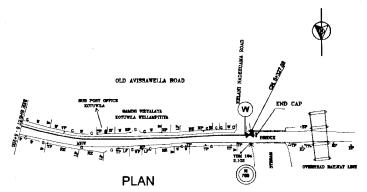
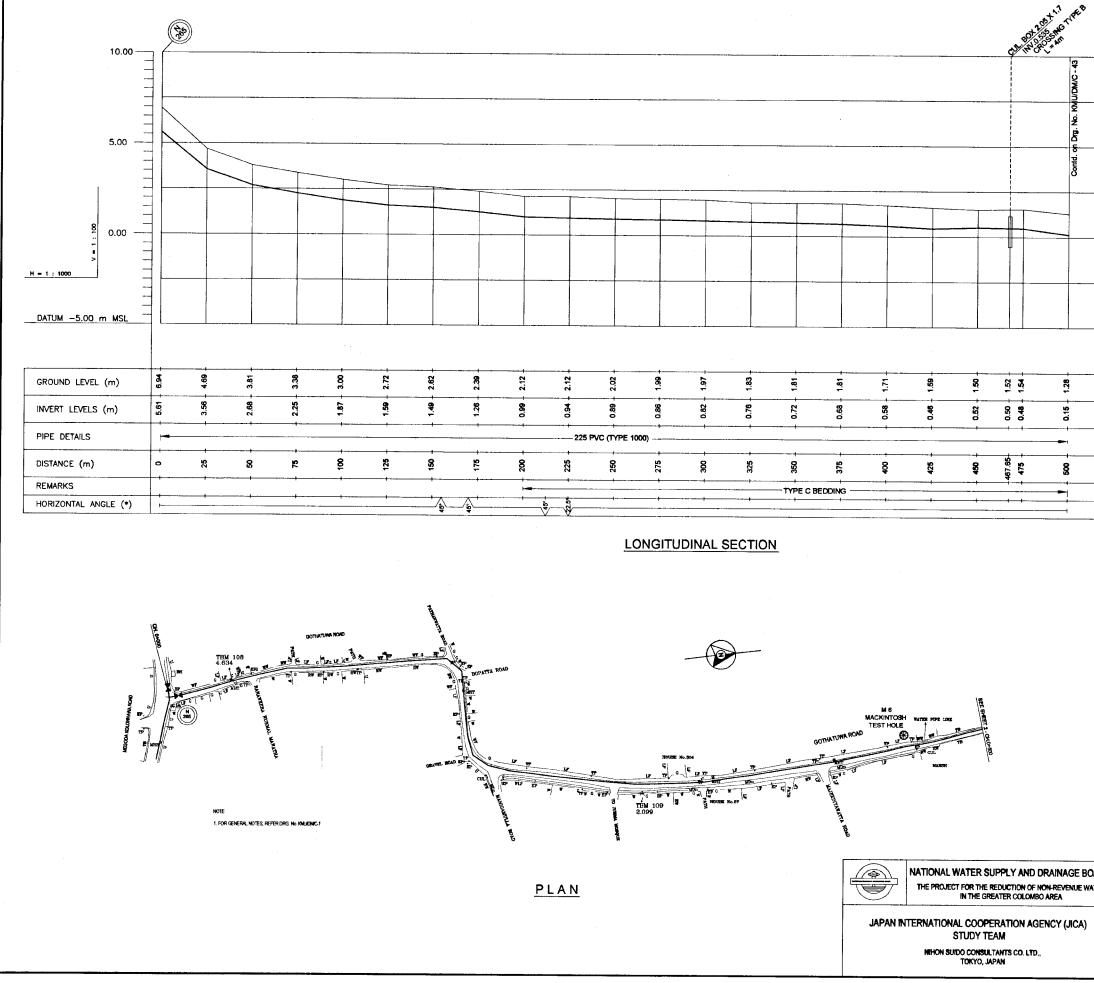
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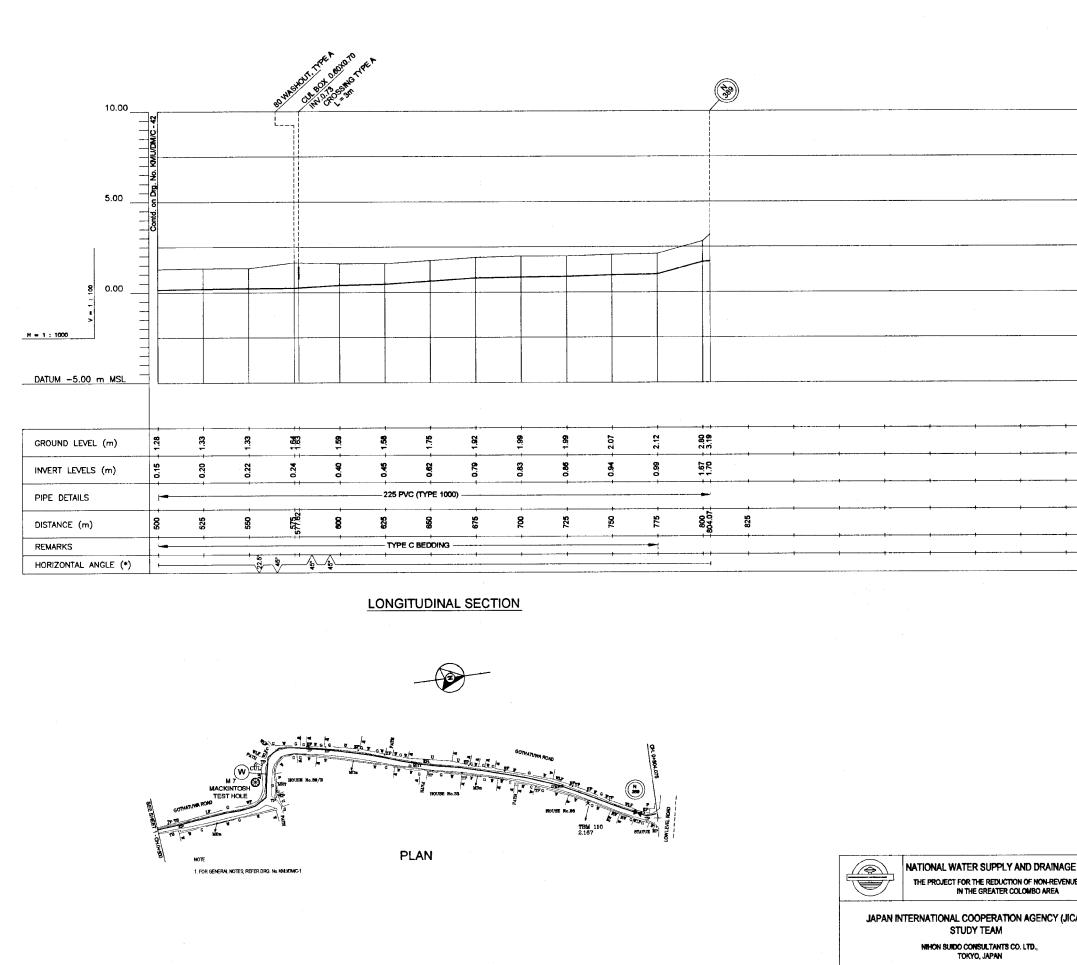




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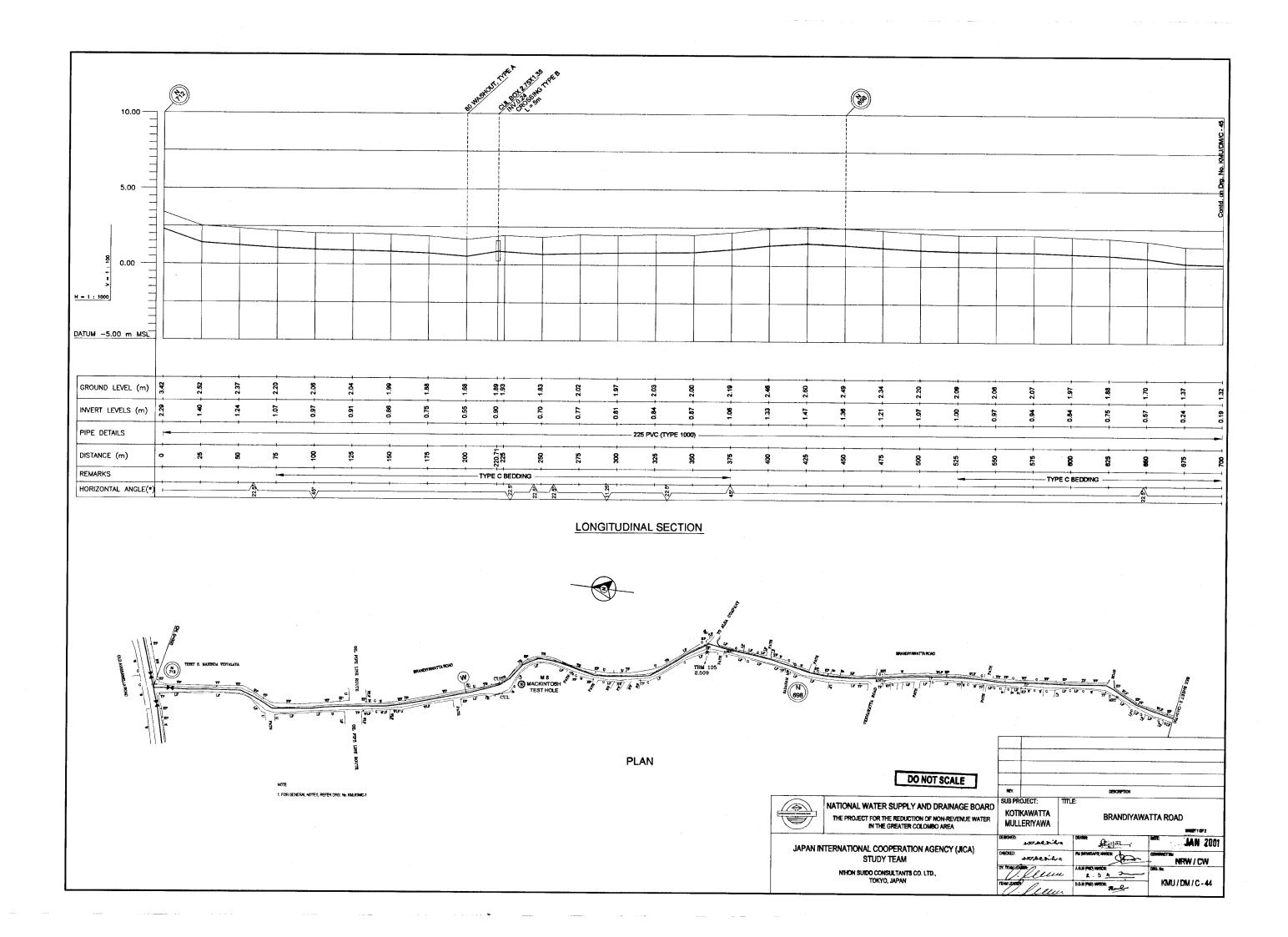


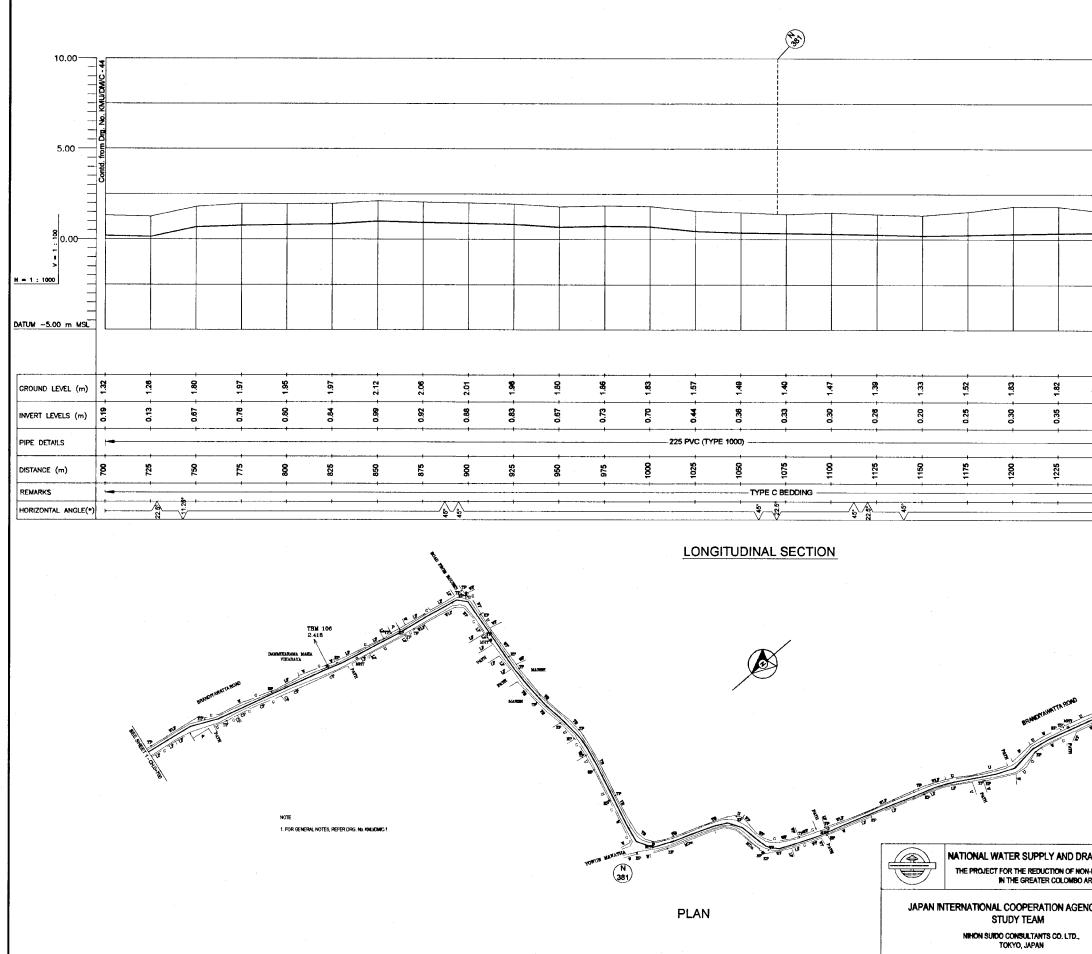
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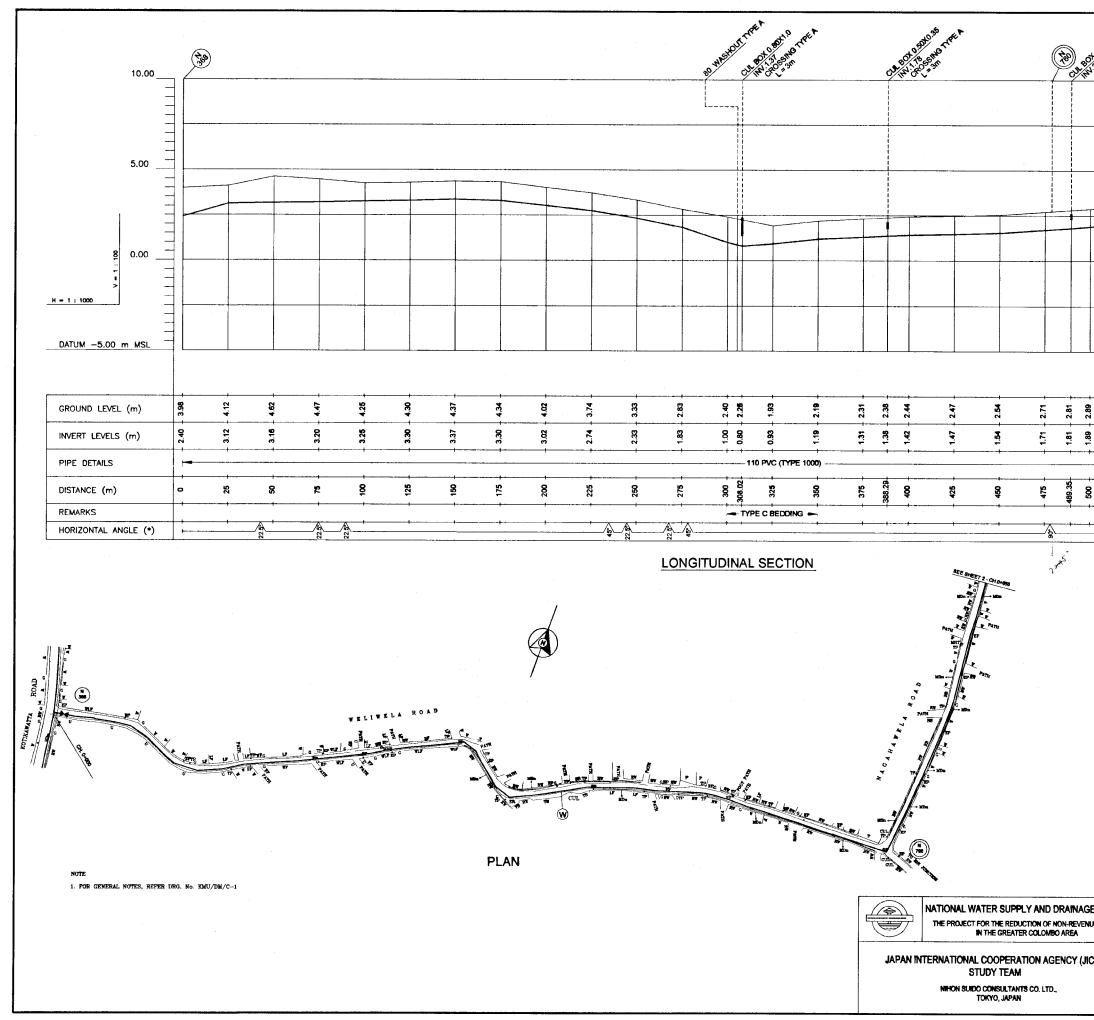
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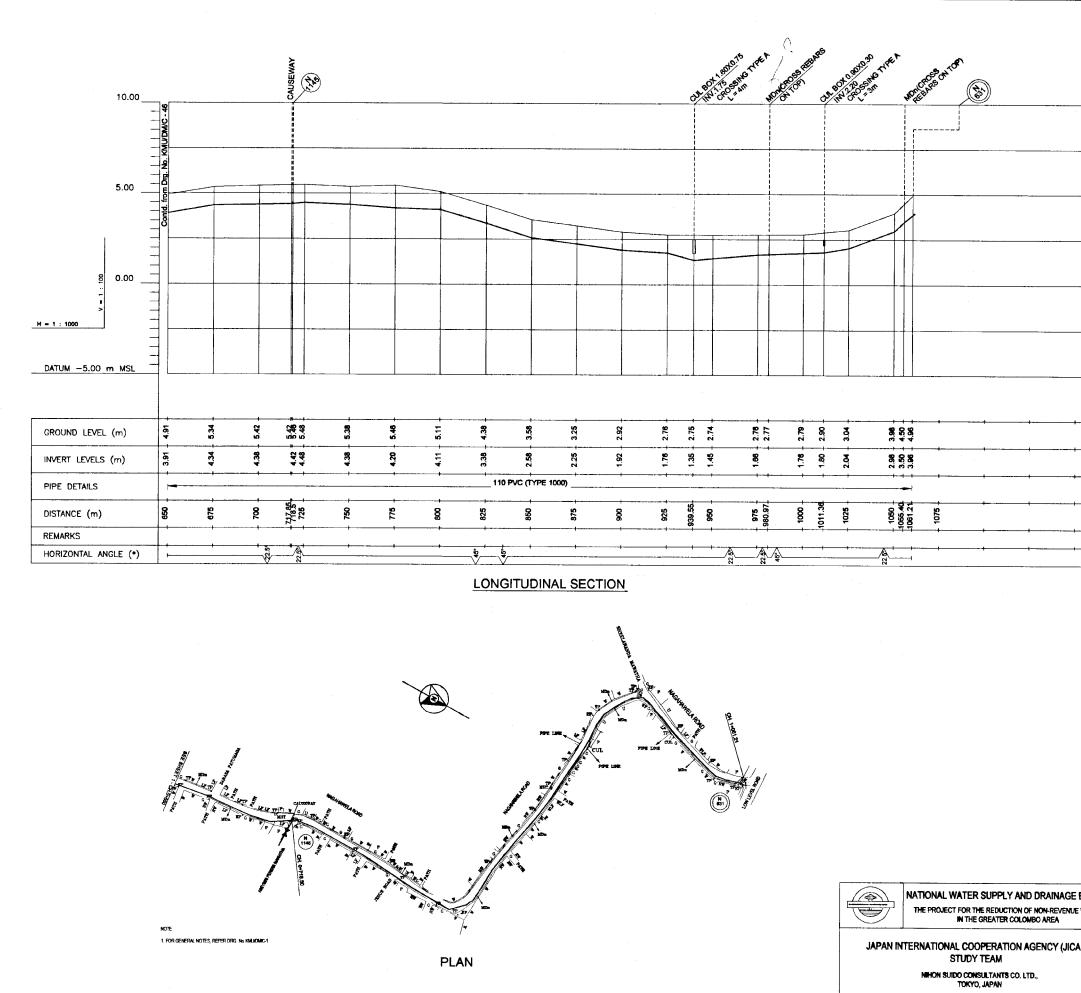




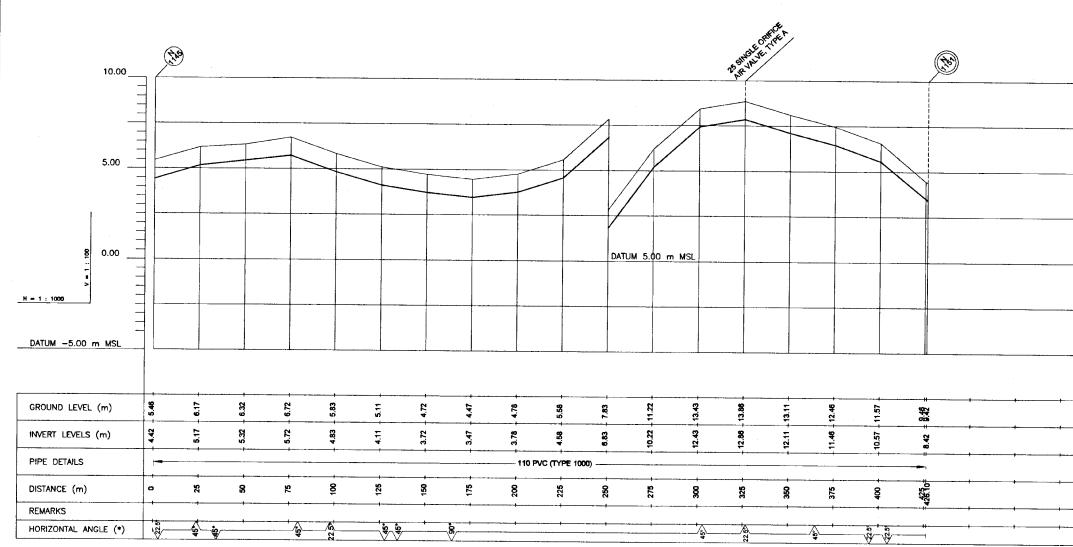
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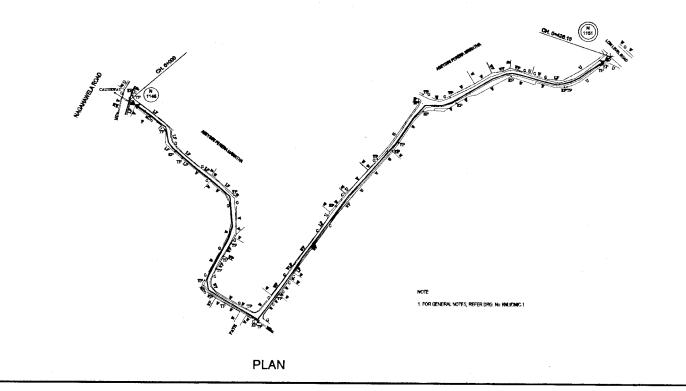


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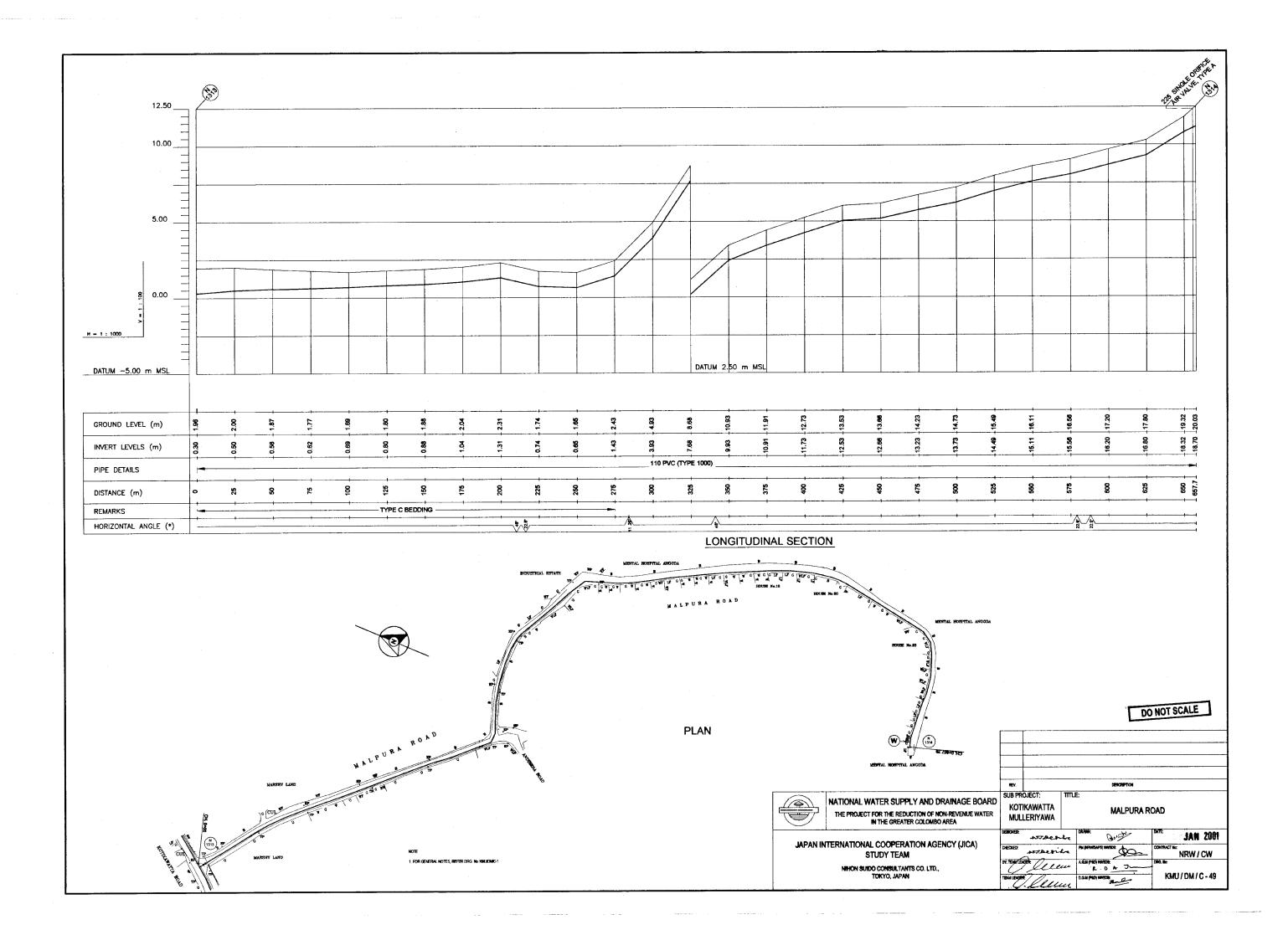
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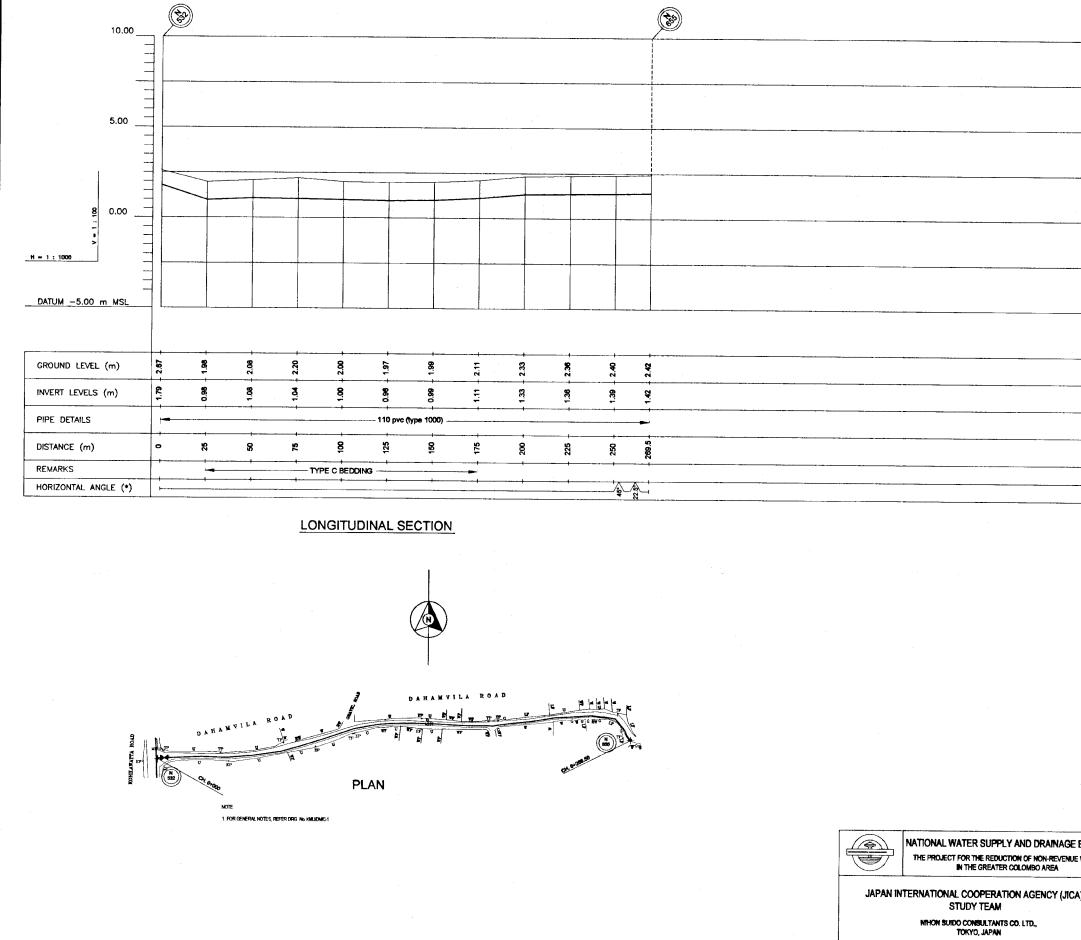
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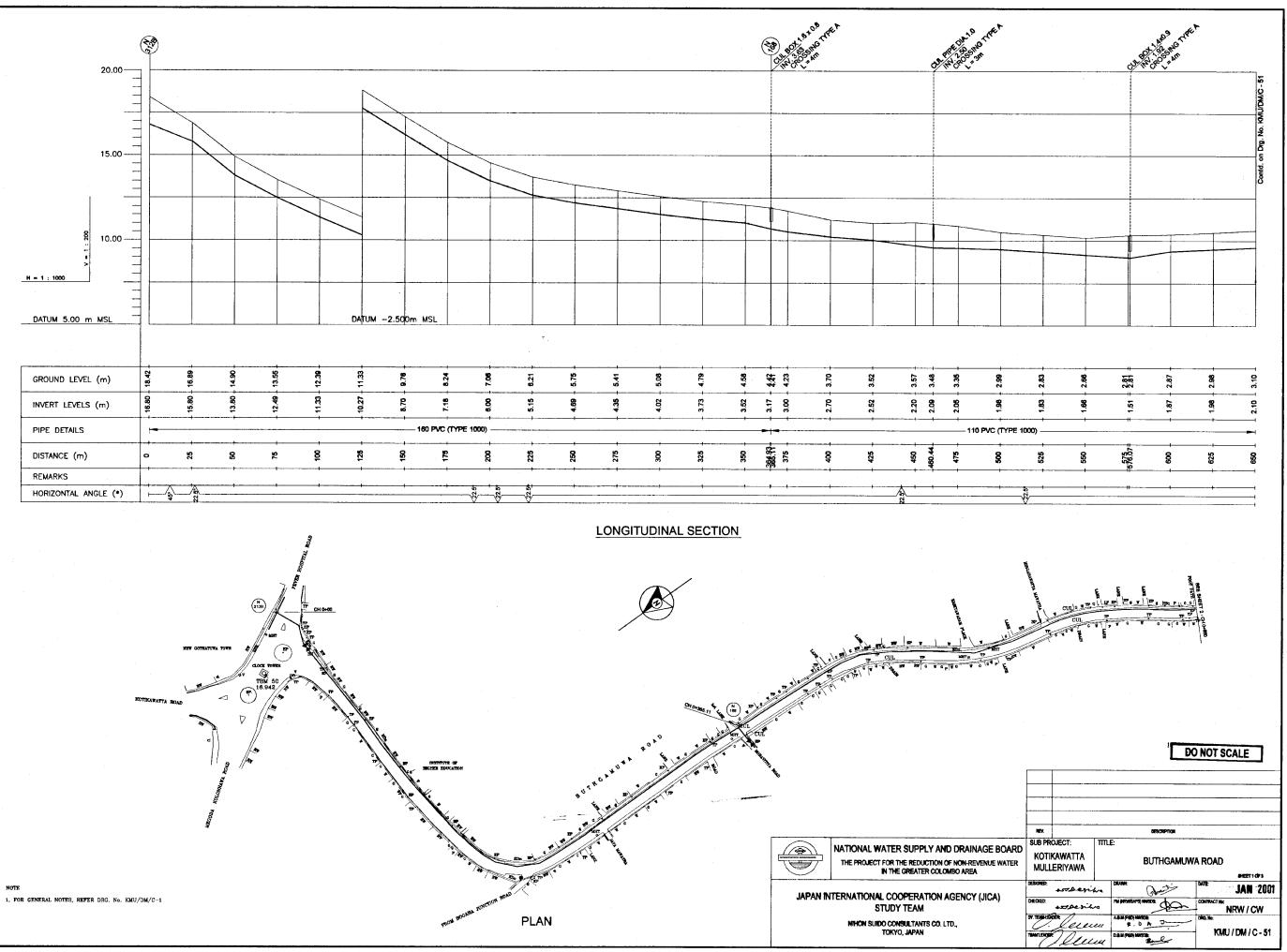
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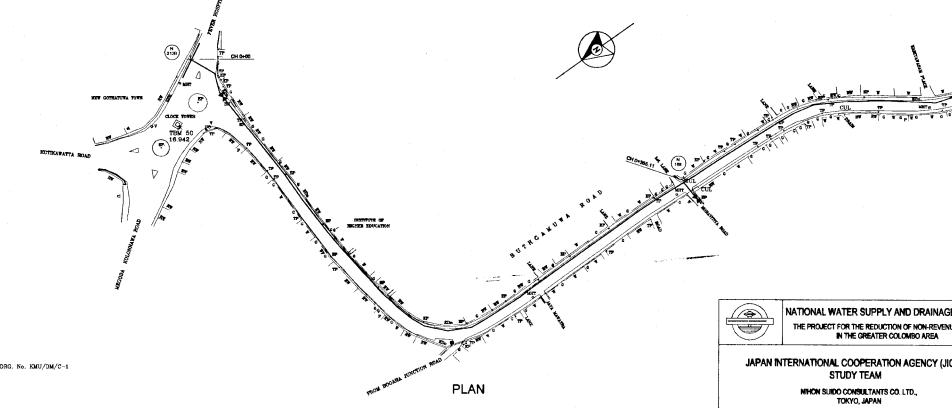
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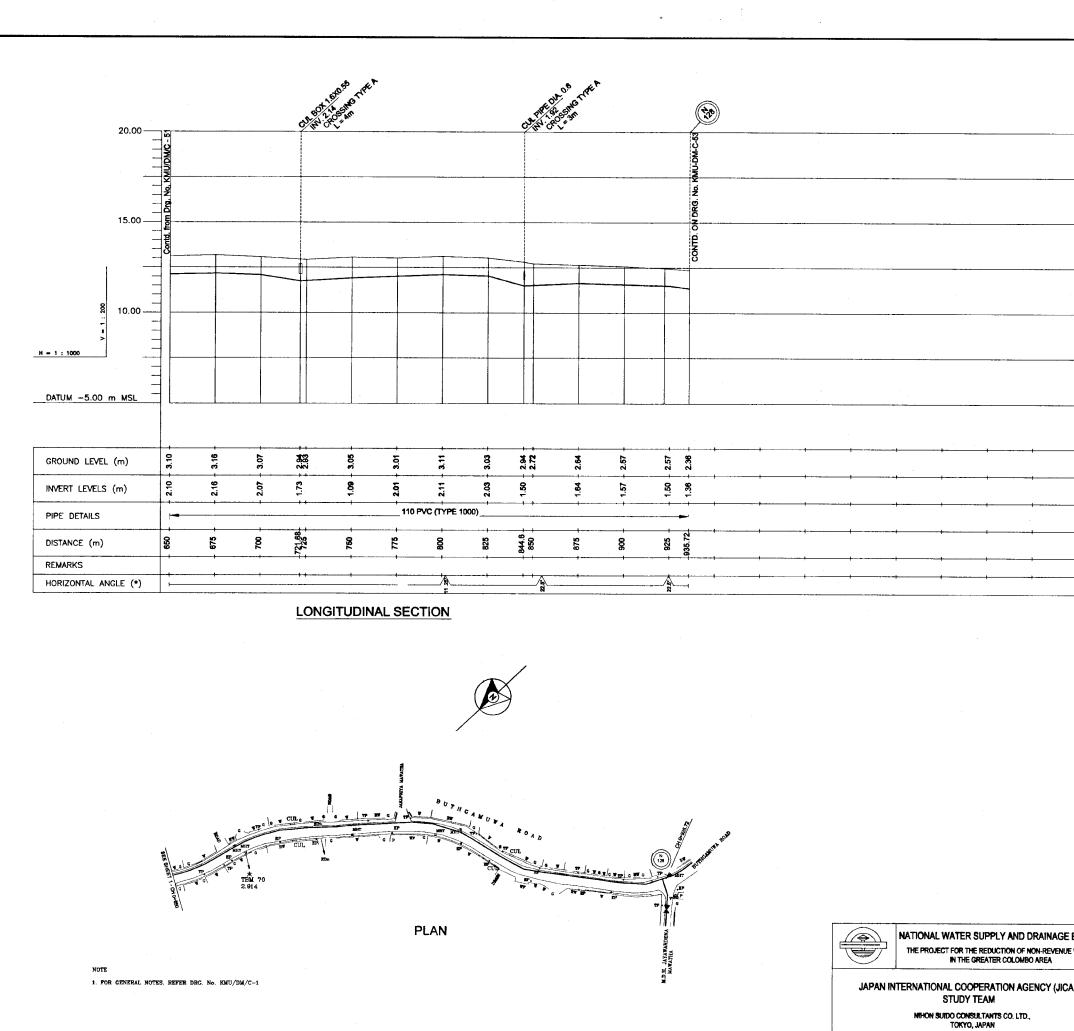




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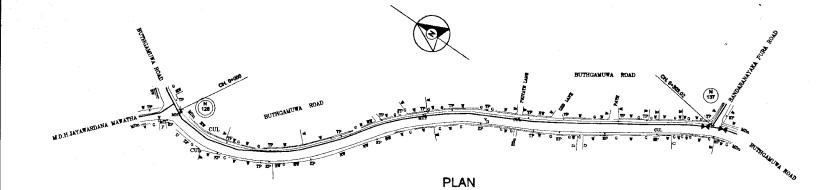


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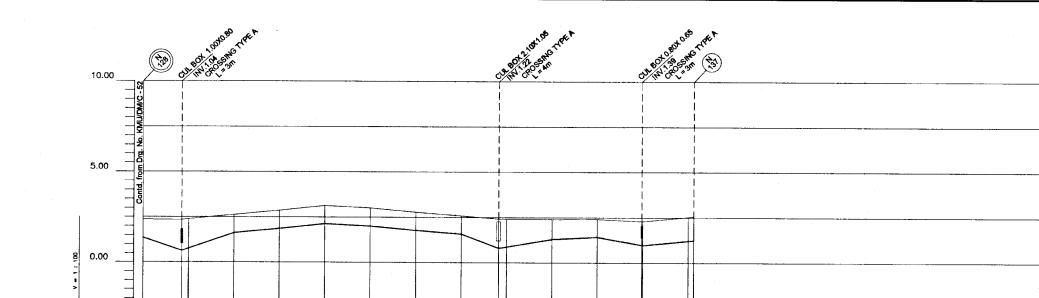
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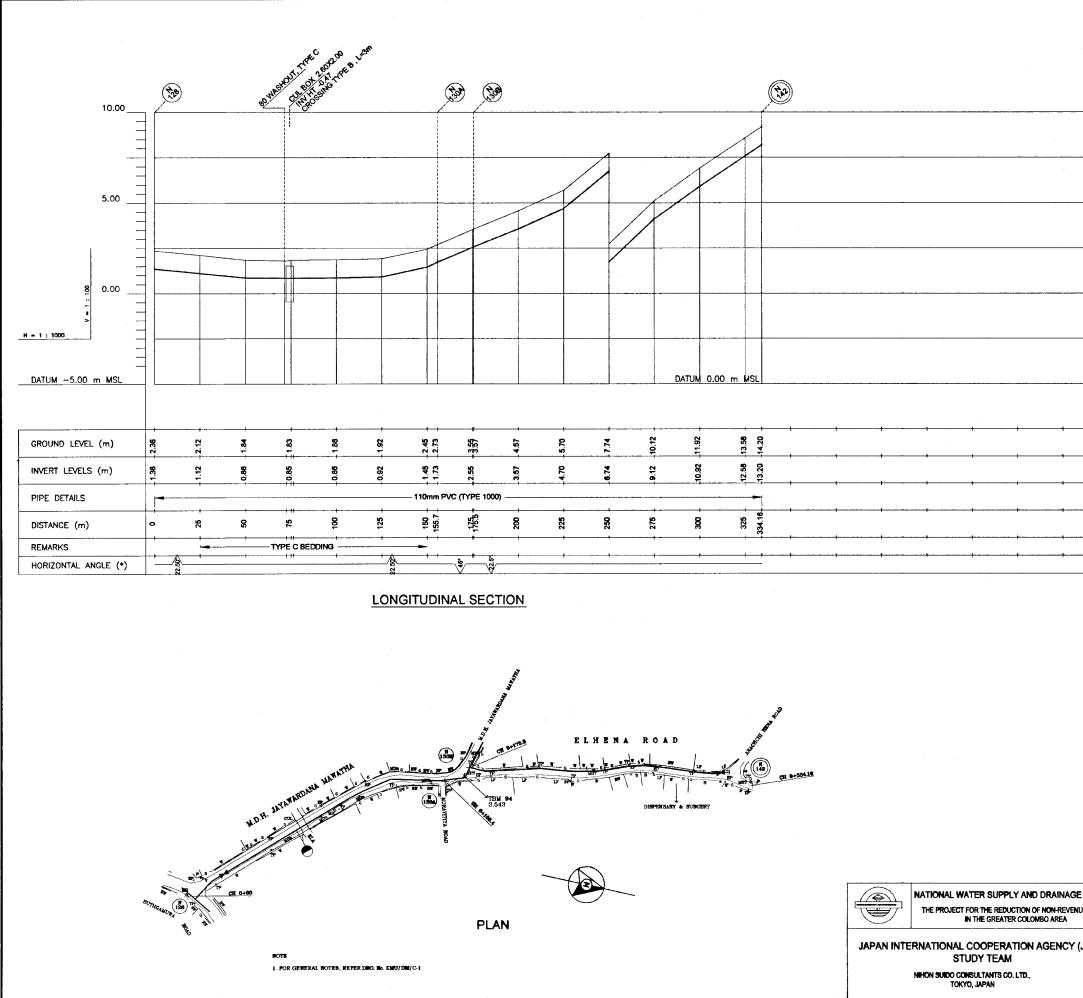


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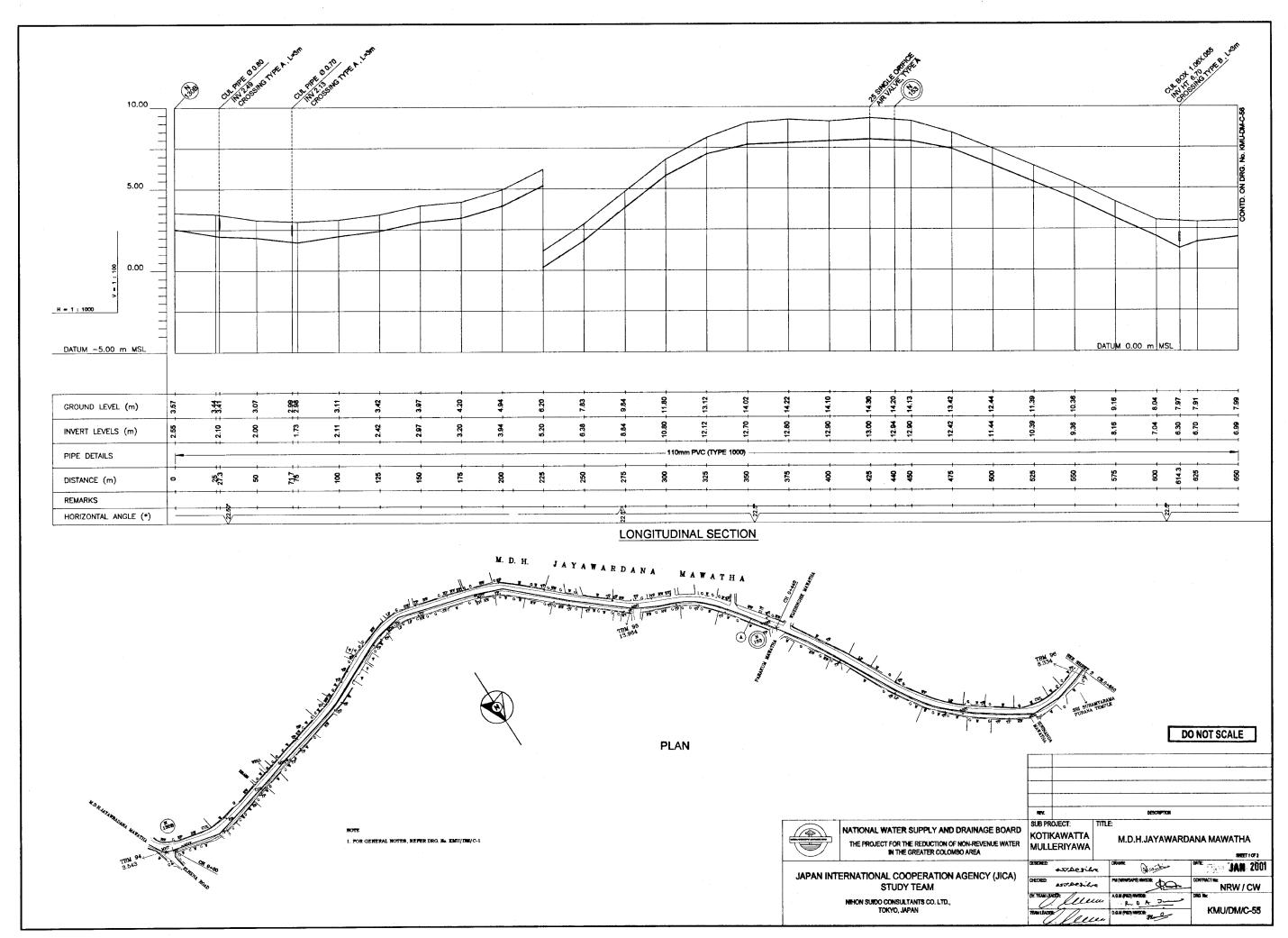


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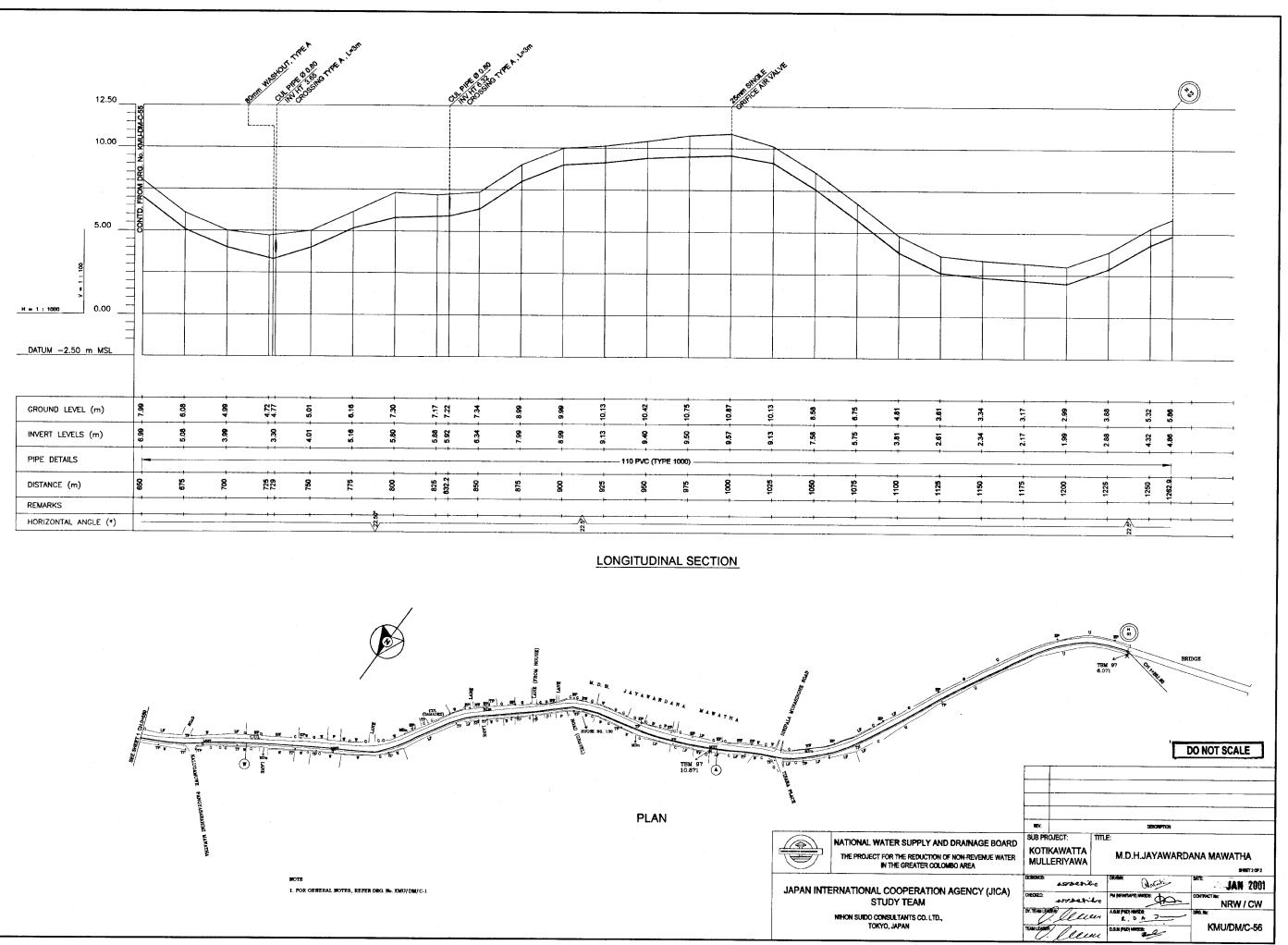
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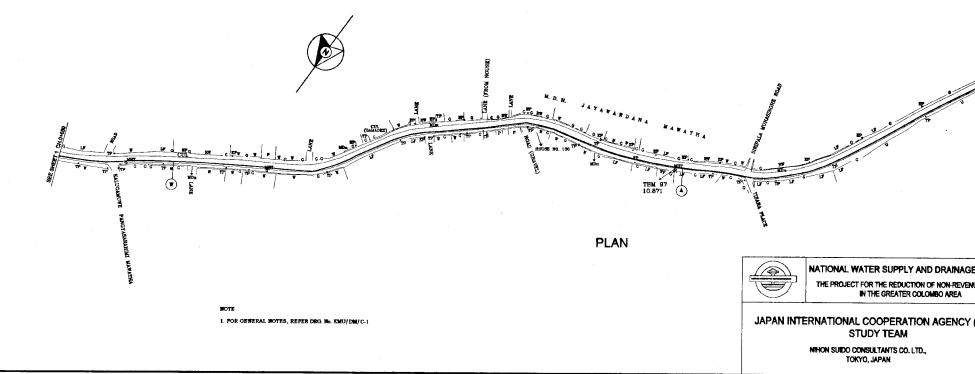
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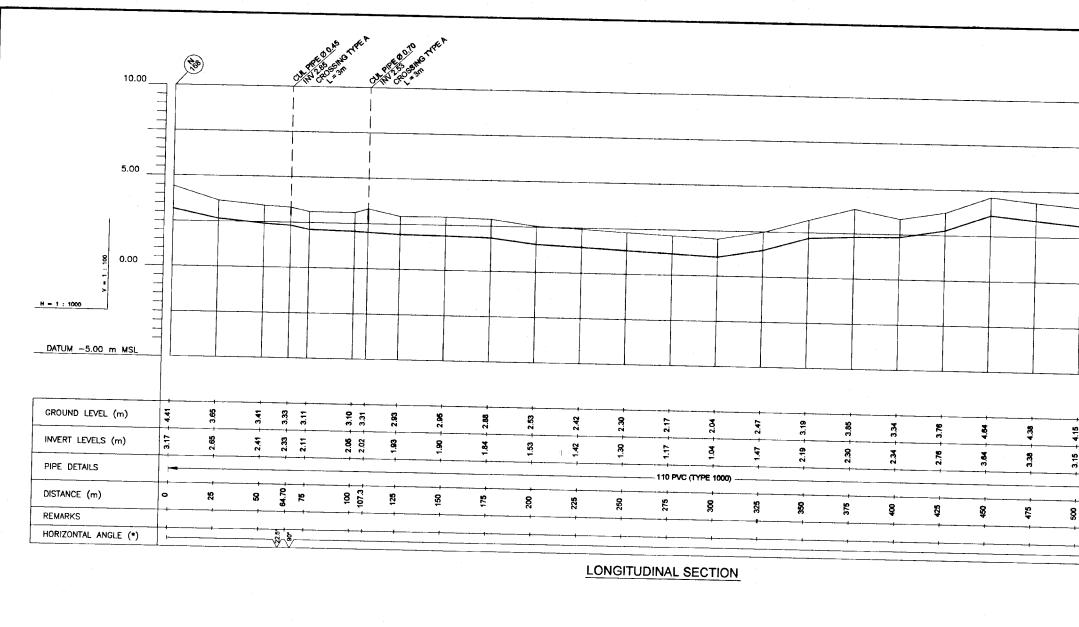


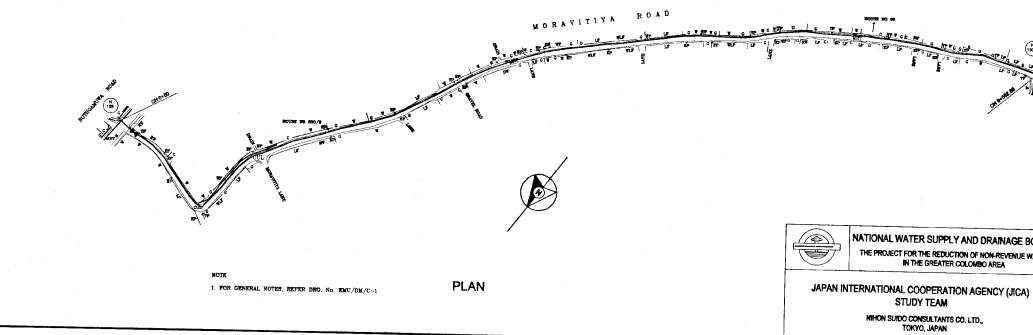
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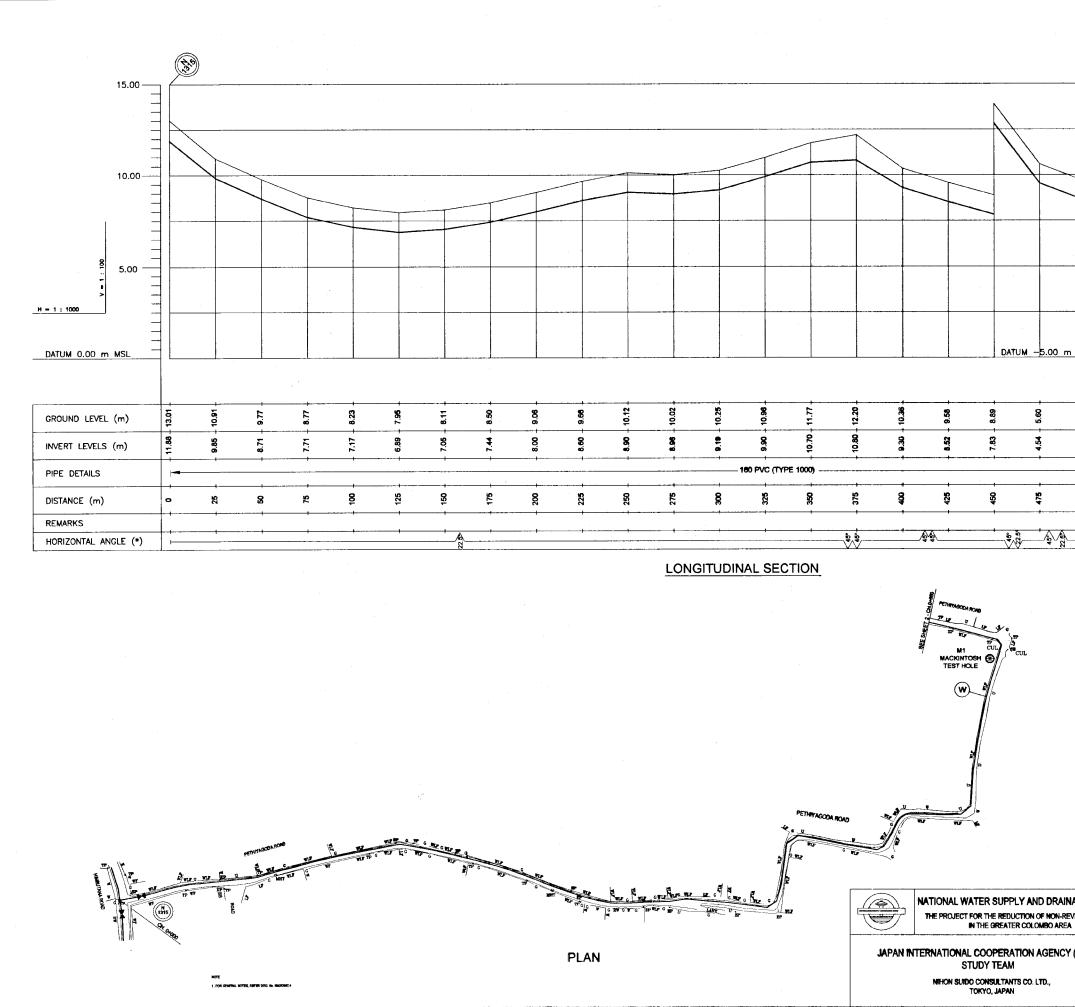








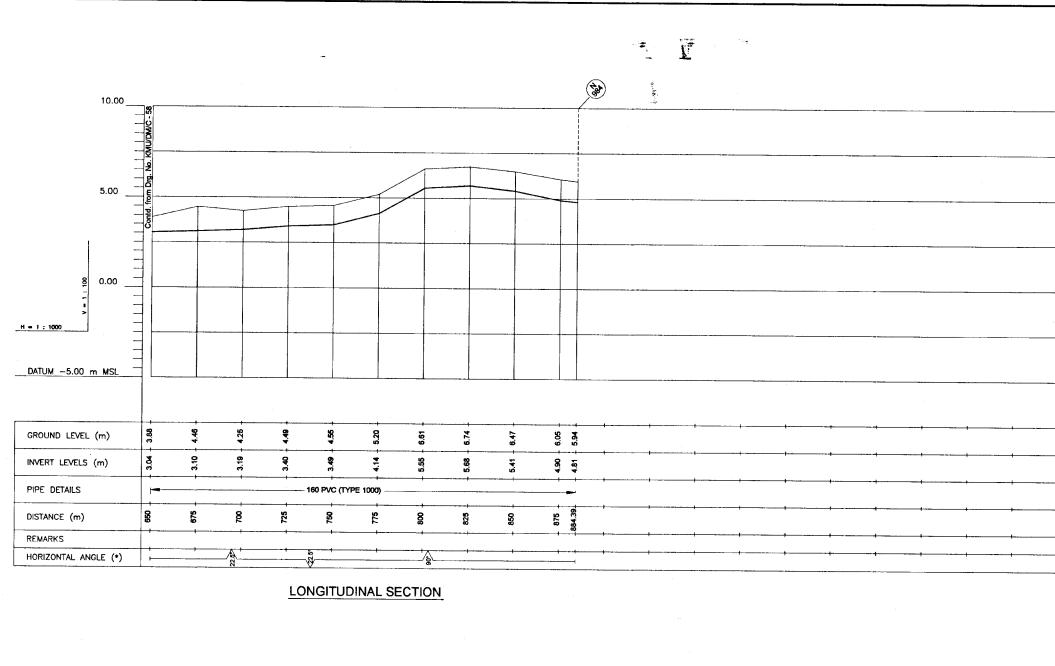
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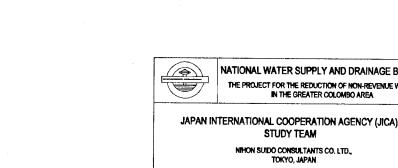


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THE PROJECT FOR THE REDUCTION OF NON-REVENUE I IN THE GREATER COLOMBO AREA

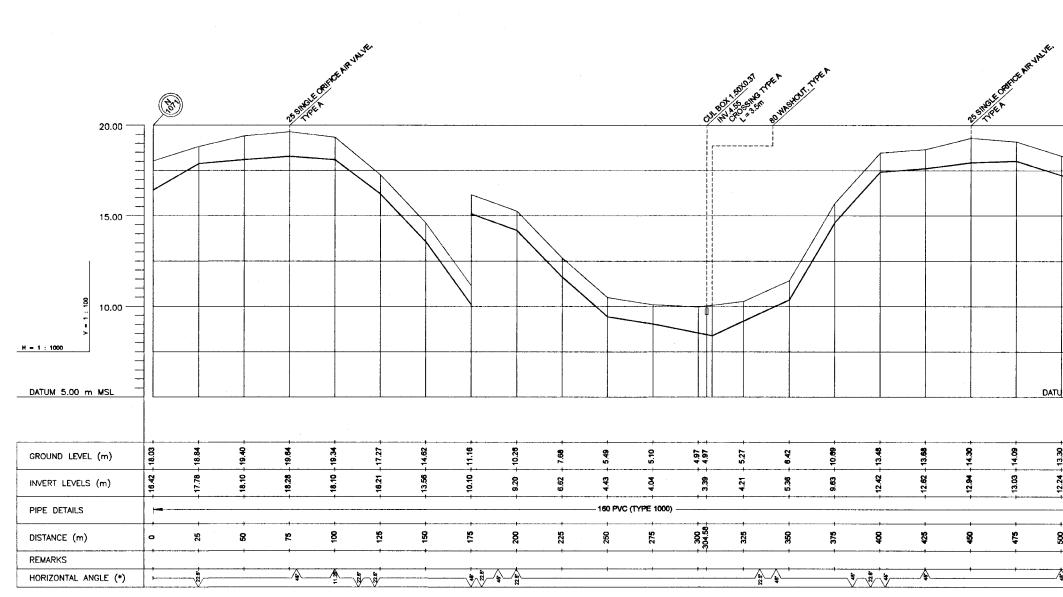
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1. FOR GENERAL NOTES, REFER DRG. No. KMU/DM/C-1

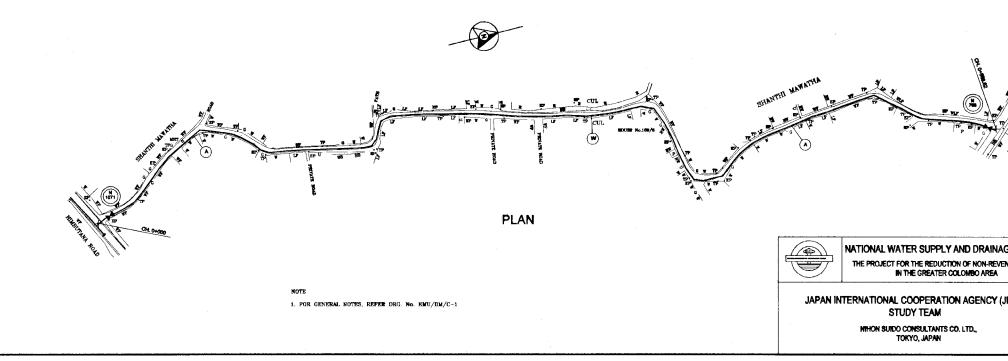
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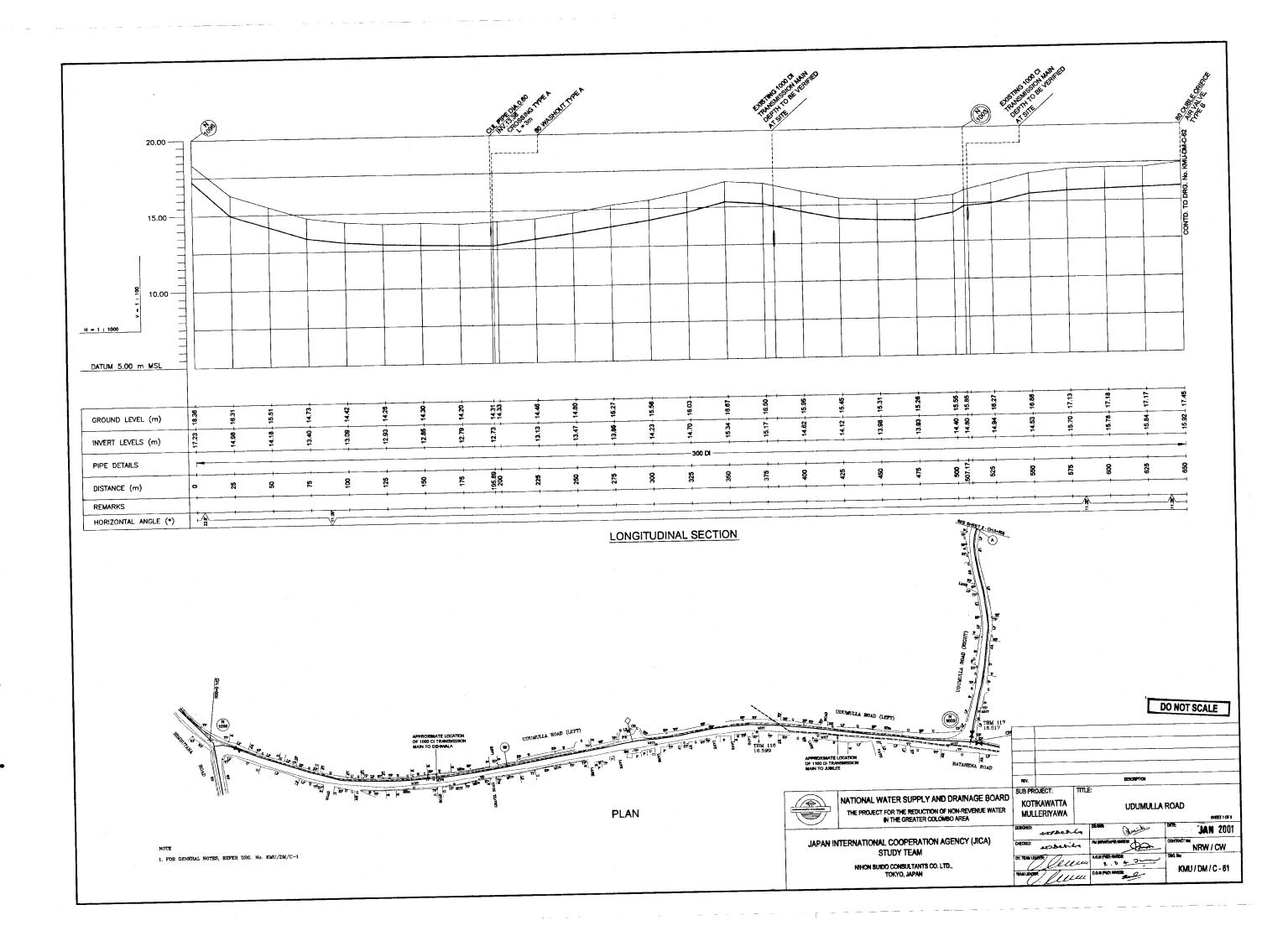
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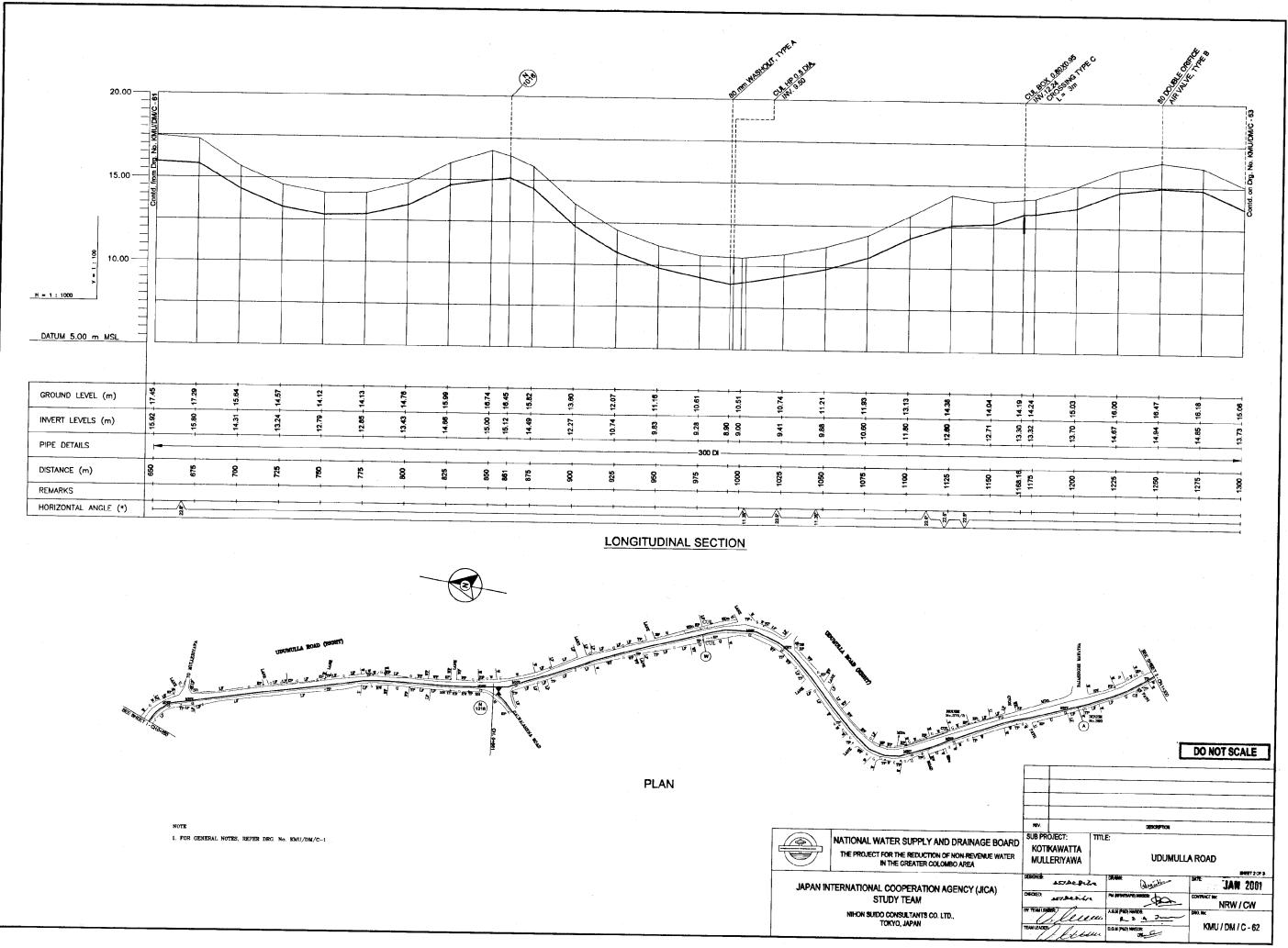


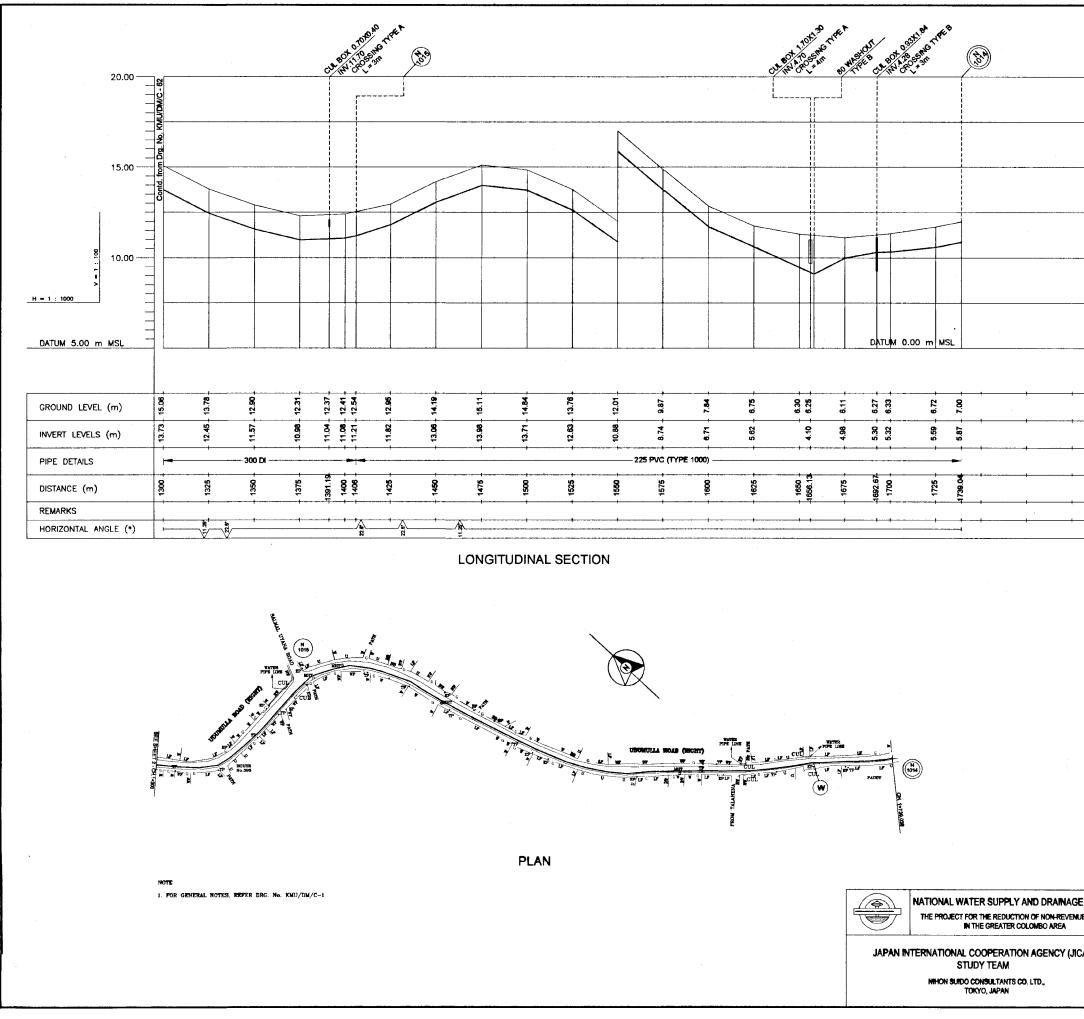
LONGITUDINAL SECTION



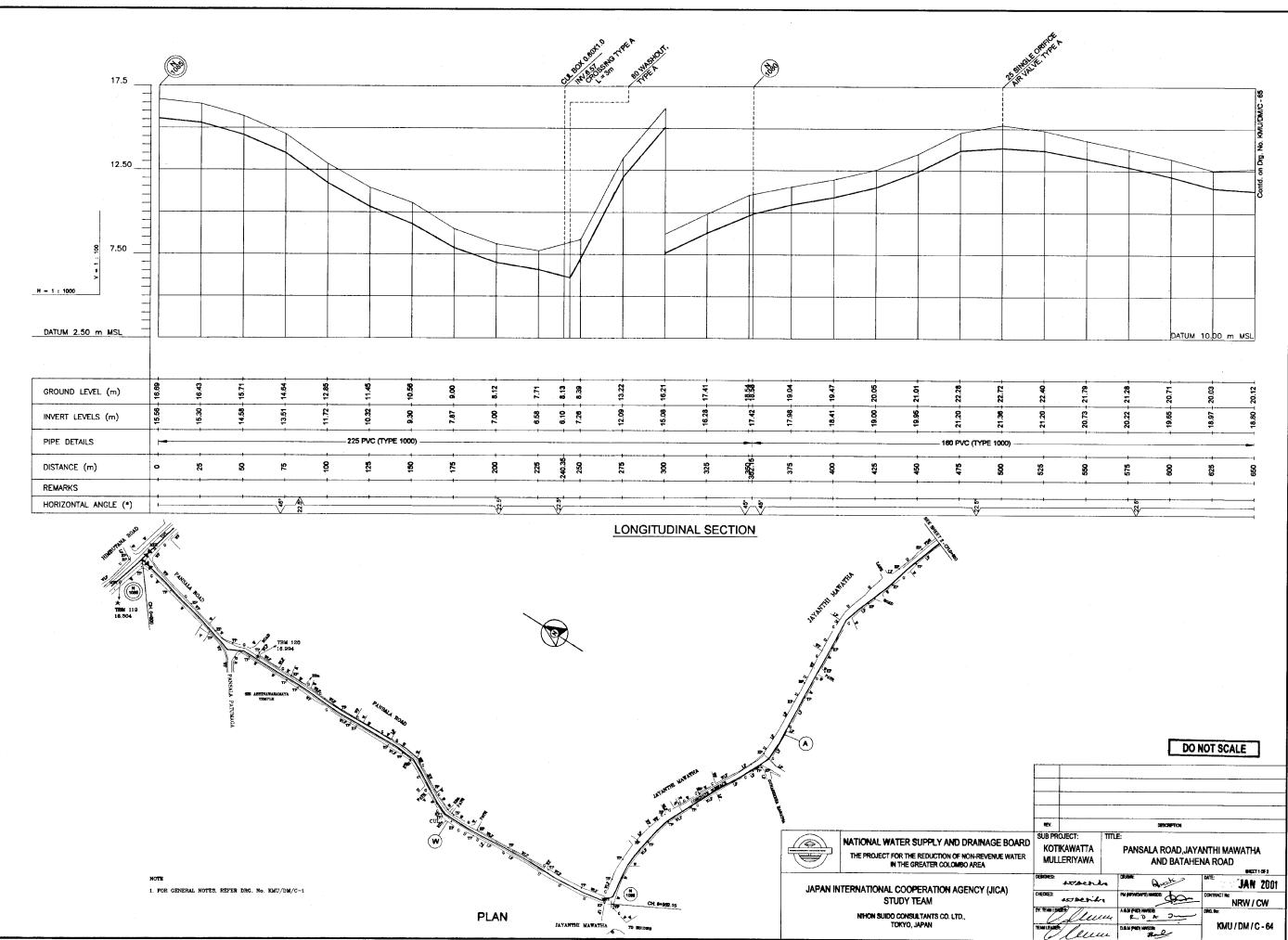
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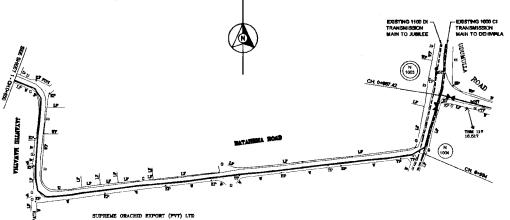


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NOTE 1. FOR GENERAL NOTES, REFER DRG. No. KMU/DM/C-1





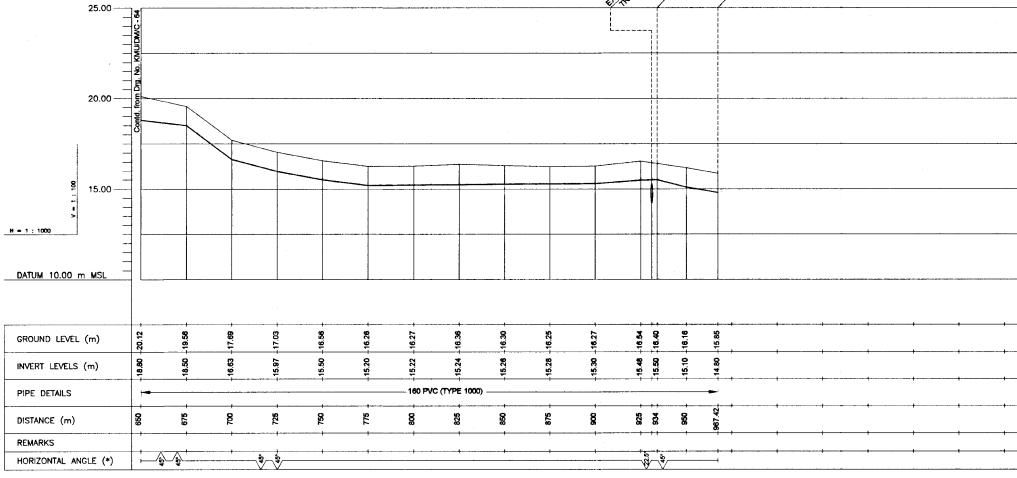


JAPAN INTERNATIONAL COOPERATION AGENCY (JK STUDY TEAM NIHON SUIDO CONSULTANTS CO. LTD., Tokyo, Japan



NATIONAL WATER SUPPLY AND DRAINAGE THE PROJECT FOR THE REDUCTION OF NON-REVEN IN THE GREATER COLOMBO AREA





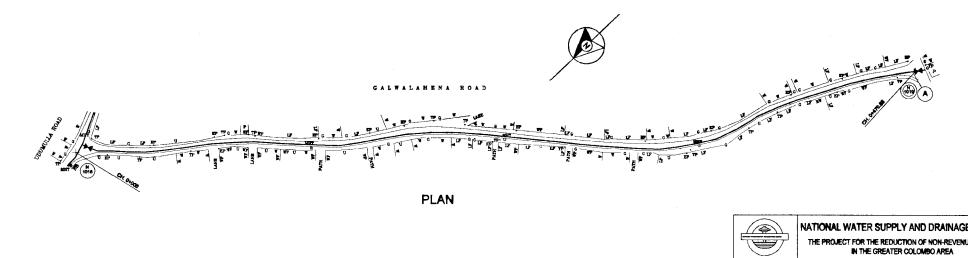
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ICA)	CHECKED:	esserie	~	LI (NEWESAPS) HI	JA-		NRV	//CW
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LONGITUDINAL SECTION



NOTE 1. FOR GENERAL NOTES, REFER DRG. No. KMU/DM/C-1

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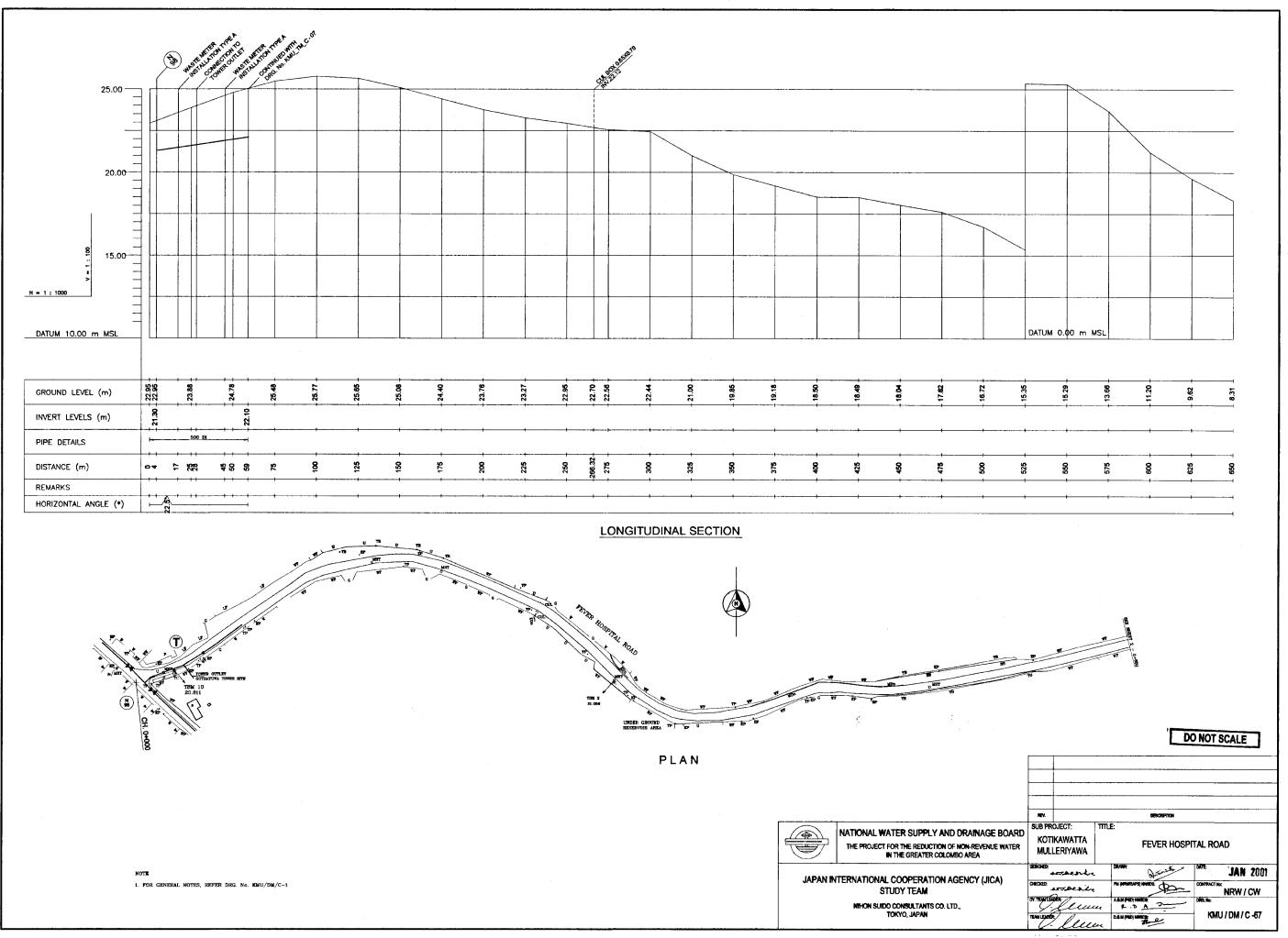
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JAPAN INTERNATIONAL COOPERATION AGENCY (JIC STUDY TEAM NIHON SUIDO CONSULTANTS CO. LTD., TOKYO, JAPAN

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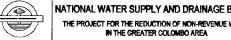


	STMBULSU	SED FOR JUNCTION DETAILS
NOTATION	SIZE	DESCRIPTION
PVC PIPE & FITTINGS		
d(d	PVC PUSH-FIT SOCKET & SPIGOT PIPE
d1)(d3	d1 - d2 - d3	ALL PUSH-FIT SOCKET TEE
d1)(q3	d1 - d2 - d3	FLANGED PUSH-FIT SOCKET TEE
d1) d2	d1 - d2	REDUCER (PUSH-FIT SOCKET ON LARGE DIAMETER)
d1(d2	d1 - d2	REDUCER (PUSH-FIT SOCKET ON SMALL DIAMETER)
q)(q	đ	BELL ENDED SLEEVE JOINT (BESJ)
d 11114, 22112, 45, 90°	d x engle	DOUBLE PUSH-FIT SOCKET BEND
]d	d	PVC END CAP (SOLVENT CEMENT TYPE)
VALVES AND COUPLINGS		
a 🕅	d GV	DOUBLE FLANGE GATE VALVE
d 🗐	đ	FLEXIBLE COUPLING (VJ COUPLING OR SIMILAR)
d 🗎	d	FLANGED ADAPTOR (VJFA OR SIMILAR)
DI PIPES AND FITTINGS		
d	d	D1 SOCKET & SPIGOT PIPE
d1][d3	d1 - d2 - d3	ALL SOCKET THE
d2 d1][d3	d1 - d2 - d3	FLANGED ON SOCKET TEE
d1 d2 d1 d3	d1 - d2 - d3	ALL FLANGED TEE
d1] d2	d1 - d2	SOCKET TAPER
d1 🖂 d2	d1 - d2	FLANGED TAPER

	List of Junctions								
No.	Identification No.	Junction / Inter		Remarks					
2	N 22		Junction						
3	N 63	Interconnection		to existing 90 mm PVC					
4	N 86		Junction						
5	N 98	Interconnection		to existing 160 mm PVC					
6	N 128	Interconnection		to existing 110 mm PVC					
7	N 130		Junction						
8	N 137		Junction						
9	N 142	Interconnection		connect to existing 50 mm PVC					
10	N 153	Interconnection		connect to existing 90 mm PVC					
11	N 168		Junction						
12 13	N 170 N 177	<u> </u>	Junction						
15	N 177	Interconnection	Junction	connect to existing 90 mm PVC					
15	N 183	nierconnection	Junction	connect to existing 90 mm PVC					
16	N 265	Interconnection	JUNCTION	connect to existing 160 mm PVC					
17	N 200	Interconnection		connect to existing 100 mmPVC					
18	N312	Interconnection		connect to existing 160 mm PVC					
19	N354	Interconnection		connect to existing 160 mm PVC					
20	N 368		Junction						
21	N 373	<u>† †</u>	Junction						
22	N 387	Interconnection		connect to existing 90 mm PVC					
23	N 389	Interconnection		connect to existing 90 mm PVC					
26	N 397	Interconnection		connect to existing 110 mm PVC					
24	N 407	Interconnection		connect to existing 110 mm PVC					
25	N 500	Interconnection		connect to existing 160 mm PVC					
27	N 532	Interconnection		connect to existing 110 mm PVC					
29	N 601	Interconnection		connect to existing 90 mm PVC					
51	N 631	Interconnection		connect to existing 110 mm PVC					
30	N 655	Interconnection		connect to existing 63 mm PVC					
31	N 679	Interconnection		connect to existing 160 mm PVC					
28	N 698	Interconnection		connect to existing 90 mm PVC					
32	N712	Interconnection		connect to existing 160 mm PVC					
33	N 750	Interconnection		connect to existing 160 mm PVC					
1	N 760	Interconnection		to existing 90 mm PVC					
35	N 765	Interconnection		connect to existing 63 mm PVC					
36 37	N 768 N 823	Interconnection	Junction	connect to existing 225 mm PVC					
3/	N 823	<u>↓</u>	Junction						
39	N 837	Interconnection	JUNCION	connect to existing 160 mm PVC					
40	N 846	Interconnection		connect to existing 90 mm PVC					
41	N 855	Interconnection		connect to existing 160 mm PVC					
42	N 888		Junction	connect to existing foo firm PVC					
43	N 892	Interconnection	Gariotori	connect to existing 110 mm PVC					
44	N 931	Interconnection		connect to existing 90 mm PVC					
45	N 984	†	Junction						
46	N 1003	Interconnection		connect to existing 90 mm PVC					
47	N 1014	Interconnection		connect to existing 90 mm PVC					
48	N 1015		Junction						
49	N 1016		Junction						
50	N 1019	Interconnection		connect to existing 63 mm PVC					
52	N 1071	Interconnection		connect to existing 160 mm PVC					
53	N 1085	Interconnection		connect to existing 160 mm PVC					
55	N 1096		Junction						
56	N1127	Interconnection		connect to existing 110 mm PVC					
57	N1137	Interconnection		connect to existing 90 mm PVC					
34	N 1145		Junction						
58	N1151	Interconnection		connect to existing 110 mm PVC					
59	N 1215	Interconnection		connect to existing 160 mm PVC					
60	N1227	Interconnection		connect to existing 225 mm PVC					
61	N 1313 N 1314	├├ -	Junction						
		1 1	Junction						
62		- internet		and a state of the second					
54	N 1315	Interconnection		connect to existing 160 mm PVC					
	N 1315 Junction - T	Interconnection		connect to existing 160 mm PVC Connect to Water Tow er					

NOTE :

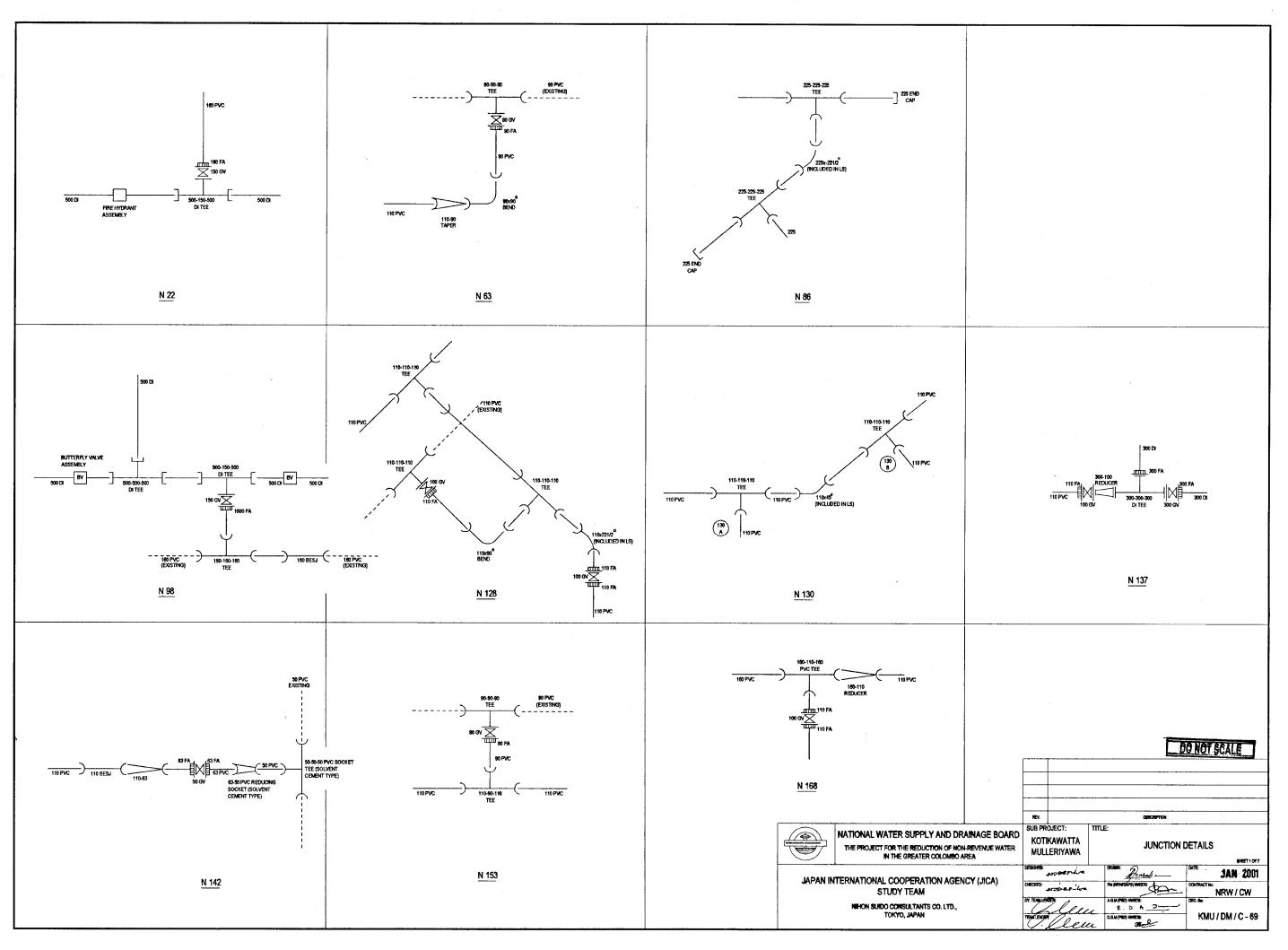
ALL DI PIPES AND FITTINGS ARE DENOTED WITH NOMINAL DIAMETERS SUCH AS 50,80,100,150,200,300 ETC.
 ALL PVC PIPES AND FITTINGS ARE DENOTED WITH EXTERNAL DIAMETERS SUCH AS 53,90,110,180 & 225.
 FLANGED ADAPTORS AND FLEXIBLE COUPLINGS ON PVC PIPES ARE DENOTED WITH TYPICAL PVC EXTERNAL PIPE DIAMETERS SUCH AS 53,90,110,180 & 225.
 FLANGED ADAPTORS AND FLEXIBLE COUPLINGS ON DI PIPES ARE DENOTED WITH TYPICAL NOMINAL DIAMETERS SUCH AS 50,00,100,150,200,300 ETC.
 FLANGED ADAPTORS AND FLEXIBLE COUPLINGS ON DI PIPES ARE DENOTED WITH TYPICAL NOMINAL DIAMETERS SUCH AS 50,00,100,150,200,300 ETC.
 ALL GATE VALVES ARE DENOTED WITH NOMINAL DIAMETERS.

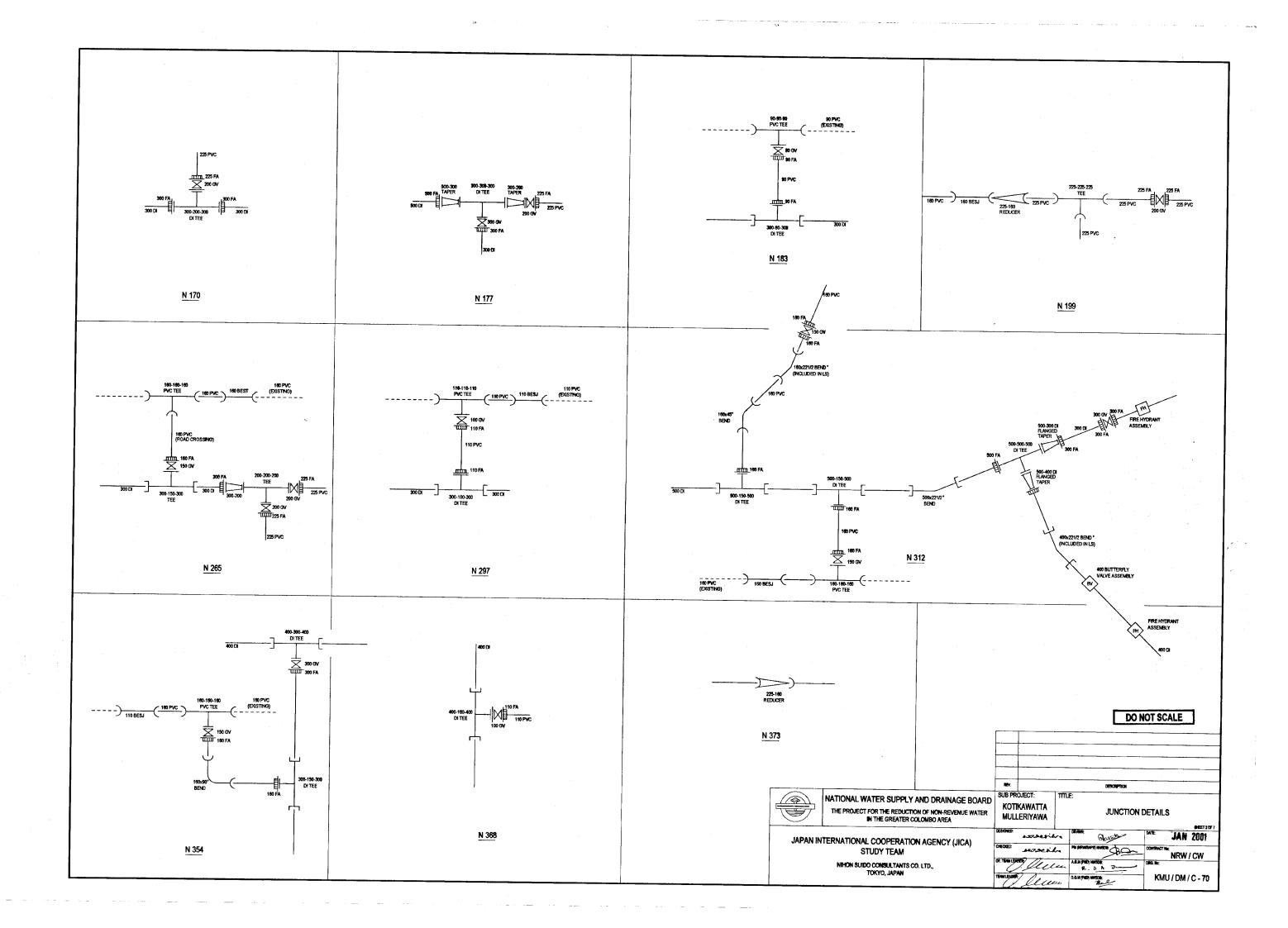


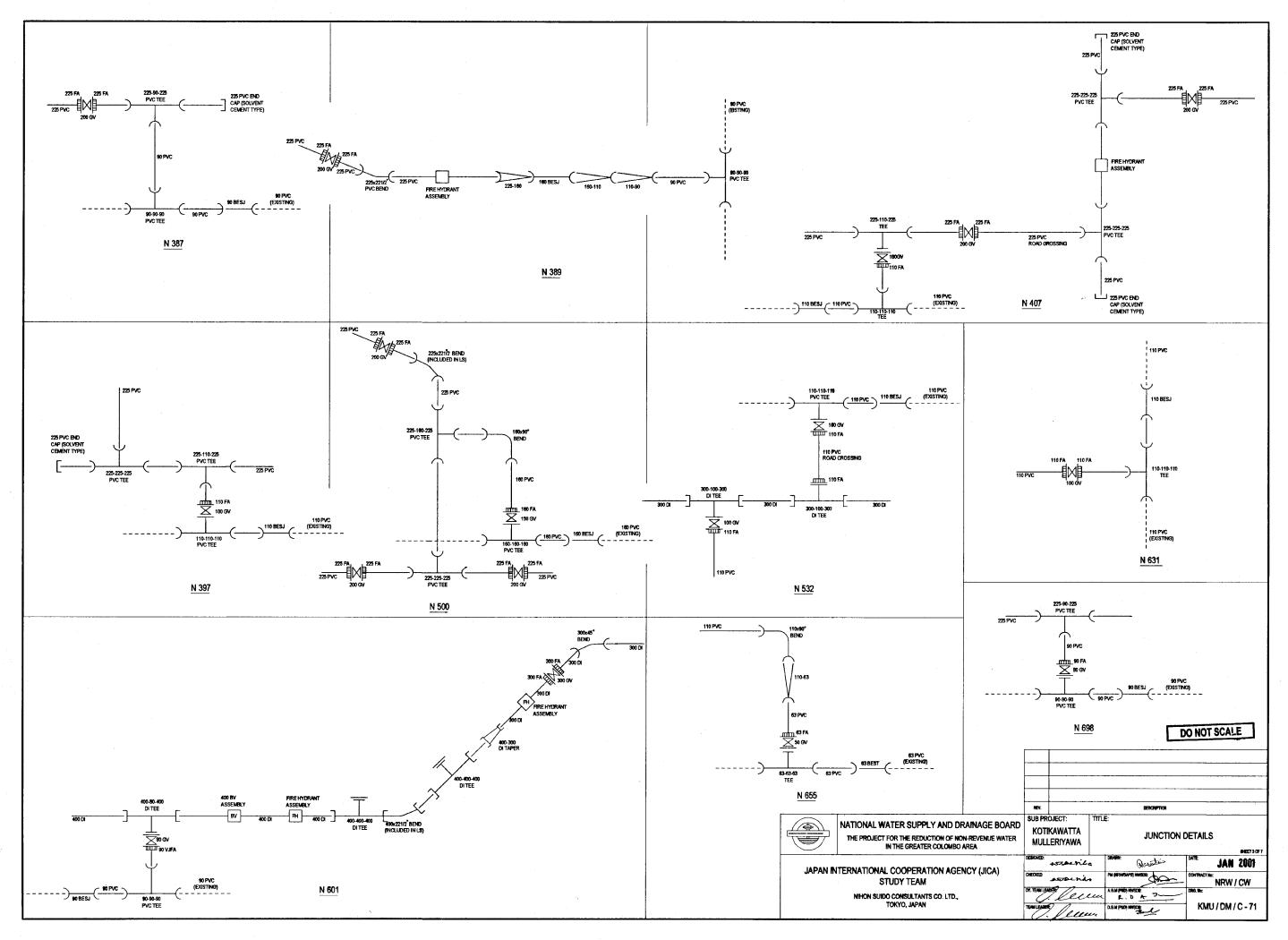
THE PROJECT FOR THE REDUCTION OF NON-REVENUE V IN THE GREATER COLOMBO AREA

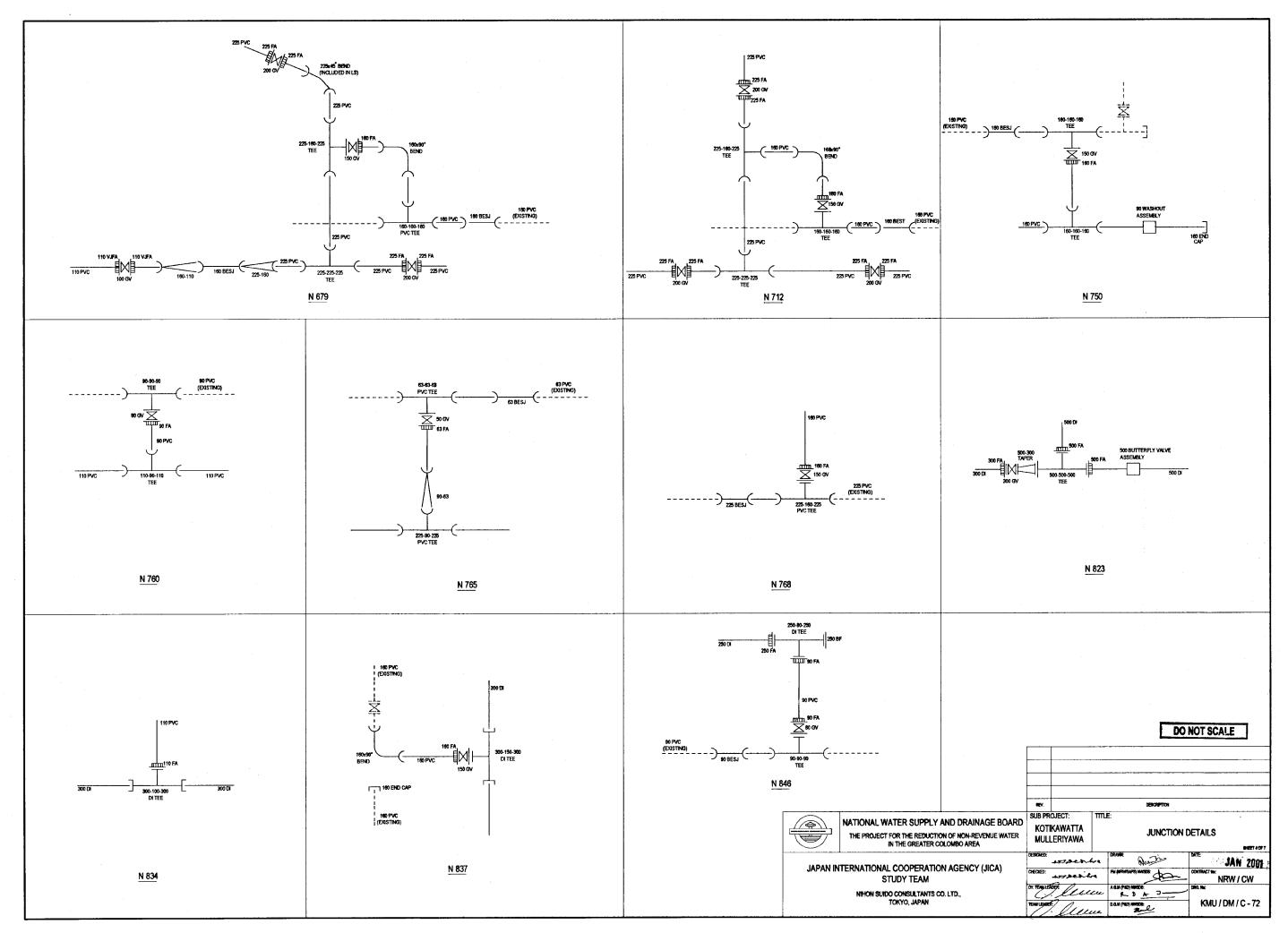
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) STUDY TEAM NIHON SUIDO CONSULTANTS CO. LTD., Tokyo, Japan

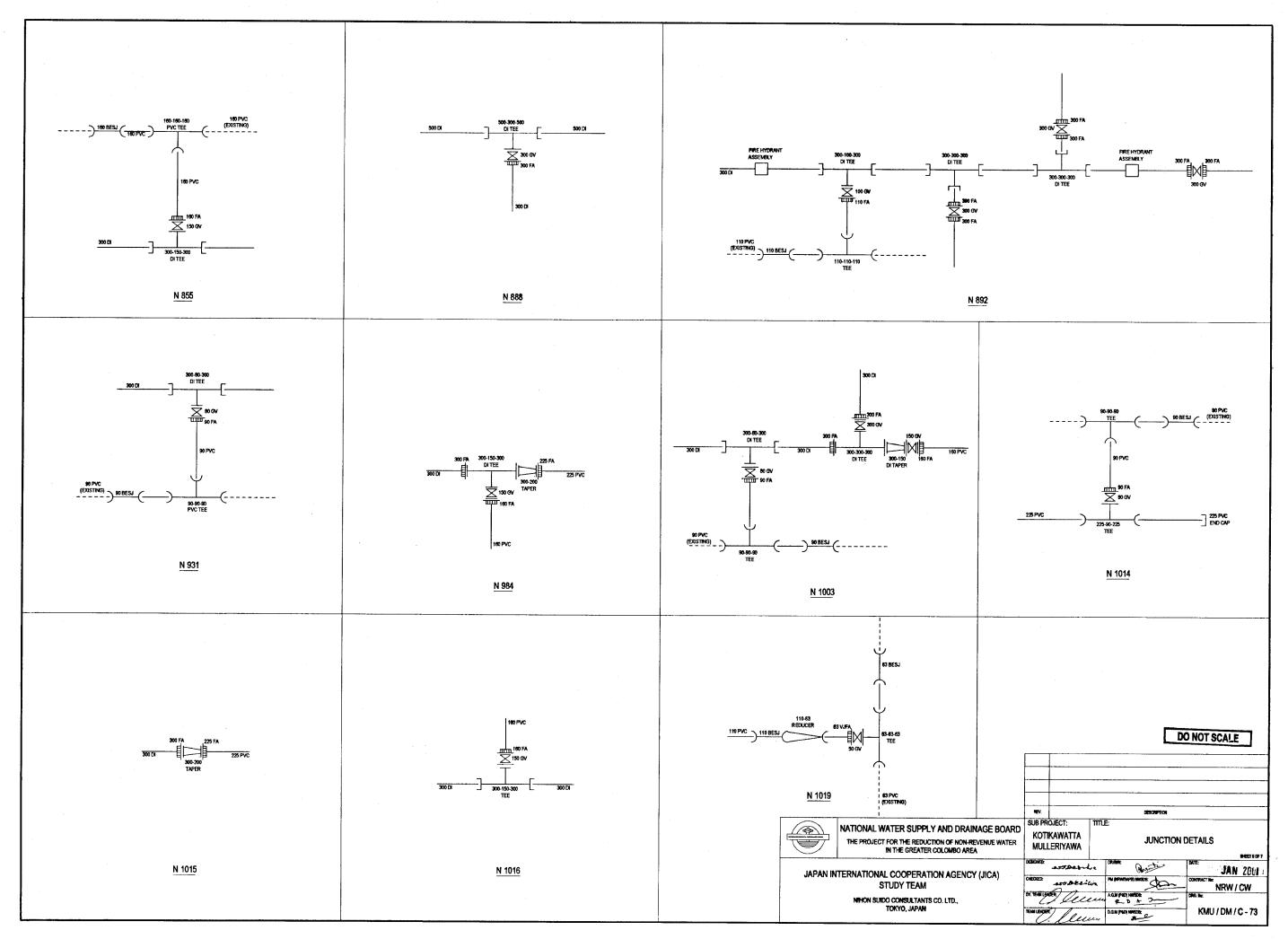
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9		essent	•		NRW / CW
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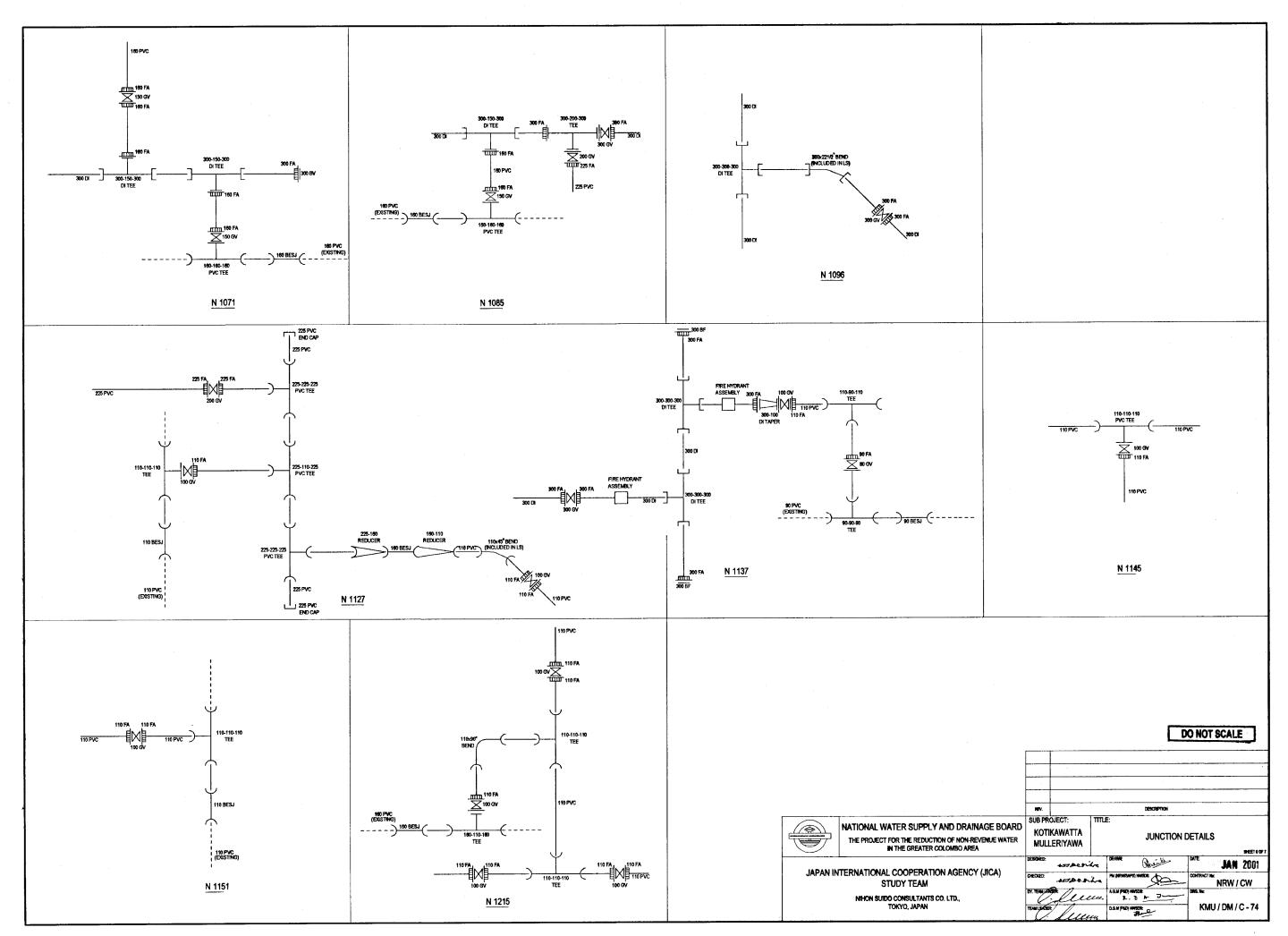








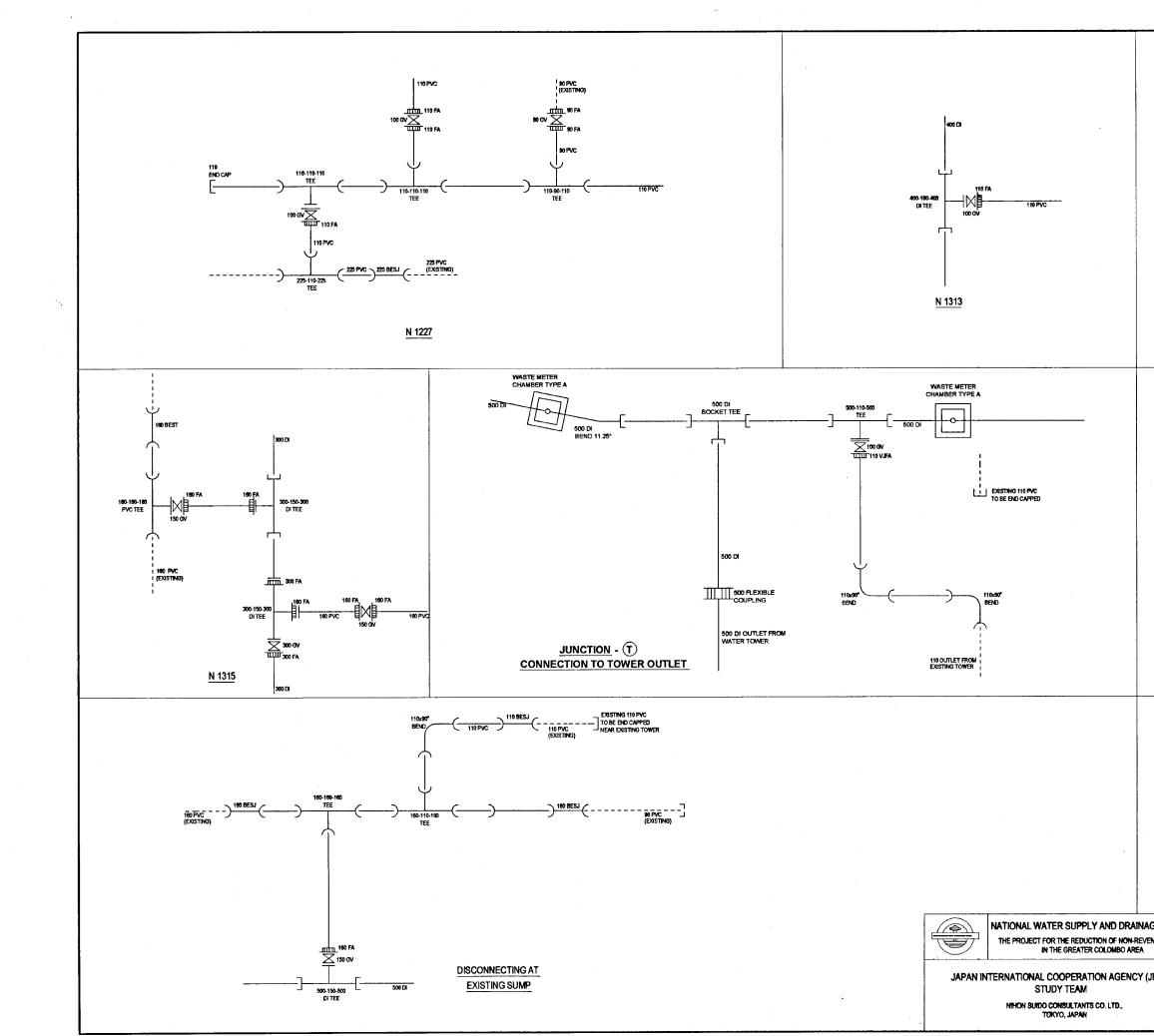
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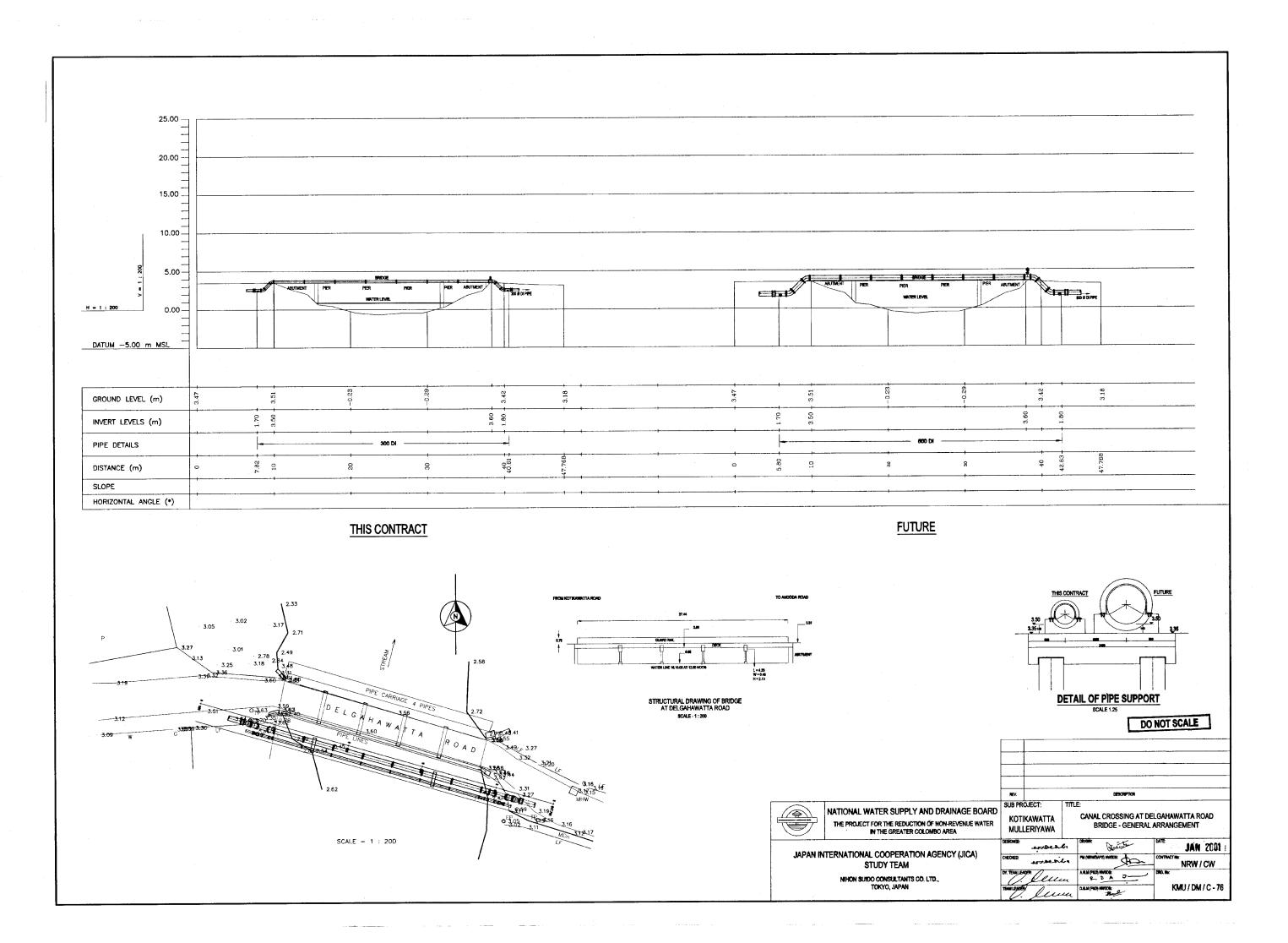
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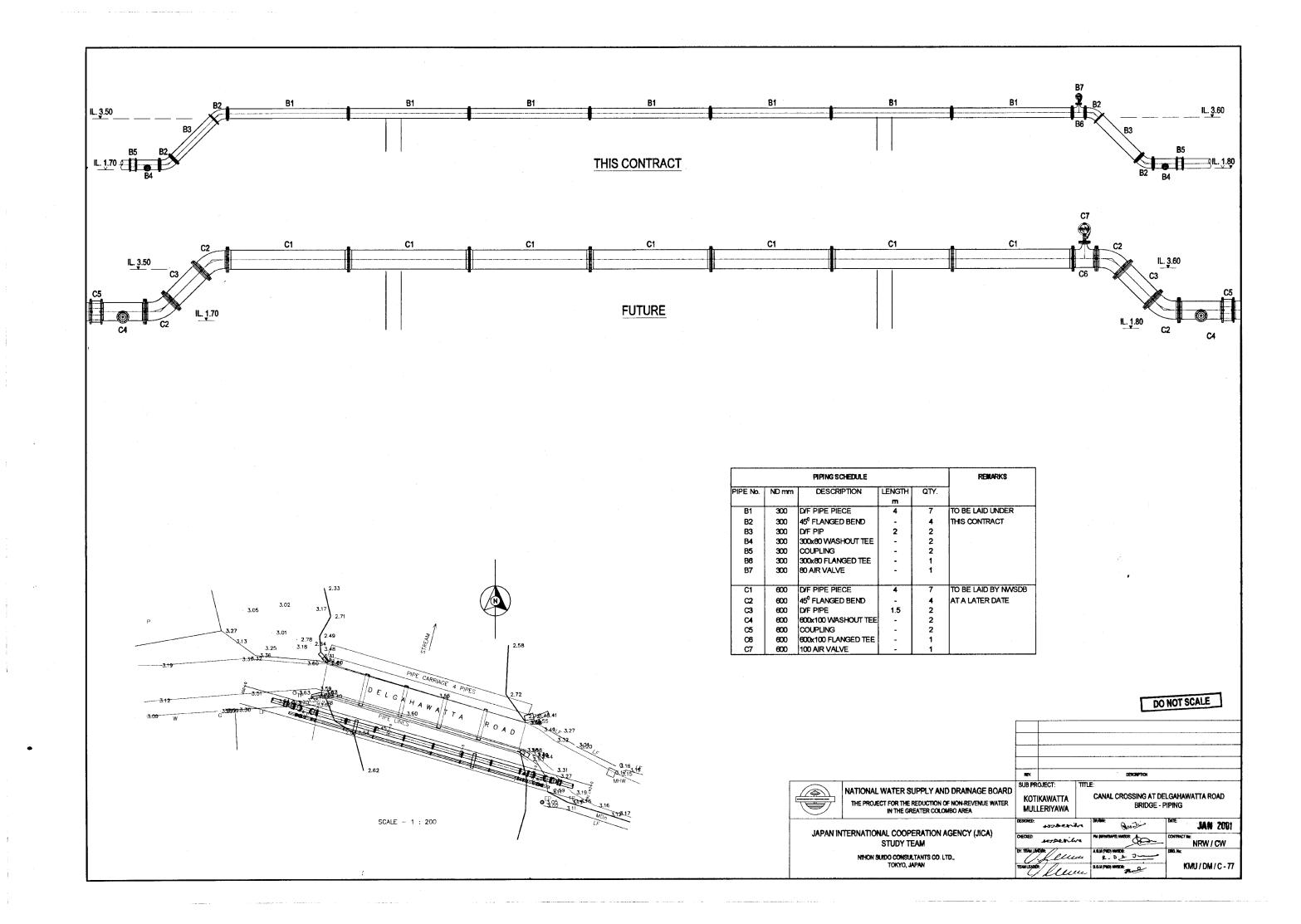
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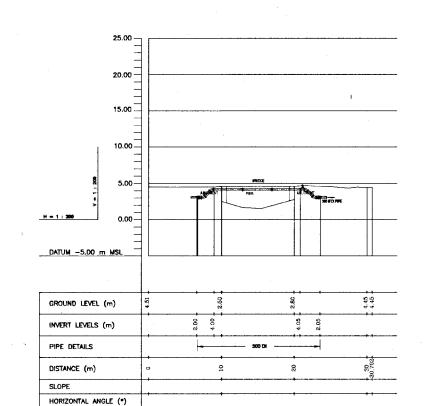


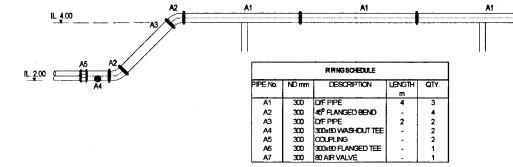
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	NEV.			DESCRIPTION	
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GE BOARD		KAWATTA		JUNCTION	
NUE WATER		ERIYAWA		JUNCTION	
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JICA)	CHECKED:	157.00 pl	~	PM (NEWISAPS) NIVEDE:	CONTRACT IN:
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	DY. TENN 1.54	leu	u	R D A J	DRG. Nec
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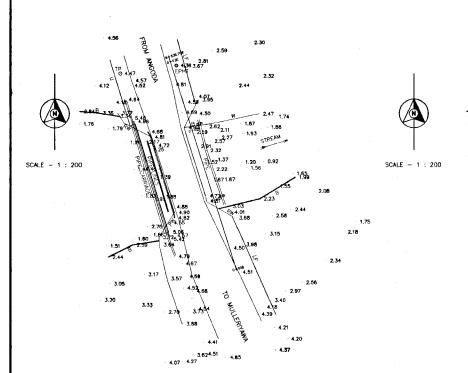
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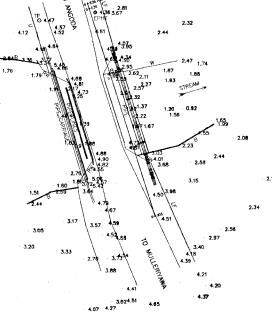


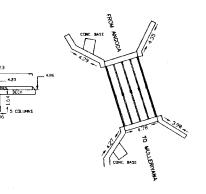






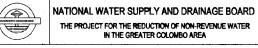
EXISTING PIPE LINE





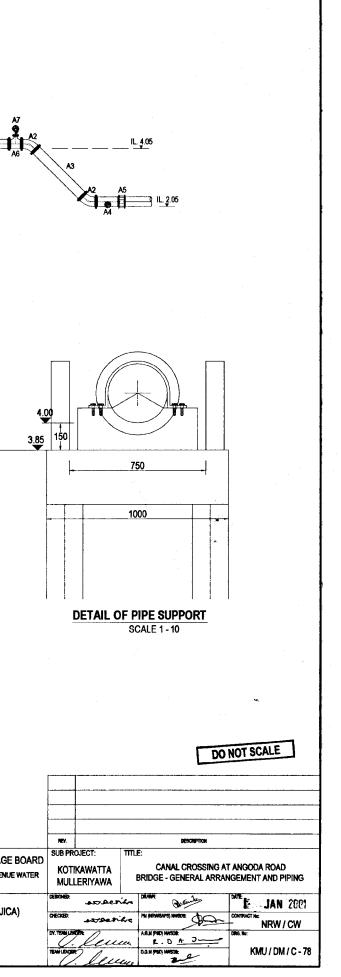
STRUCTURAL DRAWING OF BRIDGE AT ANGODA ROAD SCALE - 1 : 200

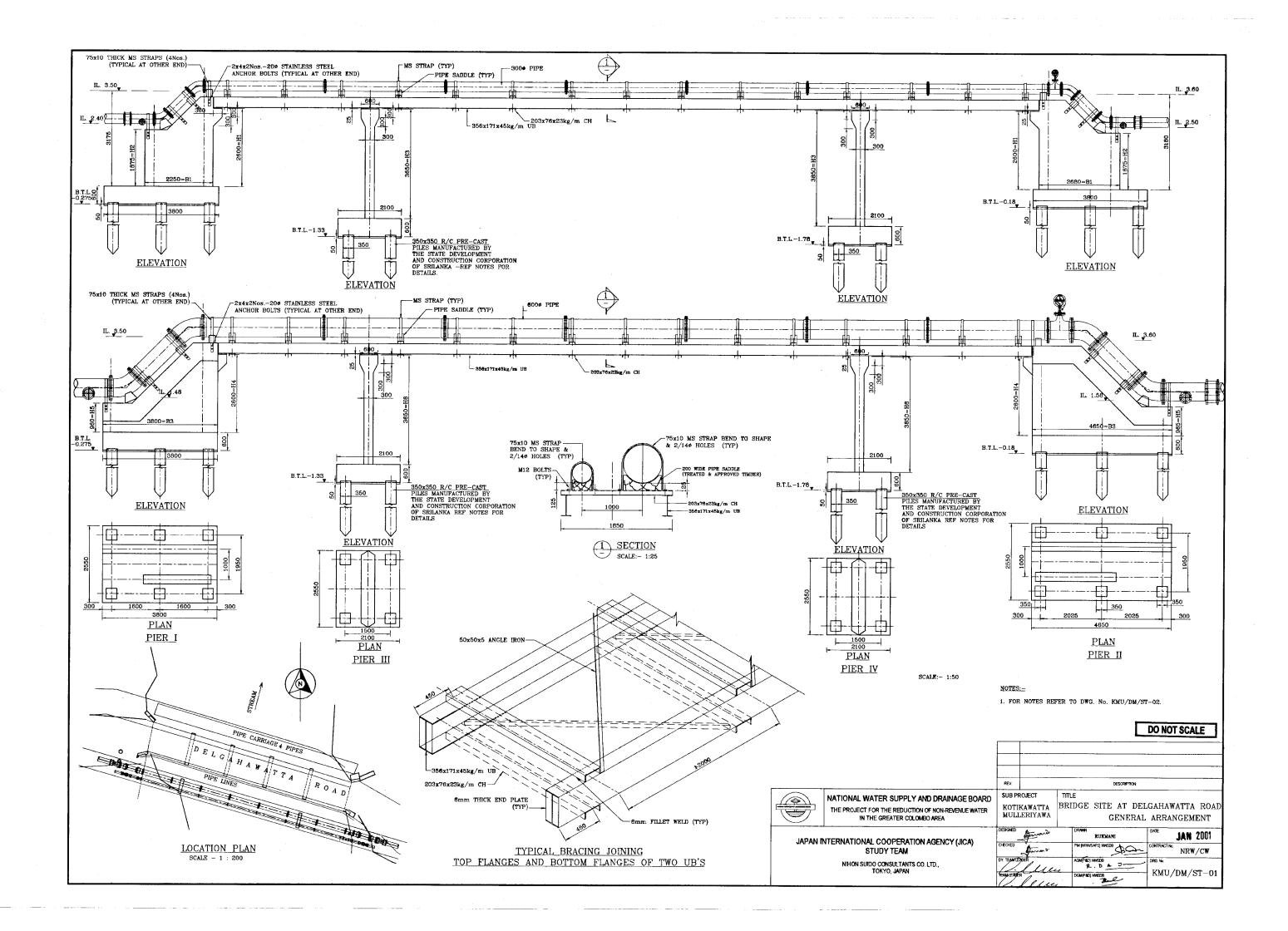
PROPOSED PIPE LINE

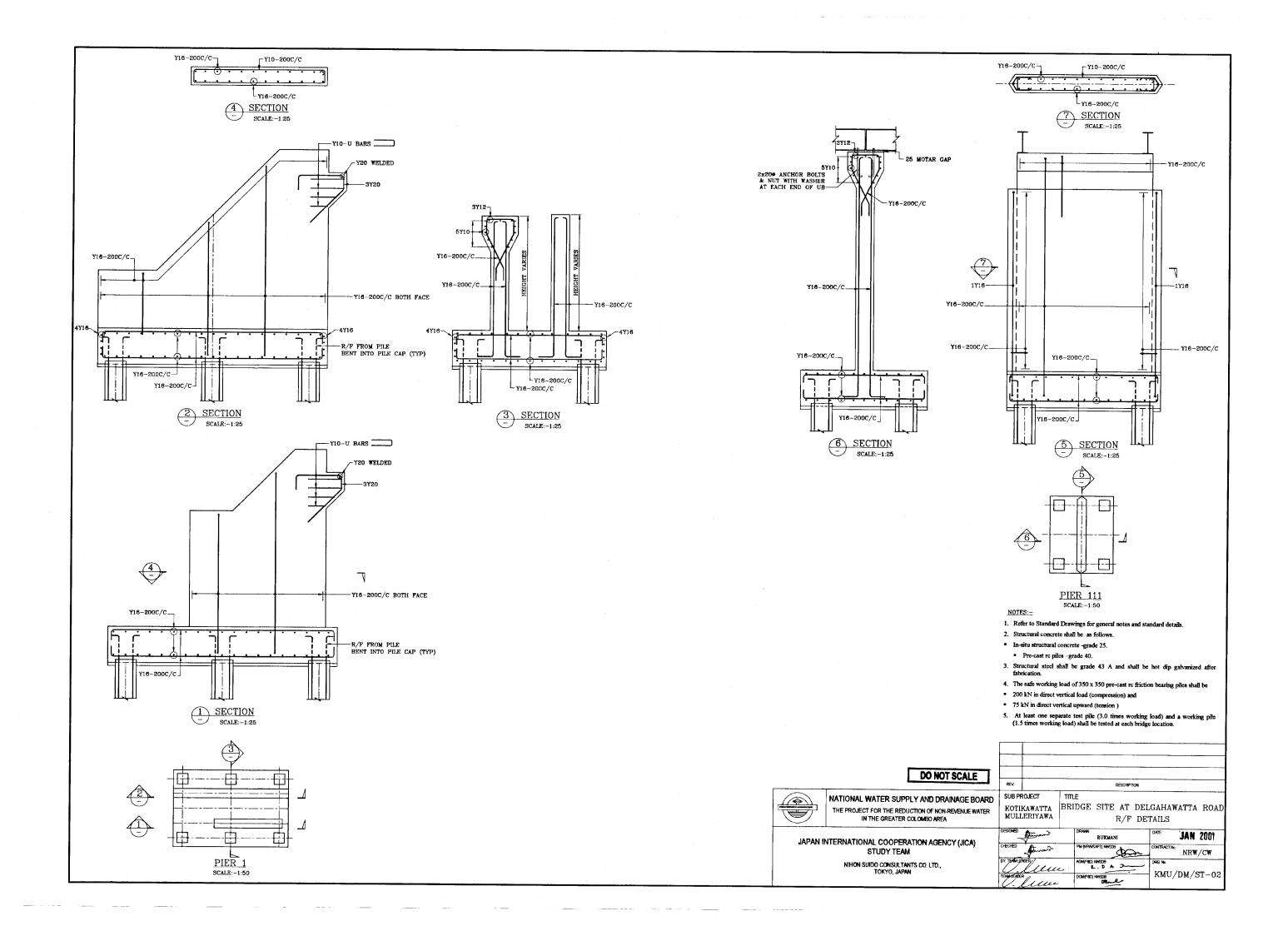


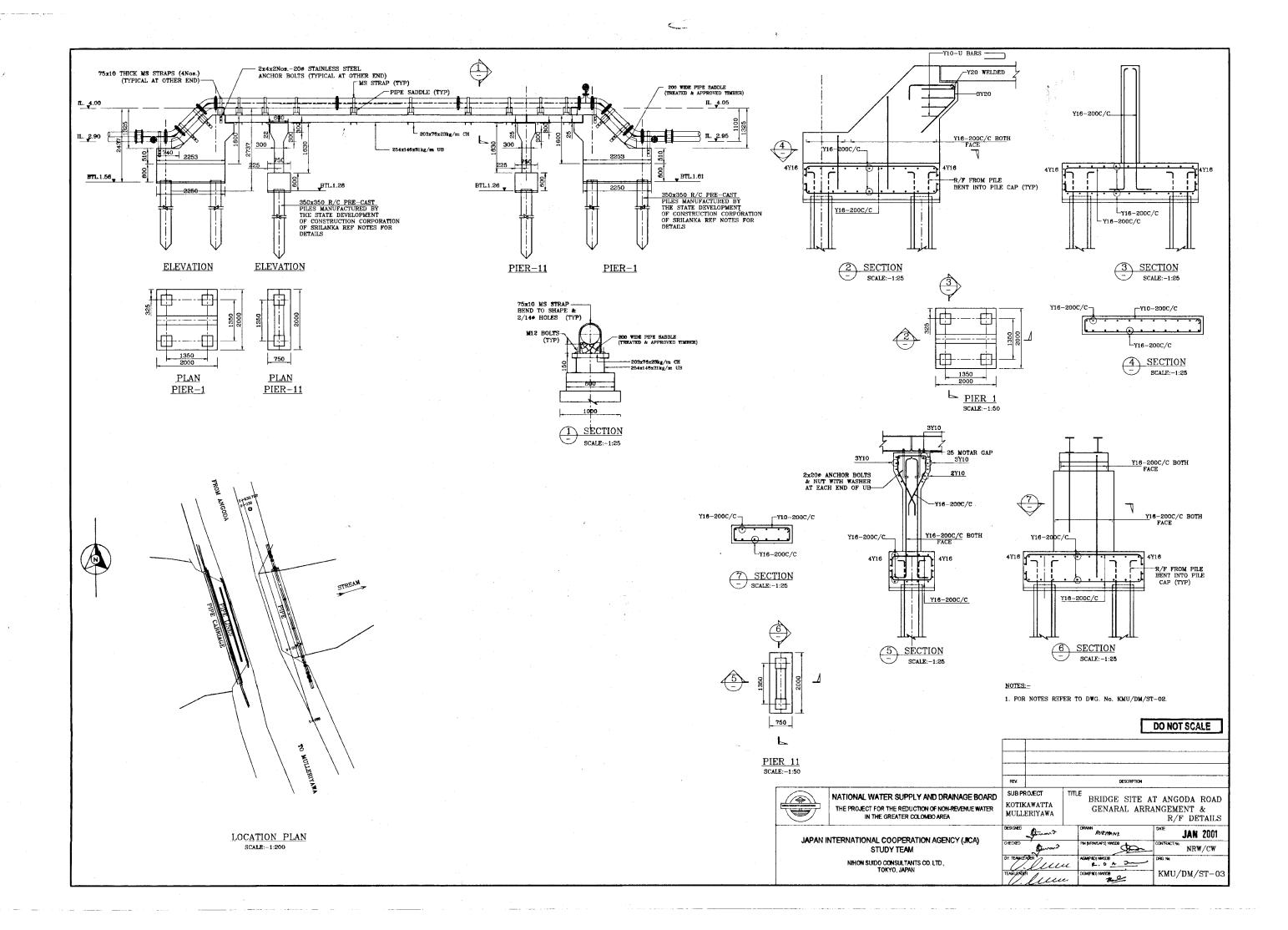
THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) STUDY TEAM NIHON SUIDO CONSULTANTS CO. LTD., TOKYO, JAPAN









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Rehabilitation of	Medium & Large Dia.	Pipe Network in CMC area Scraping and linir
Contract No.	Drawing No	Name
NRW/CW	RML/DM/RH/01	Mattakkuliya Centre Road
NRW/CW	RML/DM/RH/02	Authmawatha Road
NRW/CW	RML/DM/RH/03	Aluthmawatha Road
NRW/CW	RML/DM/RH/04	Authmawatha Road
NRW/CW	RML/DM/RH/05	St. Andrew's Road
NRW/CW	RML/DM/RH/06	Muthuwella Mawatha
NRW/CW	RML/DM/RH/07	Muthuwella Mawatha
NRW/CW	RML/DM/RH/08	Ellie House Road
NRW/CW	RML/DM/RH/09	Lawer St. Andrew's Place
NRW/CW	RML/DM/RH/10	Collage Street
NRW/CW	RML/DM/RH/11	Kotahena Street
NRW/CW	RML/DM/RH/12	George R. De Silva Mawatha
NRW/CW	RML/DM/RH/13	George R. De Silva Mawatha
NRW/CW	RML/DM/RH/14	Sumanatissa Mawatha
NRW/CW	RML/DM/RH/15	Sangaraja Mawatha
NRW/CW	RML/DM/RH/16	Panchikawatta Road
NRW/CW	RML/DM/RH/17	Grandpass Road
NRW/CW	RML/DM/RH/18	Grandpass Road
NRW/CW	RML/DM/RH/19	Galle Road
NRW/CW	RML/DM/RH/20	Galle Road
NRW/CW	RML/DM/RH/21	Galle Road
NRW/CW	RML/DM/RH/22	Galle Road
NRW/CW	RML/DW/RH/23	Galle Road
NRW/CW	RML/DM/RH/24	Gaile Road
NRW/CW	RML/DM/RH/25	Galle Road
NRW/CW	RML/DM/RH/26	Quarry Road
NRW/CW	RML/DW/RH/27	Allan Mawatha
NRW/CW	RML/DM/RH/28	Union Place
NRWCW	RML/DM/RH/29	Union Place
NRW/CW	RML/DM/RH/30	Foster Lane
NRW/CW	RML/DM/RH/31	Bridge Street
NRW/CW	RML/DM/RH/32	Sir Macan Marker Street
NRW/CW	RML/DM/RH/33	Dharmapala Mawatha
NRW/CW	RML/DM/RH/34	Dharmapala Mawatha
NRW/CW	RML/DM/RH/35	Dharmapala Mawatha
NRW/CW	RML/DM/RH/36	Elvitigala Mawatha
NRW/CW	RML/DM/RH/37	Elvitigala Mawatha
NRW/CW	RML/DM/RH/38	Kirillapone Avenue
NRW/CW	RML/DM/RH/39	Kirillapone Avenue
NRW/CW	RML/DM/RH/40	High Level Road
NRW/CW	RML/DM/RH/41	Dickman's Road
NRW/CW	RML/DM/RH/42	Dickman's Road
NRW/CW	RML/DM/RH/43	Kumarathunga Munidasa Mawatha
NRW/CW	RML/DW/RH/44	Serpentine Road
NRW/CW	RML/DM/RH/45	Havelock Road
NRW/CW	RML/DW/RH/46	Havelock Road
NRW/CW	RML/DM/RH/47	Havelock Road
NRW/CW	RML/DM/RH/48	Havelock Road
NRW/CW	RML/DM/RH/49	Havelock Road
NRW/CW	RML/DM/RH/50	
NRW/CW	RML/DM/RH/51	St. Anthony's Mawatha

LEGEND

STAND POST FIRE HYDRANT AIR VALVE CHAMBER CENTER LINE **BY PASS LINE**

Notes:

1. Plan of the existing distribution main and the junction details extract from the 1:1000 Drawings of the NWS&DB and the details at the junction should be verified at site.

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- 5.
- damage to them) For standard details refer Standard Drgs. STD/C/01-10 All existing pipes proposed for rehabilitation are cast iron pipes. The each of ten random sample pipes investigated shows that existing Medium and Large Diameter pipes are at a depth range of 0.55-1.35m and the existing small diameter pipes are at a depth range of 0.5-1.3m
- The minimum size of the by-pass should be of 200 mm in Dia. wherever possible. Cross reference to be made for Drawing Nos. Starting from RML/DM/RF, RML/DM/RF, 8. RS/DM/RP and RS/DM/RH.

NATIONAL THE PROJ

L WATER SUPPLY AND DRAINAGE BOAR JECT FOR THE REDUCTION OF NON-REVENUE WATE IN THE GREATER COLOMBO AREA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) STUDY TEAM NIHON SUIDO CONSULTANTS CO. LTD., TOKYO, JAPAN

SLUICE VALVE

SUSPECTED SLUICE VALVE

FIRE HYDRANT & SLUICE VALVE

WASHOUT VALVE

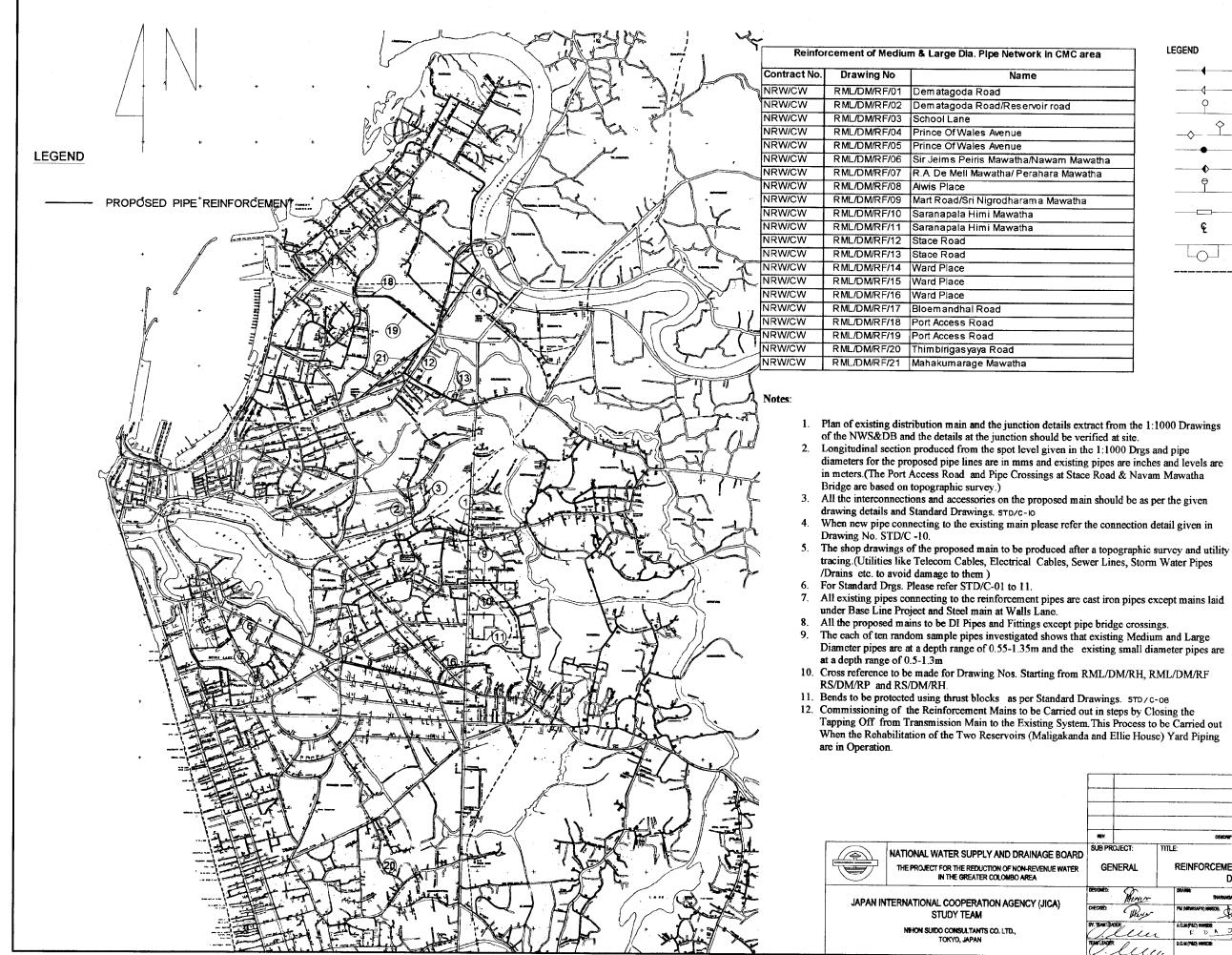
NOT MAPPED ACCURATELY

Drawings of the NWS&DB and the defaults at the junction should be verified at site.
 Longitudinal section produced from the spot levels given in the 1:1000 Drgs and pipe diameters for existing pipes are inches and levels are in meters.
 All the accessories on the mains and valves Immediately on Branch pipes proposed for scraping and lining should be replace with new accessories as per Standard Drawing No STD/C-10.
 The shop drawings of the proposed main to be produced after a utility tracing. (Utilities like Telecom Cables, Electrical Cables, Sewer Lines, Storm Water Pipes /Drains etc. to avoid demonstration of the shop drawing store in the shop drawing store in

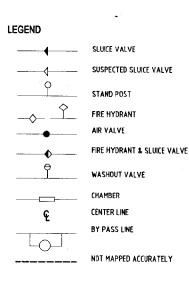
Scraping and Loing to be carried out for the sections given and Valve locations and tight bends and tees to be used as entry points of lining. The lining of the removed pieces to be carried out above ground and fix it backs with necessary coupling.

				DOMOTOGALL			
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	NEV.		DESCRIPTION				
RD	SUB PR	OJECT:	TITLE: KEY PLA	TLE: KEY PLAN			
R	GI	ENERAL	REHABILITATION OF MEDIUM & LARGE DIAMETER PIPES				
	DESIGNED:	Thorn	THARAMBA	DATE JAN. 2001			
	CHECKED:	Morry .	Phi (NRWISAPS) HWSCE:	CONTRACT No. NRW / CW			
	Dr. man Leiter		R D A 2	RML/DM/G-01			
	TEANTERDE	lu	D.G.M (PBD) NWSDB:				

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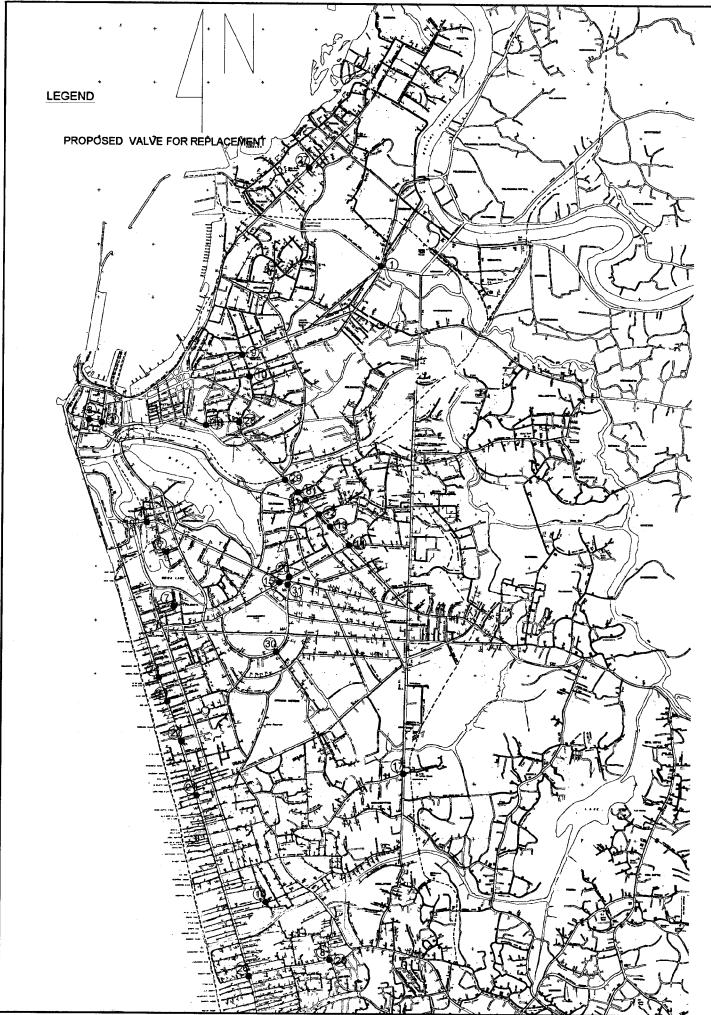


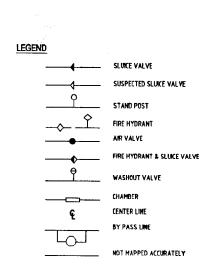
in CMC area
ir road
awam Mawatha
hara Mawatha
a Mawatha



	NEV.			DESCRIPTION		
E BOARD UE WATER		OJECT:				
CA)	DESIGNED:	Herer	DRAW	THARWAGA	DATE	JANN. 2001
	CHECKED:	Herr		NWSAPS) NWSDE:	CONTRACT No DRG. No:	NRW / CW
	TEANTLEADER	lu	D.G.W(R D <u>A D</u>		ML/DM/G - 02

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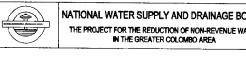
Medium / Large diameter Valves-Recommended to be replaced in CMC

Serial	Name of the Junction	Size of	T
No	Name of the Junction	Valve	İ
01	Prince of Wales Avenue/ St. Joseph's Street	10"	
02	Chatham Street / Hospital Street	10"	
03	Chatham Street / York Street (1) Along York Street	10"	DI
	(2) Along Chatham Street	10"	RN
04	Justice Akbar Mawatha/ Masjidul Jamia Road	10" >	
05	Wekanda Road / Vithanage Road	10"	1
06	Maradana Road/ Vajiragnana Mawatha	10"	
07	Muhandiramge Mawatha/ Hudson Road	10"	
08	W.A.Silva Mawatha / Havelock Road	10"	1 -
09	Mahavidyala Mawatha / Central Road	12"	1
10	Old Moor Street/ Hultsdorf Street	12"	
11	Maligakanda Road / Maradana Road	12"	
12	Anada Mawatha / Maradana Road	12"	
13	Temple Road / Maradana Road	12", 12	RM
14	Punchiborella Junction	12"	
15	Deans Road/ Dharmapala Mawatha	12"	
16	Leyards Road/ Lorenze Road	12"	
	Thimbirigasyaya Road/ E.D.Dabare Mawatha	12"	
18	Olcott Mawatha/Saunders Place	12"	
19	Justice Akbar Mawatha/ Masjidul Jamia Road	ר "12	
20	Dharmapala Mawatha/ Union Place	12" 5	RM
21	Lauris Road / Galle Road	ן "15	
22	Bagathale Road / Galle Road	15"	
23	Walukarama Road / Galle Road	15"	RM
24	Collpity Lane / Galle Road	15"	
25	W.A.Silva Mawatha / Havelock Road	15", 15"	
26	W.A.Silva Mawatha/ Galle Road	15"	
27	Aluthmawatha Road/ St. James Street	20", 20"	
28	St .Sebestian Hill / Hultsdorf Street	27"	
29	Panchikawatta Road / Darly Road	27" }	RM
30	C.W.W.Kannangara Mawatha/Independence Avenue	30"	
31	Lipton Roundabout	30"	

NOTE:

1. PLEASE REFER JUNCTION DETAILS ACCORDING TO THE SERIAL NUMBER.

2. REFER THE STANDARD VALVE DETAIL GIVEN IN STD/C-02.



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) STUDY TEAM NIHON SUIDO CONSULTANTS CO. LTD., TOKYO, JAPAN

Drawing	
No.	
L/DM/VR-01	
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L/DM/VR-02	
L/DM/VR-03	
L/DM/VR-04	
L/DM/VR-05	
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	854	· · · · · · · · · · · · · · · · · · ·				
OARD /ATER			Π	TITLE: KEY PLAN REPLACEMENT OF MEDIUM & LARGE DIAMETER VALVES		
	DESIGNED:	Mw#	1	DRAWN: Invenia	DATE	l. 2001
	CHECKGED:	(Hv1				RW / CW
	DY. TEANTEAC TEAN LEADER	lu		A.G.M (PRD) HWSDB: R.D.A.J. D.G.M. (PRD) HWSDB:	RM	L/DM/G-03