

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)  
NATIONAL RIVER CONSERVATION DIRECTORATE (NRCD)  
MINISTRY OF ENVIRONMENT AND FORESTS

**THE STUDY  
ON  
WATER QUALITY MANAGEMENT PLAN FOR  
GANGA RIVER  
IN  
THE REPUBLIC OF INDIA**

**FINAL REPORT**

**VOLUME IV FEASIBILITY STUDY FOR PROJECT CITIES**

**VOLUME VI-2 FEASIBILITY STUDY FOR KANPUR CITY  
PART VII DRAWINGS**

**JULY 2005**

**TOKYO ENGINEERING CONSULTANTS CO., LTD.  
CTI ENGINEERING INTERNATIONAL CO., LTD.**

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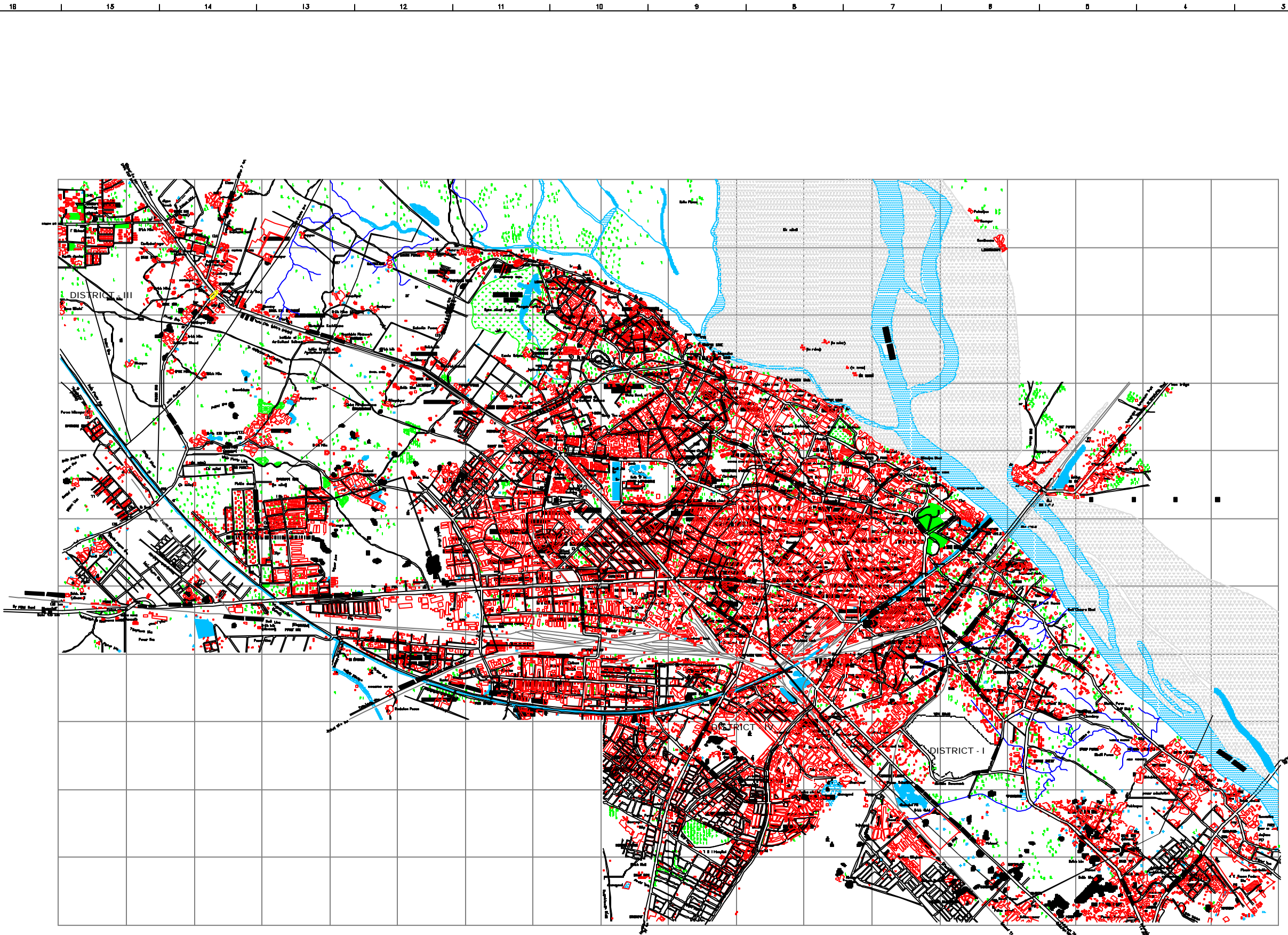
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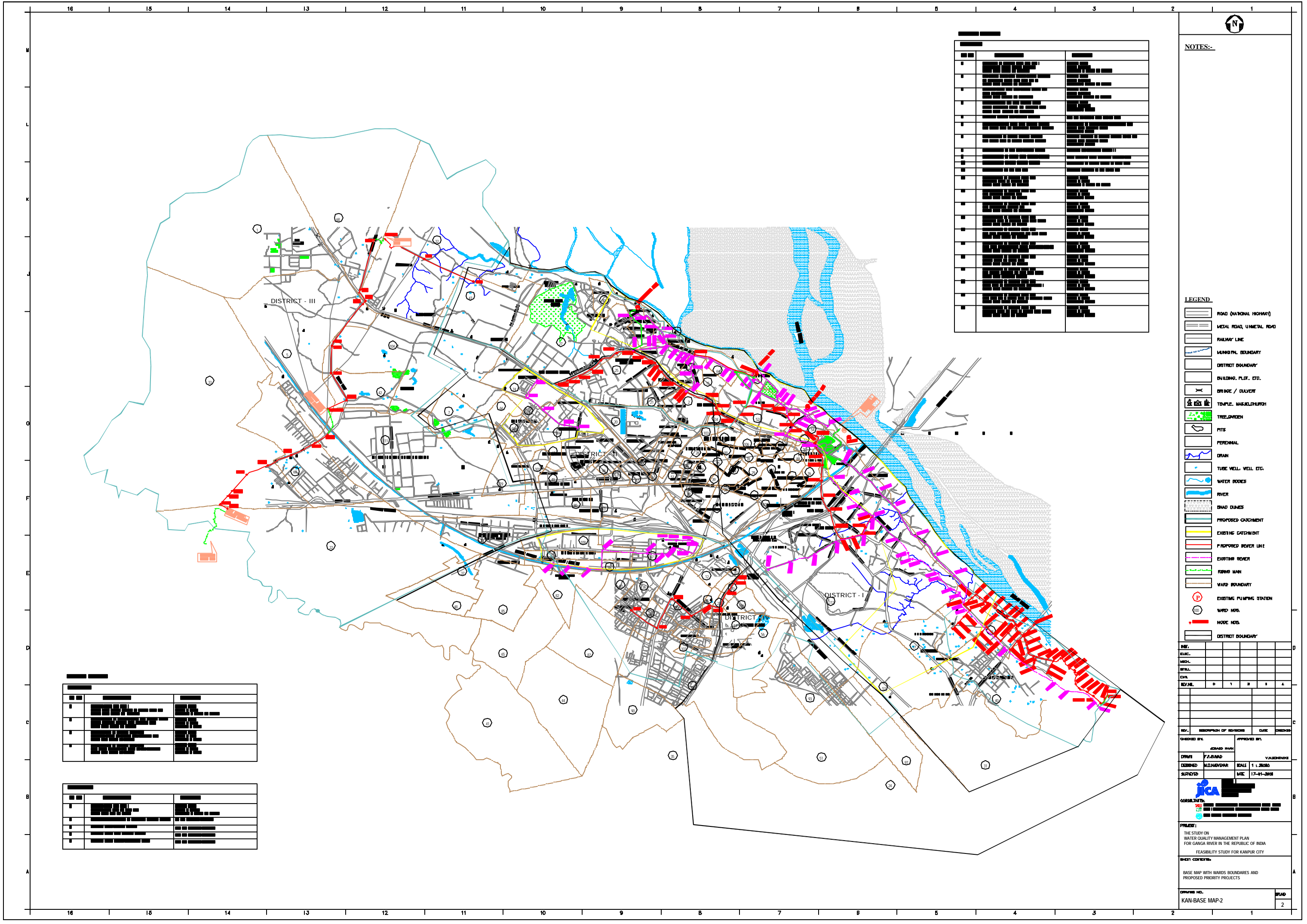
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- LEGEND**
- ROAD (NATIONAL HIGHWAY)
  - METAL ROAD, UNMETAL ROAD
  - RAILWAY LINE
  - MUNICIPAL BOUNDARY
  - DISTRICT BOUNDARY
  - BUILDING, PLOT, ETC.
  - BRIDGE / CULVERT
  - TEMPLE, MASJID, CHURCH
  - TREE GARDEN
  - PFS
  - PERSONAL
  - DRAIN
  - TUBE WELL, WELL, ETC.
  - WATER BODIES
  - RIVER
  - SAND DUNES

INTL.					
DECR.					
MECH.					
SRVA.					
CVIL.					
REF. NO.	0	1	2	3	4
NO.					
SECTION OF ADVISOR					
CHECKED BY					
APPROVED BY					
DESIGNED BY					
SCALE					
DATE	30-11-2004				
<p><b>PROJECT:</b> THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA FEASIBILITY STUDY FOR KANPUR CITY</p>					
<p><b>SHEET CONTENTS:</b> BASE MAP OF KANPUR</p>					
DATE					
NO.					
NO.					



NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	10/01/2018
2	FOR APPROVAL	10/01/2018
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38	FOR APPROVAL	10/01/2018
39	FOR APPROVAL	10/01/2018
40	FOR APPROVAL	10/01/2018

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14. THE ORIGINAL DESIGNER SHALL BE RESPONSIBLE FOR THE ARCHITECTURAL IMPACT OF THE PROJECT WORK.
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17. THE ORIGINAL DESIGNER SHALL BE RESPONSIBLE FOR THE TRANSPORTATION IMPACT OF THE PROJECT WORK.
18. THE ORIGINAL DESIGNER SHALL BE RESPONSIBLE FOR THE INFRASTRUCTURE IMPACT OF THE PROJECT WORK.
19. THE ORIGINAL DESIGNER SHALL BE RESPONSIBLE FOR THE UTILITIES IMPACT OF THE PROJECT WORK.
20. THE ORIGINAL DESIGNER SHALL BE RESPONSIBLE FOR THE SERVICES IMPACT OF THE PROJECT WORK.
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23. THE ORIGINAL DESIGNER SHALL BE RESPONSIBLE FOR THE RECREATION IMPACT OF THE PROJECT WORK.
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- LEGEND**
- ROAD (NATIONAL HIGHWAY)
  - METAL ROAD, UNMETAL ROAD
  - RAILWAY LINE
  - MUNICIPAL BOUNDARY
  - DISTRICT BOUNDARY
  - BUILDING, PLDT, ETC.
  - BRIDGE / DRAIN
  - TEMPLE, MASJID, CHURCH
  - TREELAND
  - PITS
  - PERSONAL
  - DRAIN
  - TUBE WELL, WELL, ETC.
  - WATER BODIES
  - RIVER
  - SAND DUNES
  - PROPOSED CATCHMENT
  - EXISTING CATCHMENT
  - PROPOSED SEWER LINE
  - EXISTING SEWER
  - SEWER MAN
  - WARD BOUNDARY
  - EXISTING PUMPING STATION
  - WARD NOS.
  - NODE NOS.
  - DISTRICT BOUNDARY

REV.	DESCRIPTION OF REVISION	DATE	CHKD BY

DESIGNED BY	APPROVED BY

DRAWN	F.P. RAND	SCALE	1:1,200
DESIGNED	MUNIVIPAR	DATE	17-01-2018
SURVEYED			



**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENT:**  
 BASE MAP WITH WARDS BOUNDARIES AND PROPOSED PRIORITY PROJECTS

DRAWING NO.		SHEET	2

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	10/01/2018
2	FOR APPROVAL	10/01/2018
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NOTES:-

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LEGEND

	ROAD (NATIONAL HIGHWAY)
	METAL ROAD, UNMETAL ROAD
	RAILWAY LINE
	MUNICIPAL BOUNDARY
	DISTRICT BOUNDARY
	BUILDING, PLOT, ETC.
	BRIDGE / CULVERT
	TEMPLE, MASJID, CHURCH
	TREE, GARDEN
	PITS
	PERENNIAL
	DRAIN
	TUBE WELL, WELL ETC.
	WATER BODIES
	RIVER
	SAND DUNES
	PROPOSED CATCHMENT
	EXISTING CATCHMENT
	PROPOSED SEWER LINE
	EXISTING SEWER
	ROADS MAIN
	WARD BOUNDARY
	EXISTING PUMPING STATION
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	DISTRICT II
	DISTRICT III
	DISTRICT IV
	DISTRICT BOUNDARY

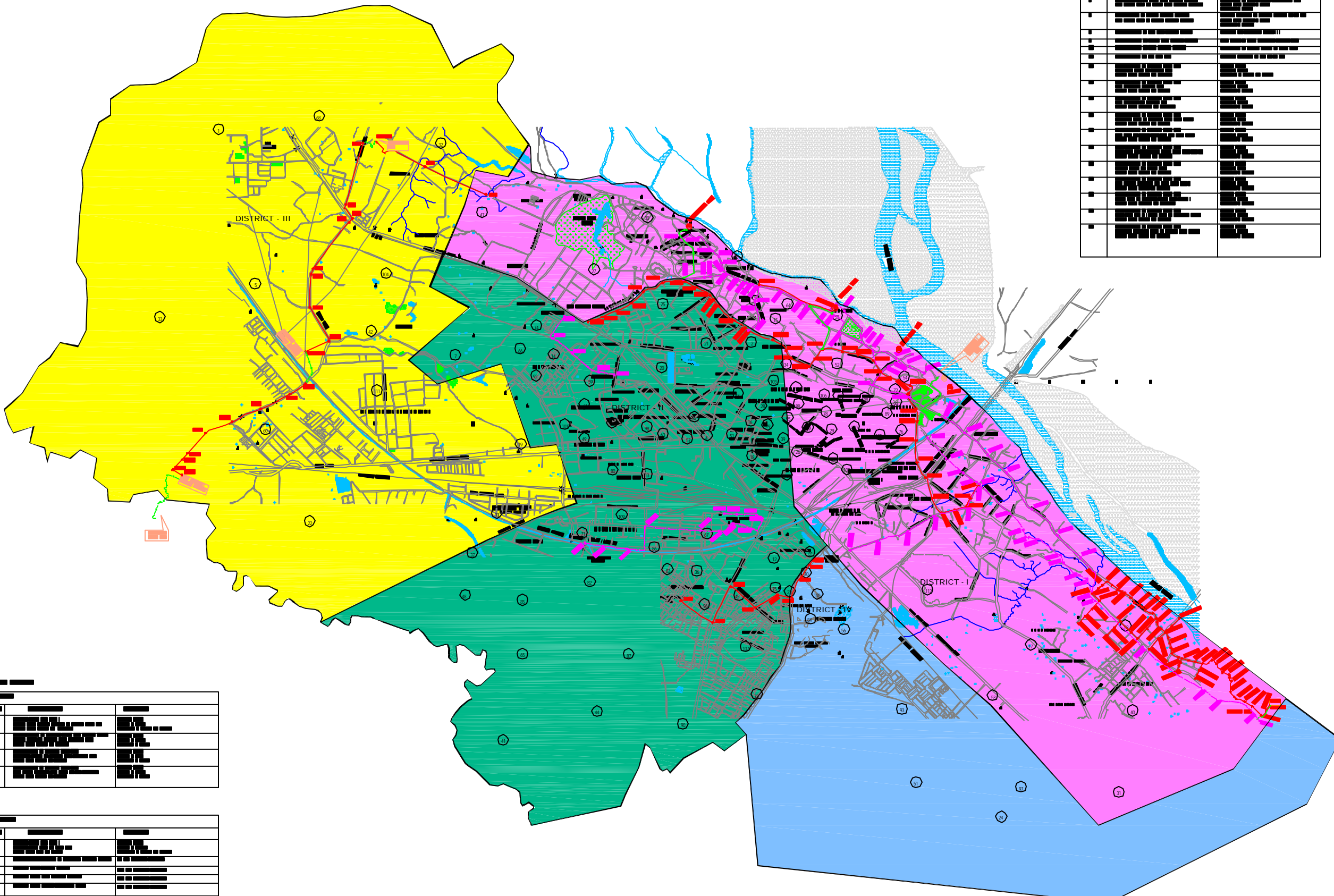
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REV/NO.	0	1	2	3	4

DESIGNED	APPROVED	DATE	DATE
BY	BY	BY	BY

PROJECT:  
THE STUDY ON  
WATER QUALITY MANAGEMENT PLAN  
FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR KANPUR CITY

BASE MAP WITH SEWERAGE ZONES

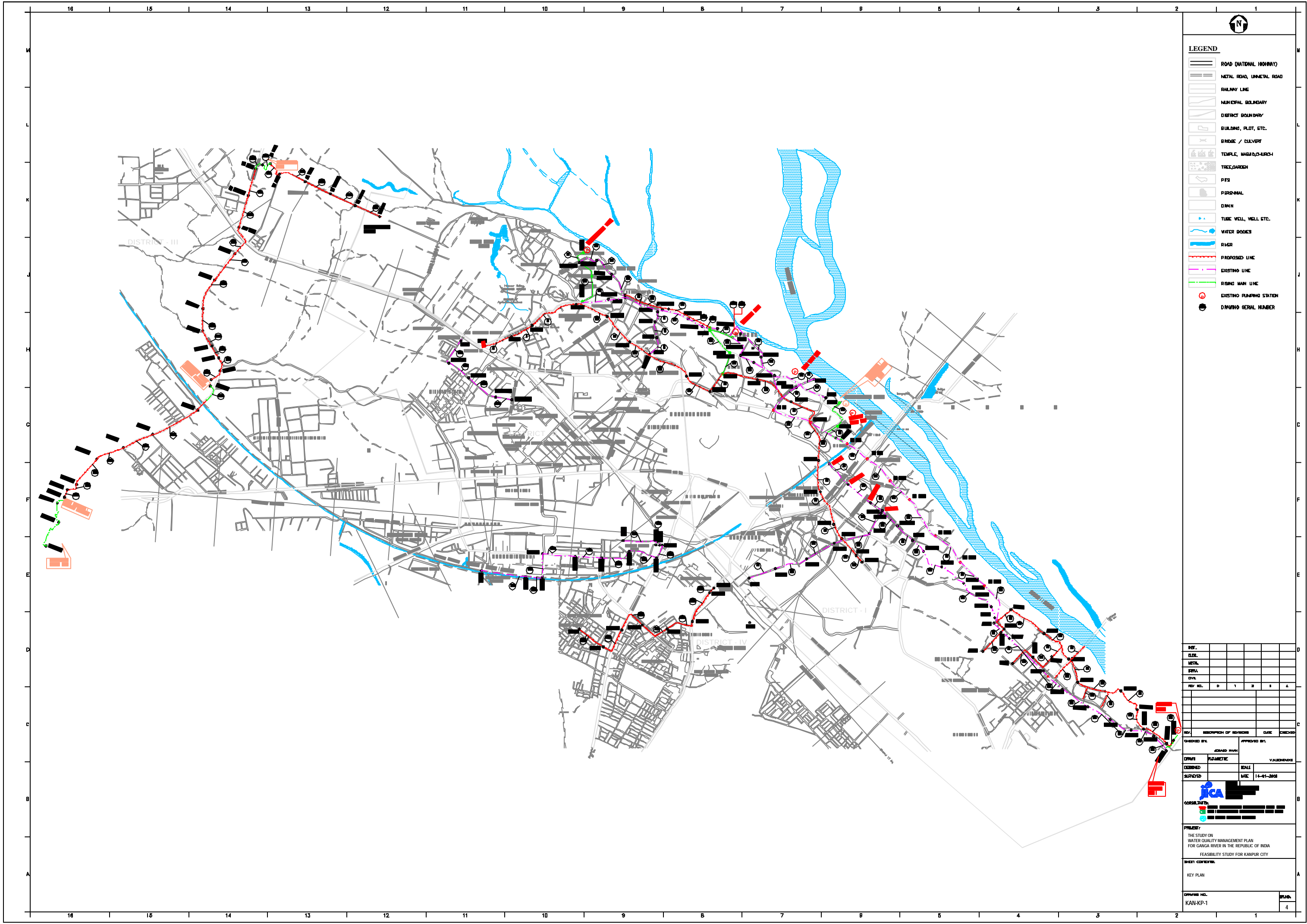
DRAWN NO.  
KAN-BASE MAP-3



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- LEGEND**
- ROAD (NATIONAL HIGHWAY)
  - METAL ROAD, UNMETAL ROAD
  - RAILWAY LINE
  - MUNICIPAL BOUNDARY
  - DISTRICT BOUNDARY
  - BUILDING, PLOT, ETC.
  - BRIDGE / CULVERT
  - TEMPLE, MADRAS, SURUSH
  - TREE, GARDEN
  - PFS
  - PERSONNEL
  - DRAIN
  - TUBE WELL, WELL ETC.
  - WATER BODIES
  - RIVER
  - PROPOSED LINE
  - EXISTING LINE
  - RISING MAIN LINE
  - EXISTING PUMPING STATION
  - DRAWING SERIAL NUMBER

REV.					
DESC.					
NO.					
DATE					
BY					

NO.	DESCRIPTION OF REVISION	DATE	CHECKED BY

DESIGNED BY	DESIGNED	SCALE
CHECKED BY	CHECKED	DATE

**CONSULTANT**

**JCA**

CONSULTANTS

**PROJECT**

THE STUDY ON  
WATER QUALITY MANAGEMENT PLAN  
FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR KANPUR CITY

**KEY PLAN**

**DRAWING NO.**  
KAN-KP-1

**SHEET NO.**  
4



**NOTE:**  
 PERMANENT BENCH MARK TAKEN FROM  
 OLD RAILWAY STATION 127.510 M.  
 ALL THE LEVELS ARE IN METERS.

**LEGEND:**

PROPOSED SEWER LINE	---
ROAD	=====
RAILWAY LINE	+++++
WIRE HOLE	o
ELECTRICAL P.M.E.	+
PLOT BOUNDARY	□
BUILDING	▭
TEMPLE / DUAVERT	⌢
ROAD DIVIDER	
MOSQUE	⌢
SPOT LEVEL	127.510
NALLA	~~~~~
TEMPORARY BENCH MARK	BM
ORDINARY MANHOLE	MH
SCRAPPER MANHOLE	SMH
VENT SHFT	VS

- REFERENCE DRAWING :**
- 1) BASE MAP WITH BEVERAGE ZONES KAN-BASE MAP-1
  - 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
  - 3) KEY PLAN KAN-KP-1
  - 4) CATCHMENT AREA FOR DISTRICT-1 KAN-CA-01-1

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ELEC.					
MECH.					
STR.					
CIVIL					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

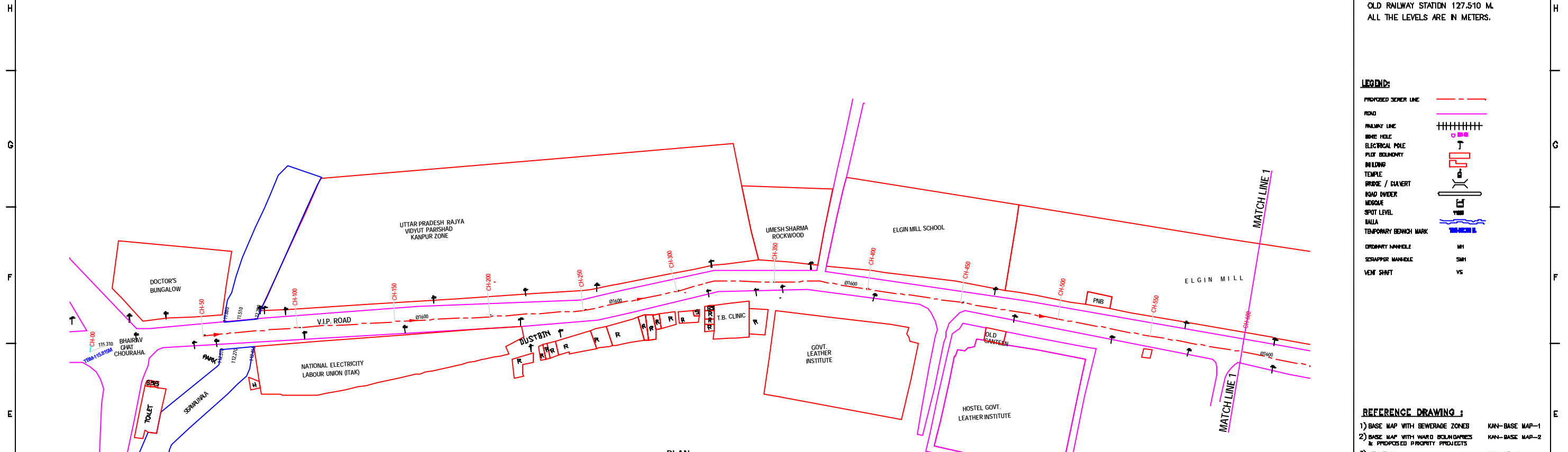
CHECKED BY:	APPROVED BY:
JOHNAED KHAN	V.N.SCHTAKKE
DRAWN	D.B.KURODKAR
DESIGNED	N.D.NACHYKAR
SURVEYED	KUMAR SURVEY
SCALE	AS SHOWN
DATE	27-12-2004

**JICA** INTERNATIONAL COOPERATION AGENCY  
 CONSULTANTS:  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 JAYEE ENGINEERING PRIVATE LIMITED

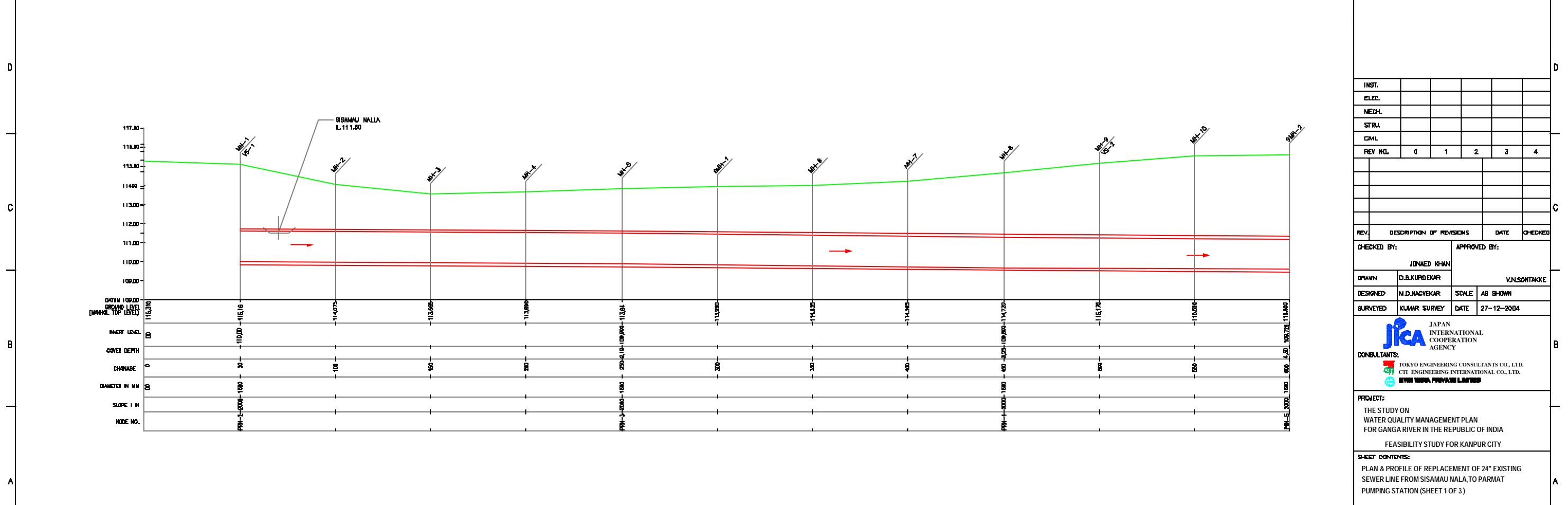
**PROJECT:**  
 THE STUDY ON  
 WATER QUALITY MANAGEMENT PLAN  
 FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN & PROFILE OF REPLACEMENT OF 24" EXISTING  
 SEWER LINE FROM SISAMAU NALLA, TO PARMAT  
 PUMPING STATION (SHEET 1 OF 3)

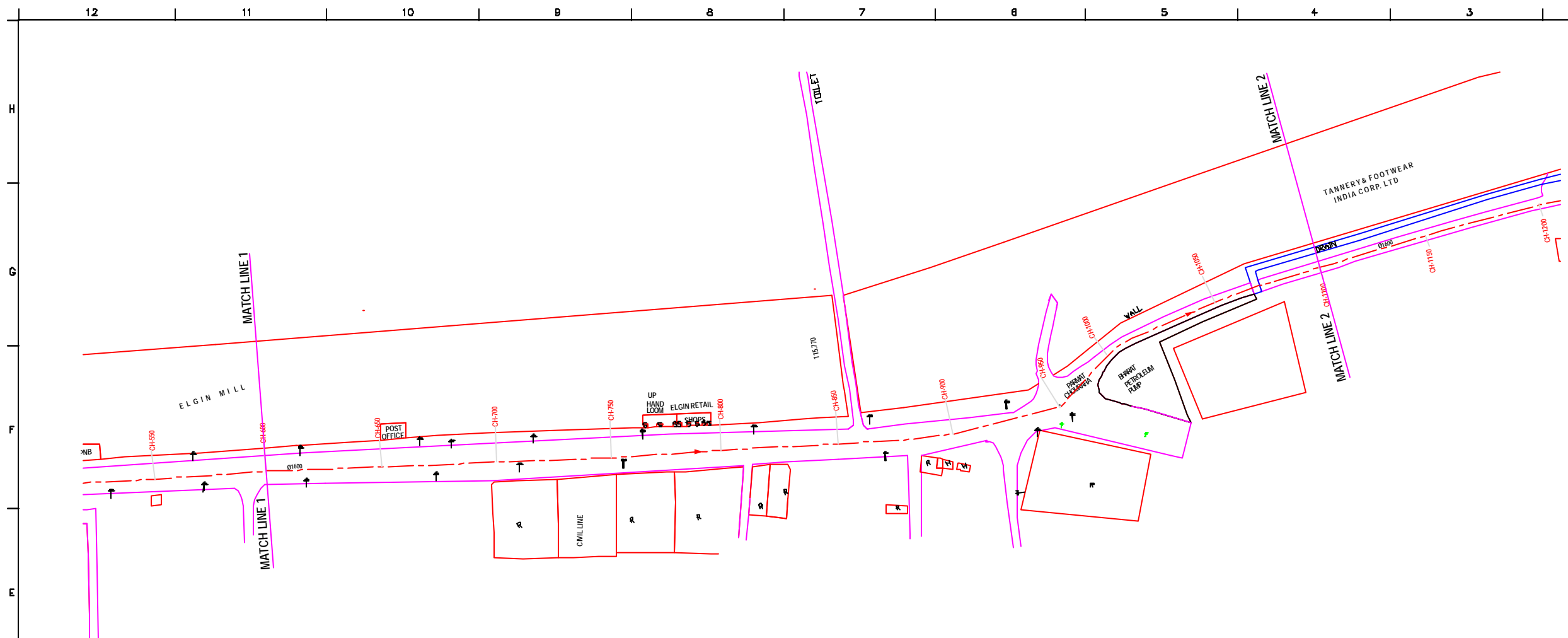
DRAWING NO.	SR. NO.
KAN-PP-SP-1	5



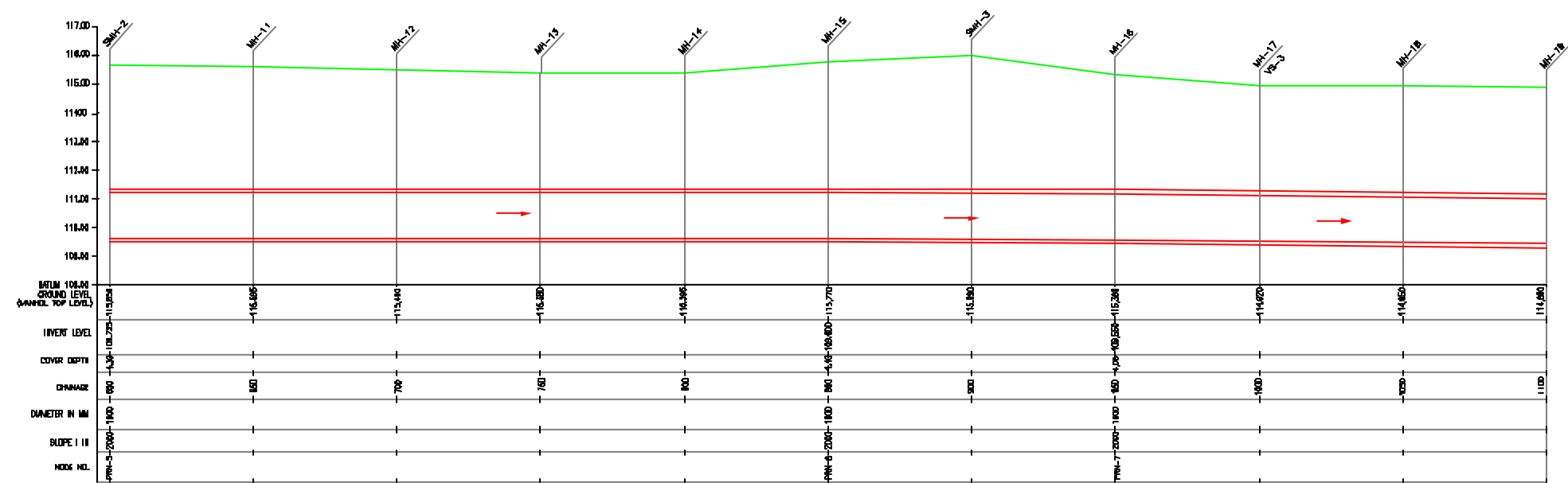
**PLAN**  
 SCALE= 1 : 1000



**L-SECTION**  
 SCALE= HOR. 1 : 1000, VER. 1 : 100



PLAN  
SCALE= 1 : 1000



L-SECTION  
SCALE= HOR. 1 : 1000, VER. 1 : 100

**NOTE:**  
PERMANENT BENCH MARK TAKEN FROM  
OLD RAILWAY STATION 127.510 M.  
ALL THE LEVELS ARE IN METERS.

**LEGEND:**

PROPOSED SEWER LINE	---
ROAD	=====
RAILWAY LINE	+++++
WIRE HOLE	o
ELECTRICAL PDE	+
PLOT BOUNDARY	□
BUILDING	▭
TEMPLE	⊕
BRIDGE / CULVERT	—(—)
ROAD DIVIDER	— —
WISSELS	⊥
SPOT LEVEL	•
NALLA	~
TEMPORARY BENCH MARK	BM
DRAINAGE MANHOLE	MH
SCRAPER MANHOLE	SMH
VENT SHFT	VS

- REFERENCE DRAWING :**
- 1) BASE MAP WITH BEVERAGE ZONES KAN-BASE MAP-1
  - 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
  - 3) KEY PLAN KAN-KP-1
  - 4) CATCHMENT AREA FOR DISTRICT-1 KAN-CA-01-1

INST.					
ELIC.					
MECH.					
STR.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

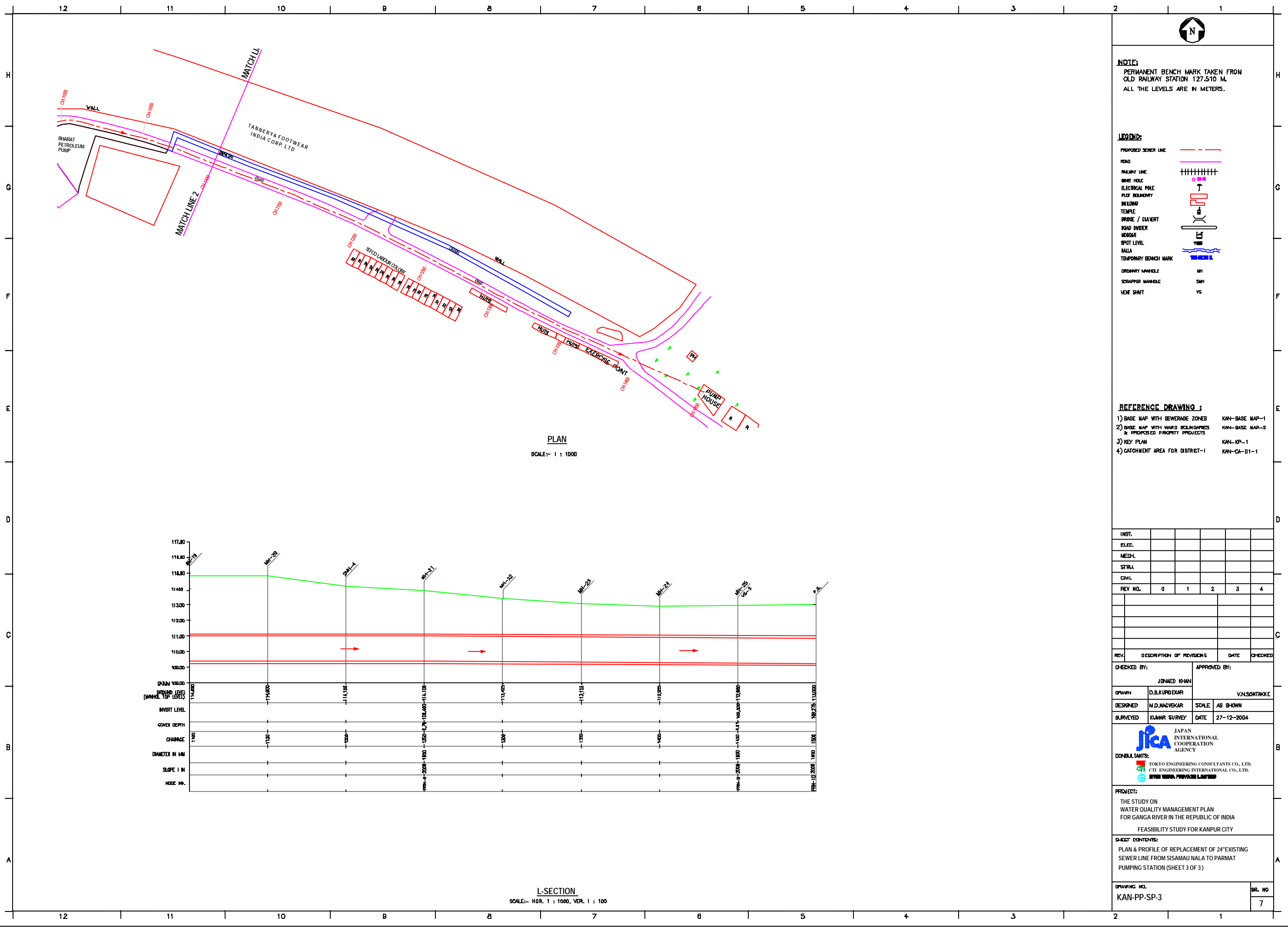
CHECKED BY:	APPROVED BY:
JOHNEED KHAN	V.N.SCHTAKKE
DRAWN	D.S.KURODKAR
DESIGNED	N.D.JAAYEKAR
SURVEYED	KUMAR SURVEY
SCALE	AS SHOWN
DATE	27-12-2004

**CONSULTANTS:**  
  
**JICA** INTERNATIONAL COOPERATION AGENCY  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CFI ENGINEERING INTERNATIONAL CO., LTD.  
 JICA INTERNATIONAL COOPERATION AGENCY

**PROJECT:**  
THE STUDY ON  
WATER QUALITY MANAGEMENT PLAN  
FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
PLAN & PROFILE OF REPLACEMENT OF 24" EXISTING  
SEWER LINE FROM SISAMAU NALLA TO PARMAT  
PUMPING STATION (SHEET 2 OF 3)

DRAWING NO.	SR. NO.
KAN-PP-SP-2	6



**NOTE:**  
 PERMANENT BENCH MARK TAKEN FROM  
 OLD RAILWAY STATION 127.510 M.  
 ALL THE LEVELS ARE IN METERS.

**LEGEND:**

PROPOSED SEWER LINE	---
ROAD	—+—+—+—+—+—+—+—+—+—
RAILWAY LINE	
PIPE HOLE	○
ELECTRICAL POLE	⊥
PLOT BOUNDARY	—+—+—+—+—+—+—+—+—+—
BUILDING	□
TEMPLE	⊥
BRIDGE / CULVERT	—+—+—+—+—+—+—+—+—+—
ROAD DIVIDER	—+—+—+—+—+—+—+—+—+—
MOSSLE	—+—+—+—+—+—+—+—+—+—
SPOT LEVEL	▽
NALLA	—+—+—+—+—+—+—+—+—+—
TEMPORARY BENCH MARK	—+—+—+—+—+—+—+—+—+—
ORDINARY MANHOLE	MH
SCRAPER MANHOLE	SMH
VENT SHAFT	VS

- REFERENCE DRAWING :**
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  - 3) KEY PLAN KAN-KP-1
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INST.					
ELEC.					
MECH.					
STRA.					
CIVIL					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY:	APPROVED BY:
JOHNAED KHAN	V.N.SANTAKKE
DRAWN	D.S.KURODKAR
DESIGNED	N.D.NACHBEKAR
BURVEYED	KUMAR SURVEY
SCALE	AS SHOWN
DATE	27-12-2004

**CONSULTANTS:**

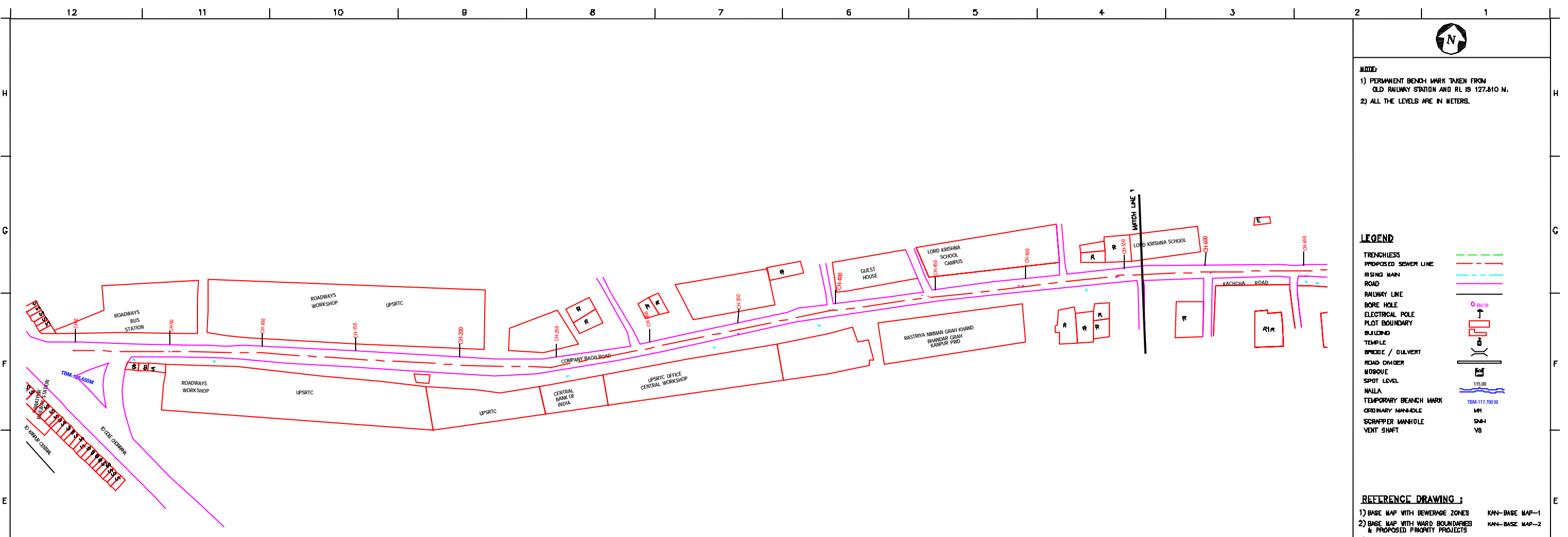
**JICA** INTERNATIONAL COOPERATION AGENCY

TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 JAYESH PRAKASHI ENGINEERING

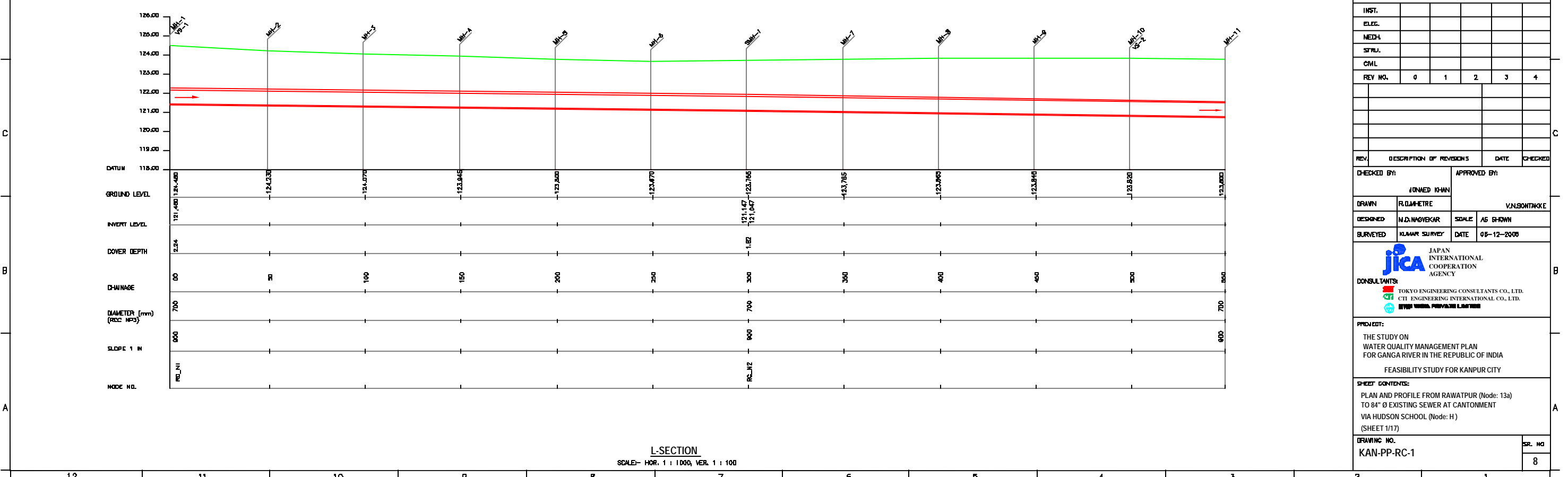
**PROJECT:**  
 THE STUDY ON  
 WATER QUALITY MANAGEMENT PLAN  
 FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN & PROFILE OF REPLACEMENT OF 24" EXISTING  
 SEWER LINE FROM SISAMAU NALLA TO PARMAT  
 PUMPING STATION (SHEET 3 OF 3)

DRAWING NO.	SR. NO.
KAN-PP-SP-3	7



PLAN  
SCALE= 1 : 1000



L-SECTION  
SCALE= HOR. 1 : 1000, VER. 1 : 100

NOTE:  
1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.610 M.  
2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS PROPOSED SEWER LINE	
RISING MAIN ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
MSDOUE	
SPOT LEVEL	
WALLA	
TEMPORARY BENCH MARK	
ORDINARY MANHOLE	
SCAFFER MANHOLE	
VENT SHAFT	

**REFERENCE DRAWING :**  
1) BASE MAP WITH BEWERAGE ZONES KAN-BASE MAP-1  
2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2  
3) KEY PLAN KAN-KP-1  
4) DATCHMENT AREA FOR DISTRICT-1 KAN-CA-01-1

INST.					
ELEC.					
MECH.					
STRU.					
CIVIL					
REV. NO.	0	1	2	3	4

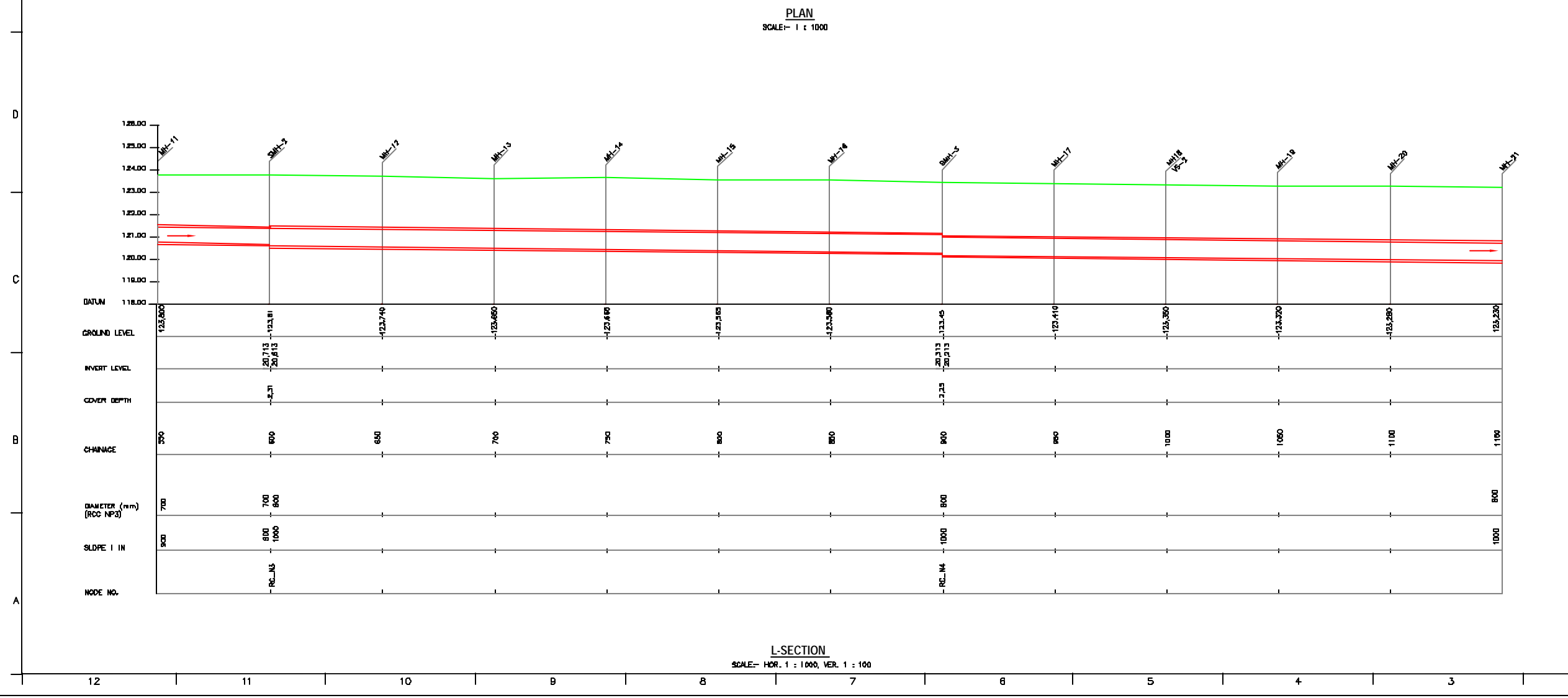
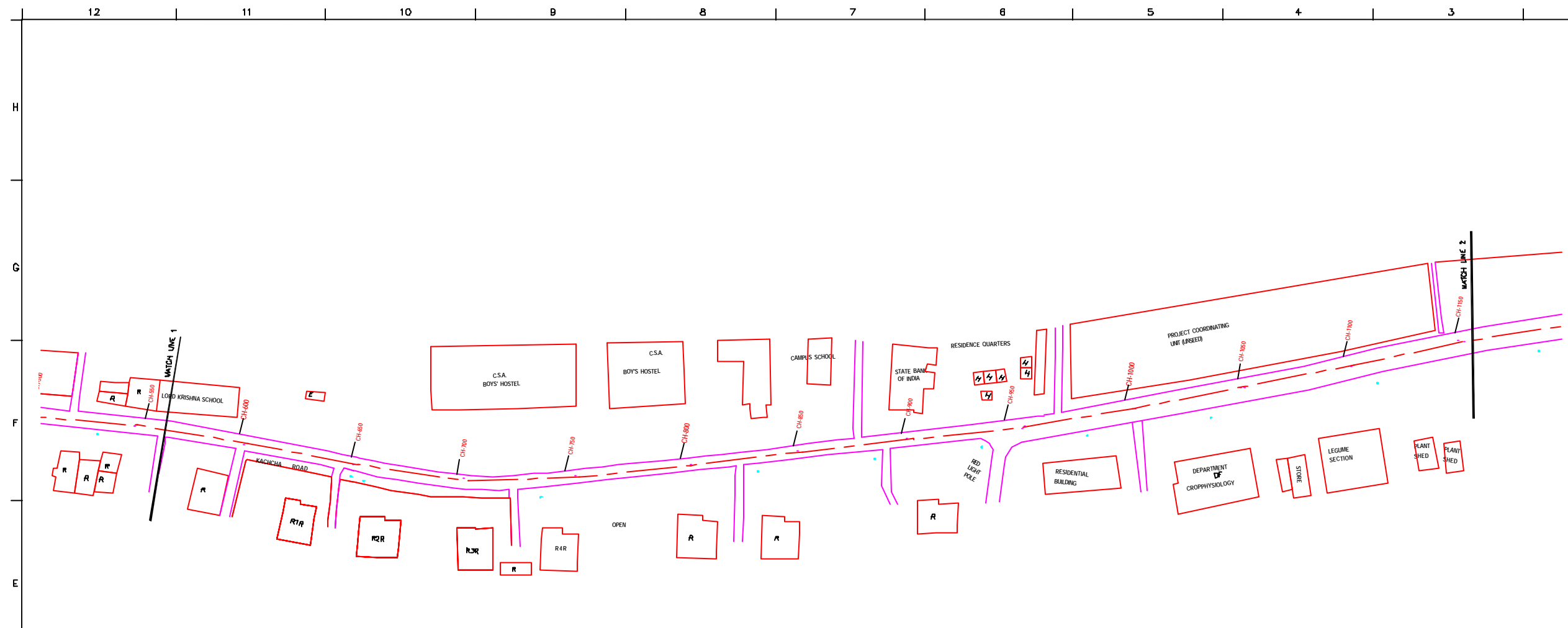
CHECKED BY:	APPROVED BY:
JONMED KHAN	V.N.SONTAKKE
DRAWN	SCALE
R.D. MATHRE	AS SHOWN
DESIGNED	DATE
N.D. NAVVEKAR	05-12-2008

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 JETP CONSULTING PRIVATE LIMITED

**PROJECT:**  
THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
PLAN AND PROFILE FROM RAWATPUR (Node: 13a) TO 84" Ø EXISTING SEWER AT CANTONMENT VIA HUDSON SCHOOL (Node: H)  
(SHEET 1/17)

DRAWING NO.	SR. NO.
KAN-PP-RC-1	8



**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
 2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS PROPOSED SEWER LINE	
RISING MAIN ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
MDSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	
ORDINARY MANHOLE	
SCRAPPER MANHOLE	
VENT SHAFT	

**REFERENCE DRAWING :**

1) BASE MAP WITH BEWERAGE ZONES	KAN-BASE MAP-1
2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS	KAN-BASE MAP-2
3) KEY PLAN	KAN-KP-1
4) CATCHMENT AREA FOR DISTRICT-1	KAN-CA-01-1

INST.					
ELEC.					
MECH.					
STRA.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

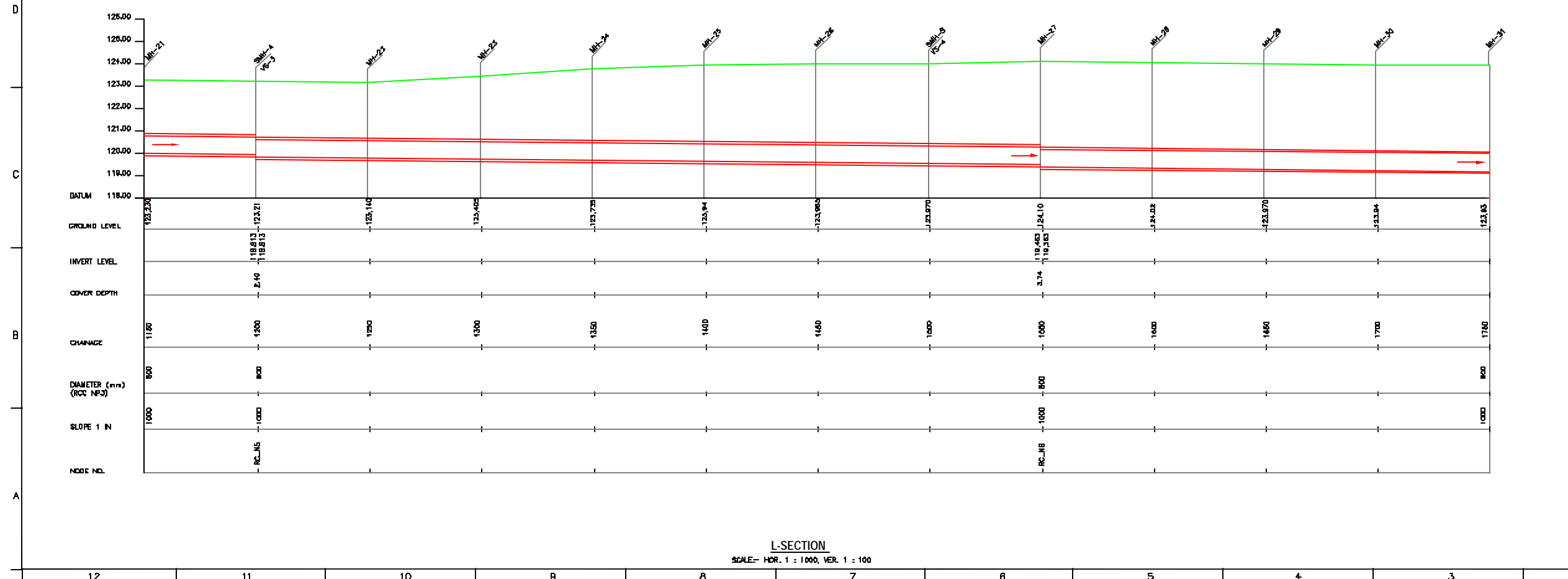
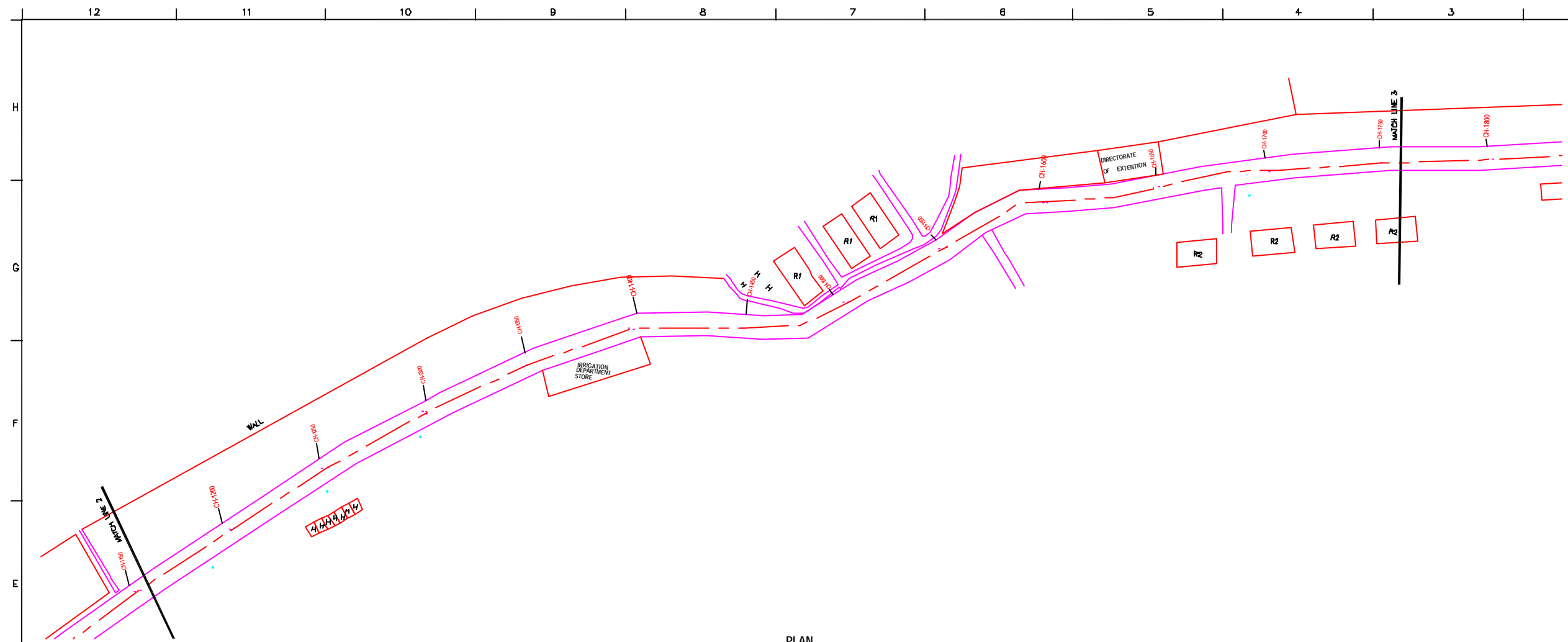
CHECKED BY:	APPROVED BY:
JOHNAED KHAN	V.N.SONTAKKE
DRAWN: R.D.METRE	SCALE: AS SHOWN
DESIGNED: M.D.NAYEKAR	DATE: 05-12-2005
SURVEYED: KUMAR SURVEY	

**JICA** INTERNATIONAL COOPERATION AGENCY  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 JAYESH VARMA PRIVATE LIMITED

**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE FROM RAWATPUR (Node: 13a) TO 84" Ø EXISTING SEWER AT CANTONMENT VIA HUDSON SCHOOL (Node: H) (SHEET 2/17)

DRAWING NO.	SR. NO.
KAN-PP-RC-2	9



**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
 2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS PROPOSED SEWER LINE	
RING MAIN ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
MOSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	
ORDINARY MANHOLE	
SCRAPER MANHOLE	
VENT SHAFT	

**REFERENCE DRAWING :**  
 1) BASE MAP WITH BEWERAGE ZONES KAN-BASE MAP-1  
 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2  
 3) KEY PLAN KAN-KP-1  
 4) CATCHMENT AREA FOR DISTRICT-1 KAN-CA-01-1

INST.					
ELIC.					
MECH.					
STRA.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY: **JOHNAED KHAN**  
 APPROVED BY: **V.N.SONTAKKE**

DRAWN: **R.D.METRE**  
 DESIGNED: **M.D.NAGYEKAR**  
 SURVEYED: **KUMAR SURVEY**

SCALE: **AS SHOWN**  
 DATE: **05-12-2005**

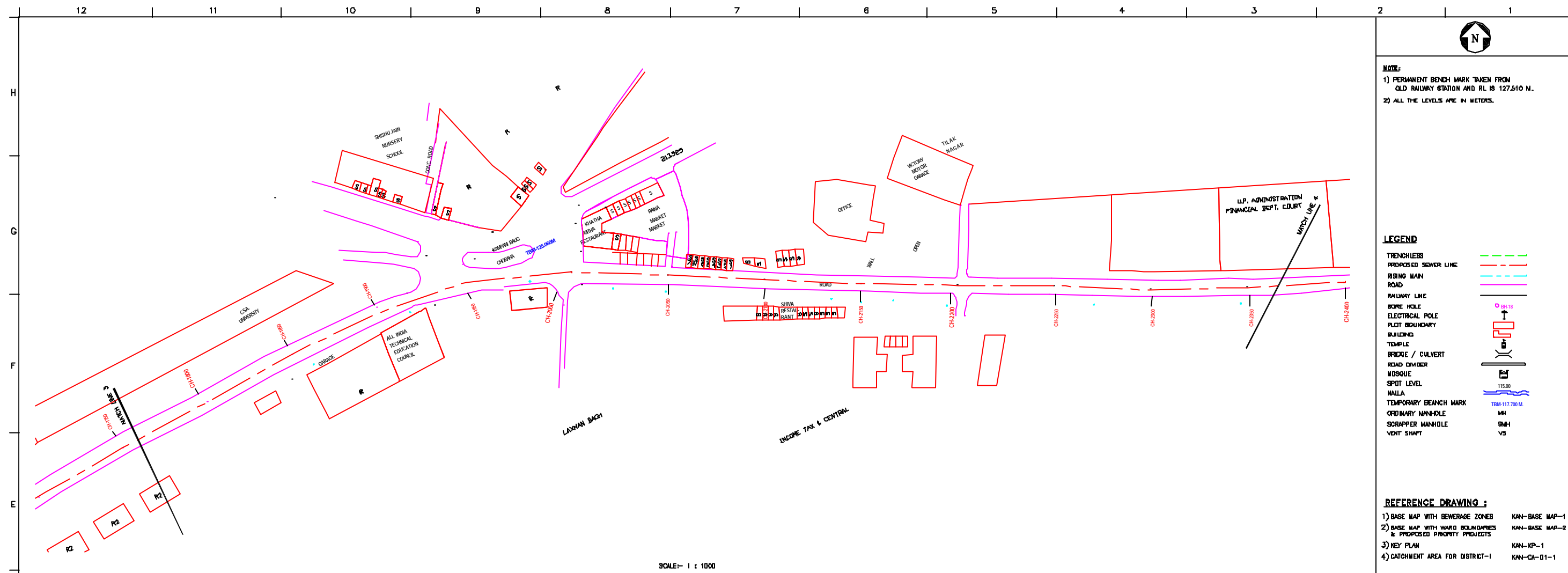
**JICA** INTERNATIONAL COOPERATION AGENCY  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SHYAM SUDAN PRAKASHI LIMITED

PROJECT:  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

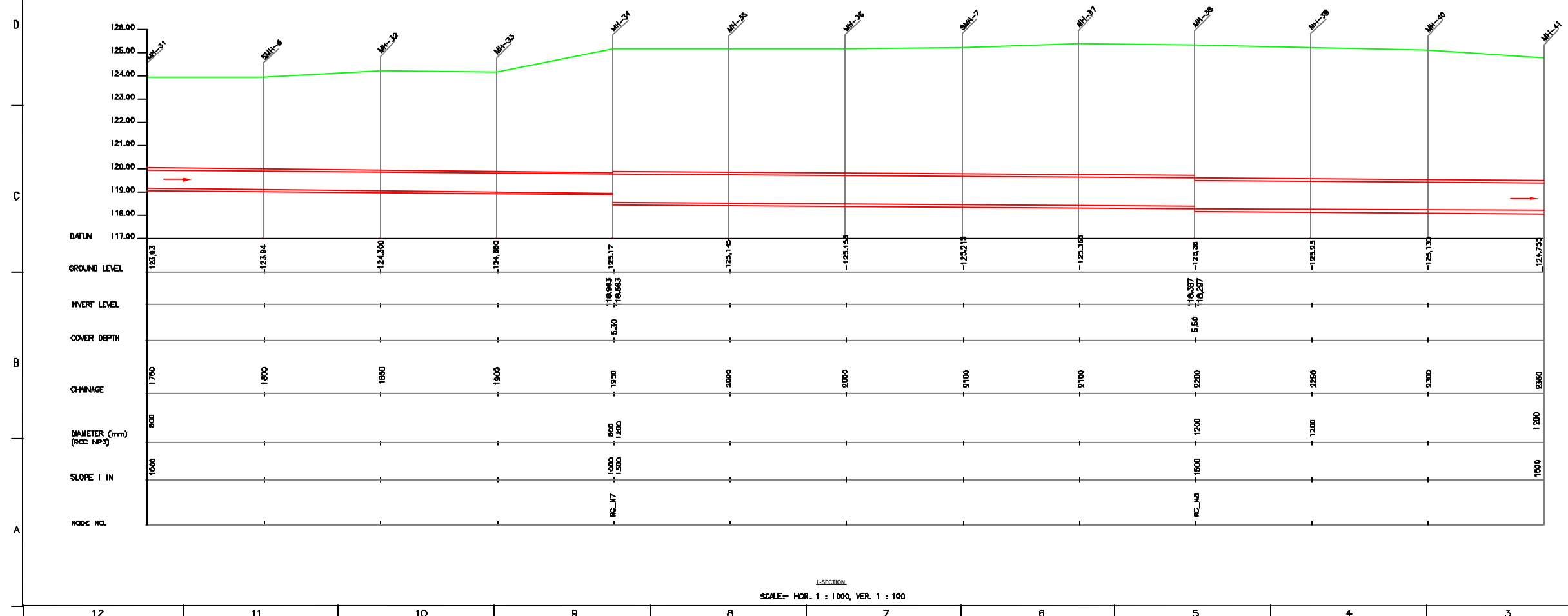
SHEET CONTENTS:  
 PLAN AND PROFILE FROM RAWATPUR (Node: 13a) TO 84" Ø EXISTING SEWER AT CANTONMENT VIA HUDSON SCHOOL (Node: H) (SHEET 3/17)

DRAWING NO. **KAN-PP-RC-3**  
 SR. NO. **10**





SCALE- 1 : 1000



SCALE- HOR. 1 : 1000, VER. 1 : 100

**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
 2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

- TRENCHLESS PROPOSED SEWER LINE
- RISING MAIN
- ROAD
- RAILWAY LINE
- BORE HOLE
- ELECTRICAL POLE
- PLOT BOUNDARY
- BUILDING
- TEMPLE
- BRIDGE / CULVERT
- ROAD DIVIDER
- MOSQUE
- SPOT LEVEL
- NALLA
- TEMPORARY BENCH MARK
- ORDINARY MANHOLE
- SCRAPER MANHOLE
- VENT SHAFT

**REFERENCE DRAWING :**

- 1) BASE MAP WITH BEWERAGE ZONES KAN-BASE MAP-1
- 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
- 3) KEY PLAN KAN-KP-1
- 4) CATCHMENT AREA FOR DISTRICT-1 KAN-CA-01-1

INST.					
ELEC.					
MECH.					
STRA.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY: JOHNAED KHAN  
 APPROVED BY: V.N.SONTAKKE

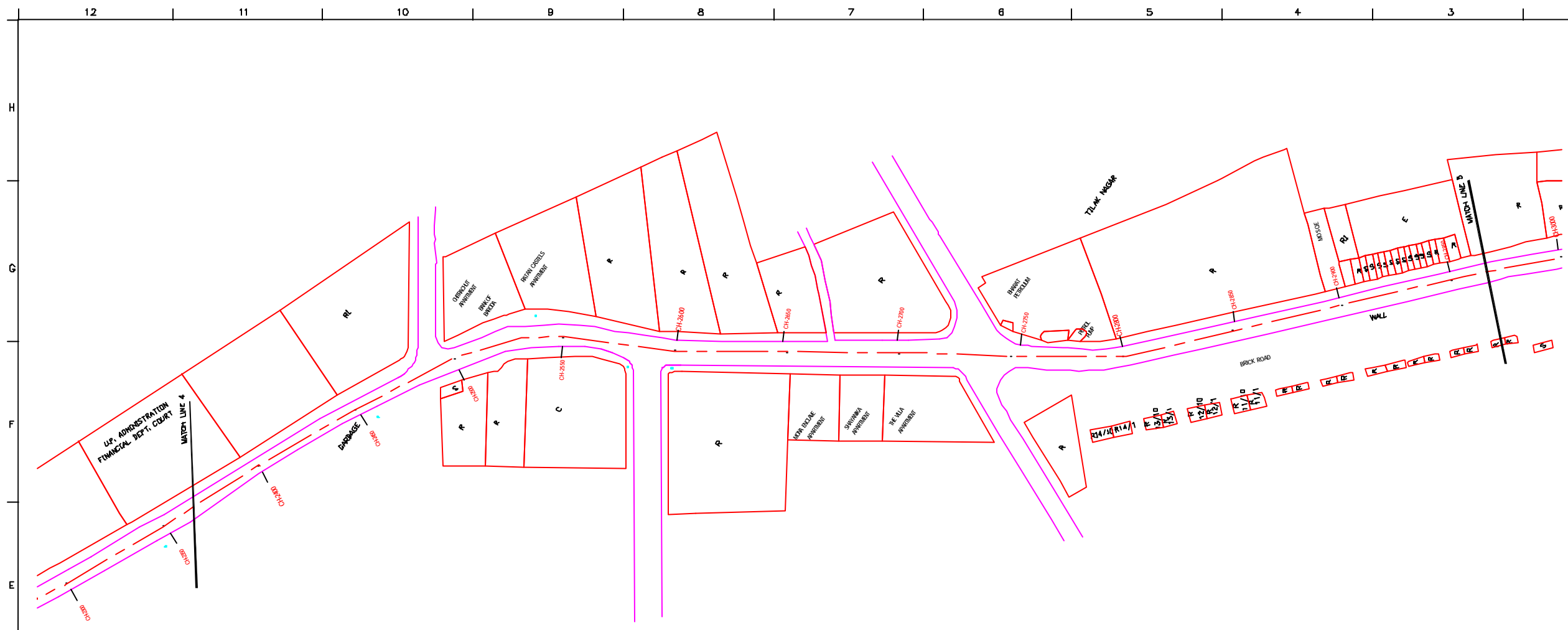
DRAWN: R.D.METRE  
 DESIGNED: N.D.JAYEKAR  
 SURVEYED: KUMAR SURVEY  
 SCALE: AS SHOWN  
 DATE: 05-12-2005

**JICA** INTERNATIONAL COOPERATION AGENCY  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 C.T.I. ENGINEERING INTERNATIONAL CO., LTD.  
 SHYAM SUDAN PRAKASHI LIMITED

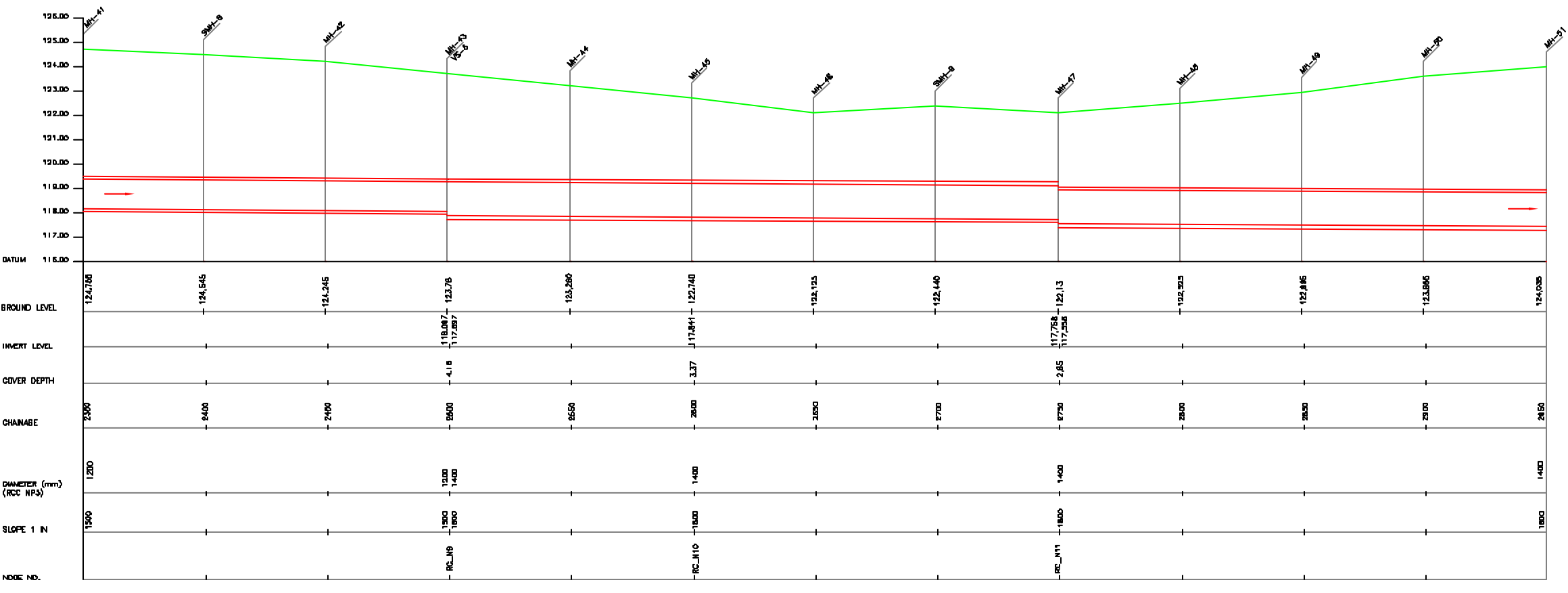
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE FROM RAWATPUR (Node: 13a) TO 84" Ø EXISTING SEWER AT CANTONMENT VIA HUDSON SCHOOL (Node: H) (SHEET 4/17)

DRAWING NO. KAN-PP-RC-4  
 SR. NO. 11



PLAN  
SCALE= 1 : 1000



L-SECTION  
SCALE= HOR. 1 : 1000, VER. 1 : 100



NOTE:  
1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
2) ALL THE LEVELS ARE IN METERS.

LEGEND

- TRENCHLESS PROPOSED SEWER LINE
- RISING MAIN ROAD
- RAILWAY LINE
- BONE HOLE
- ELECTRICAL POLE
- PLOT BOUNDARY
- BUILDING
- TEMPLE
- BRIDGE / CULVERT
- ROAD DIVIDER
- MOSQUE
- SPOT LEVEL
- NALLA
- TEMPORARY BENCH MARK
- ORDINARY MANHOLE
- SCRAPER MANHOLE
- VENT SHAFT

REFERENCE DRAWING :

- 1) BASE MAP WITH BEWERAGE ZONES KAN-BASE MAP-1
- 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
- 3) KEY PLAN KAN-KP-1
- 4) CATCHMENT AREA FOR DISTRICT-1 KAN-CA-01-1

INST.					
ELIC.					
MECH.					
STRA.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED
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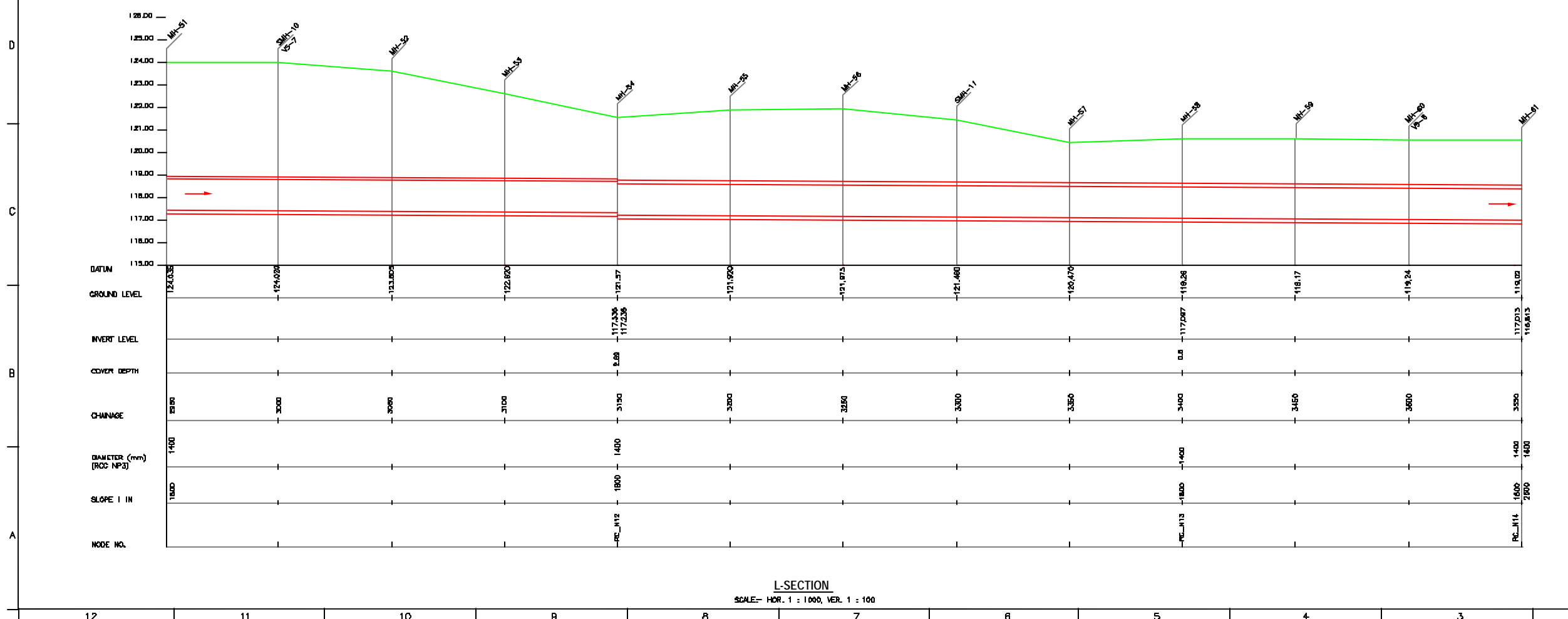
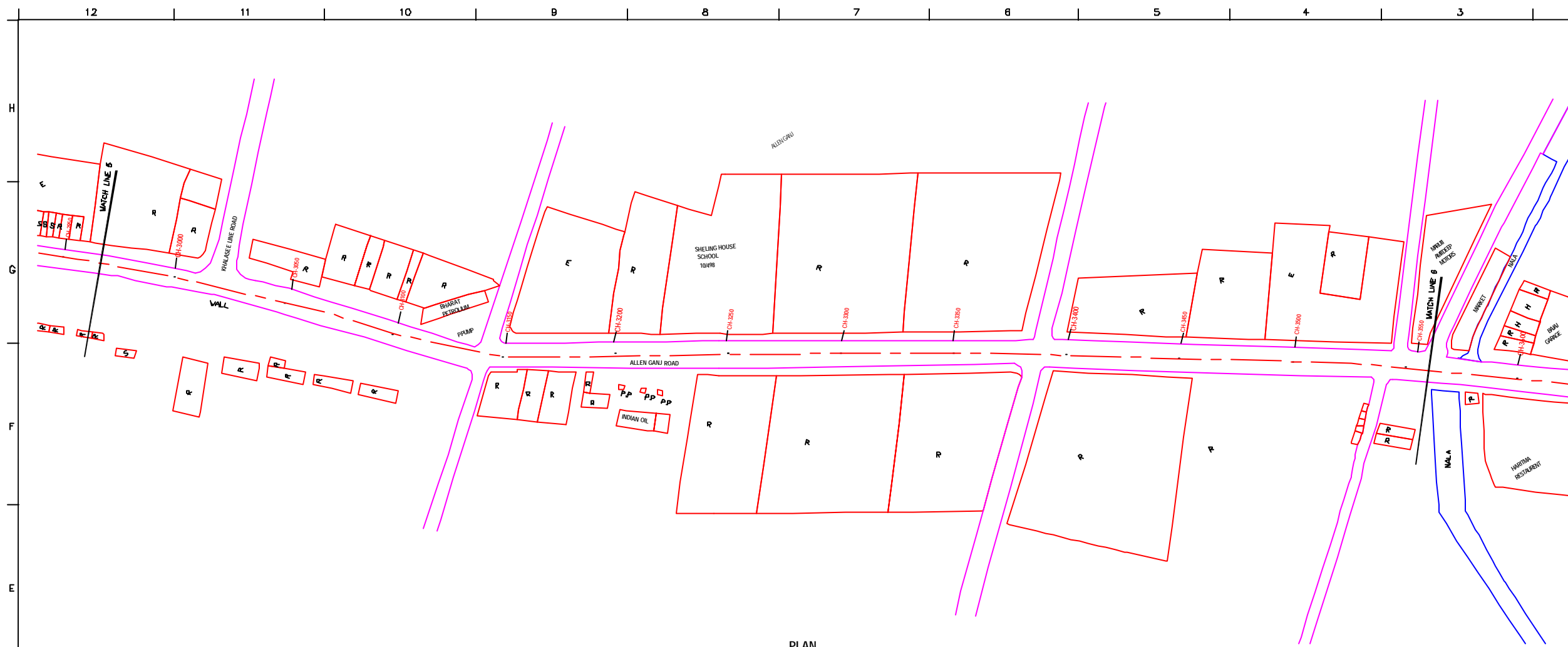
CHECKED BY:	APPROVED BY:
JOHNAED KHAN	V.N.SANTHAK
DRAWN	R.D.METRE
DESIGNED	M.D.NAYEKAR
SURVEYED	KUMAR SURVEY
SCALE	AS SHOWN
DATE	05-12-2005

**JICA** INTERNATIONAL COOPERATION AGENCY  
 CONSULTANTS:  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SURE SURVA PRIVATE LIMITED

PROJECT:  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

SHEET CONTENTS:  
 PLAN AND PROFILE FROM RAWATPUR (Node: 13a) TO 84" Ø EXISTING SEWER AT CANTONMENT VIA HUDSON SCHOOL (Node: H) (SHEET 5/17)

DRAWING NO.	SR. NO.
KAN-PP-RC-5	12



NOTE:  
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
 2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS PROPOSED SEWER LINE	
RISING MAIN ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD CUMBER	
MOSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	
ORDINARY MANHOLE	
SCRAPER MANHOLE	
VENT SHAFT	

**REFERENCE DRAWING :**  
 1) BASE MAP WITH BEVERAGE ZONES KAN-BASE MAP-1  
 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2  
 3) KEY PLAN KAN-KP-1  
 4) CATCHMENT AREA FOR DISTRICT-1 KAN-CA-01-1

INST.					
ELIC.					
MECH.					
STRA.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED
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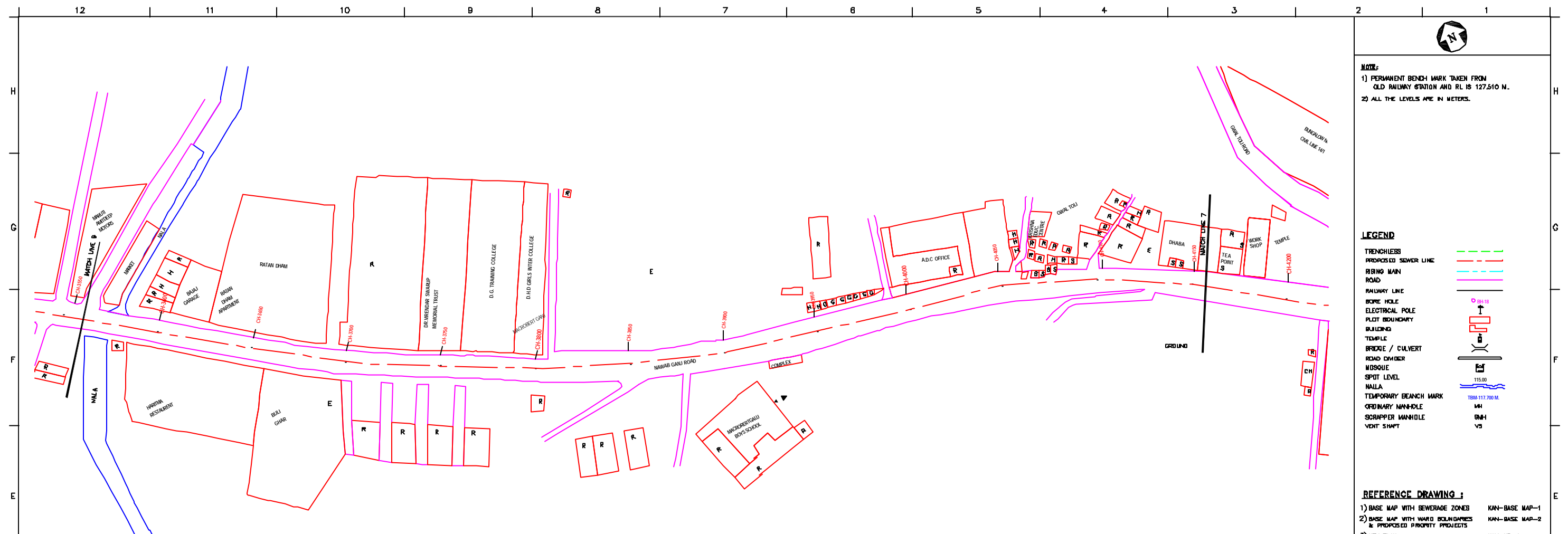
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JOHNAED KHAN	V.N.SONTAKKE
DRAWN	R.D.METRE
DESIGNED	M.D.JAAYEKAR
BURVEYED	KUMAR SURVEY
SCALE	AS SHOWN
DATE	05-12-2005

**JICA** INTERNATIONAL COOPERATION AGENCY  
 CONSULTANTS:  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SHYAM SUDAN PRAKASHI LIMITED

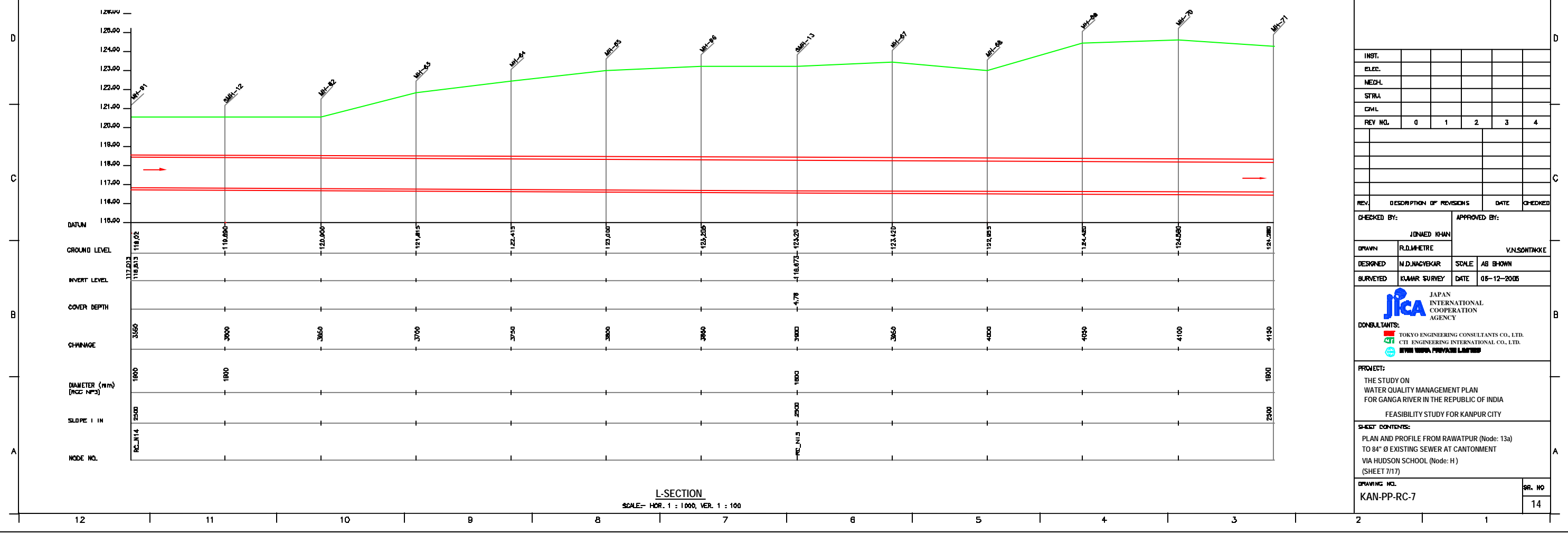
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE FROM RAWATPUR (Node: 13a) TO 84" Ø EXISTING SEWER AT CANTONMENT VIA HUDSON SCHOOL (Node: H) (SHEET 6/17)

DRAWING NO.	SR. NO.
KAN-PP-RC-6	13



PLAN  
SCALE- 1 : 1000



L-SECTION  
SCALE- HOR. 1 : 1000, VER. 1 : 100

NOTE:  
1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS PROPOSED SEWER LINE	
RISING MAIN ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
MOSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	
ORDINARY MANHOLE	
SCRAPER MANHOLE	
VENT SHAFT	

- REFERENCE DRAWING :**
- 1) BASE MAP WITH BEVERAGE ZONES KAN-BASE MAP-1
  - 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
  - 3) KEY PLAN KAN-KP-1
  - 4) CATCHMENT AREA FOR DISTRICT-1 KAN-CA-01-1

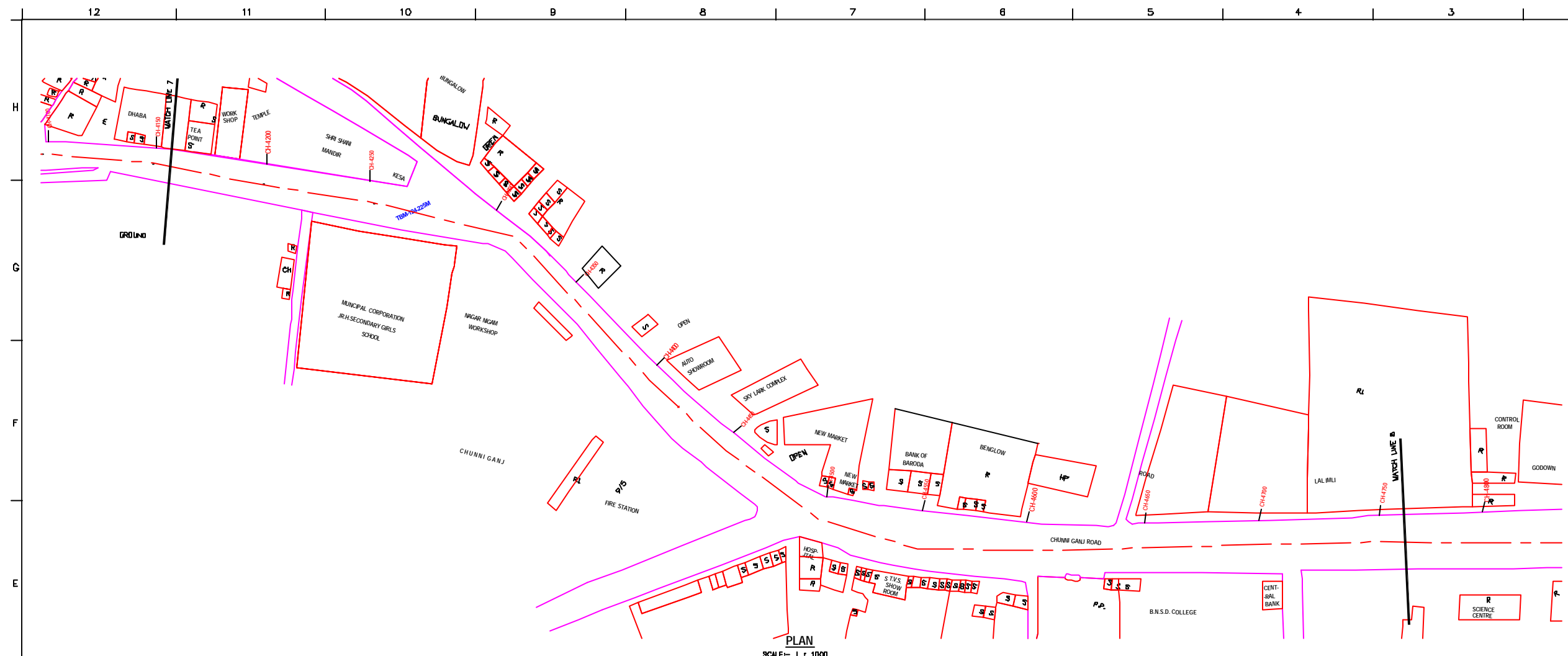
INST.					
ELIC.					
MECH.					
STRA.					
CIVL.					
REV. NO.	0	1	2	3	4

CHECKED BY:	APPROVED BY:
JOHNAED KHAN	V.N.SONTAKKE
DRAWN	R.D.METRE
DESIGNED	M.D.NAYEKAR
BURVEYED	KUMAR SURVEY
SCALE	AS SHOWN
DATE	05-12-2005

**JICA** INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SURESH PRAKASH LIMITED

**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE FROM RAWATPUR (Node: 13a) TO 84" Ø EXISTING SEWER AT CANTONMENT VIA HUDSON SCHOOL (Node: H) (SHEET 7/17)



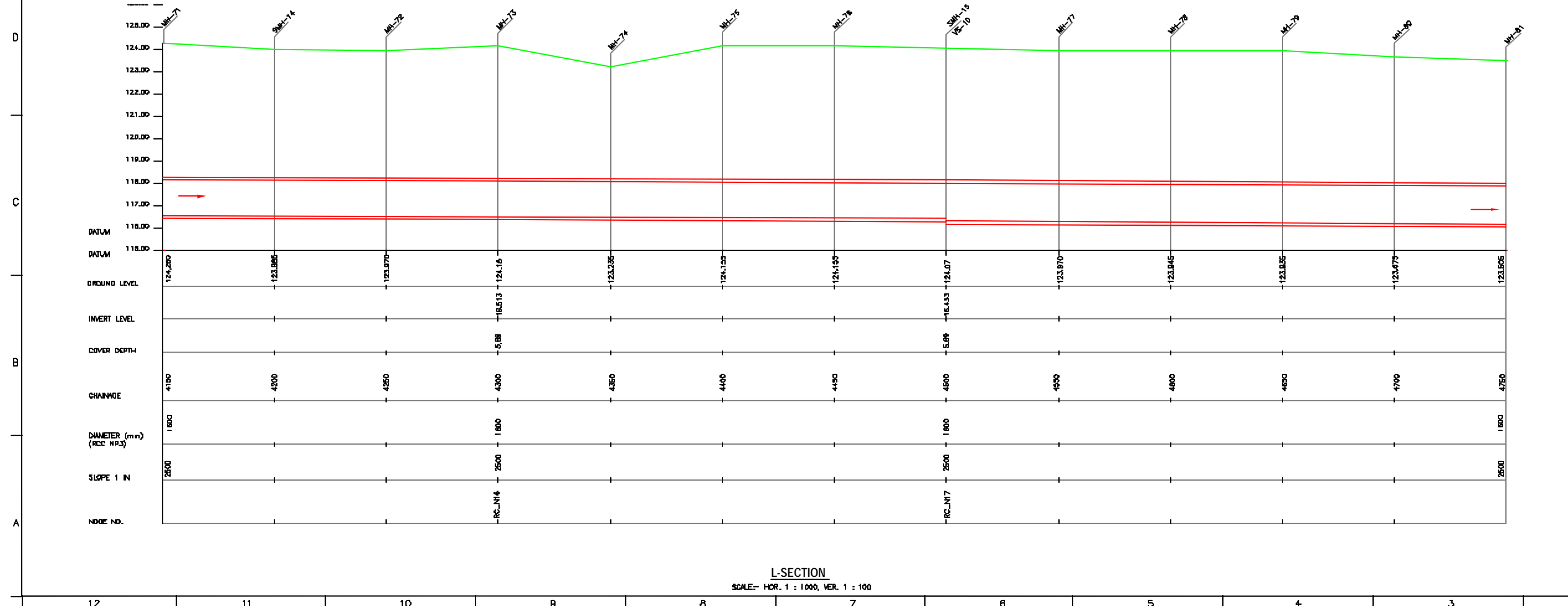
**NOTE:**  
1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

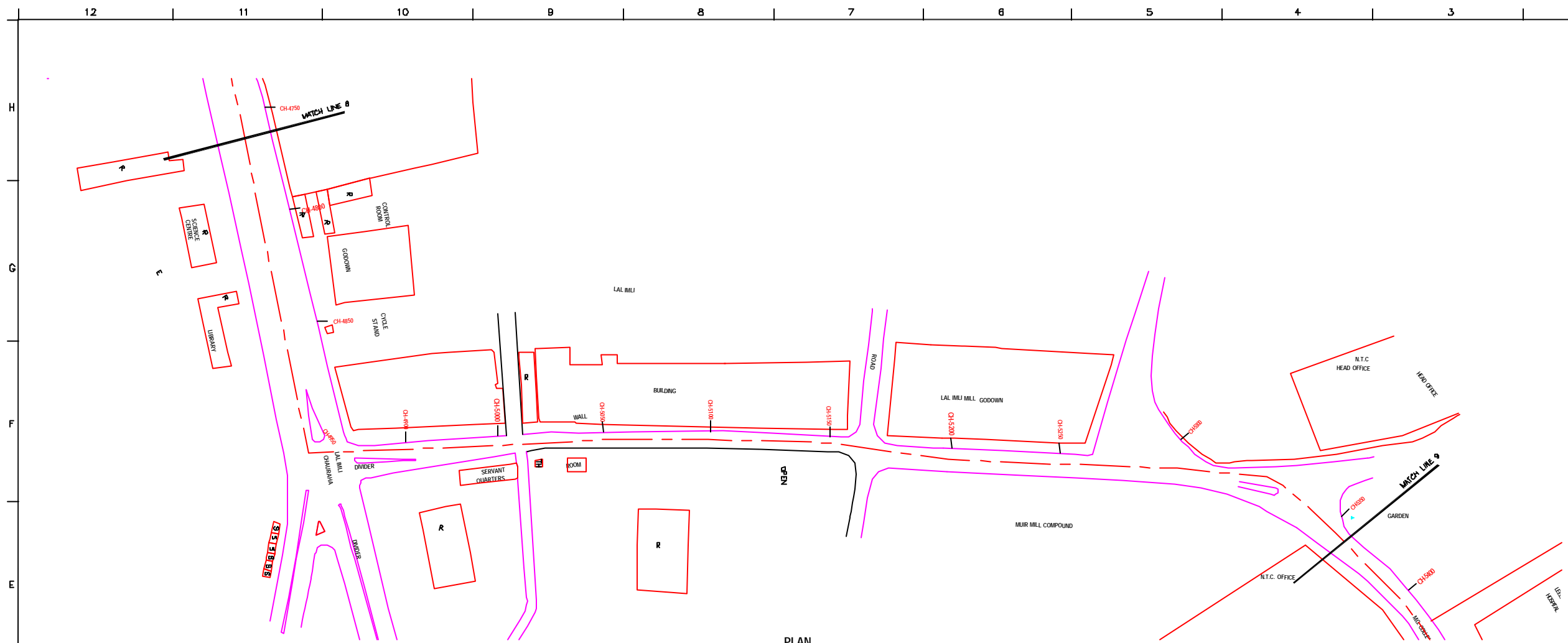
TRENCHLESS PROPOSED SEWER LINE	
RISING MAIN ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
MOSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	
ORDINARY MANHOLE	
SCRAPPER MANHOLE	
VENT SHaft	

**REFERENCE DRAWING :**

1) BASE MAP WITH BEVERAGE ZONES	KAN-BASE MAP-1
2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS	KAN-BASE MAP-2
3) KEY PLAN	KAN-KP-1
4) CATCHMENT AREA FOR DISTRICT-1	KAN-CA-01-1



INST.					
ELEC.					
MECH.					
STRA.					
CIVIL					
REV. NO.	0	1	2	3	4
REV.	DESCRIPTION OF REVISIONS		DATE	CHECKED	
CHECKED BY:	JUNAED KHAN		APPROVED BY:		
DRAWN	R.D. MISHRA	SCALE		AS SHOWN	
DESIGNED	M.D. JAYAKAR	DATE		05-12-2005	
 JAPAN INTERNATIONAL COOPERATION AGENCY CONSULTANTS: TOKYO ENGINEERING CONSULTANTS CO., LTD. CEI ENGINEERING INTERNATIONAL CO., LTD. SVP ENGINEERING PRIVATE LIMITED					
PROJECT: THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA FEASIBILITY STUDY FOR KANPUR CITY					
SHEET CONTENTS: PLAN AND PROFILE FROM RAWATPUR (Node: 13a) TO 84" Ø EXISTING SEWER AT CANTONMENT VIA HUDSON SCHOOL (Node: H) (SHEET 8/17)					
DRAWING NO.					SR. NO.
KAN-PP-RC-8					15



PLAN  
SCALE- 1 : 1000

NOTE:  
1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS PROPOSED SEWER LINE	
RISING MAIN ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
MOSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	
ORDINARY MANHOLE	
SCRAPER MANHOLE	
VENT SHAFT	

- REFERENCE DRAWING :**
- 1) BASE MAP WITH BEVERAGE ZONES KAN-BASE MAP-1
  - 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
  - 3) KEY PLAN KAN-KP-1
  - 4) CATCHMENT AREA FOR DISTRICT-1 KAN-CA-01-1

INST.					
ELEC.					
MECH.					
STR.					
CIVIL					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED
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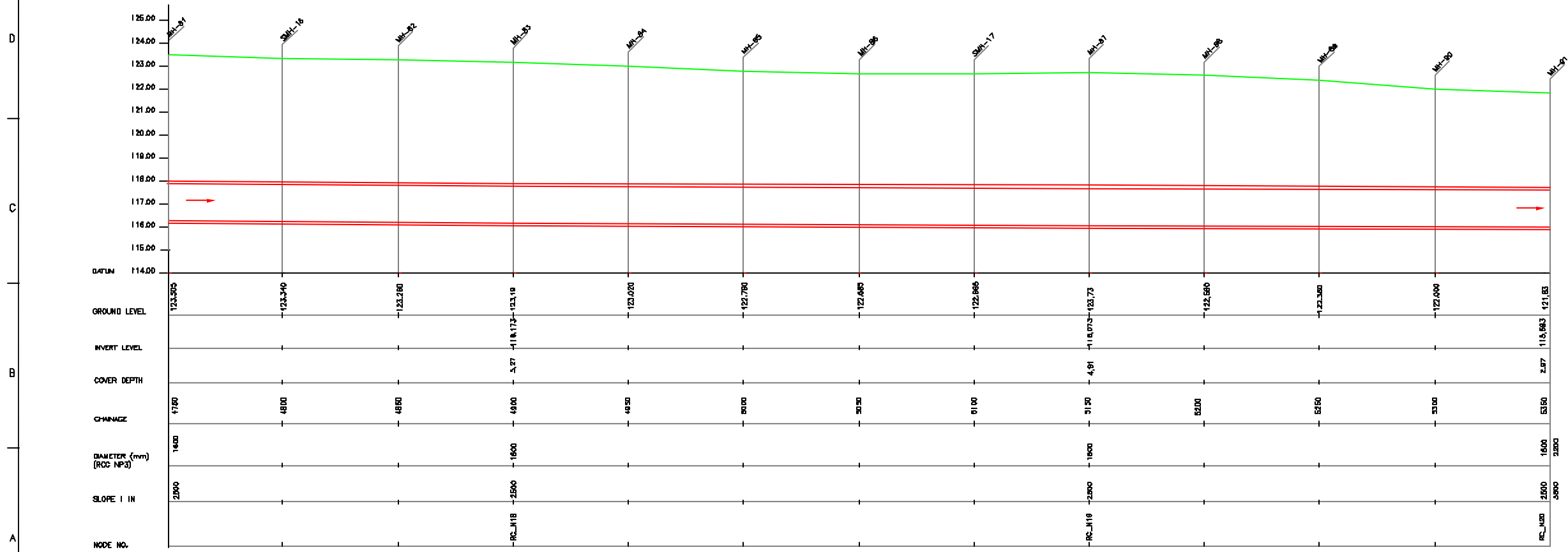
CHECKED BY:	APPROVED BY:
JOHNEED KHAN	V.N.SONTAKKE
DRAWN	R.D.METRE
DESIGNED	N.D.NACHYKAR
BURVEYED	KUMAR SURVEY
SCALE	AS SHOWN
DATE	05-12-2005

**JICA** INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 C.T.I. ENGINEERING INTERNATIONAL CO., LTD.  
 JAYASRI ENGINEERING PRIVATE LIMITED

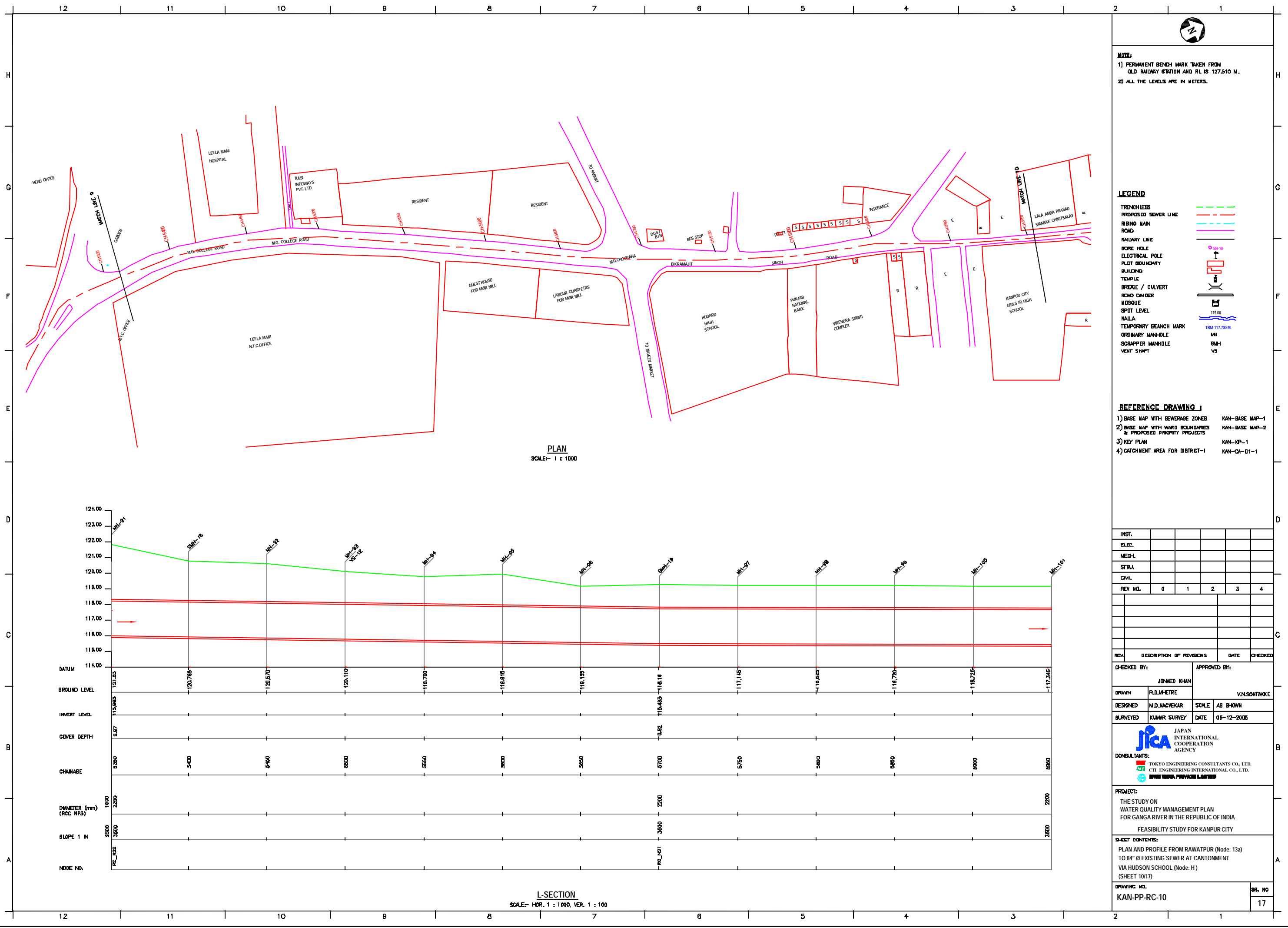
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE FROM RAWATPUR (Node: 13a) TO 84" Ø EXISTING SEWER AT CANTONMENT VIA HUDSON SCHOOL (Node: H) (SHEET 9/17)

DRAWING NO.	SR. NO.
KAN-PP-RC-9	16



L-SECTION  
SCALE- HOR. 1 : 1000, VER. 1 : 100



**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
 2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS PROPOSED SEWER LINE	---
RISING MAIN	---
ROAD	---
RAILWAY LINE	---
BONE HOLE	○ BH-18
ELECTRICAL POLE	⊥
PLLOT BOUNDARY	---
BUILDING	---
TEMPLE	---
BRIDGE / CULVERT	---
ROAD CUMBER	---
MOSQUE	---
SPOT LEVEL	115.00
NALLA	---
TEMPORARY BENCH MARK	TBM-117.700 M
ORDINARY MANHOLE	MH
SCRAPPER MANHOLE	SMH
VENT SHANT	VS

- REFERENCE DRAWING :**
- 1) BASE MAP WITH BEWERAGE ZONES KAN-BASE MAP-1
  - 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
  - 3) KEY PLAN KAN-KP-1
  - 4) CATCHMENT AREA FOR DISTRICT-1 KAN-CA-01-1

INST.					
ELEC.					
MECH.					
STRA.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY:	APPROVED BY:
JOHNAED KHAN	V.N.SANTHAK
DRAWN	R.D.METRE
DESIGNED	M.D.NACHYKAR
BURVEYED	KUMAR SURVEY
SCALE	AS SHOWN
DATE	05-12-2005

**JICA** INTERNATIONAL COOPERATION AGENCY

**CONSULTANTS:**

- TOKYO ENGINEERING CONSULTANTS CO., LTD.
- CTI ENGINEERING INTERNATIONAL CO., LTD.
- SHYAM SUDAN PRAKASH LIMITED

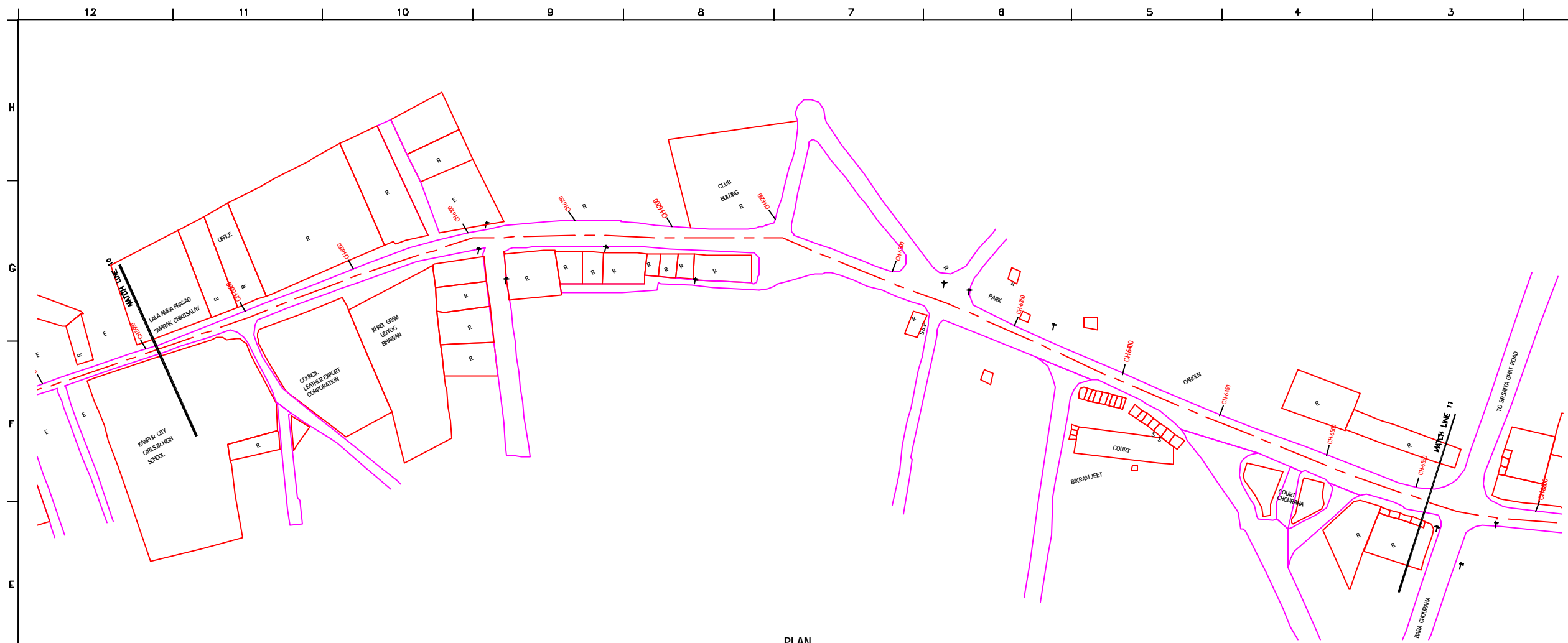
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE FROM RAWATPUR (Node: 13a) TO 84" Ø EXISTING SEWER AT CANTONMENT VIA HUDSON SCHOOL (Node: H) (SHEET 10/17)

DRAWING NO.	SR. NO.
KAN-PP-RC-10	17

**PLAN**  
 SCALE- 1 : 1000

**L-SECTION**  
 SCALE- HOR. 1 : 1000, VER. 1 : 100



PLAN  
SCALE- 1 : 1000

NOTE:  
1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS PROPOSED SEWER LINE	
RISING MAIN ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
MOSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	
ORDINARY MANHOLE	
SCRAPER MANHOLE	
VENT SHAFT	

**REFERENCE DRAWING :**

1) BASE MAP WITH BEVERAGE ZONES	KAN-BASE MAP-1
2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS	KAN-BASE MAP-2
3) KEY PLAN	KAN-KP-1
4) CATCHMENT AREA FOR DISTRICT-1	KAN-CA-01-1

INST.					
ELIC.					
MECH.					
STRL.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY:	APPROVED BY:
JONMAID KHAN	V.N.SONTAKKE
DRAWN	R.D.MHETRE
DESIGNED	M.D.NACHKAR
BURVEYED	KUMAR SURVEY
DATE	05-12-2005

**JICA** INTERNATIONAL COOPERATION AGENCY

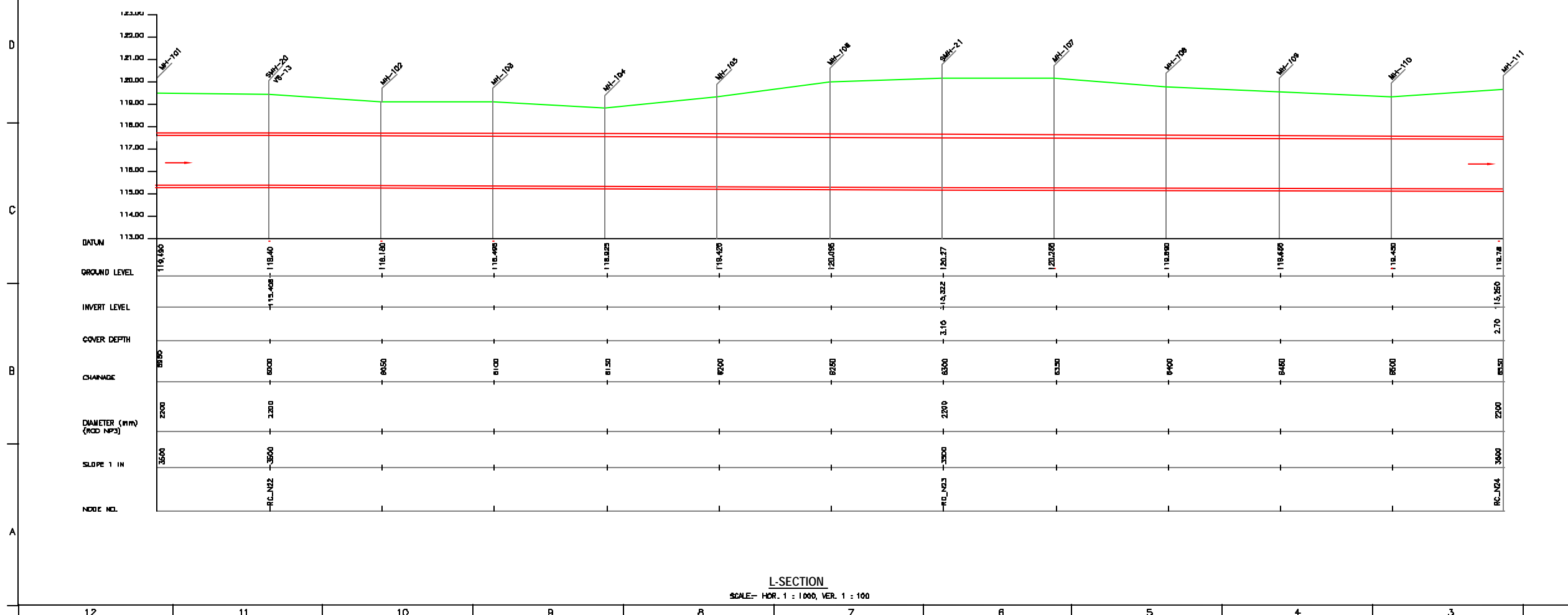
CONSULTANTS:

TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SHYAM SUNDAR PRAKASHI LIMITED

**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

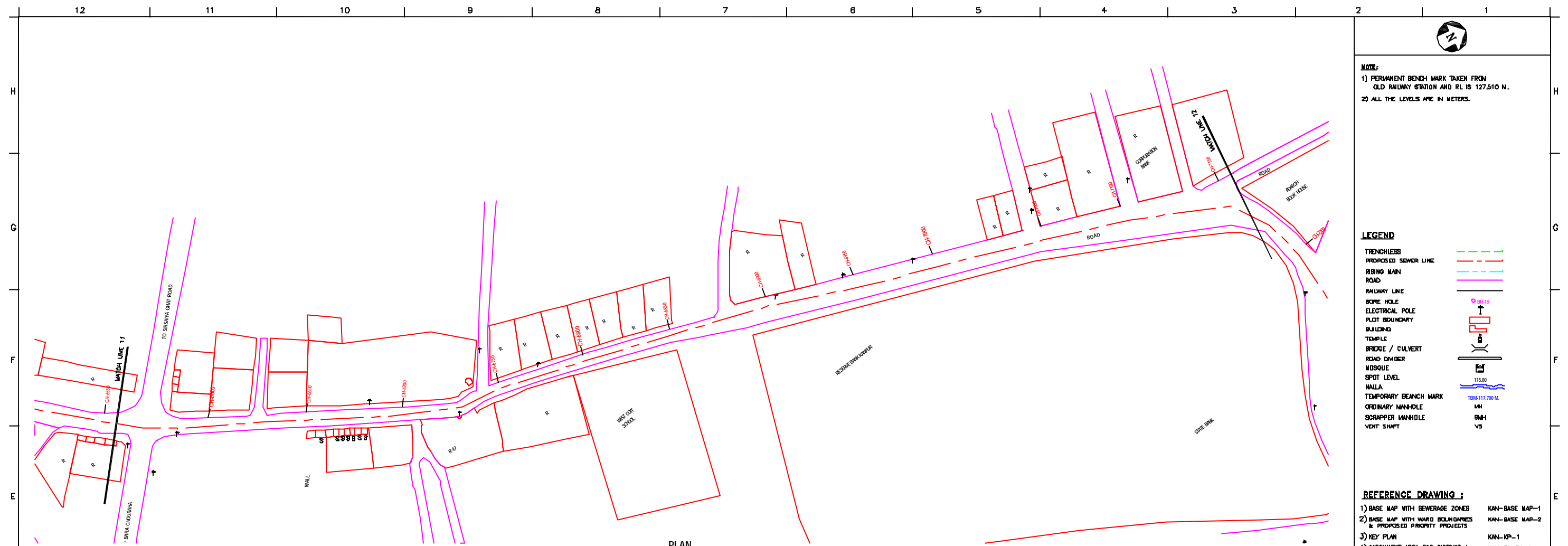
**SHEET CONTENTS:**  
 PLAN AND PROFILE FROM RAWATPUR (Node: 13a) TO 84" Ø EXISTING SEWER AT CANTONMENT VIA HUDSON SCHOOL (Node: H) (SHEET 11/17)

DRAWING NO.	SR. NO.
KAN-PP-RC-11	18



L-SECTION  
SCALE- HOR. 1 : 1000, VER. 1 : 100



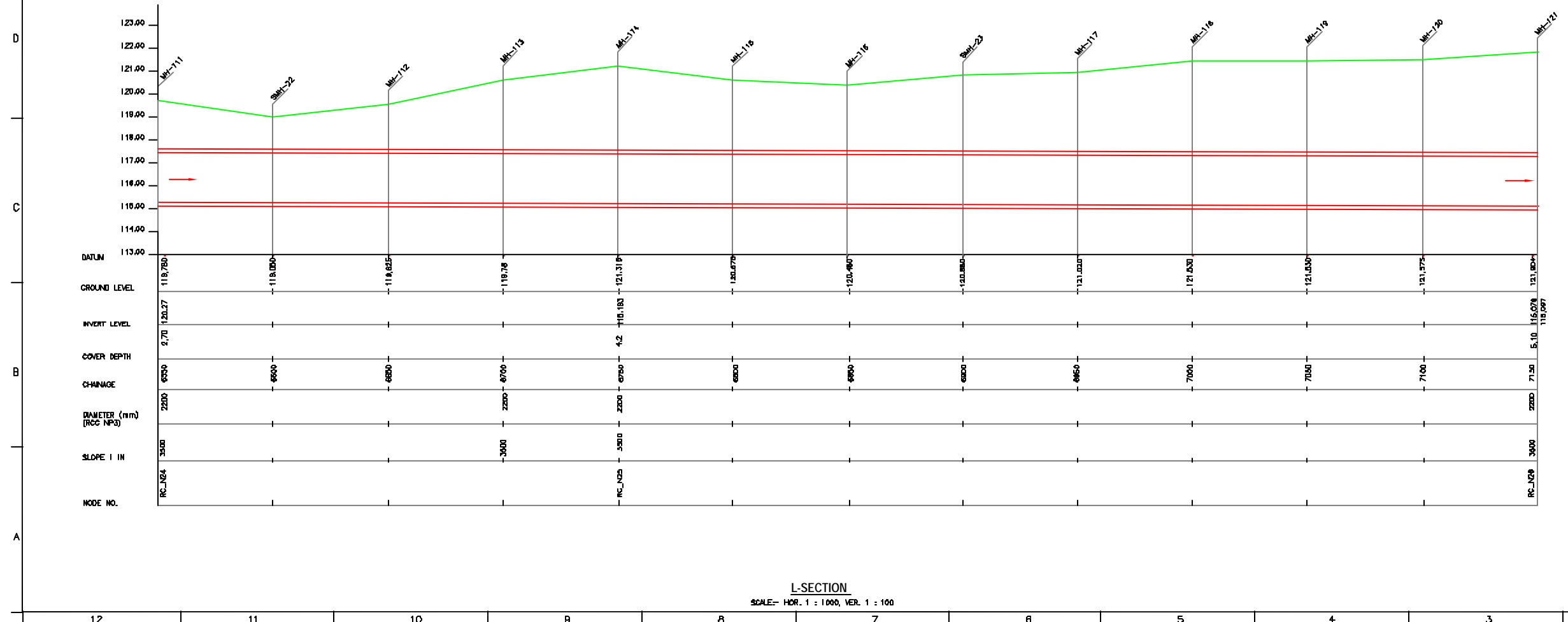


**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
 2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS PROPOSED SEWER LINE	
RING MAIN	
ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD CUMBER	
MDSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	
ORDINARY MANHOLE	
SCRAPPER MANHOLE	
VENT SHAFT	

**REFERENCE DRAWING :**  
 1) BASE MAP WITH BEVERAGE ZONES KAN-BASE MAP-1  
 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2  
 3) KEY PLAN KAN-KP-1  
 4) CATCHMENT AREA FOR DISTRICT-1 KAN-CA-01-1



INST.					
ELEC.					
MECH.					
STR.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

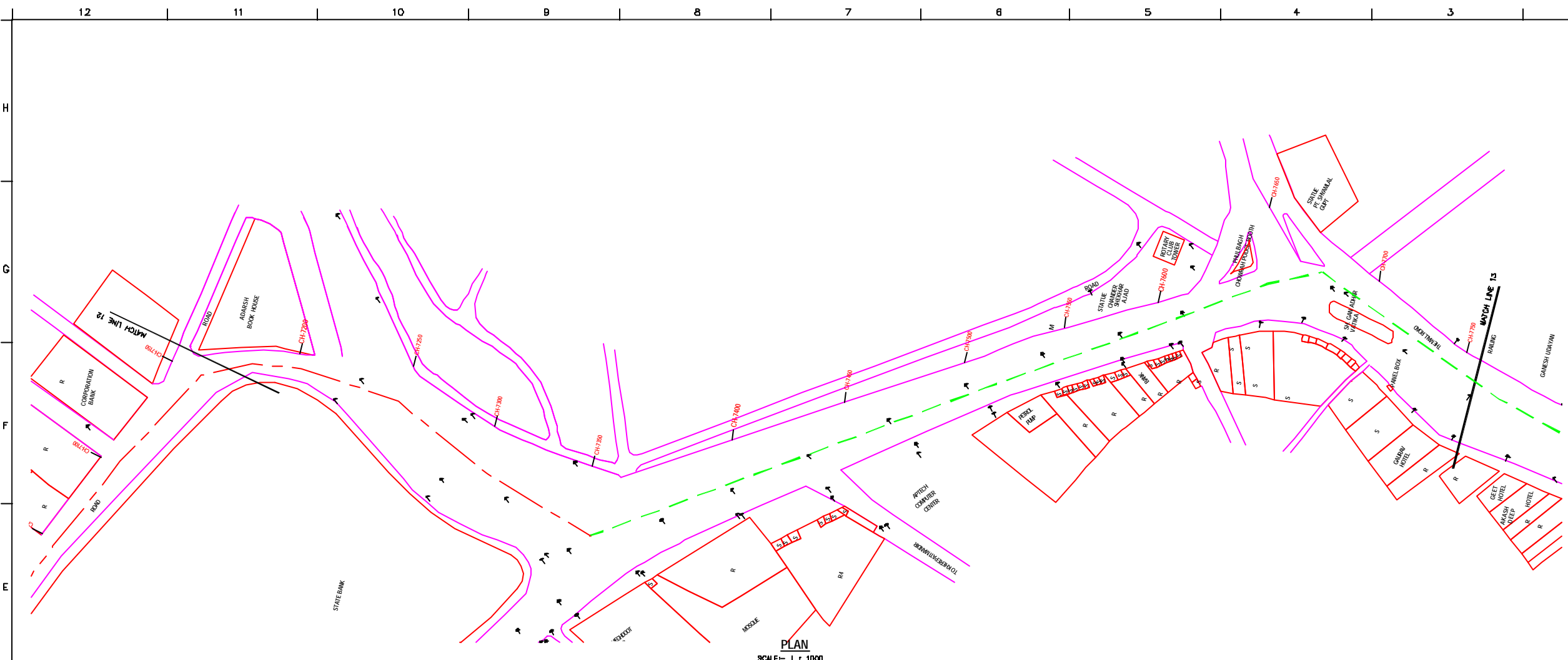
CHECKED BY:	APPROVED BY:
JOHNAED KHAN	V.N.SANTAKKE
DRAWN	R.D.METRE
DESIGNED	M.D.NAYEKAR
SURVEYED	KUMAR SURVEY
SCALE	AS SHOWN
DATE	05-12-2005

**JICA** INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SURESH PRAKASH LIMITED

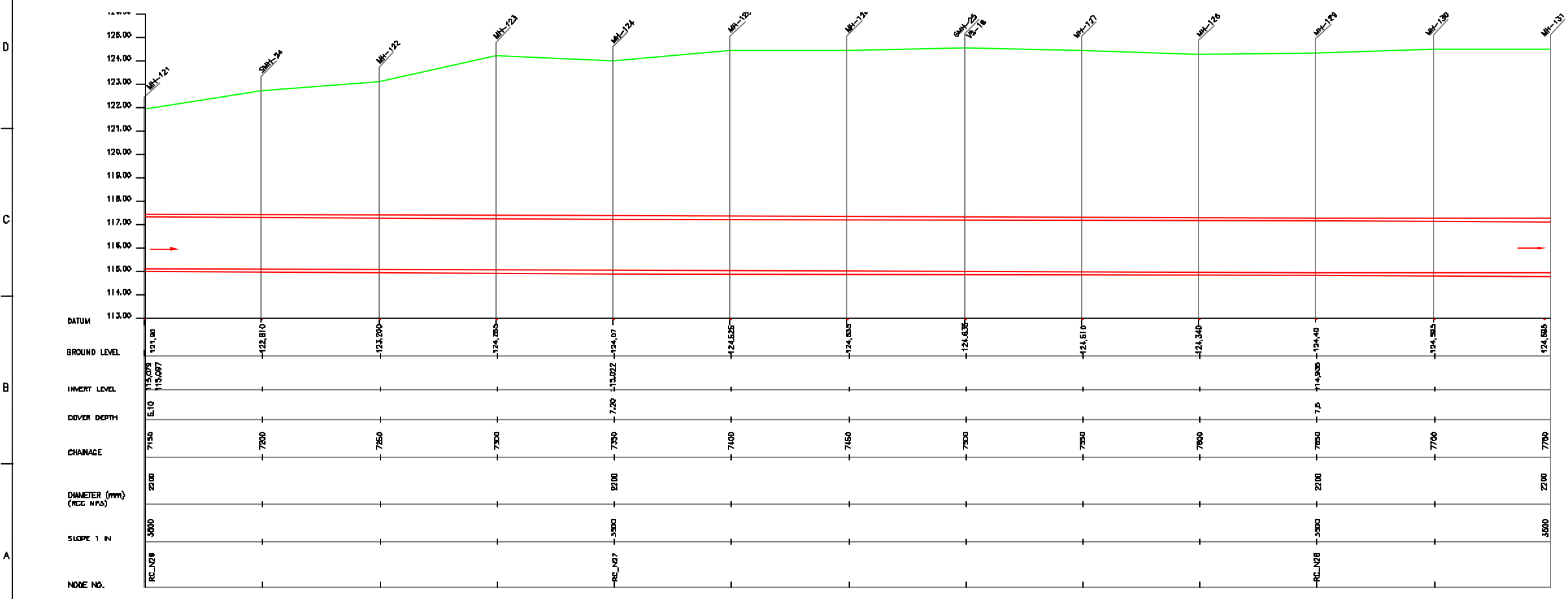
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE FROM RAWATPUR (Node: 13a) TO 84" Ø EXISTING SEWER AT CANTONMENT VIA HUDSON SCHOOL (Node: H) (SHEET 12/17)

DRAWING NO.	SR. NO.
KAN-PP-RC-12	19



PLAN  
SCALE- 1 : 1000



L-SECTION  
SCALE- HOR. 1 : 1000, VER. 1 : 100

NOTE:  
1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
2) ALL THE LEVELS ARE IN METERS.

LEGEND

TRENCHLESS PROPOSED SEWER LINE	
RISING MAIN	
ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD CUMVER	
MOSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	
ORDINARY MANHOLE	
SCRAPER MANHOLE	
VENT SHaft	

REFERENCE DRAWING :

1) BASE MAP WITH BEVERAGE ZONES	KAN-BASE MAP-1
2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS	KAN-BASE MAP-2
3) KEY PLAN	KAN-KP-1
4) CATCHMENT AREA FOR DISTRICT-1	KAN-CA-01-1

INST.					
ELEC.					
MECH.					
STR.					
CIVIL					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED
------	--------------------------	------	---------

CHECKED BY:	APPROVED BY:
JOHAMED KHAN	V.N.SANTHAKR
DRAWN	R.D.METRE
DESIGNED	N.D.JANAYEKAR
SURVEYED	KUMAR SURVEY
SCALE	AS SHOWN
DATE	05-12-2005

CONSULTANTS:

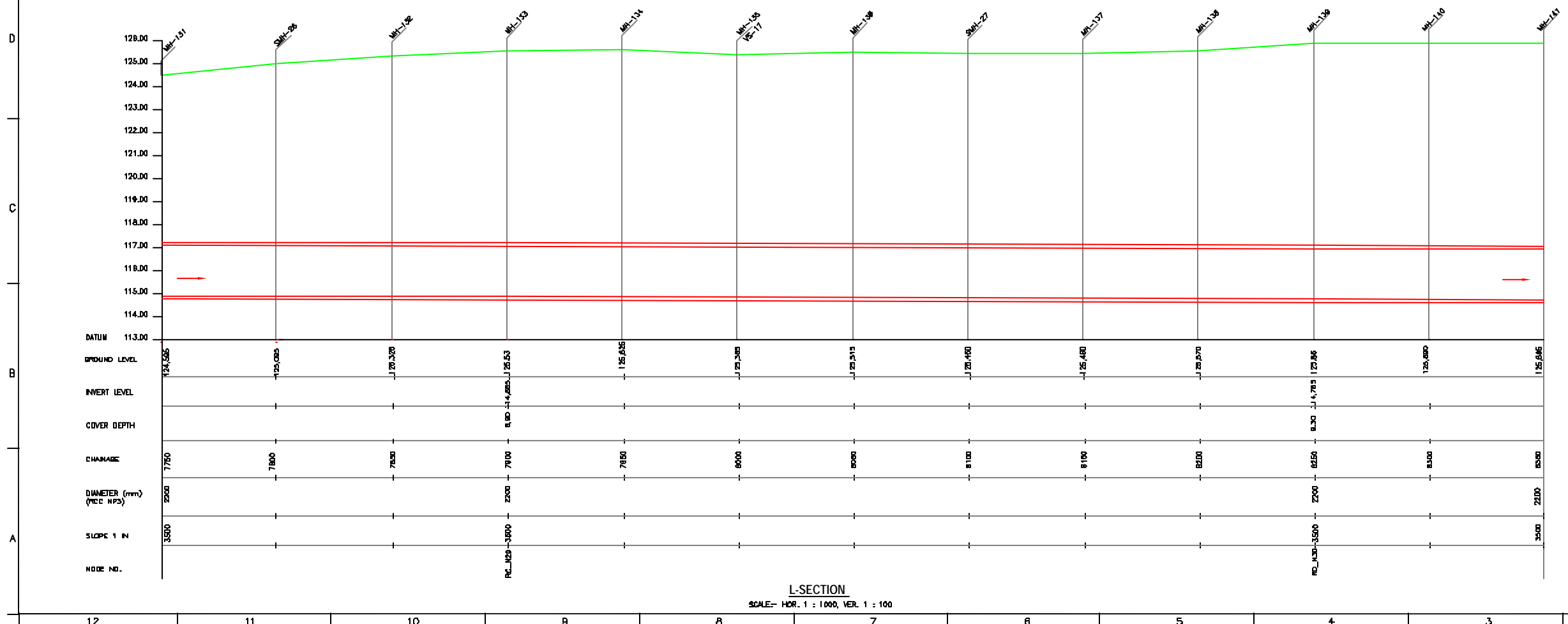
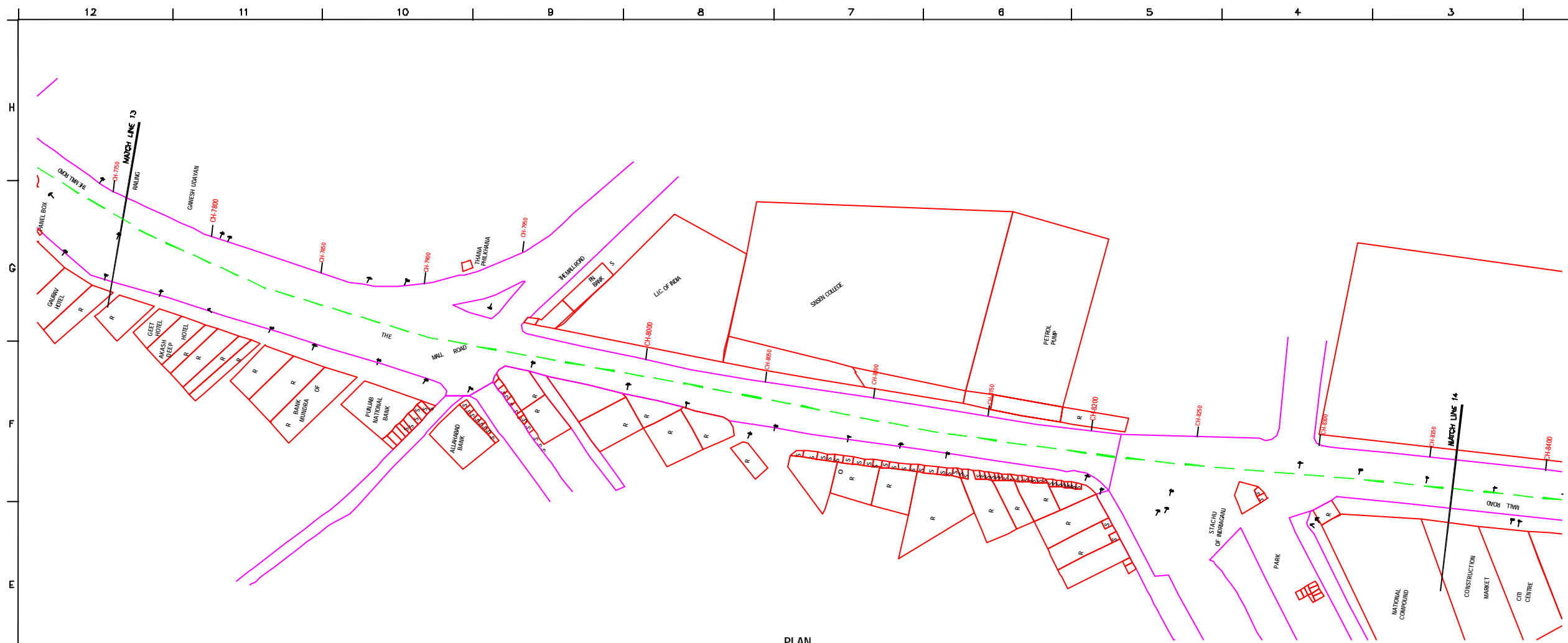
**JICA** INTERNATIONAL COOPERATION AGENCY

TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 JAYASREE PRAKASHI LIMITED

PROJECT:  
THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR KANPUR CITY

SHEET CONTENTS:  
PLAN AND PROFILE FROM RAWATPUR (Node: 13a) TO 84" Ø EXISTING SEWER AT CANTONMENT VIA HUDSON SCHOOL (Node: H) (SHEET 13/17)

DRAWING NO.	SR. NO.
KAN-PP-RC-13	20



**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
 2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

- TRENCHLESS PROPOSED SEWER LINE
- EXISTING MAIN ROAD
- RAILWAY LINE
- BORE HOLE
- ELECTRICAL POLE
- PLOT BOUNDARY
- BUILDING
- TEMPLE
- BRIDGE / CULVERT
- ROAD DIVIDER
- MOSQUE
- SPOT LEVEL
- NALLA
- TEMPORARY BENCH MARK
- ORDINARY MANHOLE
- SCRAPER MANHOLE
- VENT SHAFT

**REFERENCE DRAWING :**

- 1) BASE MAP WITH BEWERAGE ZONES KAN-BASE MAP-1
- 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
- 3) KEY PLAN KAN-KP-1
- 4) CATCHMENT AREA FOR DISTRICT-1 KAN-CA-01-1

INST.					
ELEC.					
MECH.					
STRA.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY: **JOHNAED KHAN**  
 APPROVED BY: **V.N.SANTHAK**

DRAWN: **R.D.METRE**  
 DESIGNED: **N.D.NACHYKAR**  
 SURVEYED: **KUMAR SURVEY**

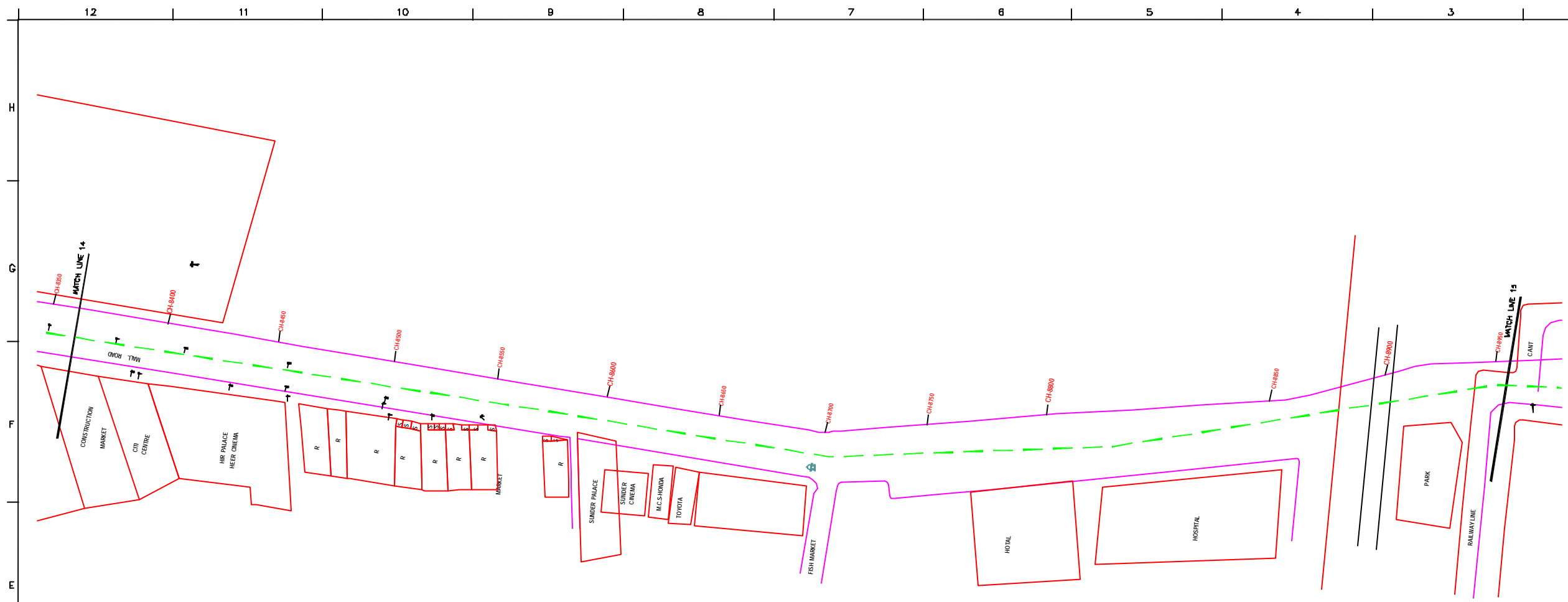
SCALE: **AS SHOWN**  
 DATE: **05-12-2005**

**JICA** INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 C.T.I. ENGINEERING INTERNATIONAL CO., LTD.  
 SRI VISHVA PRAVAHA LIMITED

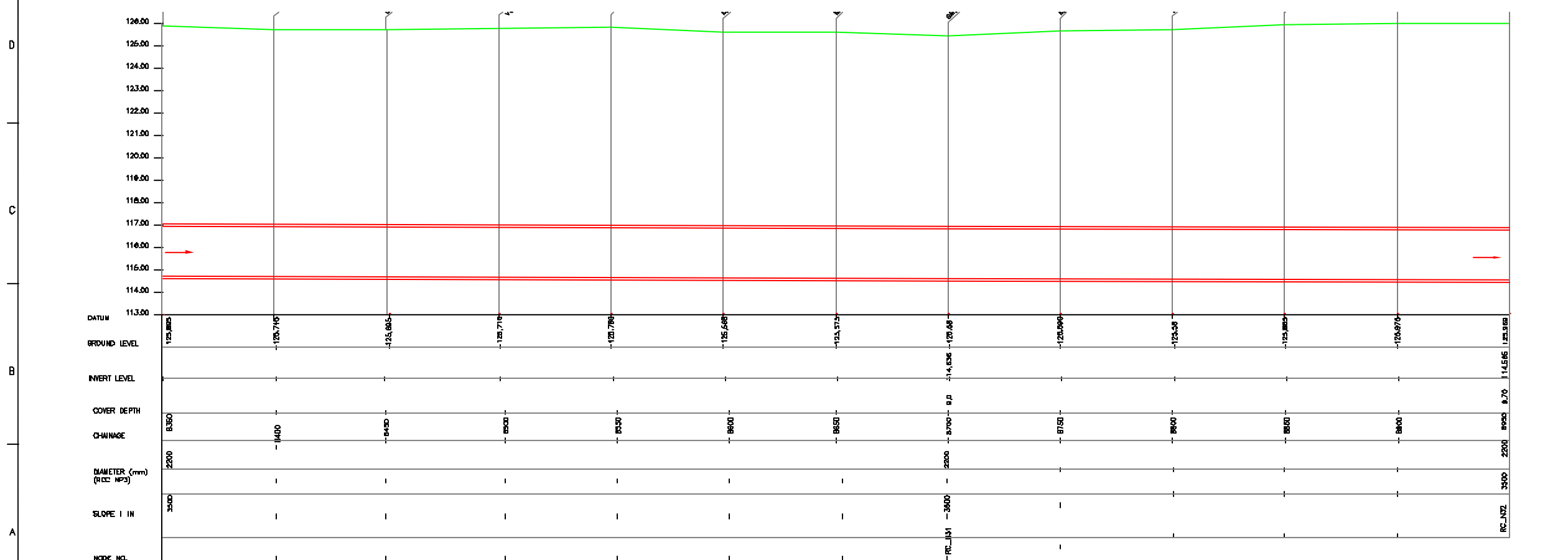
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE FROM RAWATPUR (Node: 13a) TO 84' Ø EXISTING SEWER AT CANTONMENT VIA HUDSON SCHOOL (Node: H) (SHEET 14/17)

DRAWING NO. **KAN-PP-RC-14**  
 SR. NO. **21**



**PLAN**  
SCALE- 1 : 1000



**L-SECTION**  
SCALE- HOR. 1 : 1000, VER. 1 : 100

**NOTE:**  
1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS PROPOSED SEWER LINE	
RING MAIN ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
TEMPLE	
BRIDGE / CULVERT	
ROAD CUMVER	
MUSOLE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	
ORDINARY MANHOLE	
SCRAPER MANHOLE	
VENT SHAFT	

- REFERENCE DRAWING :**
- 1) BASE MAP WITH BEWERAGE ZONES KAN-BASE MAP-1
  - 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
  - 3) KEY PLAN KAN-KP-1
  - 4) CATCHMENT AREA FOR DISTRICT-1 KAN-CA-01-1

INST.					
ELEC.					
MECH.					
STRA.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED
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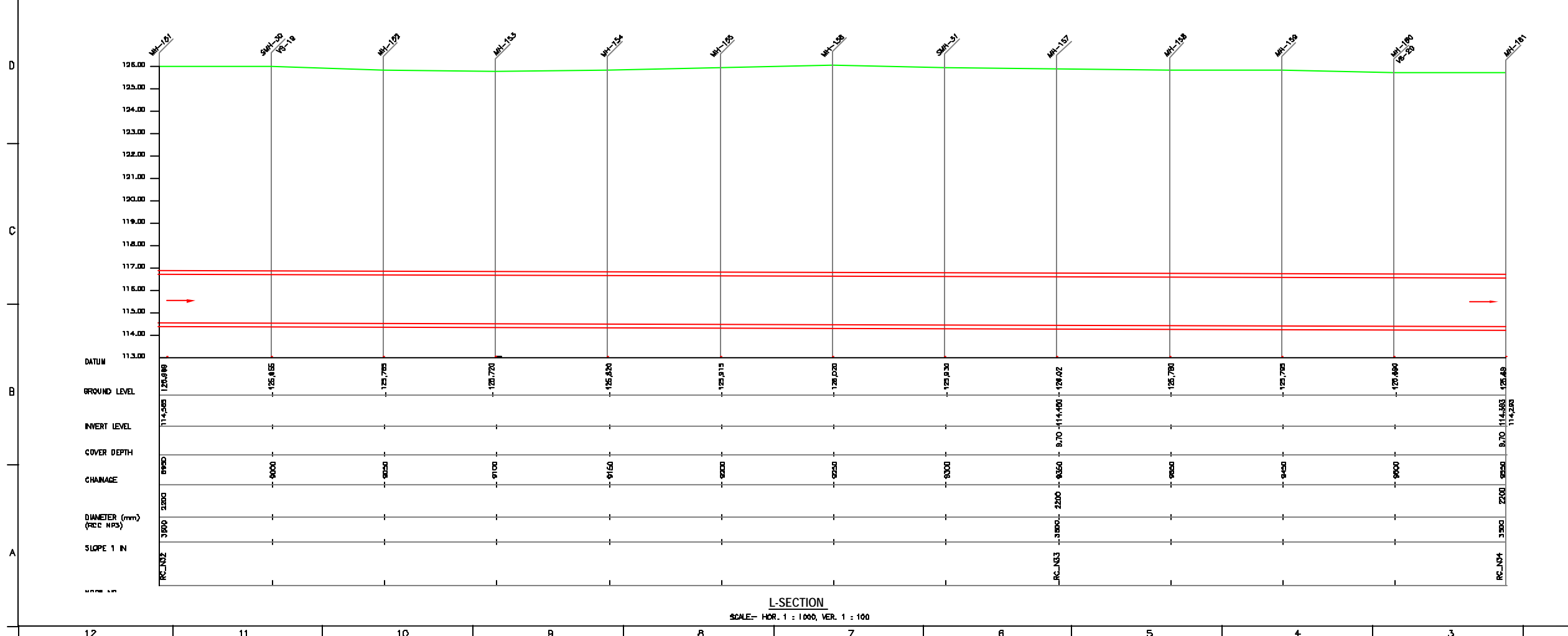
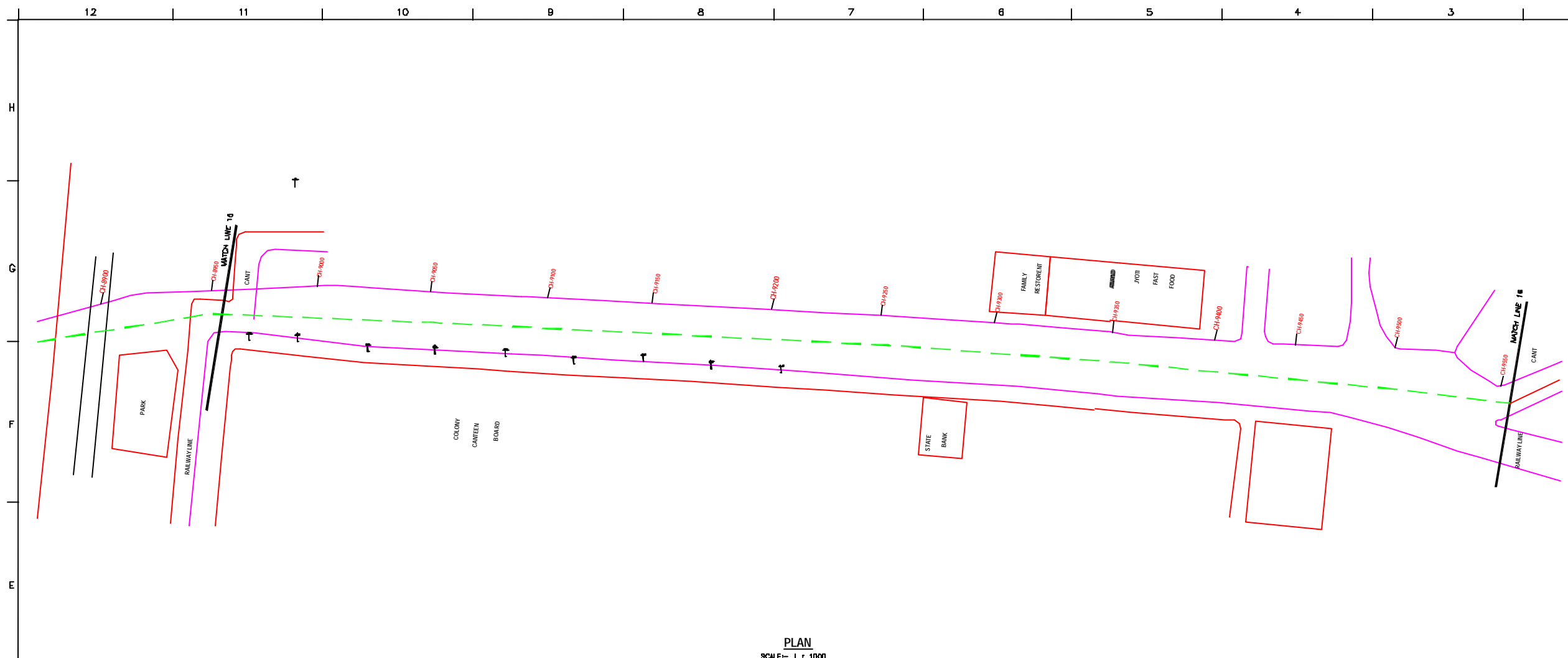
CHECKED BY:	APPROVED BY:
JOHNEED KHAN	V.N.SANTAKKE
DRAWN:	R.D.JAYEKAR
DESIGNED:	M.D.JAYEKAR
BURVEYED:	KUMAR SURVEY
SCALE:	AS SHOWN
DATE:	05-12-2005

**JICA** INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 JAYESH PRAKASH LIMITED

**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE FROM RAWATPUR (Node: 13a) TO 84' Ø EXISTING SEWER AT CANTONMENT VIA HUDSON SCHOOL (Node: H) (SHEET 15/17)

DRAWING NO.	SR. NO.
KAN-PP-RC-15	22



**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
 2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS PROPOSED SEWER LINE	
RISING MAIN ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD CUMBER	
MOSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	
ORDINARY MANHOLE	
SCRAPER MANHOLE	
VENT SHAFT	

**REFERENCE DRAWING :**  
 1) BASE MAP WITH BEVERAGE ZONES KAN-BASE MAP-1  
 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2  
 3) KEY PLAN KAN-KP-1  
 4) CATCHMENT AREA FOR DISTRICT-1 KAN-CA-01-1

INST.					
ELEC.					
MECH.					
STR.					
CIVIL					
REV. NO.	0	1	2	3	4

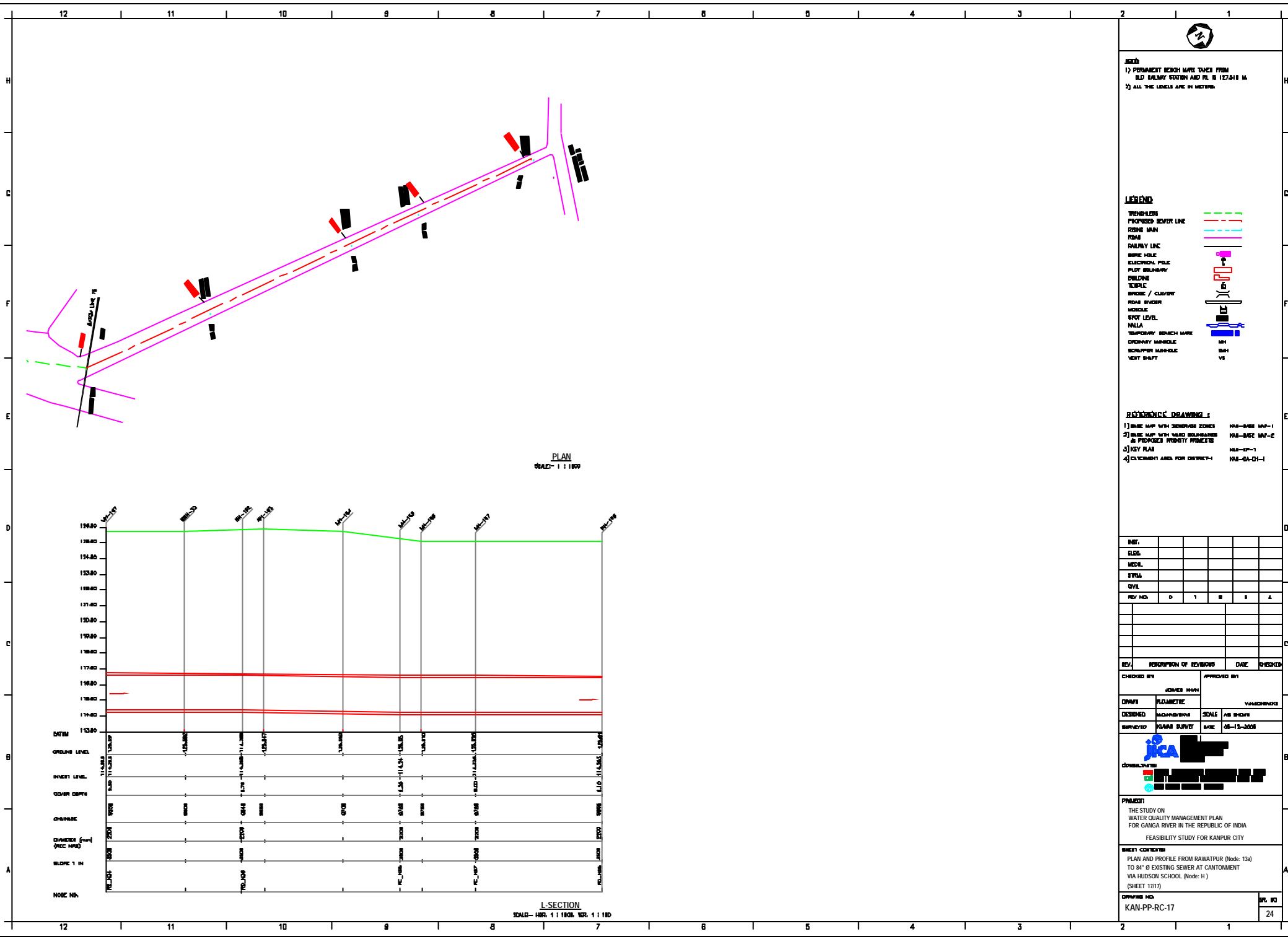
CHECKED BY: **JOHNAED KHAN**  
 APPROVED BY: **V.N.SONTAKKE**  
 DRAWN: **R.D.METRE**  
 DESIGNED: **M.D.JAAYEKAR** SCALE: **AS SHOWN**  
 SURVEYED: **KUMAR SURVEY** DATE: **05-12-2005**

**JICA** INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SURESH VARMA PRIVATE LIMITED

**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE FROM RAWATPUR (Node: 13a) TO 84" Ø EXISTING SEWER AT CANTONMENT VIA HUDSON SCHOOL (Node: H)  
 (SHEET 16/17)

DRAWING NO. **KAN-PP-RC-16** SR. NO. **23**



PLAN  
SCALE- 1:1180

L-SECTION  
SCALE- HORIZ. 1:1180, VERT. 1:1180

**JOB**  
 1) PERMANENT SEWER LINE FROM  
 OLD BALLY EASTON AND PL. B 127418 M.  
 2) ALL THE LINES ARE IN METERS.

**LEGEND**

- PROPOSED SEWER LINE
- EXISTING MAN HOLE
- RAILWAY LINE
- WIRE HOLE
- ELECTRICAL POLE
- WATER MAIN
- TELEPHONE
- TELEPHONE / CLOSET
- ROAD SIGN
- VEHICLE
- FOOT LEVEL
- WALL
- TEMPORARY SIGNAGE MARK
- CONCRETE MANHOLE
- WELL SHAFT

**REVISIONS DRAWING**

- 1) BASIC MAP WITH ZONE BOUNDARIES
- 2) BASIC MAP WITH ROAD BOUNDARIES & PROPOSED PROPERTY BOUNDARIES
- 3) KEY PLAN
- 4) DIMENSION AREA FOR CONCRETE

**REVISIONS**

REV. NO.	DESCRIPTION OF REVISIONS	DATE	DRAWN

**CHECKED BY** JAMES HAN **APPROVED BY** YAMCHANDRA

**DRAWN** YAMCHANDRA **SCALE** AS SHOWN

**DESIGNED** YAMCHANDRA **SCALE** AS SHOWN

**DATE** 08-13-2008

**PROJECT**  
 THE STUDY ON  
 WATER QUALITY MANAGEMENT PLAN  
 FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**PROJECT COORDINATOR**  
 PLAN AND PROFILE FROM RAWATPUR (Node: 13a)  
 TO 84' Ø EXISTING SEWER AT CANTONMENT  
 VIA HUDSON SCHOOL (Node: H)  
 (SHEET 17/17)

**DRAWING NO.** KAN-PP-RC-17 **SPL. NO.** 24