

OCG-NJSEI-TCE-BV

Oriental Consultants Global Co., Ltd. Japan (FCRN - F04883)
NJS Engineers India Pvt Ltd, India (CIN - U74210PN2007PTC129798)
Tata Consulting Engineers Limited, India (CIN- U74210MH1999PLC123010)
and Associate
Black and Veatch represented by Black and Veatch Private Ltd
(CIN- U74210MH2003FTC138678)

9th Floor, Cauvery Bhavan, KG Road, Bangalore 560009, INDIA

Phone:080-29701327; email: tl@ontbbwssp.com

Ref: ONTB/BWSSB/BWSSP III/CP-27/2021/2815

Date: 05th October 2021

o/c

The Executive Engineer (K-4),
Bangalore Water Supply and Sewerage Board (BWSSB)
Suvarna Bhavan, 18th Cross, Malleshwaram
Bangalore - 560012, Karnataka.

Subject: JICA Assisted Bengaluru Water Supply and Sewerage Project (Phase 3) [Cauvery Water Supply Scheme (CWSS) Stage V]-Sewerage Facilities to Works of Providing Sewerage Facilities to 110 Villages: Design, Engineering, Construction and Commissioning of Sewage Treatment Plants and Intermediate Sewage Pumping Stations with Operation & Maintenance thereof for Seven Years [Works - A] and Procurement and Construction of Main Sewers including Manholes in Dasarahalli and R R Nagar Zones (V Valley Catchment) [Works - B] (Package -BWSSP(III)/JICA/CP-27)-Reg: Submission of one set of GFC drawings of Bagalakunte Trunk Sewer for review and approval.

Ref: No.BWSSB/EEK-4/CP-27/PB/1082 /2021-22 dated: 21.09.2021

Dear Sir,

With above reference, M/s KBR-AIPPL JV has submitted the topographical drawings of the Bagalkunte sewer alignment. Based on this survey details submitted by the Contractor, hydraulic design of sewer is done and one set of Good for Construction drawings are prepared.

One set of hard copy (including soft copy of the drawing by mail) is submitted for your review and approval.

It is requested to forward the above drawing to the Contractor for submission of 6 sets for approval as per Contract Agreement Volume 2, General Requirements, para 3.16.

Very truly Yours,

OCG-NJSEI-TCE and Associate B&V



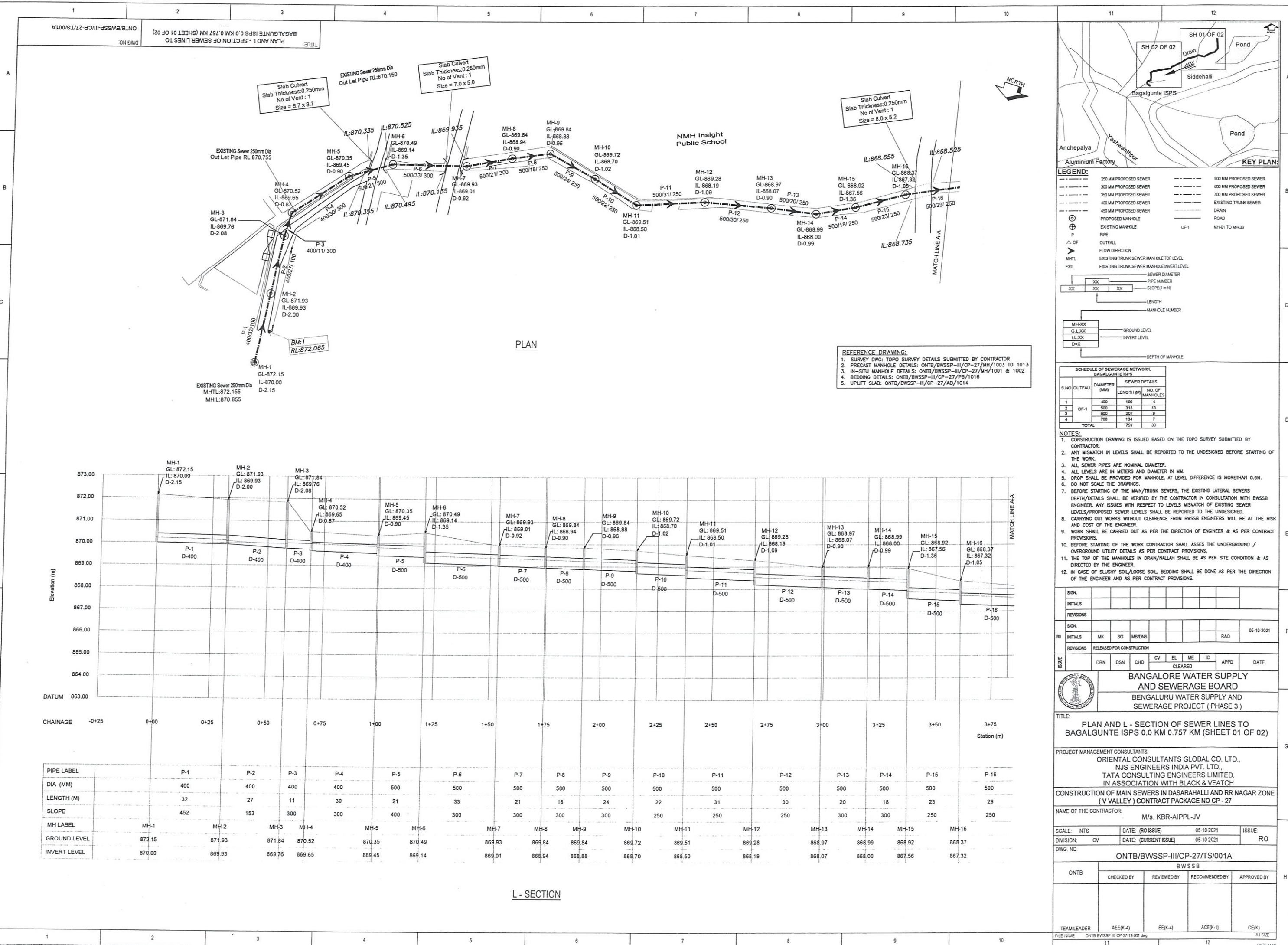
Dr. Uday G Kelkar
Team Leader (Design) - Overall Management

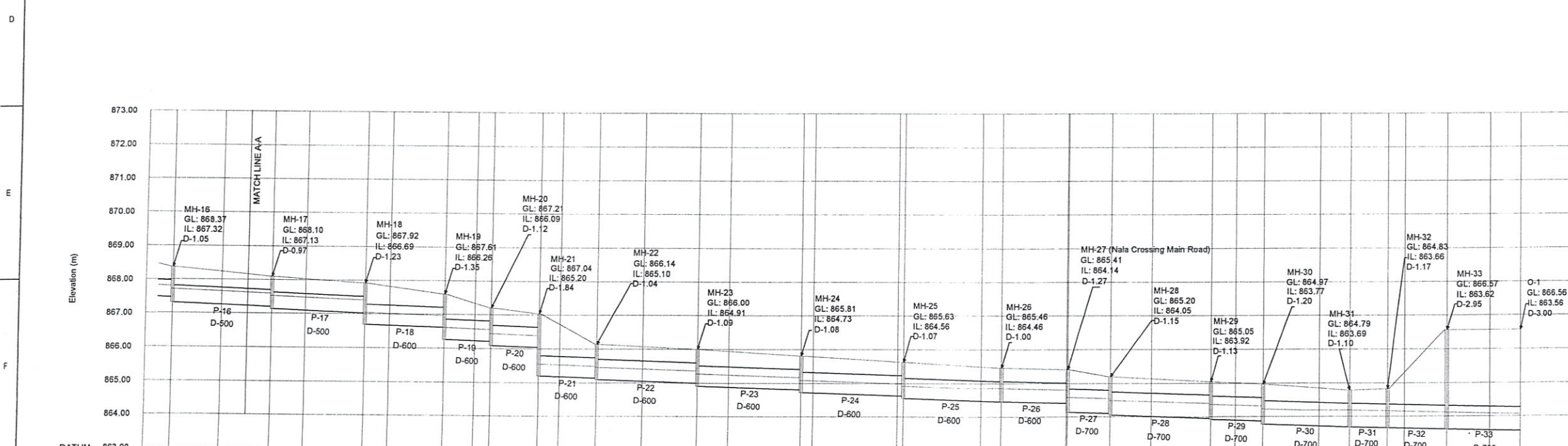
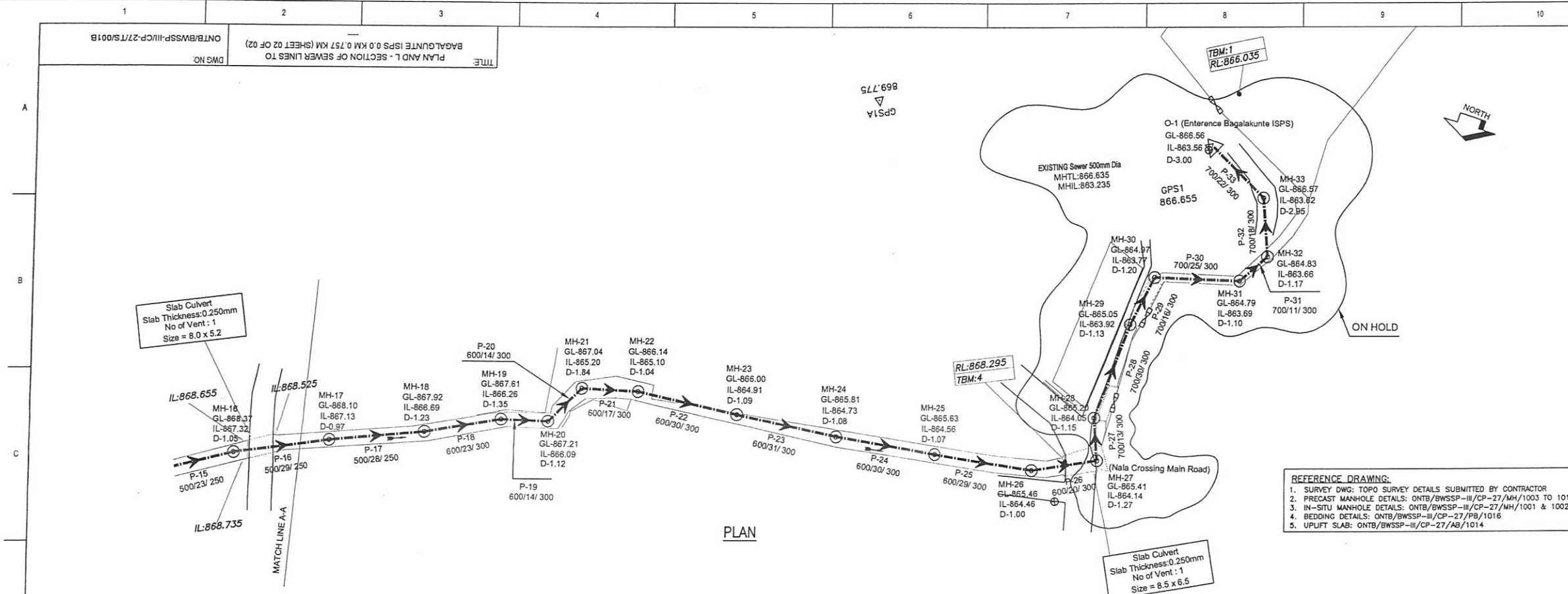
Encl: GFC drawings of Bagalakunte Trunk Sewer, 1 set
c.c: CE(K), Cauvery Bhavan, BWSSB, for kind information (without enclosure)
ACE(K-1), Cauvery Bhavan, BWSSB, for kind information (without enclosure)



ONTB-2815- GFC drawings of Bagalakunte Trunk Sewer.

1/CP-27
Dr. Rao





PIPE LABEL	P-16	P-17	P-18	P-19	P-20	P-21	P-22	P-23	P-24	P-25	P-26	P-27	P-28	P-29	P-30	P-31	P-32	P-33
DIA (MM)	500	500	600	600	600	600	600	600	600	600	600	700	700	700	700	700	700	700
LENGTH (M)	29	28	23	14	14	17	30	31	30	29	20	13	30	16	25	11	18	22
SLOPE	250	250	300	300	300	300	300	300	300	300	391	300	300	300	300	400	400	400
MH LABEL	MH-16	MH-17	MH-18	MH-19	MH-20	MH-21	MH-22	MH-23	MH-24	MH-25	MH-26	MH-27	MH-28	MH-29	MH-30	MH-31	MH-32	MH-33
GROUND LEVEL	868.37	868.10	867.92	867.61	867.21	867.04	866.14	866.00	865.81	865.63	865.46	865.41	865.20	865.05	864.97	864.79	864.83	866.57
INVERT LEVEL	867.32	867.13	866.69	866.26	865.09	865.20	865.10	864.91	864.73	864.56	864.46	864.14	864.05	863.92	863.77	863.69	863.66	863.56

SH 01 OF 02

SH 02 OF 02

Drain

Pond

Sliddehalli

Bagalunte ISPS

Anchepalya

Yashwanthpur

Aluminium Factory

KEY PLAN:

LEGEND:

250 MM PROPOSED SEWER

300 MM PROPOSED SEWER

350 MM PROPOSED SEWER

400 MM PROPOSED SEWER

450 MM PROPOSED SEWER

PROPOSED MANHOLE

EXISTING MANHOLE

PIPE

OUTFALL

FLOW DIRECTION

MHTL

EXIL

SEWER DIAMETER

PIPE NUMBER

SLOPE (1 IN N)

LENGTH

MANHOLE NUMBER

MH-XX

G L-XX

I L-XX

D=XX

GROUND LEVEL

INVERT LEVEL

DEPTH OF MANHOLE

500 MM PROPOSED SEWER

600 MM PROPOSED SEWER

700 MM PROPOSED SEWER

EXISTING TRUNK SEWER

ROAD

OF-1

MH-01 TO MH-33

SCHEDULE OF SEWERAGE NETWORK

BAGALUNTE ISPS

S.NO	OUTFALL	DIAMETER (MM)	SEWER DETAILS	NO. OF MANHOLES
1		400	100	4
2	OF-1	500	318	13
3		600	207	9
4		700	134	7
TOTAL			759	33

NOTES:

1. CONSTRUCTION DRAWING IS ISSUED BASED ON THE TOPO SURVEY SUBMITTED BY CONTRACTOR.

2. ANY MISMATCH IN LEVELS SHALL BE REPORTED TO THE UNDESIGNED BEFORE STARTING OF THE WORK.

3. ALL SEWER PIPES ARE NOMINAL DIAMETER.

4. ALL LEVELS ARE IN METERS AND DIAMETER IN MM.

5. DROP SHALL BE PROVIDED FOR MANHOLE, AT LEVEL DIFFERENCE IS MORE THAN 0.6M.

6. DO NOT SCALE THE DRAWINGS.

7. BEFORE STARTING OF THE MAIN/TRUNK SEWERS, THE EXISTING LATERAL SEWERS DEPTH/DETAILS SHALL BE VERIFIED BY THE CONTRACTOR IN CONSULTATION WITH BWSB ENGINEER. ANY ISSUES WITH RESPECT TO LEVELS MISMATCH OF EXISTING SEWER LEVELS/PROPOSED SEWER LEVELS SHALL BE REPORTED TO THE UNDESIGNED.

8. CARRYING OUT WORKS WITHOUT CLEARANCE FROM BWSB ENGINEERS WILL BE AT THE RISK AND COST OF THE ENGINEER.

9. WORK SHALL BE CARRIED OUT AS PER THE DIRECTION OF ENGINEER & AS PER CONTRACT PROVISIONS.

10. BEFORE STARTING OF THE WORK CONTRACTOR SHALL ASSES THE UNDERGROUND / OVERGROUND UTILITY DETAILS AS PER CONTRACT PROVISIONS.

11. THE TOP OF THE MANHOLES IN DRAIN/MALLAH SHALL BE AS PER SITE CONDITION & AS DIRECTED BY THE ENGINEER.

12. IN CASE OF SLUSHY SOIL/LOOSE SOIL, BEDDING SHALL BE DONE AS PER THE DIRECTION OF THE ENGINEER AND AS PER CONTRACT PROVISIONS.

SIGN

INITIALS

REVISIONS

SIGN

INITIALS

REVISIONS

RELEASED FOR CONSTRUCTION

DRN

DSN

CHD

CV

EL

ME

IC

APPO

DATE

05-10-2021

RAO

MB/DNS

SG

MK

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

BENGALURU WATER SUPPLY AND SEWERAGE PROJECT (PHASE 3)

TITLE

PLAN AND L - SECTION OF SEWER LINES TO BAGALGUNTE ISPS 0.0 KM 0.757 KM (SHEET 02 OF 02)

PROJECT MANAGEMENT CONSULTANTS:

ORIENTAL CONSULTANTS GLOBAL CO. LTD.,

NJS ENGINEERS INDIA PVT. LTD.,

TATA CONSULTING ENGINEERS LIMITED,

IN ASSOCIATION WITH BLACK & VEATCH

CONSTRUCTION OF MAIN SEWERS IN DASARAHALLI AND RR NAGAR ZONE (V VALLEY) CONTRACT PACKAGE NO CP - 27

NAME OF THE CONTRACTOR:

M/s. KBR-AIPL-JV

SCALE: NTS

DATE: (FOR ISSUE)

30-09-2021

ISSUE

DIVISION: CV

DATE: (CURRENT ISSUE)

30-09-2021

R0

DWG. NO.

ONTB/BWSSP-III/CP-27/TS/001B

ONTB

BWSSB

CHECKED BY

REVIEWED BY

RECOMMENDED BY

APPROVED BY

TEAM LEADER

AEE(K-4)

EE(K-4)

ACE(K-1)

CE(K)

FILE NAME

ONTB-BWSSP-III-CP-27-TS-001.dwg

AT SIZE

11

12

ONTB/AI-00