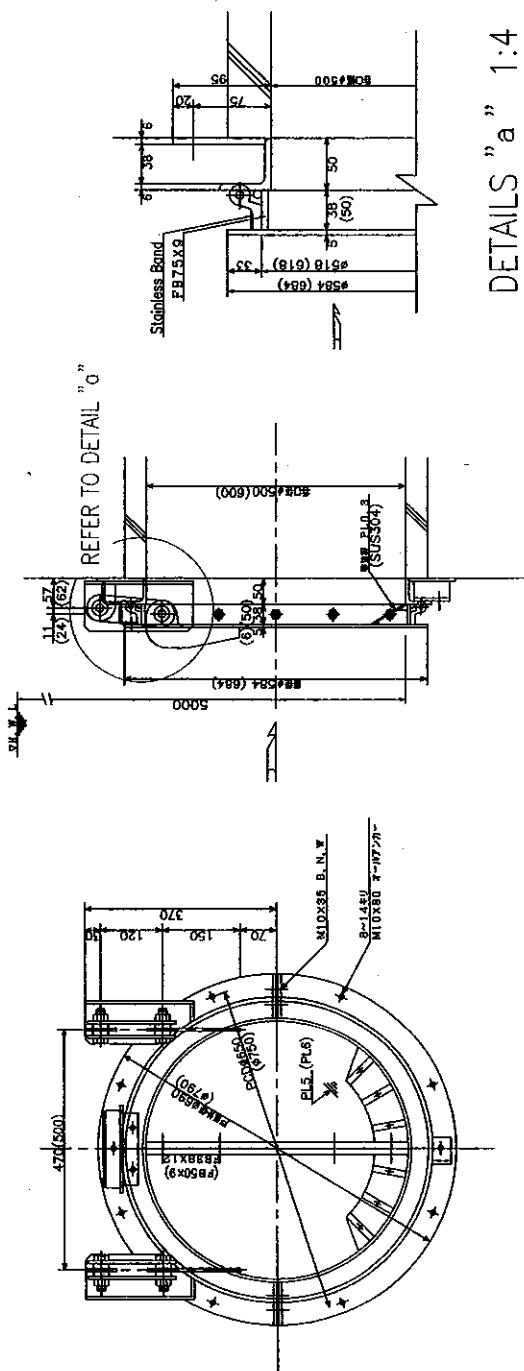




E-E SECTION

F-F SECTION

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	SCALE:	DRAWING No:
			AS SHOWN	DR-129
OUTLET WORKS 3/4				Rv



VIEW 1:10

CROSS SECTION 1:10

FLAP GATE

DETAILS "a" 1:4

SCHEDULE OF FLAPGATE

DL	STA	SIDE	PIPE SIZE
DL-9	9+740	RIGHT	500
DL-11	10+663	RIGHT	600
DL-12	11+015	RIGHT	500

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION  
TRANSPORT, POST AND CONSTRUCTION  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

BASIC DESIGN STUDY ON THE PROJECT FOR THE  
IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO.,LTD

OUTLET WORKS 4/4

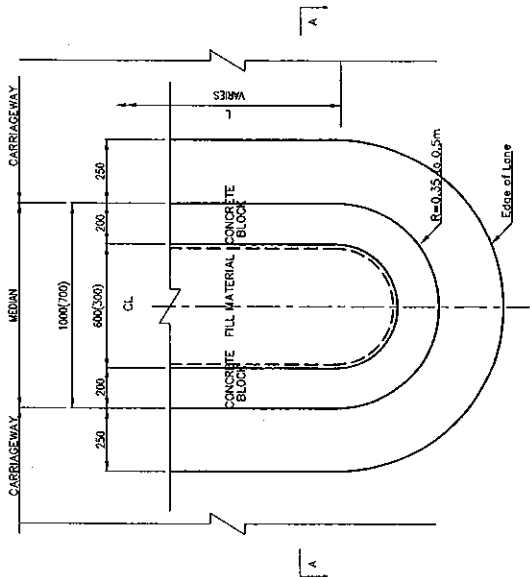
SCALE:

AS SHOWN

DRAWING No:

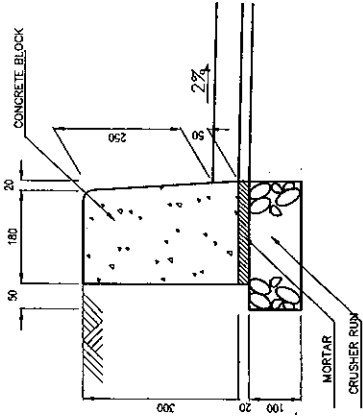
DR-130

REV

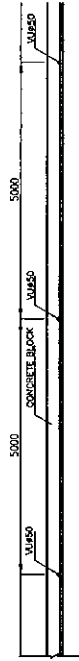


PLAN  
NOT TO SCALE

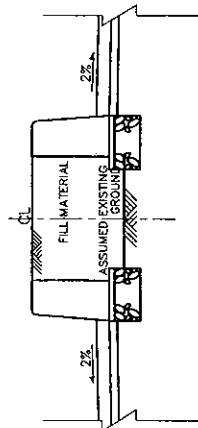
NOTE: Numbers in Brackets indicate dimensions from Simuang Junction to the end point.



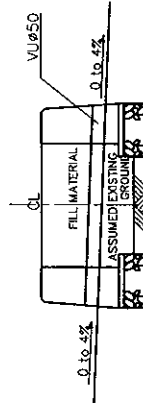
DETAIL OF CURB STONE  
SCALE 1:5



SIDE VIEW  
SCALE 1:50



A-A SECTION  
NOT TO SCALE  
MEDIAN(MOUNTED TYPE)



CROSS - SECTION  
SCALE 1:20

MEDIAN STRUCTURE AT SUPER ELEVATION SECTION

SCHEDULE LIST OF MEDIAN

No.	Start Point	End Point	WIDTH (m)	LENGTH (m)
1	1+485.0	1+505.0	1.0	20.0
2	1+505.0	1+525.0	1.0	20.0
3	1+525.0	1+545.0	1.0	20.0
4	1+545.0	1+565.0	1.0	20.0
5	1+565.0	1+585.0	1.0	20.0
6	1+585.0	1+605.0	1.0	20.0
7	1+605.0	1+625.0	1.0	20.0
8	1+625.0	1+645.0	1.0	20.0
9	1+645.0	1+665.0	1.0	20.0
10	1+665.0	1+685.0	1.0	20.0
11	1+685.0	1+705.0	1.0	20.0
12	1+705.0	1+725.0	1.0	20.0
13	1+725.0	1+745.0	1.0	20.0
14	1+745.0	1+765.0	1.0	20.0
15	1+765.0	1+785.0	1.0	20.0
16	1+785.0	1+805.0	1.0	20.0
17	1+805.0	1+825.0	1.0	20.0
18	1+825.0	1+845.0	1.0	20.0
19	1+845.0	1+865.0	1.0	20.0
20	1+865.0	1+885.0	1.0	20.0
21	1+885.0	1+905.0	1.0	20.0
22	1+905.0	1+925.0	1.0	20.0
23	1+925.0	1+945.0	1.0	20.0
24	1+945.0	1+965.0	1.0	20.0
25	1+965.0	1+985.0	1.0	20.0
26	1+985.0	2+000.0	1.0	15.0
<b>TOTAL LENGTH</b>				<b>3,517.0m</b>

CHINAING AND NONCHANG JUNCTION

No.	Start Point	End Point	WIDTH (m)	LENGTH (m)
1	19+240.0	19+268.8	1.6	28.8

SCHEDULE LIST OF MEDIAN  
SUPERELEVATION SECTION

No.	Start Point	End Point	WIDTH (m)	LENGTH (m)
1	1+485.0	1+505.0	0.7	20.0
2	1+505.0	1+525.0	0.7	20.0
3	1+525.0	1+545.0	0.7	20.0
4	1+545.0	1+565.0	0.7	20.0
5	1+565.0	1+585.0	0.7	20.0
6	1+585.0	1+605.0	0.7	20.0
7	1+605.0	1+625.0	0.7	20.0
8	1+625.0	1+645.0	0.7	20.0
9	1+645.0	1+665.0	0.7	20.0
10	1+665.0	1+685.0	0.7	20.0
11	1+685.0	1+705.0	0.7	20.0
12	1+705.0	1+725.0	0.7	20.0
13	1+725.0	1+745.0	0.7	20.0
14	1+745.0	1+765.0	0.7	20.0
15	1+765.0	1+785.0	0.7	20.0
16	1+785.0	1+805.0	0.7	20.0
17	1+805.0	1+825.0	0.7	20.0
18	1+825.0	1+845.0	0.7	20.0
19	1+845.0	1+865.0	0.7	20.0
20	1+865.0	1+885.0	0.7	20.0
21	1+885.0	1+905.0	0.7	20.0
22	1+905.0	1+925.0	0.7	20.0
23	1+925.0	1+945.0	0.7	20.0
24	1+945.0	1+965.0	0.7	20.0
25	1+965.0	1+985.0	0.7	20.0
26	1+985.0	2+000.0	0.7	15.0
<b>TOTAL LENGTH</b>				<b>3,438.0m</b>

SCHEDULE LIST OF MEDIAN  
SUPERELEVATION SECTION

No.	Start Point	End Point	WIDTH (m)	LENGTH (m)
1	1+485.0	1+505.0	0.7	20.0
2	1+505.0	1+525.0	0.7	20.0
3	1+525.0	1+545.0	0.7	20.0
4	1+545.0	1+565.0	0.7	20.0
5	1+565.0	1+585.0	0.7	20.0
6	1+585.0	1+605.0	0.7	20.0
7	1+605.0	1+625.0	0.7	20.0
8	1+625.0	1+645.0	0.7	20.0
9	1+645.0	1+665.0	0.7	20.0
10	1+665.0	1+685.0	0.7	20.0
11	1+685.0	1+705.0	0.7	20.0
12	1+705.0	1+725.0	0.7	20.0
13	1+725.0	1+745.0	0.7	20.0
14	1+745.0	1+765.0	0.7	20.0
15	1+765.0	1+785.0	0.7	20.0
16	1+785.0	1+805.0	0.7	20.0
17	1+805.0	1+825.0	0.7	20.0
18	1+825.0	1+845.0	0.7	20.0
19	1+845.0	1+865.0	0.7	20.0
20	1+865.0	1+885.0	0.7	20.0
21	1+885.0	1+905.0	0.7	20.0
22	1+905.0	1+925.0	0.7	20.0
23	1+925.0	1+945.0	0.7	20.0
24	1+945.0	1+965.0	0.7	20.0
25	1+965.0	1+985.0	0.7	20.0
26	1+985.0	2+000.0	0.7	15.0
<b>TOTAL LENGTH</b>				<b>1,522.0m</b>

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION  
TRANSPORT, POST AND CONSTRUCTION  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

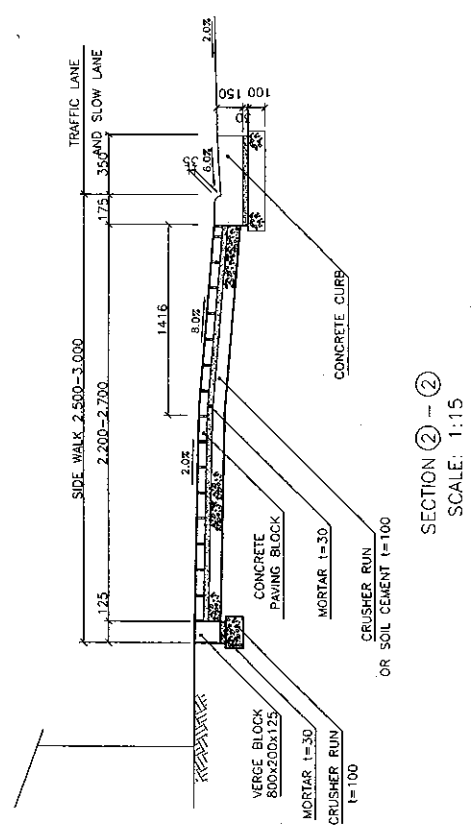
BASIC DESIGN STUDY ON THE PROJECT FOR THE  
IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

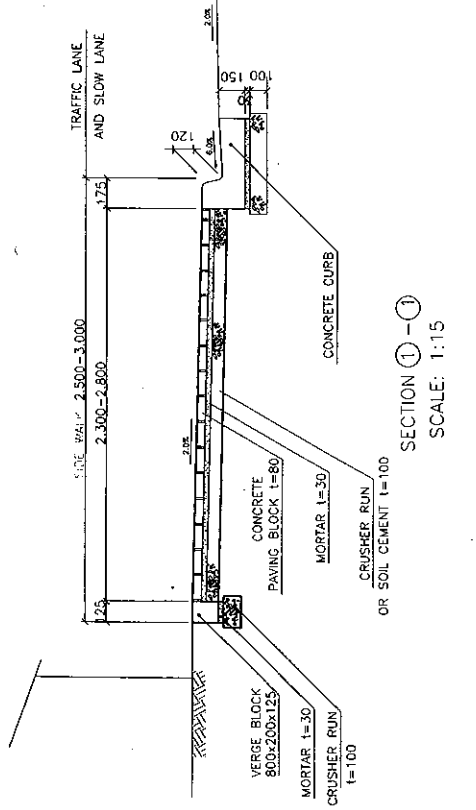
TITLE: ARRANGEMENT AND  
STRUCTURE OF MEDIAN

SCALE: AS  
Mentioned

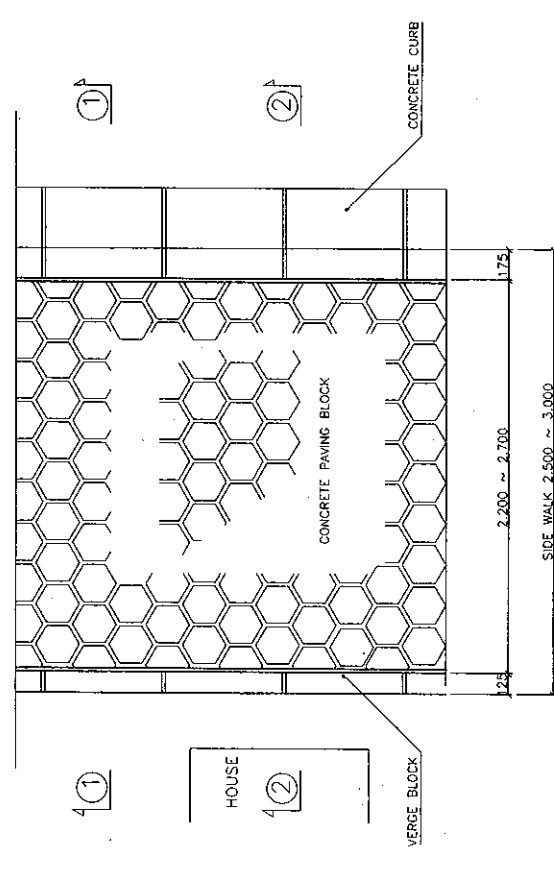
DRAWING NO:  
M-1



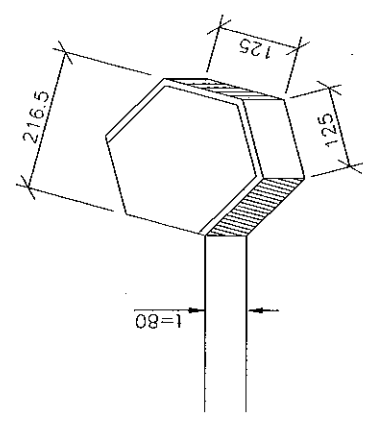
SECTION ①-①  
SCALE: 1:15



SECTION ②-②  
SCALE: 1:15



PLAN  
SCALE: 1:15



CONCRETE BLOCK  
SCALE: 1:10

SIDE WALK TYPE-A (RURAL AREAS)

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	TITLE	SCALE	DRAWING No.
			ARRANGEMENT AND STRUCTURE OF SIDE WALK (1)	1:15	M-2
					REV.

SCHEDULED LIST OF SIDEWALK PAVEMENT TYPE-A  
(CONCRETE BLOCK) ( RURAL AREAS )

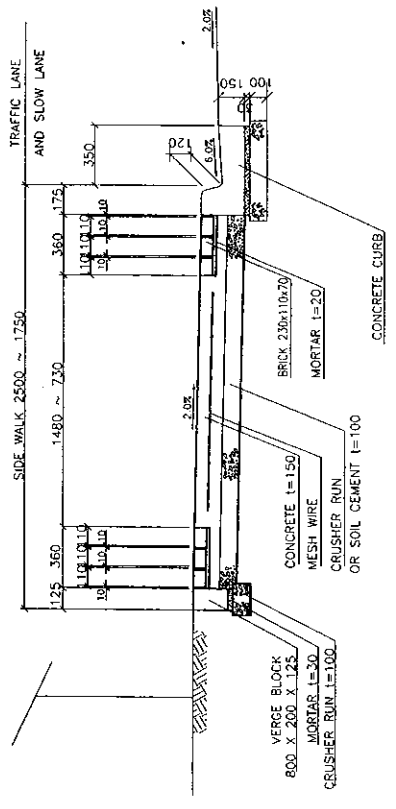
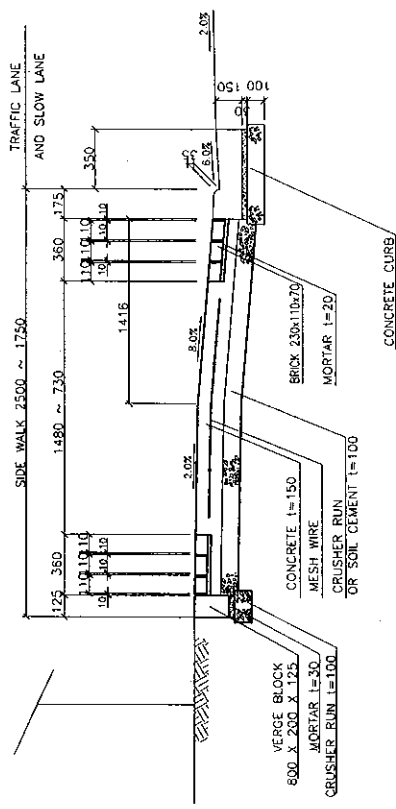
ROAD-1 LEFT SIDE		ROAD-1A LEFT SIDE	
No.	STATION	No.	STATION
1	0+120.0 ~ 0+155.2	42	3+032.9 ~ 3+080.7
2	0+158.3 ~ 0+201.6	43	3+081.2 ~ 3+100.0
3	0+204.6 ~ 0+251.3	44	3+100.0 ~ 3+124.9
4	0+250.6 ~ 0+296.0	45	3+130.5 ~ 3+134.9
5	0+298.8 ~ 0+348.4	46	3+139.2 ~ 3+168.7
6	0+352.9 ~ 0+396.4	47	3+161.8 ~ 3+174.5
7	0+401.9 ~ 0+433.6	48	3+179.7 ~ 3+203.1
8	0+437.7 ~ 0+493.7	49	3+208.6 ~ 3+240.0
9	0+497.8 ~ 0+542.0	50	3+245.1 ~ 3+308.4
10	0+571.9 ~ 0+651.1	51	3+308.8 ~ 3+352.2
11	0+654.0 ~ 0+727.9	52	3+357.1 ~ 3+413.4
12	0+731.7 ~ 0+750.1	53	3+418.2 ~ 3+450.1
13	0+752.8 ~ 0+789.8	54	3+453.1 ~ 3+474.9
14	0+793.1 ~ 0+828.0	55	3+478.9 ~ 3+492.7
15	0+832.6 ~ 0+880.0	56	3+496.2 ~ 3+522.9
16	1+080.0 ~ 1+140.0	57	3+527.3 ~ 3+558.9
17	1+145.1 ~ 1+442.3	58	3+563.9 ~ 3+607.5
18	1+450.5 ~ 1+480.0	59	3+614.4 ~ 3+626.6
19	1+661.4 ~ 1+738.0	60	3+631.5 ~ 3+650.3
20	1+747.2 ~ 1+773.6	61	3+656.0 ~ 3+684.3
21	1+778.4 ~ 1+808.9	62	3+688.7 ~ 3+730.0
22	1+814.2 ~ 1+825.2	63	3+734.3 ~ 3+738.1
23	1+831.6 ~ 1+866.1	64	3+743.0 ~ 3+753.7
24	1+871.2 ~ 1+881.0	65	3+758.7 ~ 3+782.1
25	1+885.9 ~ 1+895.8	66	3+786.9 ~ 3+820.0
26	1+898.7 ~ 2+050.6	67	3+820.0 ~ 3+820.0
27	2+056.8 ~ 2+075.6	68	4+060.6 ~ 4+101.6
28	2+075.6 ~ 2+115.1	69	4+108.8 ~ 4+163.3
29	2+418.8 ~ 2+507.2	70	4+169.4 ~ 4+197.1
30	2+510.6 ~ 2+553.3	71	4+202.2 ~ 4+262.0
31	2+557.3 ~ 2+602.4	72	4+266.0 ~ 4+274.4
32	2+608.2 ~ 2+681.0	73	4+278.3 ~ 4+326.3
33	2+687.1 ~ 2+721.1	74	4+336.3 ~ 4+389.3
34	2+725.5 ~ 2+741.1	75	4+397.6 ~ 4+424.3
35	2+744.9 ~ 2+763.0	76	4+483.8 ~ 4+589.9
36	2+768.0 ~ 2+785.6	77	4+603.9 ~ 4+685.0
37	2+790.5 ~ 2+834.7	78	4+758.4 ~ 4+777.5
38	2+838.8 ~ 2+856.1		
39	2+889.9 ~ 2+873.3		
40	2+876.5 ~ 2+917.6		
41	2+917.4 ~ 3+028.2		
		TOTAL LENGTH	3,254.0m

SCHEDULED LIST OF SIDEWALK PAVEMENT TYPE-A  
(CONCRETE BLOCK) ( RURAL AREAS )

ROAD-1 RIGHT SIDE		ROAD-1A RIGHT SIDE	
No.	STATION	No.	STATION
1	0+121.7 ~ 0+156.3	1	0+080.0 ~ 0+251.0
2	0+158.2 ~ 0+189.3	2	0+258.8 ~ 0+306.5
3	0+305.0 ~ 0+386.2	3	0+311.0 ~ 0+331.9
4	1+080.0 ~ 1+109.3	4	0+344.3 ~ 0+375.5
5	1+106.1 ~ 1+134.2	5	0+380.3 ~ 0+403.8
6	1+139.6 ~ 1+144.3	6	0+412.9 ~ 0+447.1
7	1+149.4 ~ 1+183.4	7	0+456.8 ~ 0+554.4
8	1+189.4 ~ 1+228.6	8	0+668.3 ~ 0+746.3
9	1+234.8 ~ 1+334.6	9	0+751.3 ~ 0+818.1
10	1+340.6 ~ 1+400.3	10	0+822.4 ~ 0+825.0
11	1+406.2 ~ 1+480.0		
12	1+480.0 ~ 1+498.5		
13	1+780.8 ~ 1+808.7		
14	1+813.2 ~ 1+851.2		
15	1+853.5 ~ 1+908.8		
16	1+911.5 ~ 2+003.1		
17	2+129.7 ~ 2+211.1		
18	2+216.5 ~ 2+272.2		
19	2+274.7 ~ 2+292.3		
20	2+338.2 ~ 2+384.4		
21	2+388.1 ~ 2+410.2		
22	2+414.5 ~ 2+488.7		
23	2+602.2 ~ 2+682.6		
24	3+044.2 ~ 3+086.2		
25	3+081.0 ~ 3+090.0		
26	3+090.0 ~ 3+187.8		
27	3+374.2 ~ 3+462.7		
28	3+487.6 ~ 3+478.9		
29	3+483.5 ~ 3+502.8		
30	3+506.7 ~ 3+514.1		
31	3+518.1 ~ 3+547.8		
32	3+551.5 ~ 3+611.8		
33	3+600.0 ~ 4+024.1		
34	4+081.3 ~ 4+098.9		
35	4+102.1 ~ 4+143.5		
36	4+148.3 ~ 4+157.8		
37	4+172.4 ~ 4+191.8		
38	4+188.4 ~ 4+208.2		
39	4+213.8 ~ 4+284.9		
40	4+260.0 ~ 4+285.5		
41	4+400.0 ~ 4+424.3		
42	4+500.0 ~ 4+597.1		
43	4+603.7 ~ 4+701.1		
44	4+705.8 ~ 4+797.8		
45	4+741.8 ~ 4+778.1		
		TOTAL LENGTH	2,047.2m

ROAD-1A LEFT SIDE		ROAD-1A RIGHT SIDE	
No.	STATION	No.	STATION
1	0+080.0 ~ 0+081.2	1	0+251.0 ~ 0+251.0
2	0+087.2 ~ 0+096.6	2	0+306.5 ~ 0+306.5
3	0+104.2 ~ 0+110.3	3	0+331.9 ~ 0+331.9
4	0+120.5 ~ 0+157.4	4	0+375.5 ~ 0+375.5
5	0+162.4 ~ 0+275.2	5	0+403.8 ~ 0+403.8
6	0+279.3 ~ 0+305.2	6	0+447.1 ~ 0+447.1
7	0+318.9 ~ 0+430.3	7	0+554.4 ~ 0+554.4
8	0+435.9 ~ 0+563.0	8	0+746.3 ~ 0+746.3
9	0+571.9 ~ 0+614.9	9	0+818.1 ~ 0+818.1
10	0+617.3 ~ 0+625.5	10	0+825.0 ~ 0+825.0
11	0+635.0 ~ 0+728.9		
12	0+728.9 ~ 0+815.5		
13	0+824.4 ~ 0+825.0		
		TOTAL LENGTH	579.7m

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE: ARRANGEMENT AND STRUCTURE OF SIDEWALK(S)	SCALE: 1:15	DRAWING No. M-3	REV.
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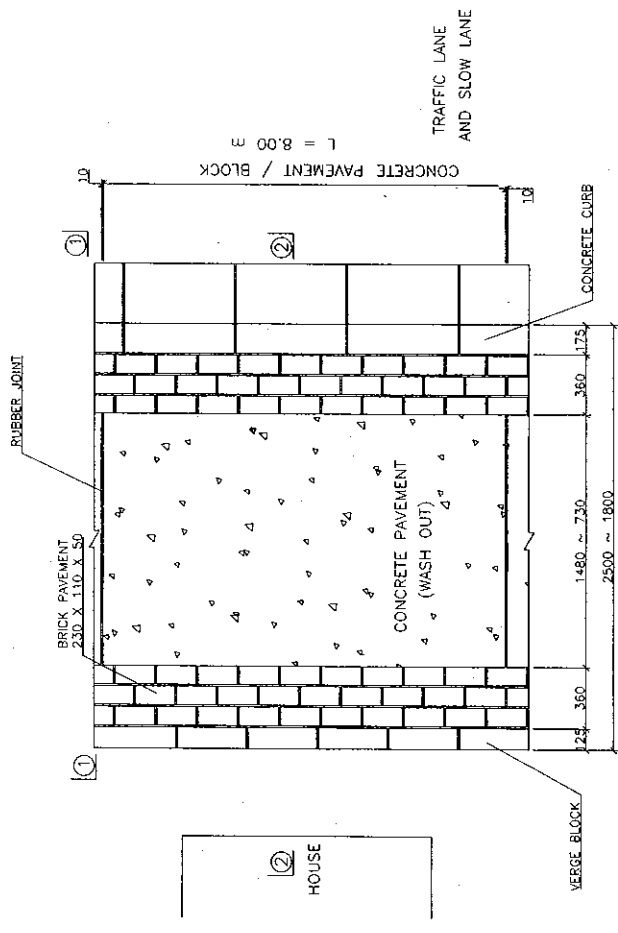
SCHEDULED LIST OF SIDEWALK PAVEMENT TYPE-B (WASHED CONCRETE)

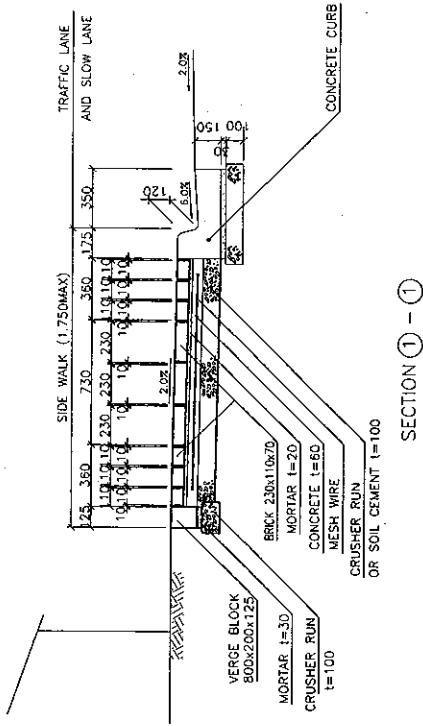
ROAD-1A RIGHT SIDE

No.	STATION	L =
1	1+169.6 ~ 1+217.1	47.5
2	1+225.3 ~ 1+274.7	49.4
3	1+283.2 ~ 1+333.4	50.2
4	1+341.2 ~ 1+390.5	49.3
5	1+397.5 ~ 1+444.9	47.4
6	1+461.1 ~ 1+483.6	22.5
7	1+499.0 ~ 1+518.2	19.2
8	1+528.2 ~ 1+575.4	47.2
9	1+581.3 ~ 1+657.1	75.8
10	1+662.6 ~ 1+671.6	9.0
11	1+675.5 ~ 1+713.1	37.6
12	2+483.0 ~ 2+643.7	160.7
13	2+768.6 ~ 2+815.5	46.9
14	2+820.3 ~ 2+922.5	102.2
15	2+926.4 ~ 2+950.2	23.8
TOTAL LENGTH		788.7m

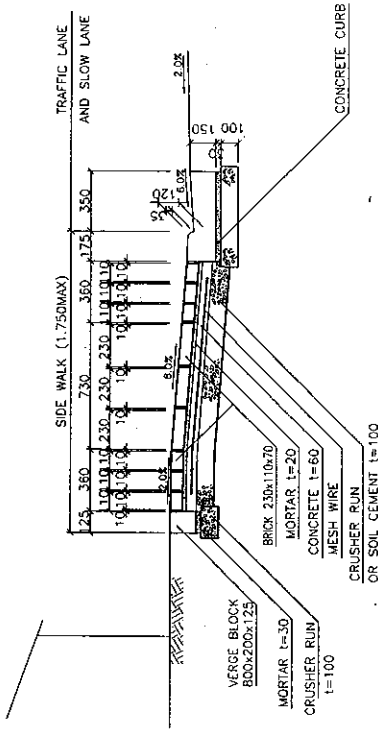
ROAD-1A LEFT SIDE

No.	STATION	L =
1	1+598.5 ~ 1+653.5	55.0
2	1+680.0 ~ 1+682.4	2.4
3	1+687.9 ~ 1+713.7	25.8
4	2+352.3 ~ 2+476.9	124.6
5	2+926.8 ~ 3+059.0	132.2
6	3+059.0 ~ 3+130.7	71.7
TOTAL LENGTH		431.7m

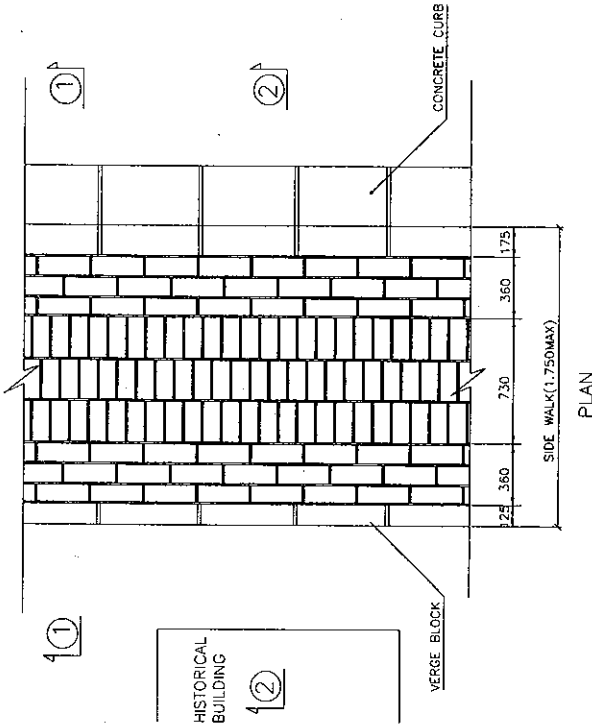




SECTION 1 - 1



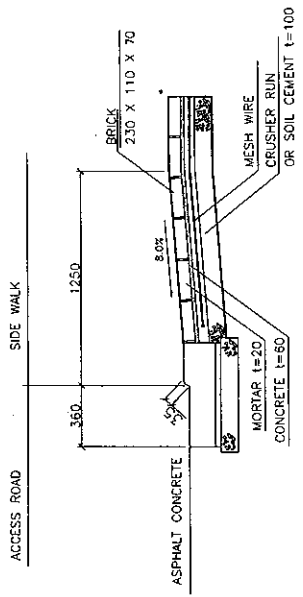
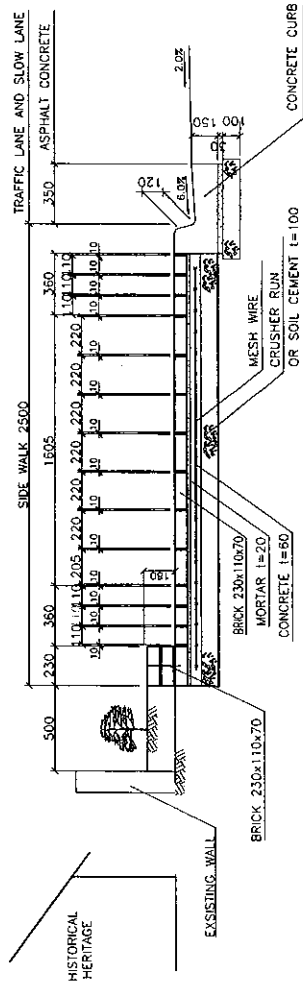
SECTION 2 - 2



PLAN

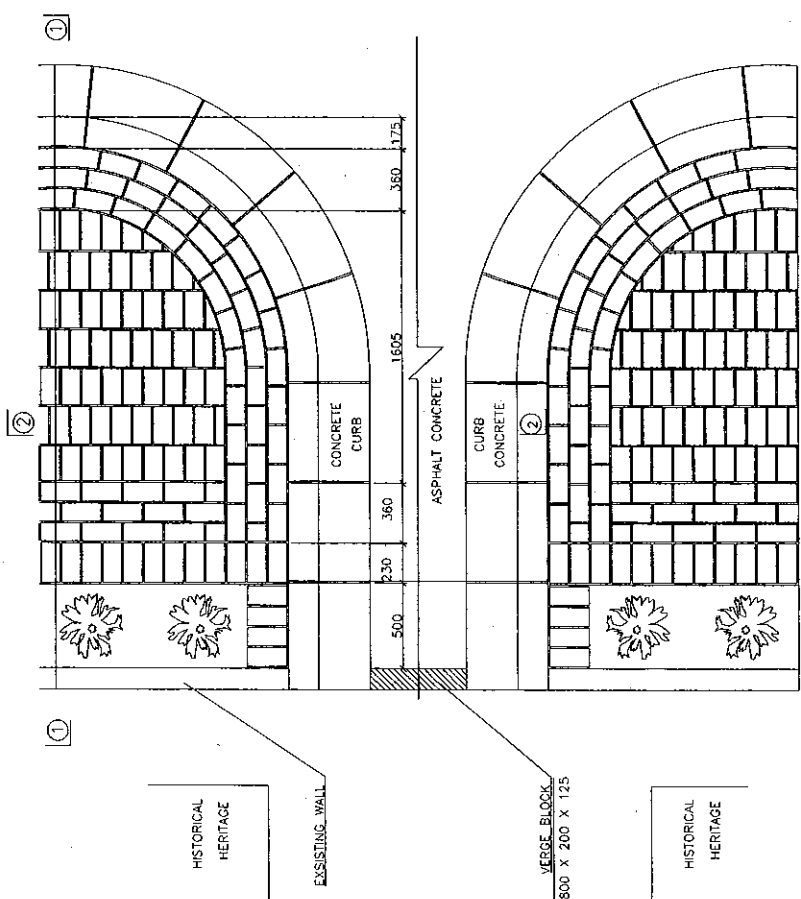
SIDE WALK TYPE-C1  
(IN FRONT OF HISTORICAL BUILDINGS)

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE:	ARRANGEMENT AND STRUCTURE OF SIDEWALK(4)	SCALE:	1:15	DRAWING No:	M-5	Rv
			SCALE:	1:15	DRAWING No:	M-5	Rv		



SECTION ①-①

SECTION ②-②



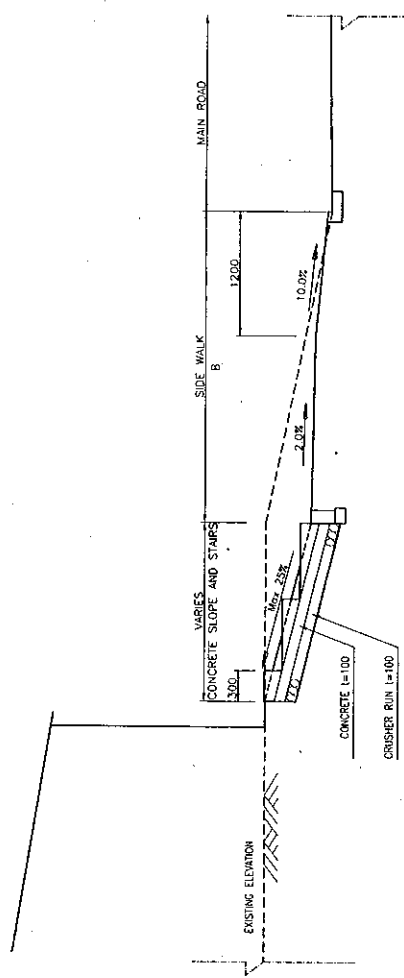
PLAN SIDE WALK TYPE-C2 (HISTORICAL HERITAGE POINT)

SCHEDULED LIST OF SIDEWALK PAVEMENT LIST TYPE-C (BRICK PAVEMENT)

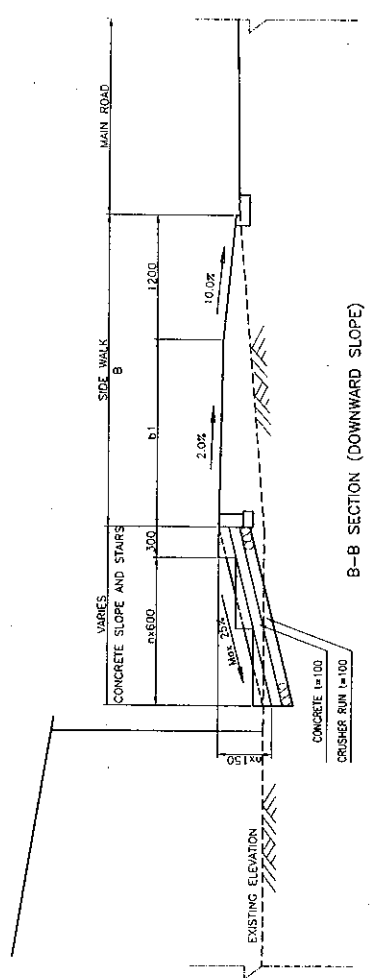
ROAD 1 LEFT SIDE		ROAD-1A LEFT SIDE		ROAD 1 RIGHT SIDE		ROAD-1A RIGHT SIDE	
No.	STATION	No.	STATION	No.	STATION	No.	STATION
1	0+463.0 ~ 0+467.0	1	1+065.0 ~ 1+100.0	1	0+123.0 ~ 0+173.2	1	0+110.0 ~ 0+160.0
2	0+467.0 ~ 0+470.0	2	1+100.0 ~ 1+110.0	2	0+173.2 ~ 0+185.5	2	0+160.0 ~ 0+170.0
3	0+470.0 ~ 0+475.0	3	1+110.0 ~ 1+120.0	3	0+185.5 ~ 0+190.0	3	0+170.0 ~ 0+180.0
4	0+475.0 ~ 0+480.0	4	1+120.0 ~ 1+130.0	4	0+190.0 ~ 0+195.0	4	0+180.0 ~ 0+190.0
5	0+480.0 ~ 0+485.0	5	1+130.0 ~ 1+140.0	5	0+195.0 ~ 0+200.0	5	0+190.0 ~ 0+200.0
6	0+485.0 ~ 0+490.0	6	1+140.0 ~ 1+150.0	6	0+200.0 ~ 0+205.0	6	0+200.0 ~ 0+210.0
7	0+490.0 ~ 0+495.0	7	1+150.0 ~ 1+160.0	7	0+205.0 ~ 0+210.0	7	0+210.0 ~ 0+220.0
8	0+495.0 ~ 0+500.0	8	1+160.0 ~ 1+170.0	8	0+210.0 ~ 0+215.0	8	0+220.0 ~ 0+230.0
9	0+500.0 ~ 0+505.0	9	1+170.0 ~ 1+180.0	9	0+215.0 ~ 0+220.0	9	0+230.0 ~ 0+240.0
10	0+505.0 ~ 0+510.0	10	1+180.0 ~ 1+190.0	10	0+220.0 ~ 0+225.0	10	0+240.0 ~ 0+250.0
11	0+510.0 ~ 0+515.0	11	1+190.0 ~ 1+200.0	11	0+225.0 ~ 0+230.0	11	0+250.0 ~ 0+260.0
12	0+515.0 ~ 0+520.0	12	1+200.0 ~ 1+210.0	12	0+230.0 ~ 0+235.0	12	0+260.0 ~ 0+270.0
13	0+520.0 ~ 0+525.0	13	1+210.0 ~ 1+220.0	13	0+235.0 ~ 0+240.0	13	0+270.0 ~ 0+280.0
14	0+525.0 ~ 0+530.0	14	1+220.0 ~ 1+230.0	14	0+240.0 ~ 0+245.0	14	0+280.0 ~ 0+290.0
15	0+530.0 ~ 0+535.0	15	1+230.0 ~ 1+240.0	15	0+245.0 ~ 0+250.0	15	0+290.0 ~ 0+300.0
16	0+535.0 ~ 0+540.0	16	1+240.0 ~ 1+250.0	16	0+250.0 ~ 0+255.0	16	0+300.0 ~ 0+310.0
17	0+540.0 ~ 0+545.0	17	1+250.0 ~ 1+260.0	17	0+255.0 ~ 0+260.0	17	0+310.0 ~ 0+320.0
18	0+545.0 ~ 0+550.0	18	1+260.0 ~ 1+270.0	18	0+260.0 ~ 0+265.0	18	0+320.0 ~ 0+330.0
19	0+550.0 ~ 0+555.0	19	1+270.0 ~ 1+280.0	19	0+265.0 ~ 0+270.0	19	0+330.0 ~ 0+340.0
20	0+555.0 ~ 0+560.0	20	1+280.0 ~ 1+290.0	20	0+270.0 ~ 0+275.0	20	0+340.0 ~ 0+350.0
21	0+560.0 ~ 0+565.0	21	1+290.0 ~ 1+300.0	21	0+275.0 ~ 0+280.0	21	0+350.0 ~ 0+360.0
22	0+565.0 ~ 0+570.0	22	1+300.0 ~ 1+310.0	22	0+280.0 ~ 0+285.0	22	0+360.0 ~ 0+370.0
23	0+570.0 ~ 0+575.0	23	1+310.0 ~ 1+320.0	23	0+285.0 ~ 0+290.0	23	0+370.0 ~ 0+380.0
24	0+575.0 ~ 0+580.0	24	1+320.0 ~ 1+330.0	24	0+290.0 ~ 0+295.0	24	0+380.0 ~ 0+390.0
25	0+580.0 ~ 0+585.0	25	1+330.0 ~ 1+340.0	25	0+295.0 ~ 0+300.0	25	0+390.0 ~ 0+400.0
26	0+585.0 ~ 0+590.0	26	1+340.0 ~ 1+350.0	26	0+300.0 ~ 0+305.0	26	0+400.0 ~ 0+410.0
27	0+590.0 ~ 0+595.0	27	1+350.0 ~ 1+360.0	27	0+305.0 ~ 0+310.0	27	0+410.0 ~ 0+420.0
28	0+595.0 ~ 0+600.0	28	1+360.0 ~ 1+370.0	28	0+310.0 ~ 0+315.0	28	0+420.0 ~ 0+430.0
29	0+600.0 ~ 0+605.0	29	1+370.0 ~ 1+380.0	29	0+315.0 ~ 0+320.0	29	0+430.0 ~ 0+440.0
30	0+605.0 ~ 0+610.0	30	1+380.0 ~ 1+390.0	30	0+320.0 ~ 0+325.0	30	0+440.0 ~ 0+450.0
31	0+610.0 ~ 0+615.0	31	1+390.0 ~ 1+400.0	31	0+325.0 ~ 0+330.0	31	0+450.0 ~ 0+460.0
32	0+615.0 ~ 0+620.0	32	1+400.0 ~ 1+410.0	32	0+330.0 ~ 0+335.0	32	0+460.0 ~ 0+470.0
33	0+620.0 ~ 0+625.0	33	1+410.0 ~ 1+420.0	33	0+335.0 ~ 0+340.0	33	0+470.0 ~ 0+480.0
34	0+625.0 ~ 0+630.0	34	1+420.0 ~ 1+430.0	34	0+340.0 ~ 0+345.0	34	0+480.0 ~ 0+490.0
35	0+630.0 ~ 0+635.0	35	1+430.0 ~ 1+440.0	35	0+345.0 ~ 0+350.0	35	0+490.0 ~ 0+500.0
36	0+635.0 ~ 0+640.0	36	1+440.0 ~ 1+450.0	36	0+350.0 ~ 0+355.0	36	0+500.0 ~ 0+510.0
37	0+640.0 ~ 0+645.0	37	1+450.0 ~ 1+460.0	37	0+355.0 ~ 0+360.0	37	0+510.0 ~ 0+520.0
38	0+645.0 ~ 0+650.0	38	1+460.0 ~ 1+470.0	38	0+360.0 ~ 0+365.0	38	0+520.0 ~ 0+530.0
39	0+650.0 ~ 0+655.0	39	1+470.0 ~ 1+480.0	39	0+365.0 ~ 0+370.0	39	0+530.0 ~ 0+540.0
40	0+655.0 ~ 0+660.0	40	1+480.0 ~ 1+490.0	40	0+370.0 ~ 0+375.0	40	0+540.0 ~ 0+550.0
41	0+660.0 ~ 0+665.0	41	1+490.0 ~ 1+500.0	41	0+375.0 ~ 0+380.0	41	0+550.0 ~ 0+560.0
42	0+665.0 ~ 0+670.0	42	1+500.0 ~ 1+510.0	42	0+380.0 ~ 0+385.0	42	0+560.0 ~ 0+570.0
43	0+670.0 ~ 0+675.0	43	1+510.0 ~ 1+520.0	43	0+385.0 ~ 0+390.0	43	0+570.0 ~ 0+580.0
44	0+675.0 ~ 0+680.0	44	1+520.0 ~ 1+530.0	44	0+390.0 ~ 0+395.0	44	0+580.0 ~ 0+590.0
45	0+680.0 ~ 0+685.0	45	1+530.0 ~ 1+540.0	45	0+395.0 ~ 0+400.0	45	0+590.0 ~ 0+600.0
46	0+685.0 ~ 0+690.0	46	1+540.0 ~ 1+550.0	46	0+400.0 ~ 0+405.0	46	0+600.0 ~ 0+610.0
TOTAL LENGTH 1701.0m		TOTAL LENGTH 1916.0m		TOTAL LENGTH 2026.0m		TOTAL LENGTH 2026.0m	

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE: ARRANGEMENT AND STRUCTURE OF SIDEWALK(S)	SCALE: 1:15	DRAWING No: M-6	REV.
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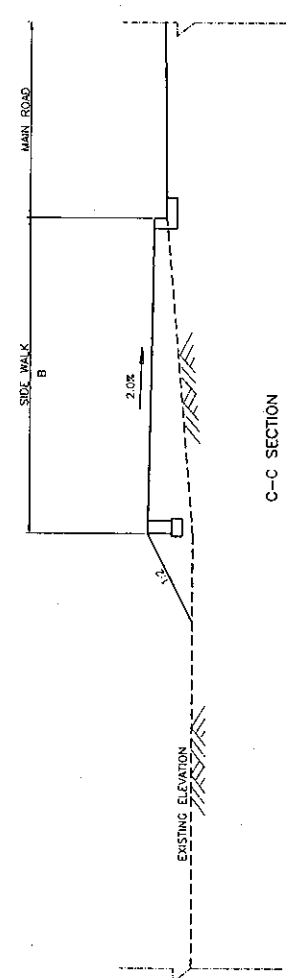




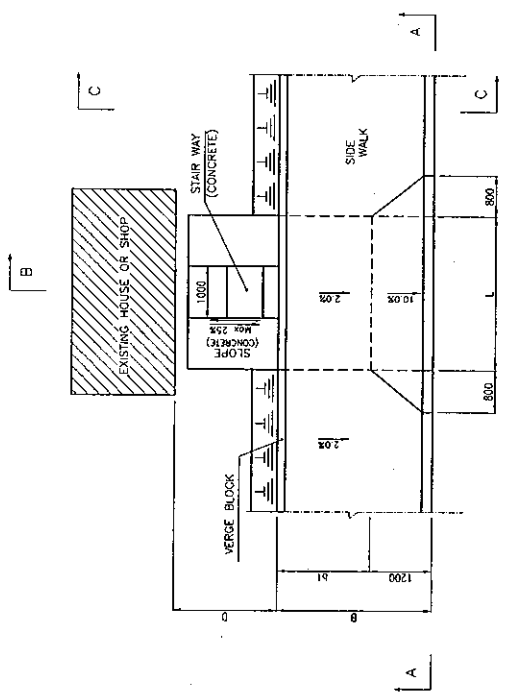
B-B SECTION (UPWARD SLOPE)



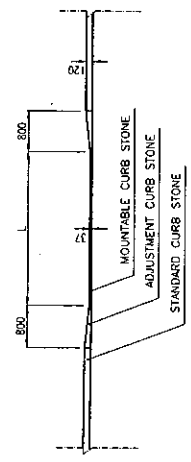
B-B SECTION (DOWNWARD SLOPE)



C-C SECTION



PLAN



A-A SECTION

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE:	DETAIL OF	SCALE:	DRAWING No:	RV:
				APPROACH TO HOUSES			

SCHEDULED LIST OF ACCESS TO HOUSES (LEFT SIDE)

Table with columns: NO, STA NO, SIDE, Total width (m), Stair Width (m), Stairs Width (m), No. of Stairs, Rise/Fall (m), Slope Length (m), Direction. Contains 80 rows of data for the left side of the houses.

Table with columns: NO, STA NO, SIDE, Total width (m), Stair Width (m), Stairs Width (m), No. of Stairs, Rise/Fall (m), Slope Length (m), Direction. Contains 80 rows of data for the right side of the houses.

Table with columns: NO, STA NO, SIDE, Total width (m), Stair Width (m), Stairs Width (m), No. of Stairs, Rise/Fall (m), Slope Length (m), Direction. Contains 80 rows of data for the entrance details.

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC | BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC | JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD | LIST OF APPROACH TO HOUSES | SCALE: | DRAWING NO: M-7-1 | Rv.









SCHEDULED LIST OF ACCESS TO HOUSES (RIGHT SIDE)

NO	STA NO	ENTRANCE DETAIL				Direction
		SIDE	Total width L(m)	Stair Width (m)	No. of Stairs	
381	14+187	R	3,000	1,000	3	Downward
382	14+194	R	5,000	1,000	3	Downward
383	14+204	R	5,000	1,000	3	Downward
384	14+213	R	5,000	1,000	3	Downward
385	14+219	R	5,000	1,000	3	Downward
386	14+247	R	5,000	1,000	3	Downward
387	14+262	R	5,000	1,000	3	Downward
388	14+269	R	5,000	1,000	3	Downward
389	14+274	R	5,000	1,000	3	Downward
390	14+287	R	5,000	1,000	3	Downward
391	14+294	R	5,000	1,000	3	Downward
392	14+304	R	5,000	1,000	3	Downward
393	14+313	R	5,000	1,000	3	Downward
394	14+320	R	5,000	1,000	3	Downward
395	14+330	R	5,000	1,000	3	Downward
396	14+340	R	5,000	1,000	3	Downward
397	14+349	R	5,000	1,000	3	Downward
398	14+356	R	5,000	1,000	3	Downward
399	14+363	R	5,000	1,000	3	Downward
400	14+370	R	5,000	1,000	3	Downward
401	14+377	R	5,000	1,000	3	Downward
402	14+384	R	5,000	1,000	3	Downward
403	14+391	R	5,000	1,000	3	Downward
404	14+398	R	5,000	1,000	3	Downward
405	14+405	R	5,000	1,000	3	Downward
406	14+412	R	5,000	1,000	3	Downward
407	14+419	R	5,000	1,000	3	Downward
408	14+426	R	5,000	1,000	3	Downward
409	14+433	R	5,000	1,000	3	Downward
410	14+440	R	5,000	1,000	3	Downward
411	14+447	R	5,000	1,000	3	Downward
412	14+454	R	5,000	1,000	3	Downward
413	14+461	R	5,000	1,000	3	Downward
414	14+468	R	5,000	1,000	3	Downward
415	14+475	R	5,000	1,000	3	Downward
416	14+482	R	5,000	1,000	3	Downward
417	14+489	R	5,000	1,000	3	Downward
418	14+496	R	5,000	1,000	3	Downward
419	14+503	R	5,000	1,000	3	Downward
420	14+510	R	5,000	1,000	3	Downward

NO	STA NO	ENTRANCE DETAIL				Direction
		SIDE	Total width L(m)	Stair Width (m)	No. of Stairs	
421	16+908	R	5,000	1,000	2	Upward
422	16+914	R	5,000	1,000	2	Upward
423	16+922	R	5,000	1,000	2	Upward
424	16+929	R	5,000	1,000	2	Upward
425	16+936	R	5,000	1,000	2	Upward
426	16+943	R	5,000	1,000	2	Upward
427	16+950	R	5,000	1,000	2	Upward
428	16+957	R	5,000	1,000	2	Upward
429	16+964	R	5,000	1,000	2	Upward
430	16+971	R	5,000	1,000	2	Upward
431	16+978	R	5,000	1,000	2	Upward
432	16+985	R	5,000	1,000	2	Upward
433	16+992	R	5,000	1,000	2	Upward
434	16+999	R	5,000	1,000	2	Upward
435	17+006	R	5,000	1,000	2	Upward
436	17+013	R	5,000	1,000	2	Upward
437	17+020	R	5,000	1,000	2	Upward
438	17+027	R	5,000	1,000	2	Upward
439	17+034	R	5,000	1,000	2	Upward
440	17+041	R	5,000	1,000	2	Upward
441	17+048	R	5,000	1,000	2	Upward
442	17+055	R	5,000	1,000	2	Upward
443	17+062	R	5,000	1,000	2	Upward
444	17+069	R	5,000	1,000	2	Upward
445	17+076	R	5,000	1,000	2	Upward
446	17+083	R	5,000	1,000	2	Upward
447	17+090	R	5,000	1,000	2	Upward
448	17+097	R	5,000	1,000	2	Upward
449	17+104	R	5,000	1,000	2	Upward
450	17+111	R	5,000	1,000	2	Upward
451	17+118	R	5,000	1,000	2	Upward
452	17+125	R	5,000	1,000	2	Upward
453	17+132	R	5,000	1,000	2	Upward
454	17+139	R	5,000	1,000	2	Upward
455	17+146	R	5,000	1,000	2	Upward
456	17+153	R	5,000	1,000	2	Upward
457	17+160	R	5,000	1,000	2	Upward
458	17+167	R	5,000	1,000	2	Upward
459	17+174	R	5,000	1,000	2	Upward
460	17+181	R	5,000	1,000	2	Upward
461	17+188	R	5,000	1,000	2	Upward
462	17+195	R	5,000	1,000	2	Upward
463	17+202	R	5,000	1,000	2	Upward
464	17+209	R	5,000	1,000	2	Upward
465	17+216	R	5,000	1,000	2	Upward
466	17+223	R	5,000	1,000	2	Upward
467	17+230	R	5,000	1,000	2	Upward
468	17+237	R	5,000	1,000	2	Upward
469	17+244	R	5,000	1,000	2	Upward
470	17+251	R	5,000	1,000	2	Upward
471	17+258	R	5,000	1,000	2	Upward
472	17+265	R	5,000	1,000	2	Upward
473	17+272	R	5,000	1,000	2	Upward
474	17+279	R	5,000	1,000	2	Upward
475	17+286	R	5,000	1,000	2	Upward
476	17+293	R	5,000	1,000	2	Upward
477	17+300	R	5,000	1,000	2	Upward
478	17+307	R	5,000	1,000	2	Upward
479	17+314	R	5,000	1,000	2	Upward
480	17+321	R	5,000	1,000	2	Upward

NO	STA NO	ENTRANCE DETAIL				Direction
		SIDE	Total width L(m)	Stair Width (m)	No. of Stairs	
481	18+413	R	5,000	1,000	2	Downward
482	18+456	R	5,000	1,000	2	Downward
483	18+470	R	5,000	1,000	2	Downward
484	18+480	R	5,000	1,000	2	Downward
485	18+492	R	5,000	1,000	2	Downward
486	18+502	R	5,000	1,000	2	Downward
487	18+525	R	5,000	1,000	2	Downward
488	18+535	R	5,000	1,000	2	Downward
489	18+540	R	5,000	1,000	2	Downward

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION  
TRANSPORT, POST AND CONSTRUCTION  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

BASIC DESIGN STUDY ON THE PROJECT FOR THE  
IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

TITLE: DETAIL OF  
APPROACH TO HOUSES

SCALE:

DRAWING No.  
M-7-6

Rv

SCHEDULED LIST OF ACCESS TO HOUSES (ROAD 1-A LEFT SIDE)

NO	STA NO	SIDE	ENTRANCE DETAIL				No. of Steps	Slope Length (m)	Direction
			Total width (Lm)	Stair Width (m)	Slope Width One Side	No. of Steps per-Run			
104695	L	L	5.000	1.000	2.000	2	1.2	Downward	
204707	L	L	5.000	1.000	2.000	3	1.8	Downward	
304716	L	L	5.000	1.000	2.000	3	1.8	Downward	
404722	L	L	4.000	1.000	1.500	3	1.8	Downward	
504749	L	L	5.000	1.000	2.000	3	1.8	Downward	
604786	L	L	5.000	1.000	2.000	2	1.2	Downward	
704838	L	L	5.000	1.000	2.000	3	1.8	Downward	
804856	L	L	5.000	1.000	2.000	3	1.8	Downward	
904880	L	L	5.000	1.000	2.000	3	1.8	Downward	
1014090	L	L	5.000	1.000	2.000	3	1.8	Downward	
11114099	L	L	3.000	1.000	1.000	3	1.8	Downward	
12111449	L	L	5.000	1.000	2.000	2	1.2	Downward	
13111474	L	L	5.000	1.000	2.000	3	1.8	Downward	
14111174	L	L	4.000	1.000	1.500	2	1.2	Downward	
15111190	L	L	5.000	1.000	2.000	3	1.8	Downward	
1611201	L	L	5.000	1.000	2.000	3	1.8	Downward	
1711230	L	L	4.000	1.000	1.500	3	1.8	Downward	
1811246	L	L	5.000	1.000	2.000	3	1.8	Downward	
1911258	L	L	3.000	1.000	1.000	2	1.2	Downward	
2011267	L	L	5.000	1.000	2.000	2	1.2	Downward	
2111291	L	L	5.000	1.000	2.000	2	1.2	Downward	
2211304	L	L	5.000	1.000	2.000	3	1.8	Downward	
2311315	L	L	5.000	1.000	2.000	3	1.8	Downward	
2411369	L	L	5.000	1.000	2.000	2	1.2	Downward	
25114383	L	L	5.000	1.000	2.000	2	1.2	Downward	
26114731	L	L	4.000	1.000	1.500	2	1.2	Downward	
27114736	L	L	3.000	1.000	1.000	2	1.2	Downward	
28114742	L	L	5.000	1.000	2.000	2	1.2	Downward	
29114749	L	L	3.000	1.000	1.000	2	1.2	Downward	
30114774	L	L	5.000	1.000	2.000	2	1.2	Downward	
31114790	L	L	5.000	1.000	2.000	2	1.2	Downward	
32114798	L	L	3.000	1.000	1.000	2	1.2	Upward	
33114803	L	L	3.000	1.000	1.000	2	1.2	Downward	
34114808	L	L	3.000	1.000	1.000	2	1.2	Downward	
35114845	L	L	5.000	1.000	2.000	2	1.2	Downward	
36114850	L	L	5.000	1.000	2.000	2	1.2	Downward	
37114855	L	L	5.000	1.000	2.000	2	1.2	Downward	
38114861	L	L	3.000	1.000	1.000	2	1.2	Downward	
39114868	L	L	5.000	1.000	2.000	2	1.2	Downward	
40114887	L	L	5.000	1.000	2.000	2	1.2	Downward	
4114906	L	L	5.000	1.000	2.000	6	3.6	Upward	
4214918	L	L	5.000	1.000	2.000	2	1.2	Downward	
4314929	L	L	4.000	1.000	1.500	2	1.2	Upward	
4414960	L	L	5.000	1.000	2.000	3	1.8	Downward	
4514968	L	L	5.000	1.000	2.000	5	3	Downward	
4614977	L	L	5.000	1.000	2.000	3	1.8	Downward	
4714984	L	L	3.000	1.000	1.000	3	1.8	Upward	
4814994	L	L	5.000	1.000	2.000	4	2.4	Downward	
4914903	L	L	3.000	1.000	1.000	4	2.4	Downward	
5014968	L	L	3.000	1.000	1.000	4	2.4	Downward	
5114960	L	L	5.000	1.000	2.000	3	1.8	Downward	
5214967	L	L	3.000	1.000	1.000	2	1.2	Downward	
5314970	L	L	5.000	1.000	2.000	2	1.2	Downward	
5414978	L	L	3.000	1.000	1.000	2	1.2	Downward	
5514976	L	L	5.000	1.000	2.000	2	1.2	Downward	
5614976	L	L	5.000	1.000	2.000	3	1.8	Downward	
5714972	L	L	4.000	1.000	1.500	3	1.8	Downward	
5814973	L	L	5.000	1.000	2.000	3	1.8	Downward	

SCHEDULED LIST OF ACCESS TO HOUSES (ROAD 1-A RIGHT SIDE)

NO	STA NO	SIDE	ENTRANCE DETAIL				No. of Steps	Slope Length (m)	Direction
			Total width (Lm)	Stair Width (m)	Slope Width One Side	No. of Steps per-Run			
5914743	L	L	4.000	1.000	1.500	4	2.4	Downward	
6014764	L	L	5.000	1.000	2.000	4	2.4	Downward	
6114777	L	L	5.000	1.000	2.000	2	1.2	Downward	
6214788	L	L	5.000	1.000	2.000	2	1.2	Downward	
6314796	L	L	5.000	1.000	2.000	3	1.8	Downward	
6414807	L	L	5.000	1.000	2.000	4	2.4	Downward	
6514828	L	L	3.000	1.000	1.000	5	3	Downward	
6614844	L	L	4.000	1.000	1.500	3	1.8	Downward	
6714878	L	L	5.000	1.000	2.000	3	1.8	Downward	
6814891	L	L	5.000	1.000	2.000	3	1.8	Downward	
6914900	L	L	5.000	1.000	2.000	3	1.8	Downward	
7014942	L	L	5.000	1.000	2.000	3	1.8	Downward	
7114951	L	L	3.000	1.000	1.000	4	2.4	Downward	
7214964	L	L	5.000	1.000	2.000	2	1.2	Downward	
7314976	L	L	5.000	1.000	2.000	4	2.4	Downward	
7414939	L	L	5.000	1.000	2.000	3	1.8	Downward	
7514972	L	L	3.000	1.000	1.000	3	1.8	Downward	
7614988	L	L	5.000	1.000	2.000	3	1.8	Downward	
7714973	L	L	4.000	1.000	1.500	2	1.2	Downward	
7814945	L	L	5.000	1.000	2.000	5	3	Downward	
7914956	L	L	3.000	1.000	1.000	5	3	Downward	
8014959	L	L	3.000	1.000	1.000	4	2.4	Downward	
8114964	L	L	3.000	1.000	1.000	3	1.8	Downward	
8214974	L	L	3.000	1.000	1.000	2	1.2	Downward	
8314980	L	L	3.000	1.000	1.000	2	1.2	Downward	
8414990	L	L	3.000	1.000	1.000	2	1.2	Downward	
8514998	L	L	5.000	1.000	2.000	2	1.2	Downward	

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION  
TRANSPORT, POST AND CONSTRUCTION  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

BASIC DESIGN STUDY ON THE PROJECT FOR THE  
IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE  
LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO, LTD

TITLE  
DETAIL OF  
APPROACH TO HOUSES

SCALE  
DRAWING NO:  
M-7-7  
RV

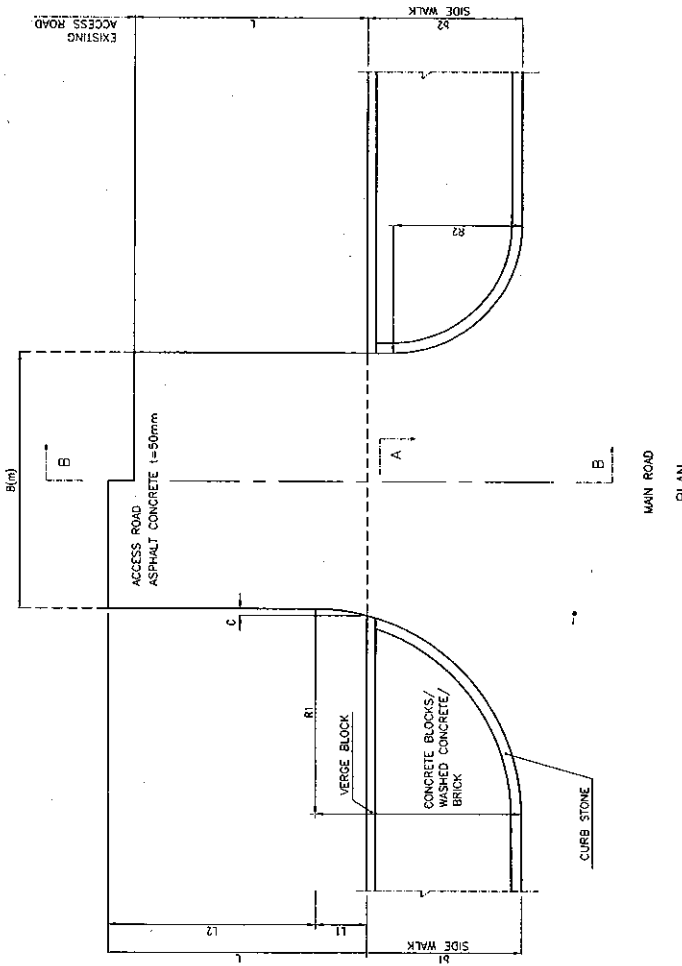


SCHEDULED LIST OF MAJOR INTERSECTION (ROAD 1-A)

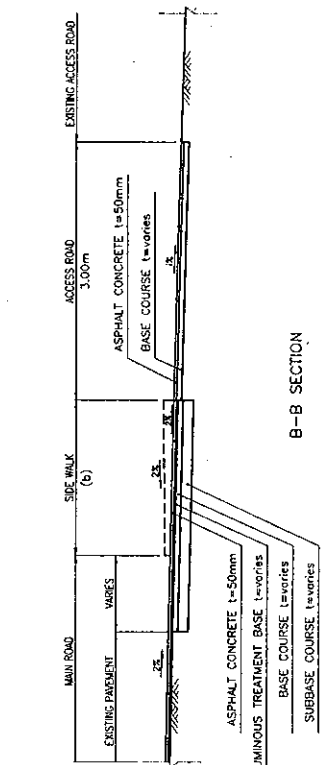
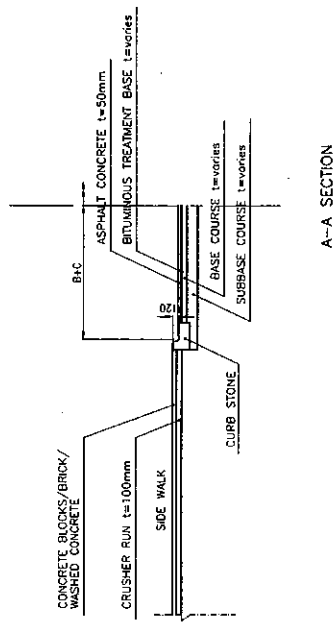
No	STATION	LEFT SIDE			RIGHT SIDE		
		WIDTH (m)	LENGTH (m)	RADIUS (m)	WIDTH (m)	LENGTH (m)	RADIUS (m)
1	0+111	5.0	5.0	5.0	5.0	5.0	5.0
2	0+145	5.0	5.0	5.0	5.0	5.0	5.0
3	0+180	5.0	5.0	5.0	5.0	5.0	5.0
4	0+215	5.0	5.0	5.0	5.0	5.0	5.0
5	0+250	5.0	5.0	5.0	5.0	5.0	5.0
6	0+285	5.0	5.0	5.0	5.0	5.0	5.0
7	0+320	5.0	5.0	5.0	5.0	5.0	5.0
8	0+355	5.0	5.0	5.0	5.0	5.0	5.0
9	0+390	5.0	5.0	5.0	5.0	5.0	5.0
10	0+425	5.0	5.0	5.0	5.0	5.0	5.0
11	0+460	5.0	5.0	5.0	5.0	5.0	5.0
12	0+495	5.0	5.0	5.0	5.0	5.0	5.0
13	0+530	5.0	5.0	5.0	5.0	5.0	5.0
14	0+565	5.0	5.0	5.0	5.0	5.0	5.0
15	0+600	5.0	5.0	5.0	5.0	5.0	5.0
16	0+635	5.0	5.0	5.0	5.0	5.0	5.0
17	0+670	5.0	5.0	5.0	5.0	5.0	5.0
18	0+705	5.0	5.0	5.0	5.0	5.0	5.0
19	0+740	5.0	5.0	5.0	5.0	5.0	5.0
20	0+775	5.0	5.0	5.0	5.0	5.0	5.0

SCHEDULED LIST OF MAJOR INTERSECTION (ROAD 1)

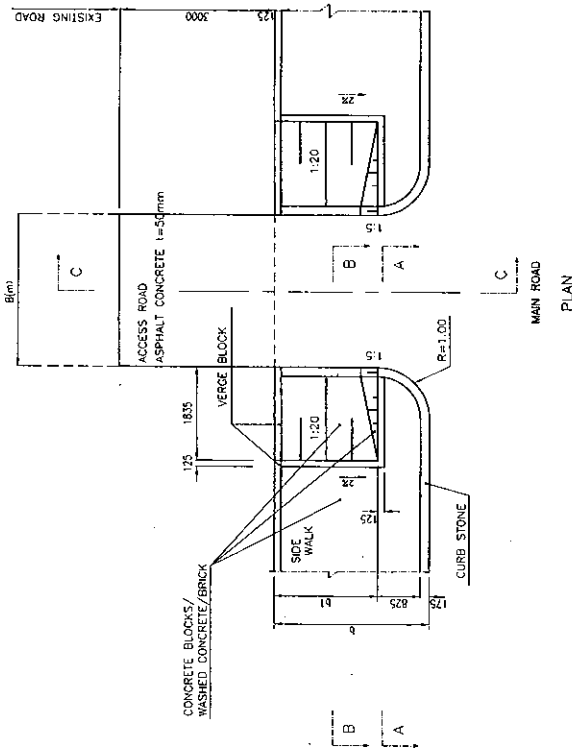
No	STATION	LEFT SIDE			RIGHT SIDE		
		WIDTH (m)	LENGTH (m)	RADIUS (m)	WIDTH (m)	LENGTH (m)	RADIUS (m)
1	1+200	5.0	5.0	5.0	5.0	5.0	5.0
2	1+235	5.0	5.0	5.0	5.0	5.0	5.0
3	1+270	5.0	5.0	5.0	5.0	5.0	5.0
4	1+305	5.0	5.0	5.0	5.0	5.0	5.0
5	1+340	5.0	5.0	5.0	5.0	5.0	5.0
6	1+375	5.0	5.0	5.0	5.0	5.0	5.0
7	1+410	5.0	5.0	5.0	5.0	5.0	5.0
8	1+445	5.0	5.0	5.0	5.0	5.0	5.0
9	1+480	5.0	5.0	5.0	5.0	5.0	5.0
10	1+515	5.0	5.0	5.0	5.0	5.0	5.0
11	1+550	5.0	5.0	5.0	5.0	5.0	5.0
12	1+585	5.0	5.0	5.0	5.0	5.0	5.0
13	1+620	5.0	5.0	5.0	5.0	5.0	5.0
14	1+655	5.0	5.0	5.0	5.0	5.0	5.0
15	1+690	5.0	5.0	5.0	5.0	5.0	5.0
16	1+725	5.0	5.0	5.0	5.0	5.0	5.0
17	1+760	5.0	5.0	5.0	5.0	5.0	5.0
18	1+795	5.0	5.0	5.0	5.0	5.0	5.0
19	1+830	5.0	5.0	5.0	5.0	5.0	5.0
20	1+865	5.0	5.0	5.0	5.0	5.0	5.0



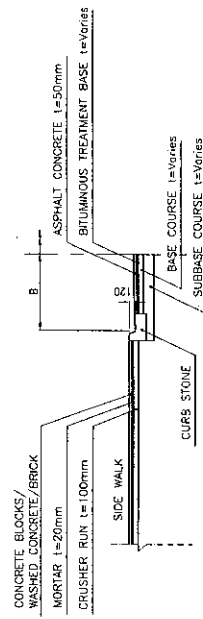
NOTE: \* marks represent flat sidewalk section where one meter long curb stone shall be applied at one meter interval.



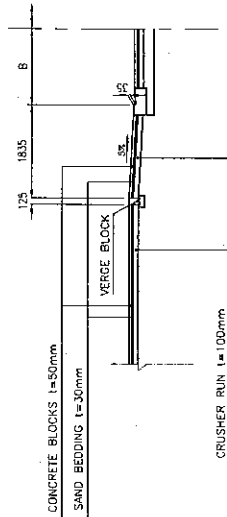
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	TITLE: JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	DRAWING No: M-8 SCALE: 1:50
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NOTE: Provision of slope is not necessary along flat sidewalks.



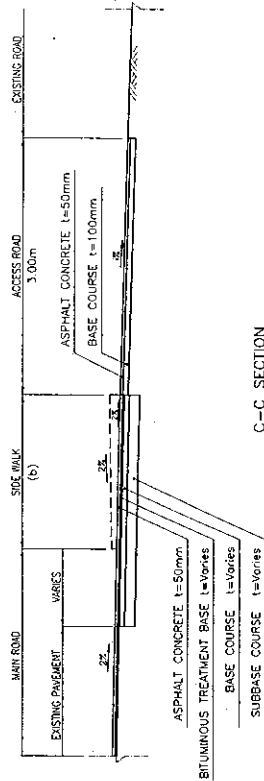
A-A SECTION



B-B SECTION

LIST OF MINOR INTERSECTION ON ROAD 1A

No	LEFT SIDE			RIGHT SIDE										
	CHAINAGE	WIDTH (B)	LENGTH (L)	No	CHAINAGE	WIDTH (B)	LENGTH (L)	NO	CHAINAGE	WIDTH (B)	LENGTH (L)	NO	CHAINAGE	WIDTH (B)
1	0+017	3.00	3.00	3.00	3.00	1.875	1	0+260	3.00	3.00	3.00	3.00	1.875	
2	0+084	6.00	3.00	3.00	3.00	1.875	2	0+303	5.00	3.00	3.00	3.00	1.875	
3	0+099	7.50	3.00	3.00	3.00	1.875	3	0+377	4.00	3.00	3.00	3.00	1.875	
4	0+167	5.00	3.00	3.00	3.00	1.875	4	0+415	3.00	3.00	3.00	3.00	1.875	
5	0+276	5.00	3.00	3.00	3.00	1.875	5	0+747	5.00	3.00	3.00	3.00	1.875	
6	0+404	5.50	3.00	3.00	3.00	1.875	6	0+814	4.00	3.00	3.00	3.00	1.875	
7	0+555	6.00	3.00	3.00	3.00	1.875	7	1+483	16.00	3.00	3.00	3.00	1.875	
8	0+617	4.00	3.00	3.00	3.00	1.875	8	1+588	4.00	3.00	3.00	3.00	1.875	
9	0+729	3.00	3.00	3.00	3.00	1.875	9	1+659	5.00	3.00	3.00	3.00	1.875	
10	0+893	4.00	3.00	3.00	3.00	1.875	10	1+673	4.00	3.00	3.00	3.00	1.875	
11	0+975	7.00	3.00	3.00	3.00	1.875	11	1+797	3.00	3.00	3.00	3.00	1.875	
12	0+988	3.50	3.00	3.00	3.00	1.875	12	1+920	5.00	3.00	3.00	3.00	1.875	
13	1+502	5.00	3.00	3.00	3.00	1.875	13	1+932	5.00	3.00	3.00	3.00	1.875	
14	1+535	5.00	3.00	3.00	3.00	1.875	14	1+962	4.00	3.00	3.00	3.00	1.875	
15	1+663	6.50	3.00	3.00	3.00	1.875	15	2+013	4.00	3.00	3.00	3.00	1.875	
16	1+681	5.50	3.00	3.00	3.00	1.875	16	2+031	4.00	3.00	3.00	3.00	1.875	
17	1+873	4.00	3.00	3.00	3.00	1.875	17	2+176	8.00	3.00	3.00	3.00	1.875	
18	1+950	4.00	3.00	3.00	3.00	1.875	18	2+233	7.00	3.00	3.00	3.00	1.875	
19	1+965	5.00	3.00	3.00	3.00	1.875	19	2+277	4.00	3.00	3.00	3.00	1.875	
20	2+118	5.00	3.00	3.00	3.00	1.875	20	2+521	3.00	3.00	3.00	3.00	1.875	
21	2+163	4.00	3.00	3.00	3.00	1.875	21	2+735	3.50	3.00	3.00	3.00	1.875	
22	2+222	4.00	3.00	3.00	3.00	1.875	22	2+765	3.00	3.00	3.00	3.00	1.875	
23	2+254	4.50	3.00	3.00	3.00	1.875	23	2+813	5.00	3.00	3.00	3.00	1.875	
24	2+550	3.50	3.00	3.00	3.00	1.875	24	2+924	3.00	3.00	3.00	3.00	1.875	
25	2+789	3.00	3.00	3.00	3.00	1.875	25	2+951	3.00	3.00	3.00	3.00	1.875	



C-C SECTION

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION  
 TRANSPORT, POST AND CONSTRUCTION  
 LAO PEOPLE'S DEMOCRATIC REPUBLIC

BASIC DESIGN STUDY ON THE PROJECT FOR THE  
 IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE  
 LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY  
 KATAHIRA & ENGINEERS INTERNATIONAL  
 CTI ENGINEERING INTERNATIONAL CO. LTD

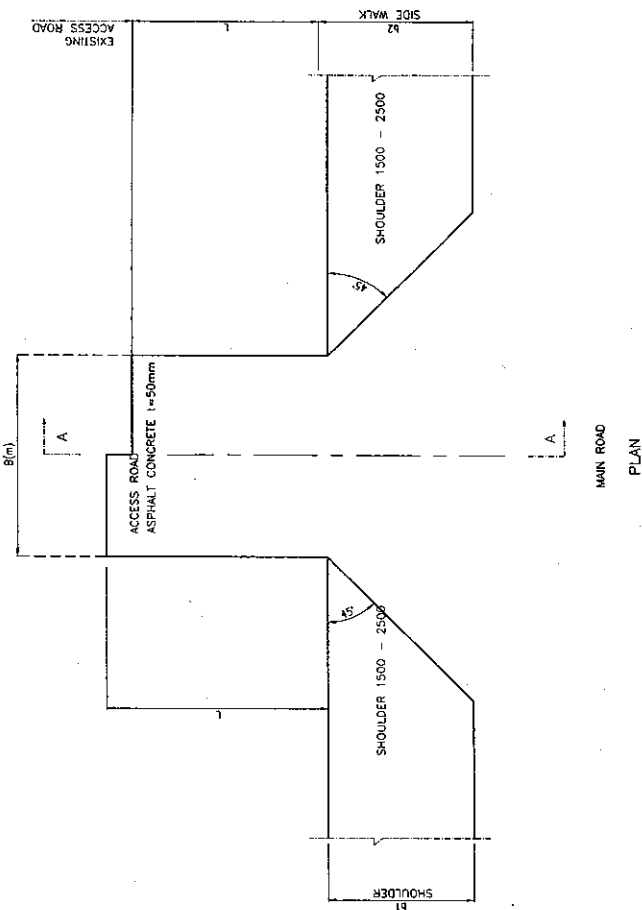
TITLE: DETAIL OF ACCESS ROADS (1)

SCALE: 1:50

DRAWING No: M-9

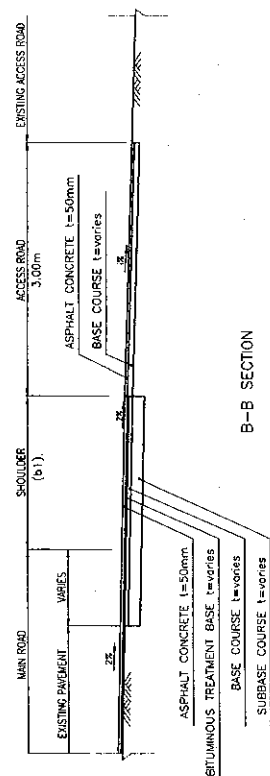
Rv.



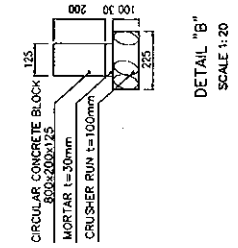
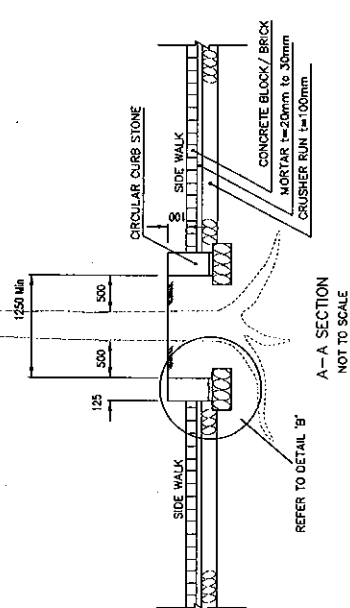
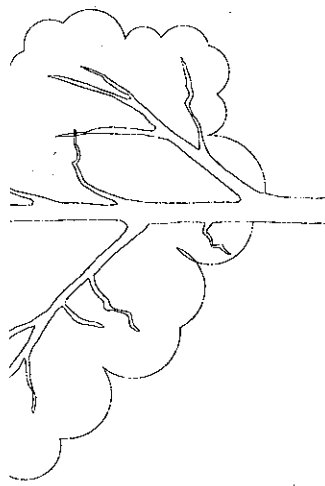


SCHEDULED LIST OF MINOR INTERSECTION BEYOND BEER LAO

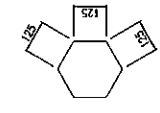
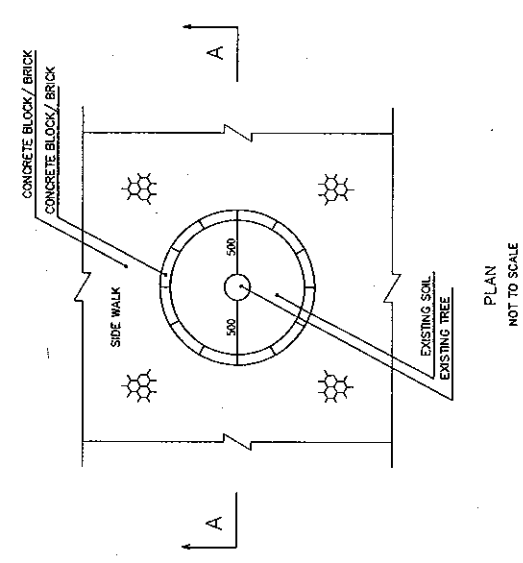
LEFT SIDE				RIGHT SIDE					
No	CHAINAGE ( B )	WIDTH ( B )	LENGTH ( L )	SHOULDER	No	CHAINAGE ( B )	WIDTH ( B )	LENGTH ( L )	SHOULDER
1	19+138	4.5	3	1.5	1	19+202	5	3	2.5
2	19+202	4	3	2.5	2	19+338	7.3	3	2.5
3	19+345	5	3	2.5	3	19+412	4	3	2.5
4	19+385	3	3	2.5	4	19+572	4	3	2.5
5	19+400	3	3	2.5	5	19+755	8	3	1.5
6	19+417	3	3	2.5	6	19+950	3	3	1.5
7	19+660	10	5	1.5	7	20+050	3	3	2.5
8	20+130	3	3	2.5	8	20+350	5	3	2.5
9	20+275	5	3	2.5	9	20+450	8	3	2.5
10	20+430	6	3	2.5	10	20+545	5	3	2.5
11	21+125	4	3	1.5	11	20+780	5	3	2.5
12	21+470	6	3	1.5	12	20+950	5	3	2.5
13	21+525	8.5	5	1.5	13	20+878	3	3	2.5
14	21+900	4	3	2.5	14	21+145	22.5	5	1.5
15	21+955	4	3	2.5	15	21+190	10	5	1.5
16	22+085	4.5	3	2.5	16	21+425	10	5	1.5
17	22+585	9	5	1.5	17	21+815	10	3	1.5
18	23+016	4.5	3	1.5	18	21+865	4	3	2.5
19	23+860	8	5	2.5	19	21+920	10	5	2.5
20	23+950	10	5	2.5	20	21+950	10	5	2.5
21	23+935	7.5	3	2.5	21	22+035	3	3	2.5
22	24+010	5	3	2.5	22	22+166	5	3	2.5
23	24+070	3	3	2.5	23	22+390	7.5	3	1.5
24	24+176	4.5	3	2.5	24	22+425	9.5	6	1.5
25	24+252	6	3	2.5	25	22+950	5	3	1.5
26	24+350.0	7	5	1.5	26	22+900	7.5	3	1.5
27	24+370.0	12	5	1.5	27	22+970	15	5	1.5
28	24+355.0	10	5	1.5	28	23+860	6	5	1.5
29	24+820.0	15	3	1.5	29	23+740	18	5	1.5
30	24+850.0	17.3	3	1.5	30	23+280	25	5	1.5
31	25+140.0	18	3	1.5	31	23+445	4	3	1.5
32	25+213.0	14	4	1.5	32	23+525	5	3	2.5
33	25+645.0	6	6	3	33	23+605	6	6	2.5
					34	23+730	7	3	2.5
					35	23+822	6.5	3	2.5
					36	23+895	5	3	2.5
					37	23+925	3	3	2.5
					38	23+970	8	3	2.5
					39	23+970	8	3	2.5
					40	24+062	6	3	2.5
					41	24+222	4.5	3	2.5
					42	24+265	4.5	3	2.5
					43	24+290	4.5	3	2.5
					44	24+470	10	5	1.5
					45	24+510	12	5	1.5
					46	24+510	12	5	1.5
					47	24+530	9	1	1.5
					48	24+730	10	3	1.5
					49	24+860	25	3	1.5
					50	24+890	25	3	1.5
					51	25+215	7.5	3	1.5
					52	25+255	10	3	1.5
					53	25+265	9	3	1.5
					54	25+335	10	4	1.5
					55	25+370	15	4	1.5
					56	25+630	5	3	1.5



ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	TITLE:	SCALE:	DRAWING No:
			DETAIL OF ACCESS ROADS (3)	1:50	M-9-2



Average Circumference Of Tree Trunk	No. of trees
1.65m	450



ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	TITLE:	DETAIL OF PLANT PROTECTION	SCALE:	1:50	DRAWING No:	M-10	REV