

Legend :-

- 1. Ground Level —
- 2. Rising Main —
- 3. Junction
- 4. Air Valve
- 5. Scour Valve

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
- 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS BAIRI
LOWER (NICHALI) BAIRI & UPPER BAIRI CLUSTER
DHARAMPUR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED

MUMBAI

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| JE | AE | EE | SE |
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| REVISIONS | | AS PER CLIENT COMMENTS | | | | | | | | | | | | |
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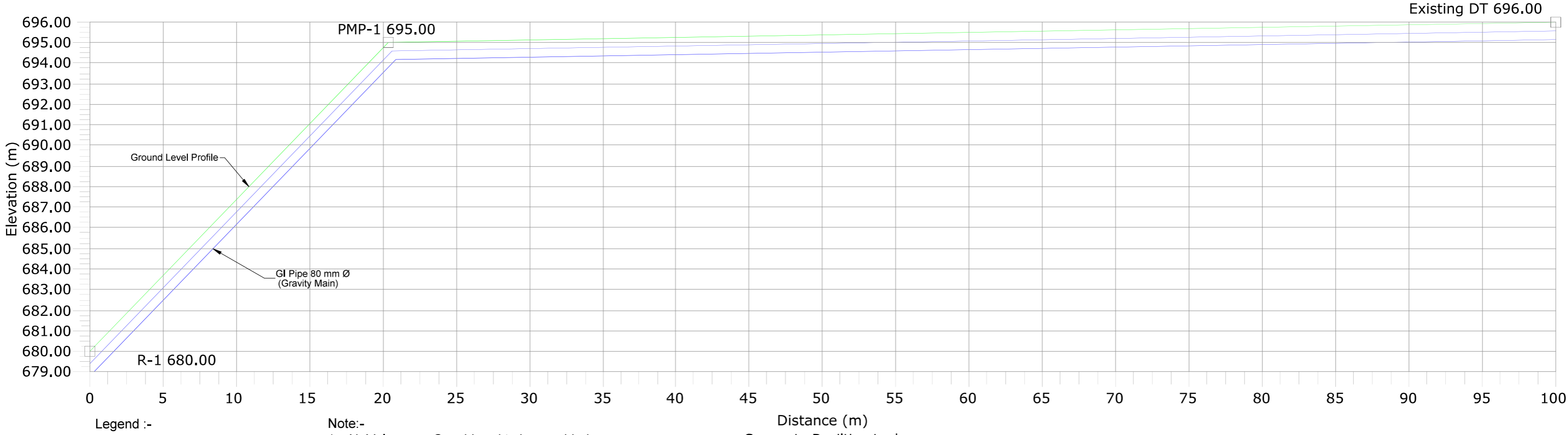
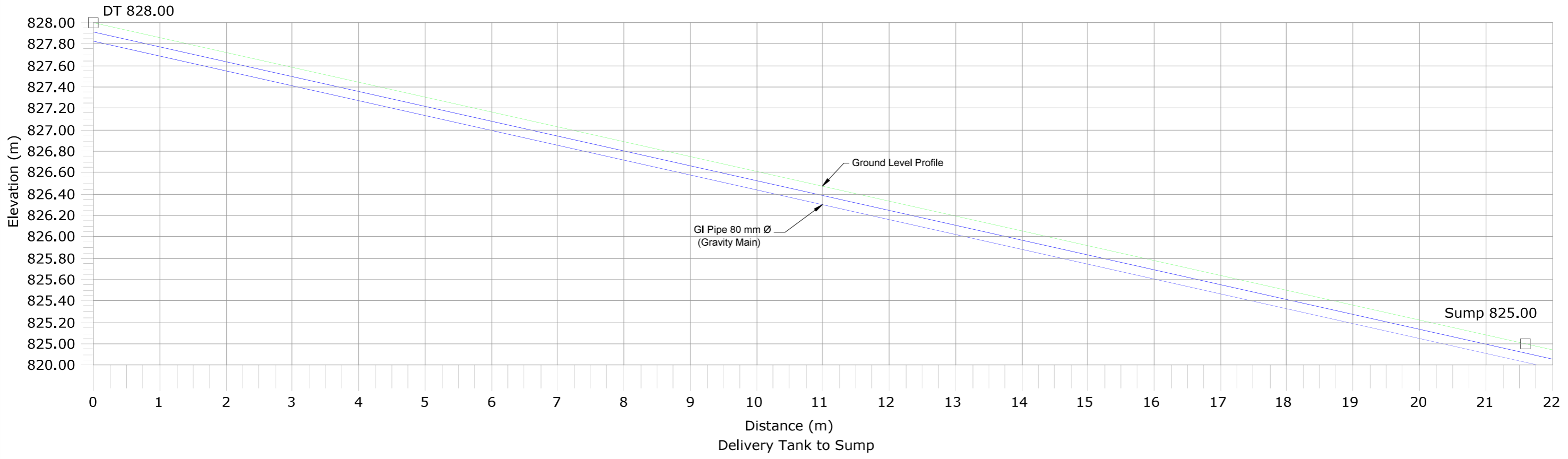
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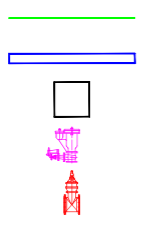
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FILE NAME 12503A-CV-32372-Rev-P1

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| SCALE : NTS | DWG NO. TCE.12503A-CV-3082-WS-32372 | ISSUE P1 |
| DC & DISC: DEL-CV | | |



- Legend :-**
1. Ground Level
 2. Rising Main
 3. Junction
 4. Air Valve
 5. Scour Valve



- Note:-**
- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
 - 2 - Scour Valves are Provided at 2000 m c/c Distance.
 - 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

SIGN. OF CLIENT:-

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FILE NAME 12503A-CV-32373-Rev-PO



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS BRANG
(BAROTA CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED

MUMBAI

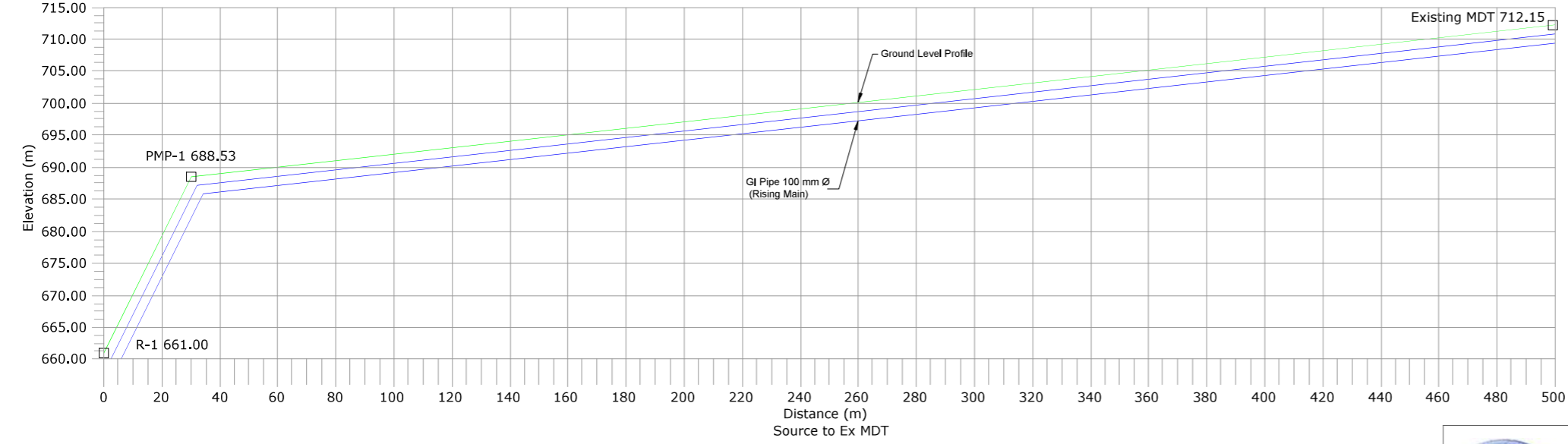
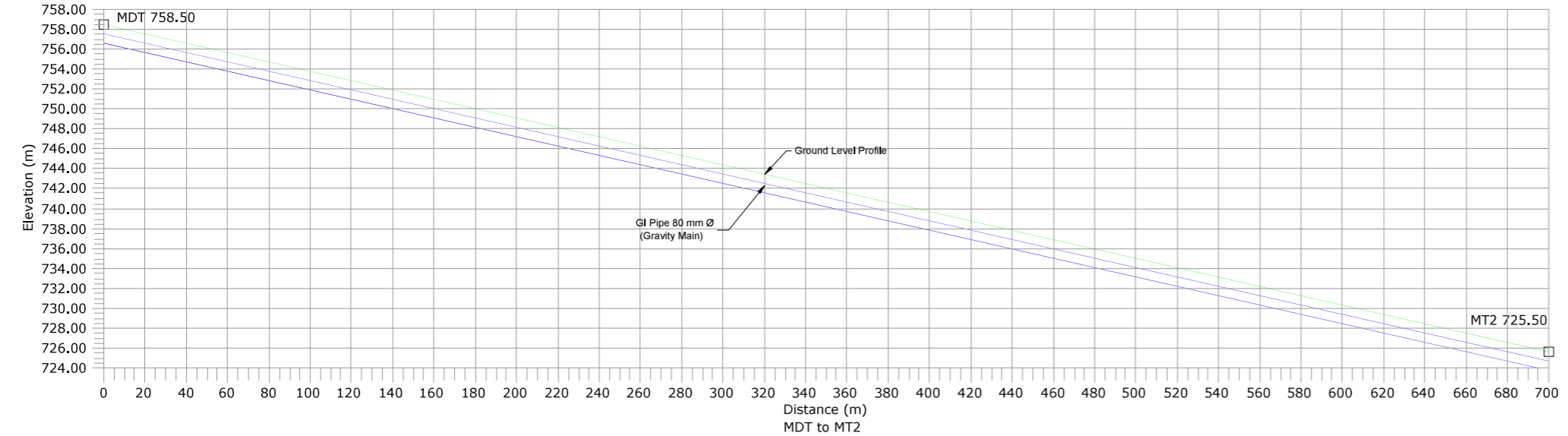
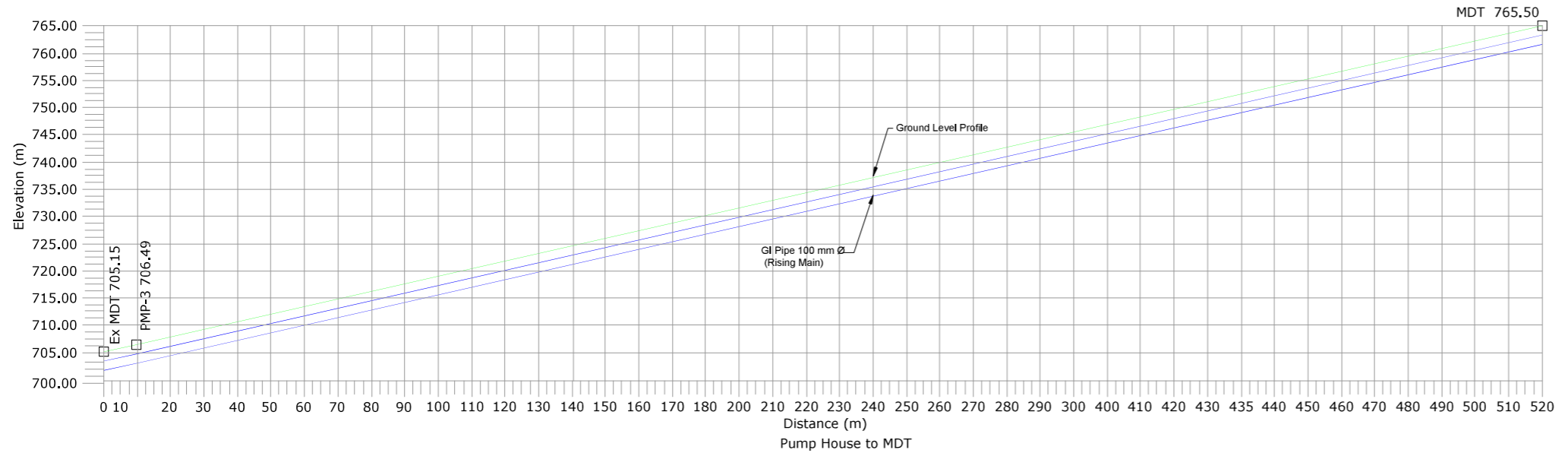
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| PO SIGN. | | | | | | | | | | | | | | | | | | | |
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- Legend :-**
- 1. Ground Level
 - 2. Rising Main
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
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- 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

SIGN. OF CLIENT:-

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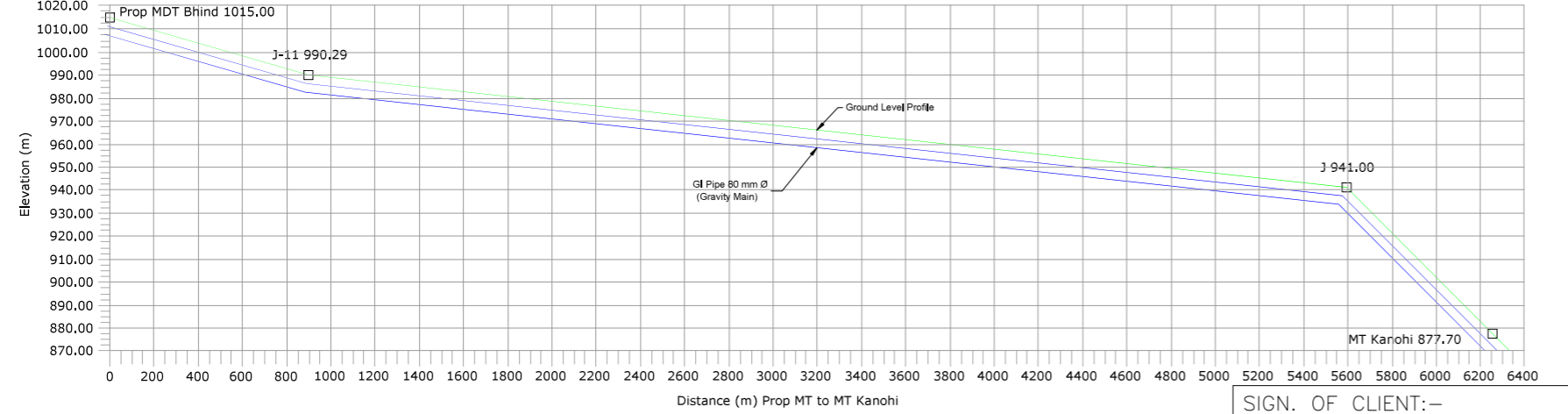
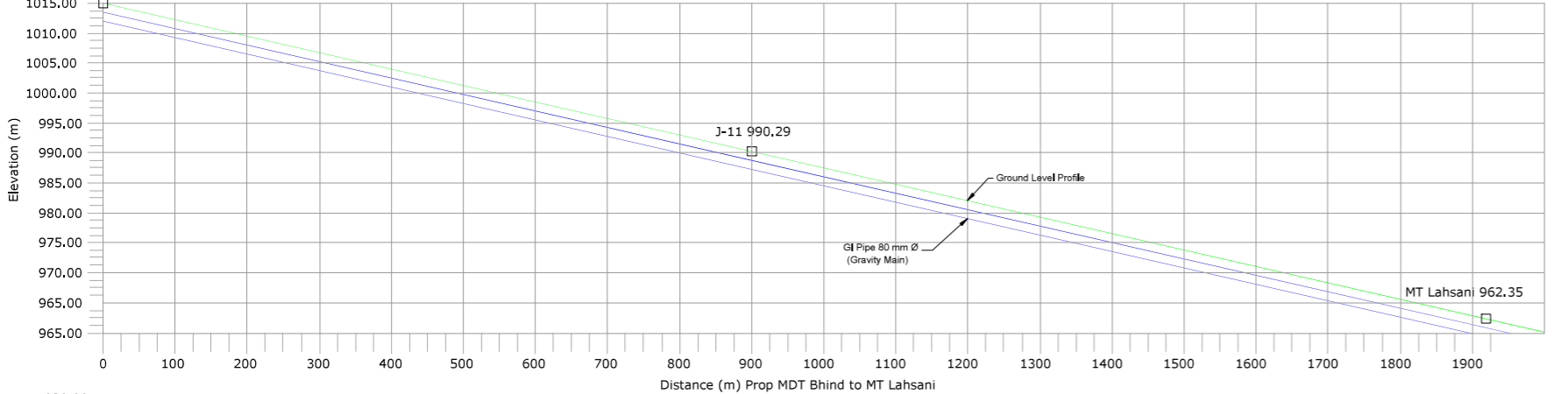
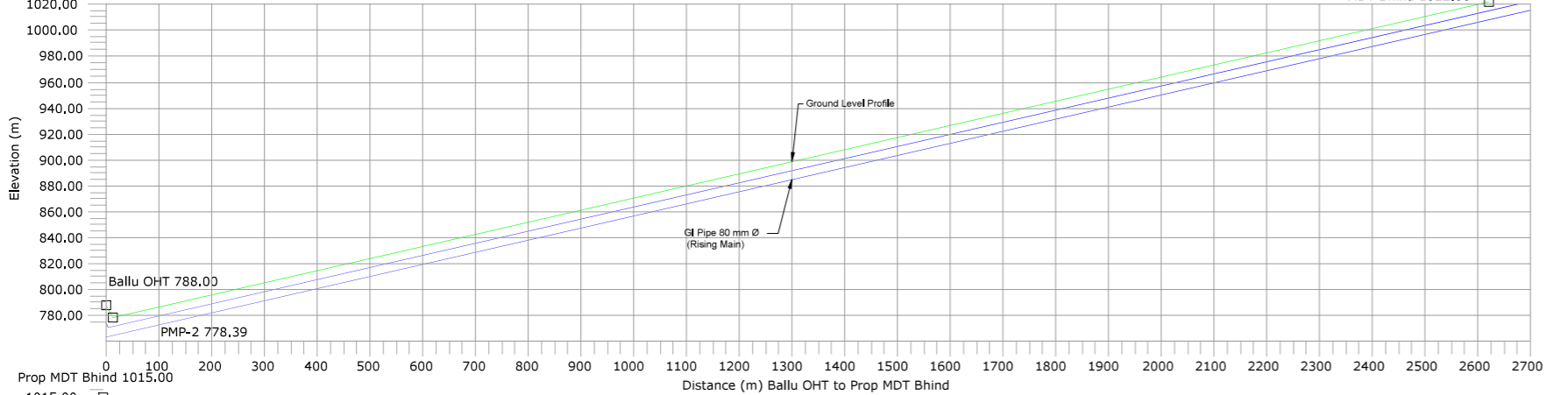
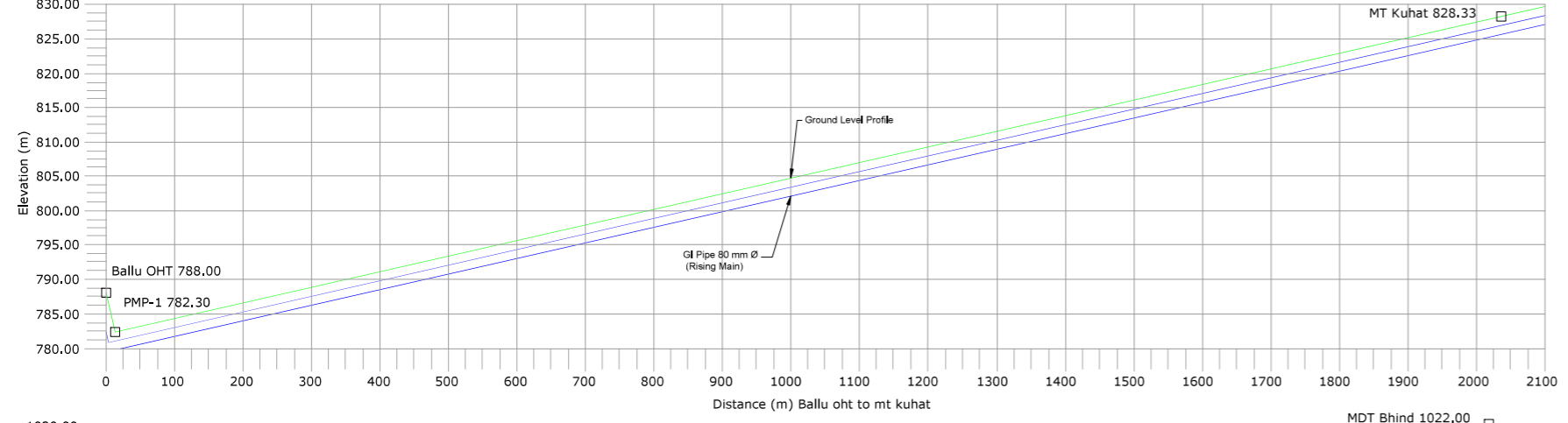
FILE NAME 12503A-CV-32374-Rev-P1

PROPOSED L-SECTION-LIS CHURU BALH
(CHURU RA BALH CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

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Legend :-

- 1. Ground Level
- 2. Rising Main
- 3. Junction
- 4. Air Valve
- 5. Scour Valve

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS SANDHOLE
(SINGLE KUHAT, LAHSANI & KANOHI CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SIGN. OF CLIENT:-

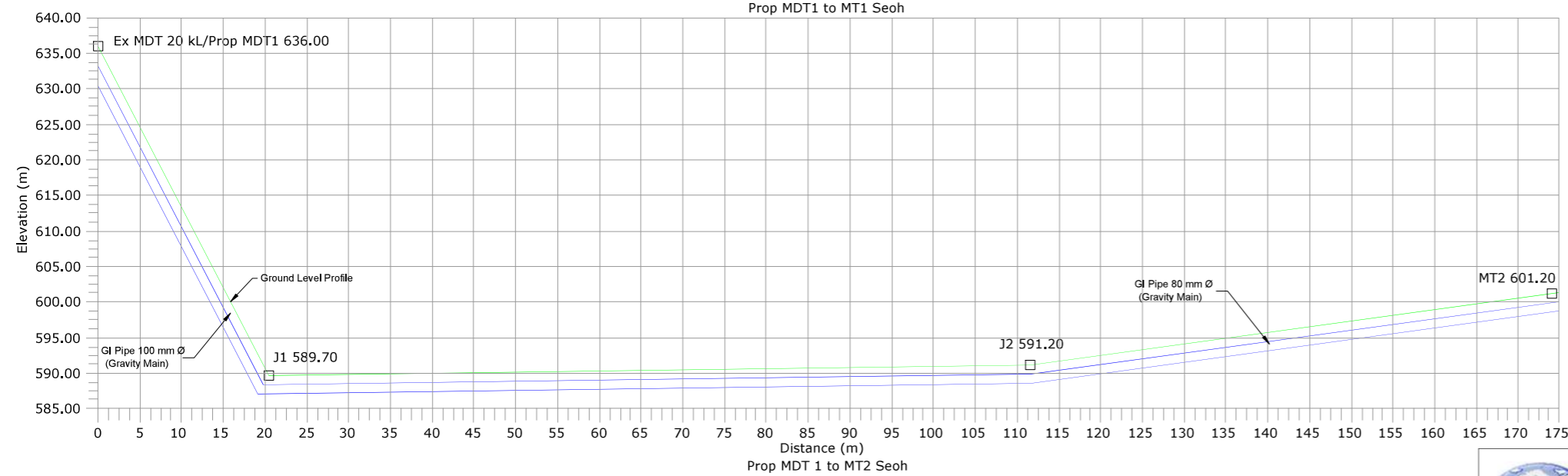
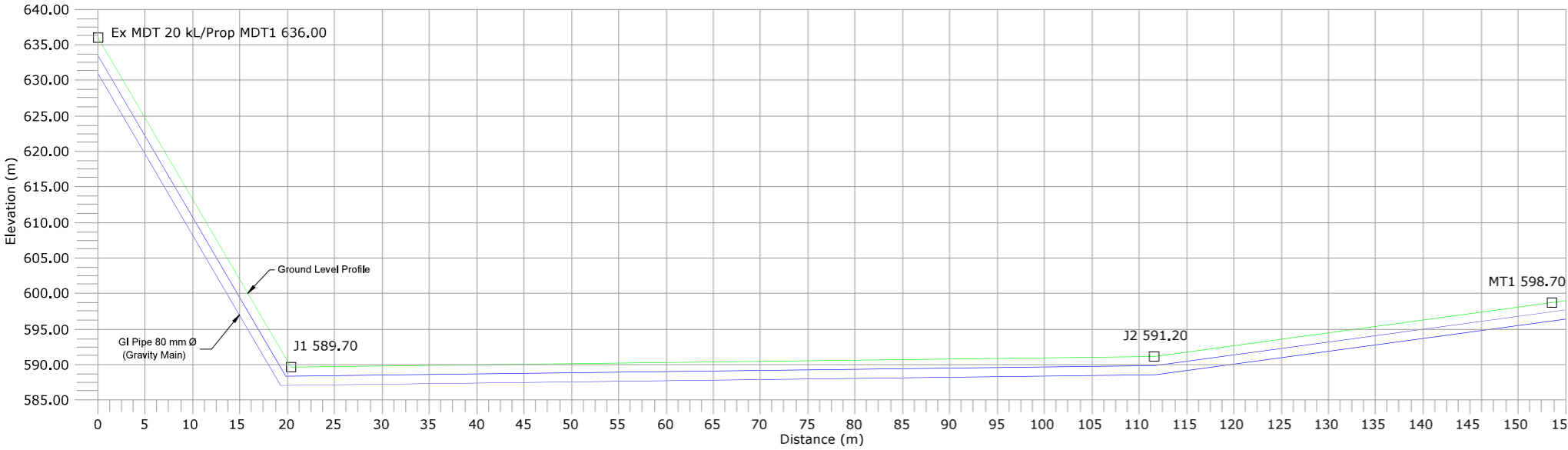
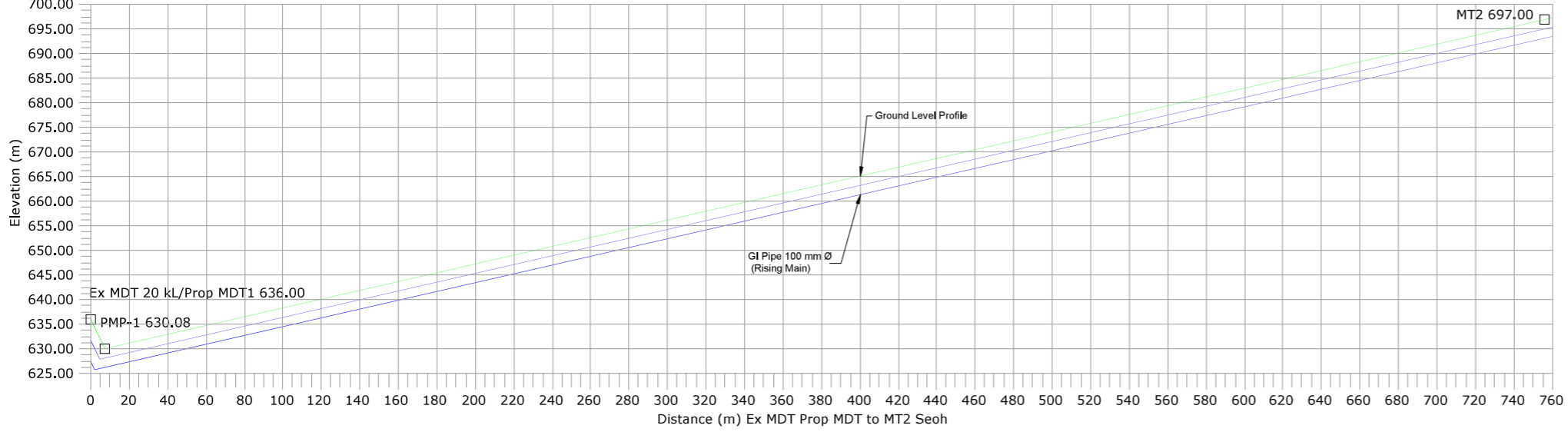
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Legend :-

- 1. Ground Level
- 2. Rising Main
- 3. Junction
- 4. Air Valve
- 5. Scour Valve

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
- 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.


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| SIGN. | | | | | | | | | | |
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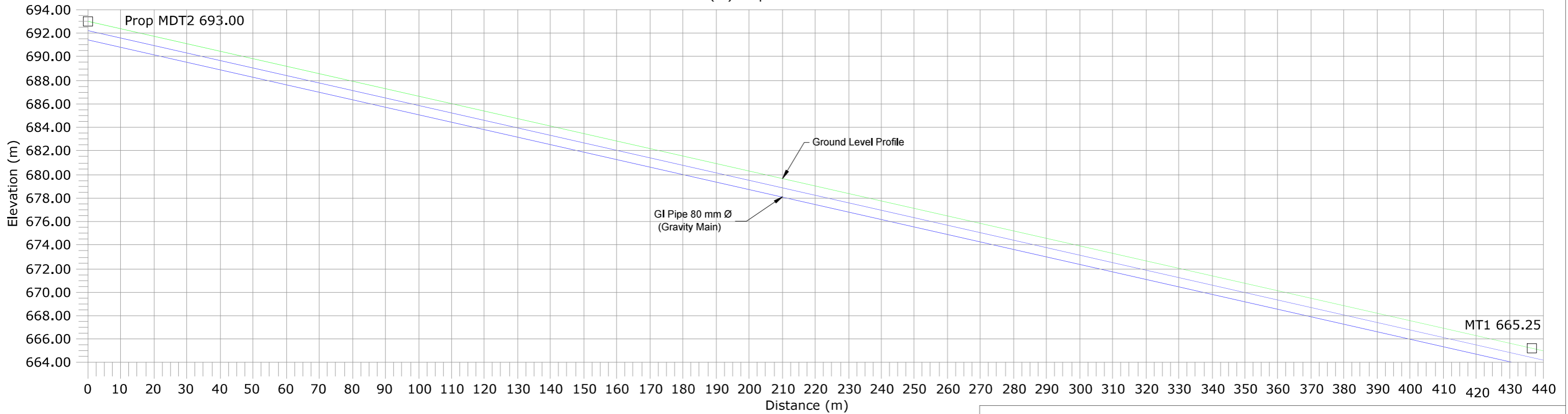
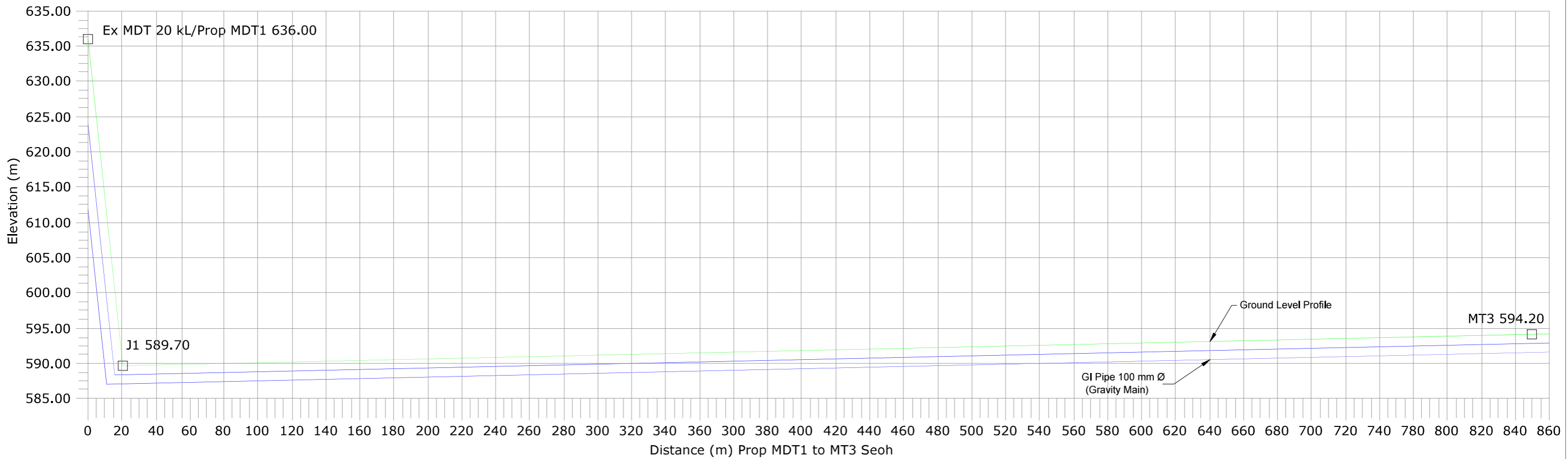


DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

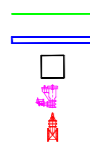
PROPOSED L-SECTION-LIS SEOH
(SEOH-II CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



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- Legend :-
1. Ground Level
 2. Rising Main
 3. Junction
 4. Air Valve
 5. Scour Valve



Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
- 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

Distance (m)
Prop MDT2 to MT1 Seoh

SIGN. OF CLIENT:-

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| JE | AE | EE | SE |
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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS SEOH
(SEOH BALH NICHLA CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

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|-----------|----------|-----|-----|----|----|----|------------|-------|------|-------------------|
| SIGN. | | | | | | | | | | |
| | INITIALS | | | | | | | | | |
| REVISIONS | | | | | | | | | | |
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| | BSN | DVB | SGB | MK | | DK | 10-06-2022 | | | |
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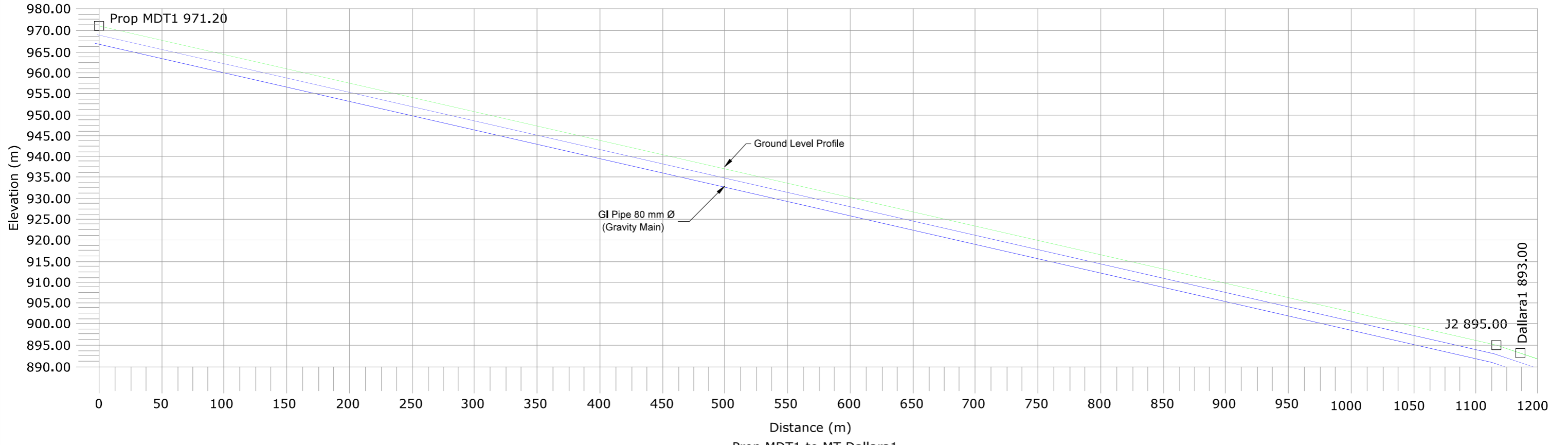
SCALE : NTS

DWG NO. TCE.12503A-CV-3082-WS-32377

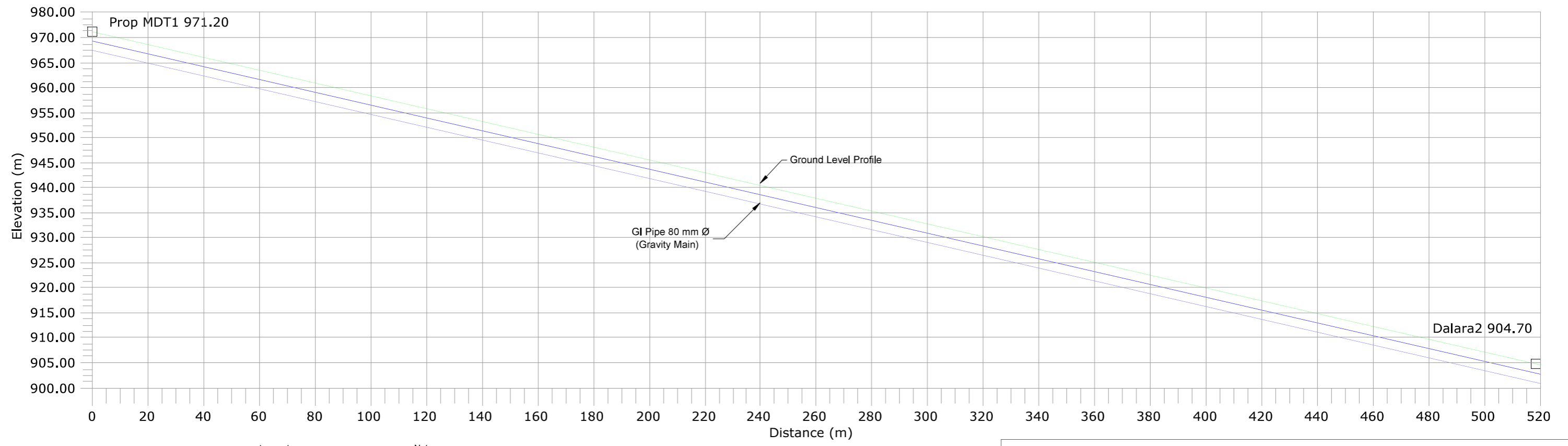
ISSUE P0

FILE NAME 12503A-CV-32377-Rev-P0

DC & DISC: DEL-CV



Prop MDT1 to MT Dallara1



Prop MDT1 to MT Dhallara2

- Legend :-**
- 1. Ground Level —
 - 2. Rising Main —
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
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SIGN. OF CLIENT:-

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| JE | AE | EE | SE |
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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS KOTHUA DALLARA
(DHALLARA-1 & DHALLARA-2 CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED

MUMBAI

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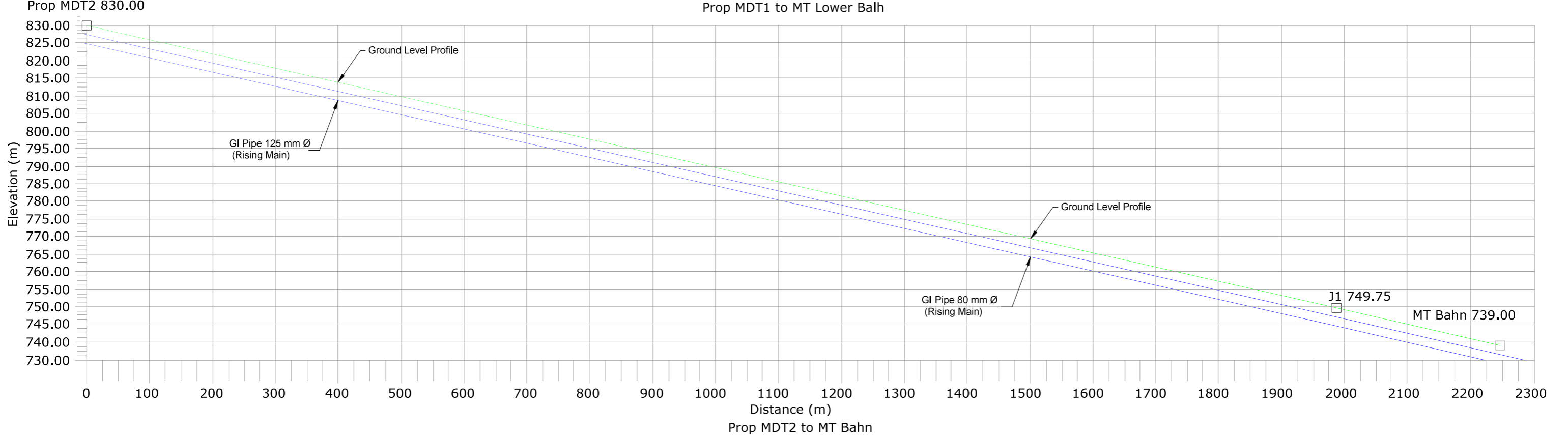
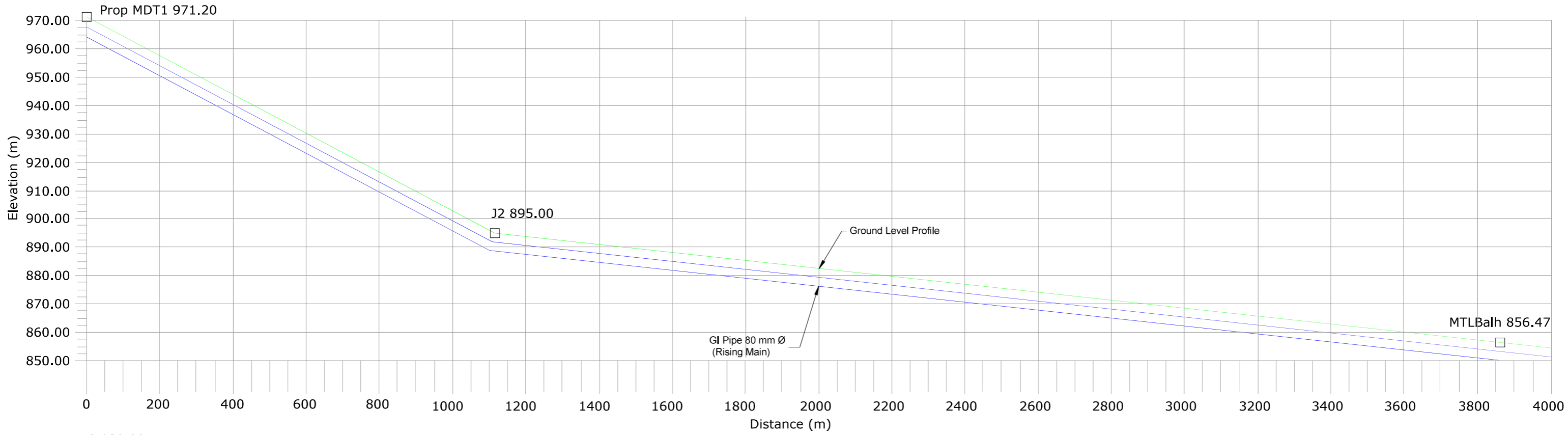
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FILE NAME 12503A-CV-32378-Rev-P0

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| SCALE : NTS | DWG NO. TCE.12503A-CV-3082-WS-32378 | ISSUE P0 |
| DC & DISC: DEL-CV | | |



- Legend :-**
- 1. Ground Level —
 - 2. Rising Main —
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
- 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS KOTHUA DALLARA
(BAHN CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SIGN. OF CLIENT:-

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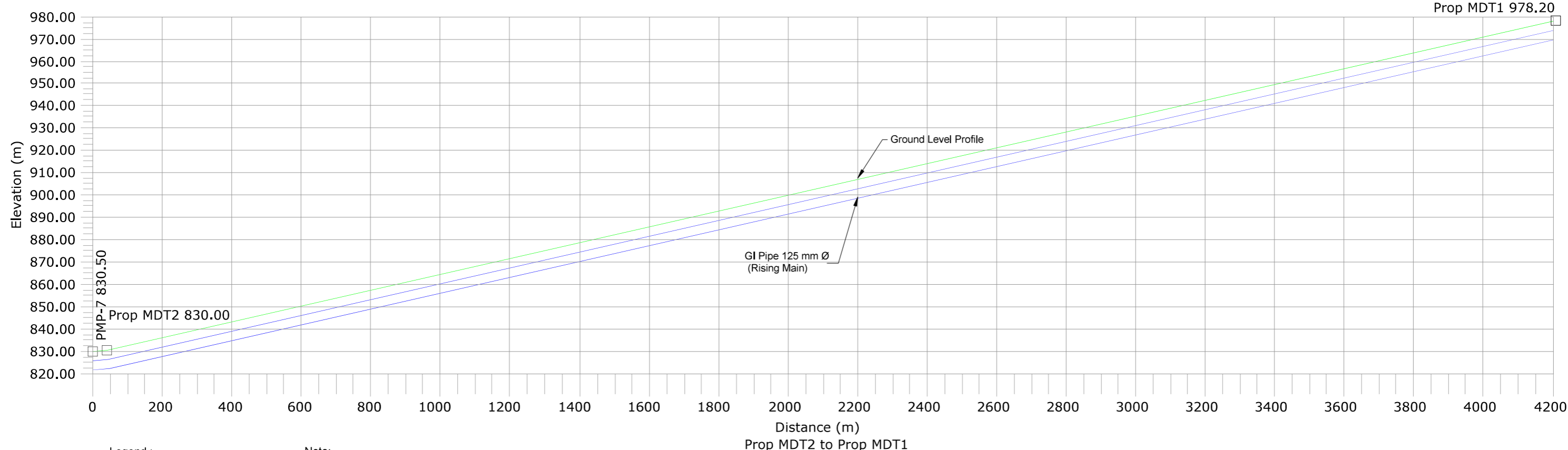
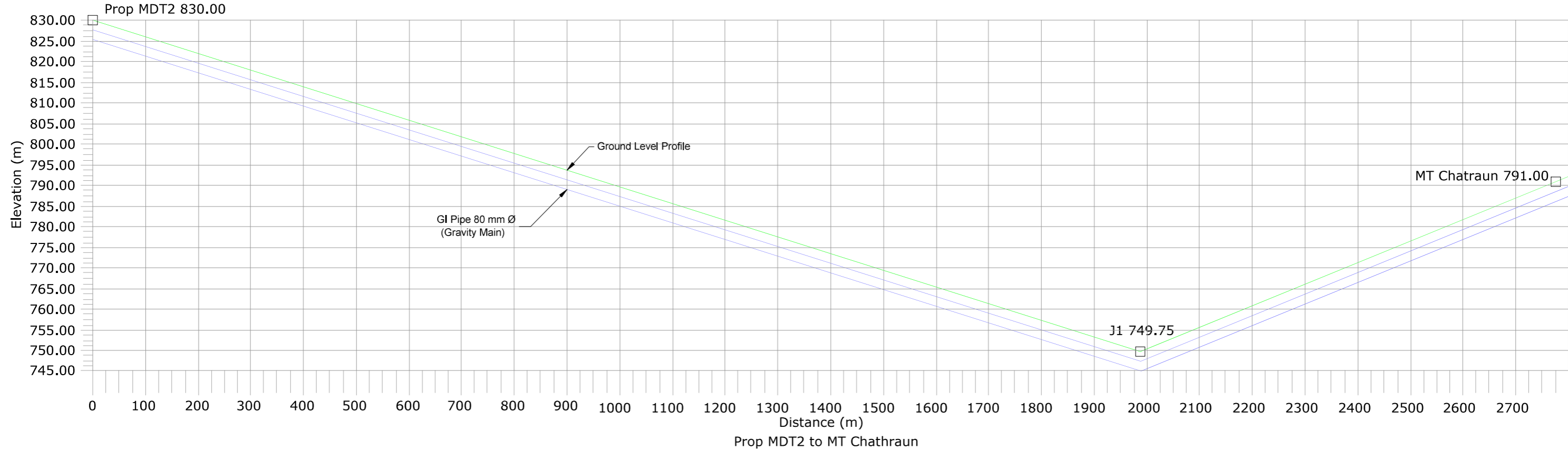
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FILE NAME 12503A-CV-32379-Rev-P0

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- Legend :-**
- 1. Ground Level —
 - 2. Rising Main —
 - 3. Junction
 - 4. Air Valve ⚙️
 - 5. Scour Valve ⚙️

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
- 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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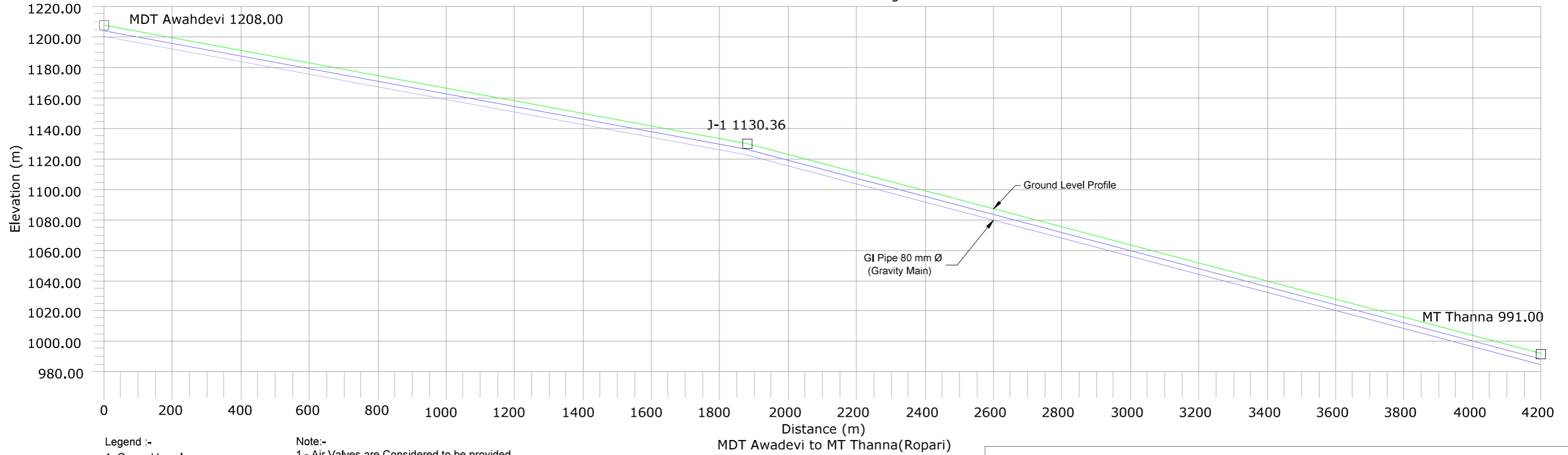
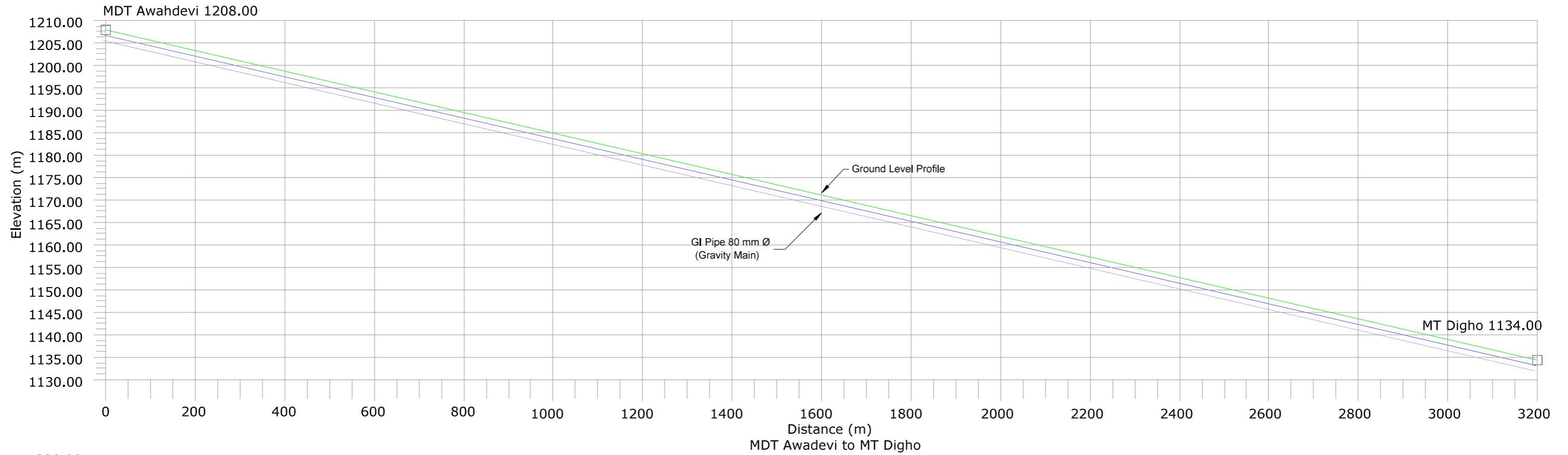
DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
 IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT
PROPOSED L-SECTION-LIS KOTHUA DALLARA (CHATRAUN LOWER CLUSTER)
 DHARAMPUR BLOCK, MANDI DISTRICT

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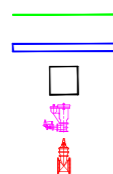
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 FILE NAME 12503A-CV-32380-Rev-P0

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| DC & DISC: DEL-CV | | | |



- Legend :-
1. Ground Level
 2. Rising Main
 3. Junction
 4. Air Valve
 5. Scour Valve



Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
- 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME 12503A-CV-32381-Rev-P0



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS TIHRA
(DIGHO-BAGLANA KARYAL & THANNA ROPARI CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS

DWG NO.

TCE.12503A-CV-3082-WS-32381

ISSUE

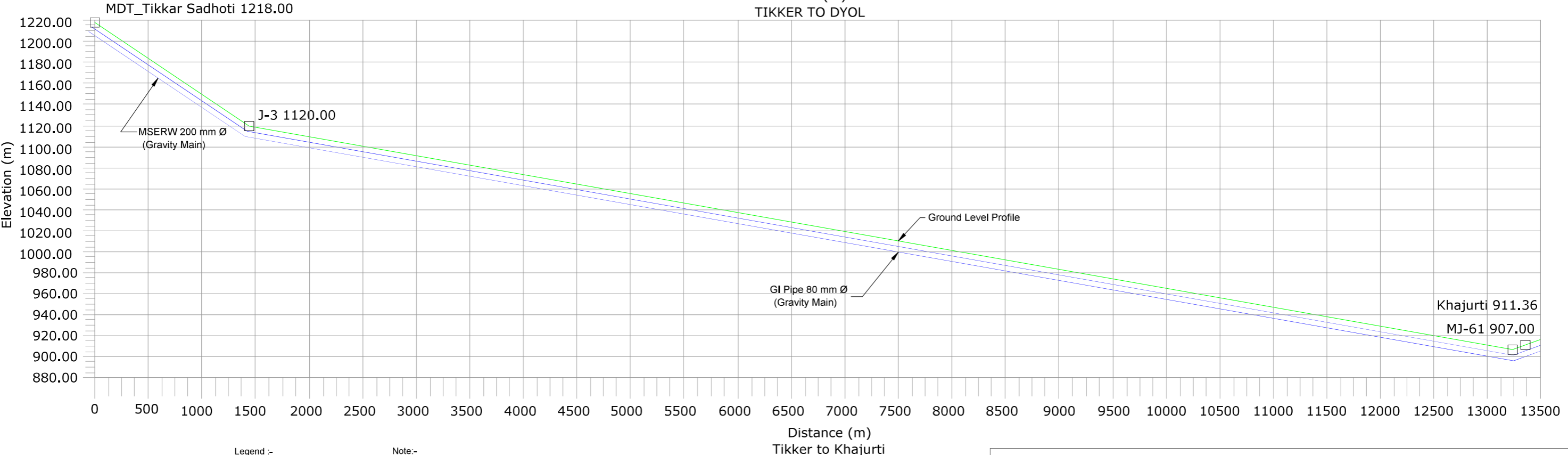
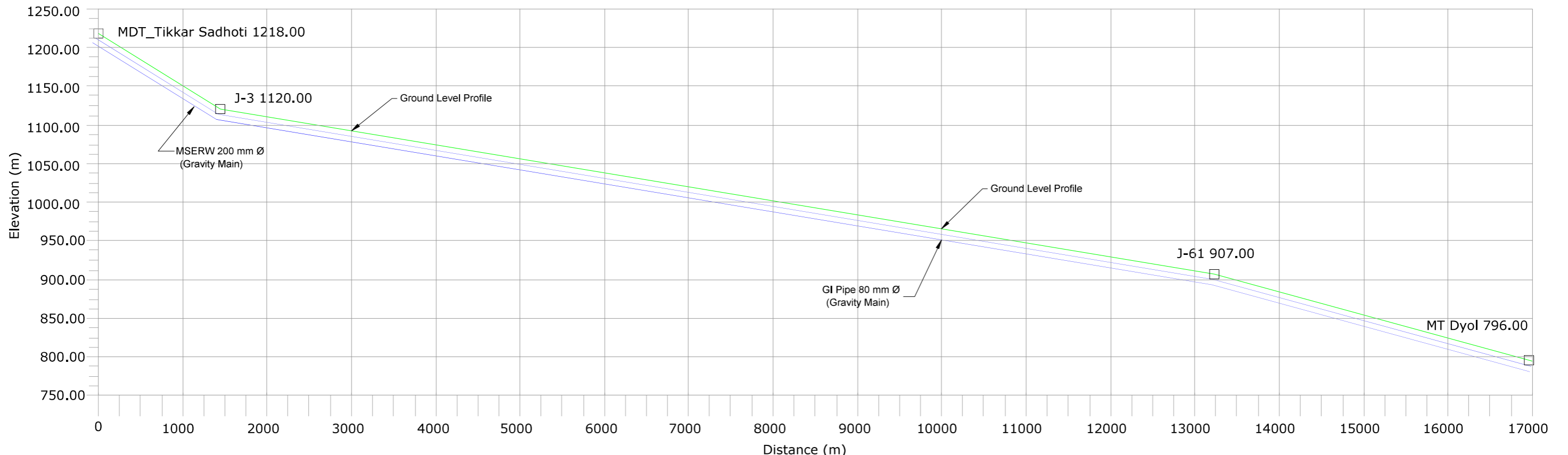
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- Legend :-**
- 1. Ground Level —
 - 2. Rising Main —
 - 3. Junction
 - 4. Air Valve ⚡
 - 5. Scour Valve ⚡

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS TIHRA
(DYOL & KHAJURTI CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



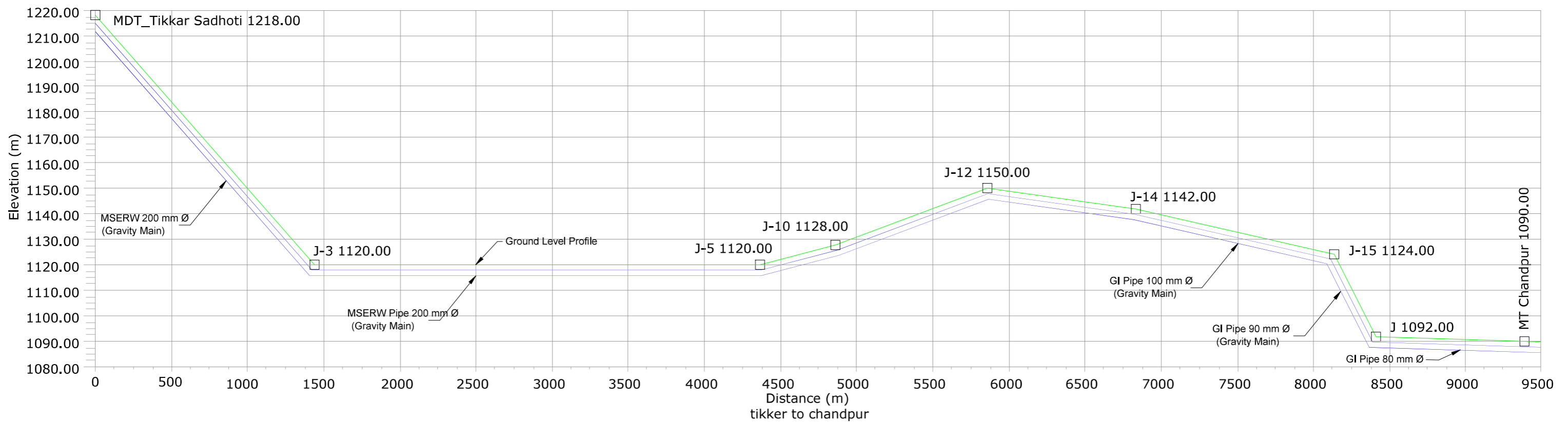
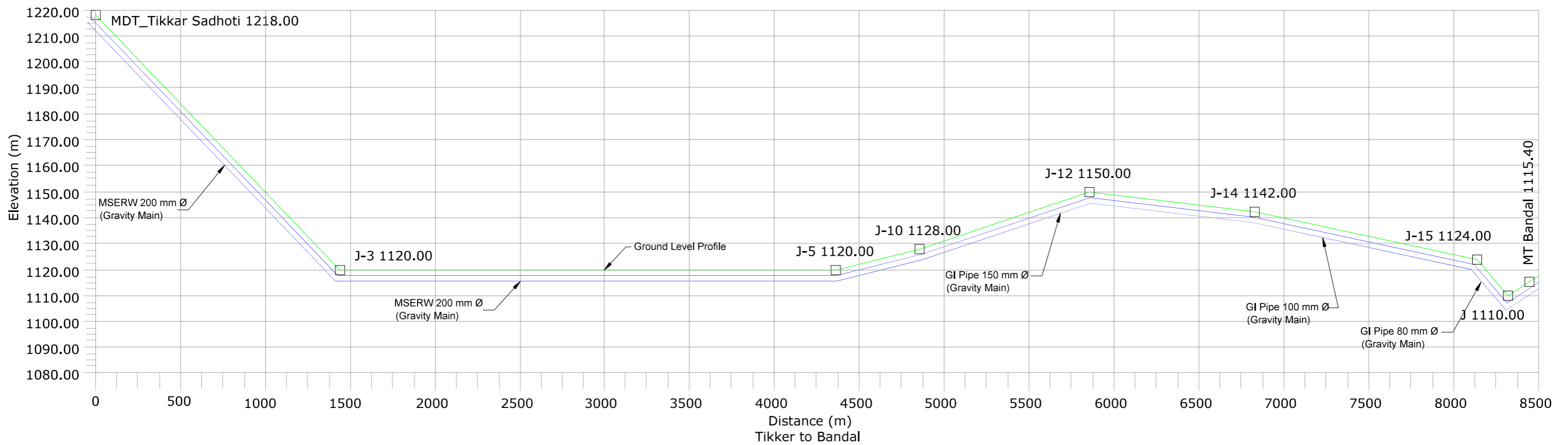
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MUMBAI

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| ISSUE | DRN | DSN | CHD | CV | EL | IC | ME | PE/PM | APPD | DATE (dd-mm-yyyy) |
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- Legend :-**
- 1. Ground Level
 - 2. Rising Main
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
- 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS TIHRA
(BANDAL & CHANDPUR CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS

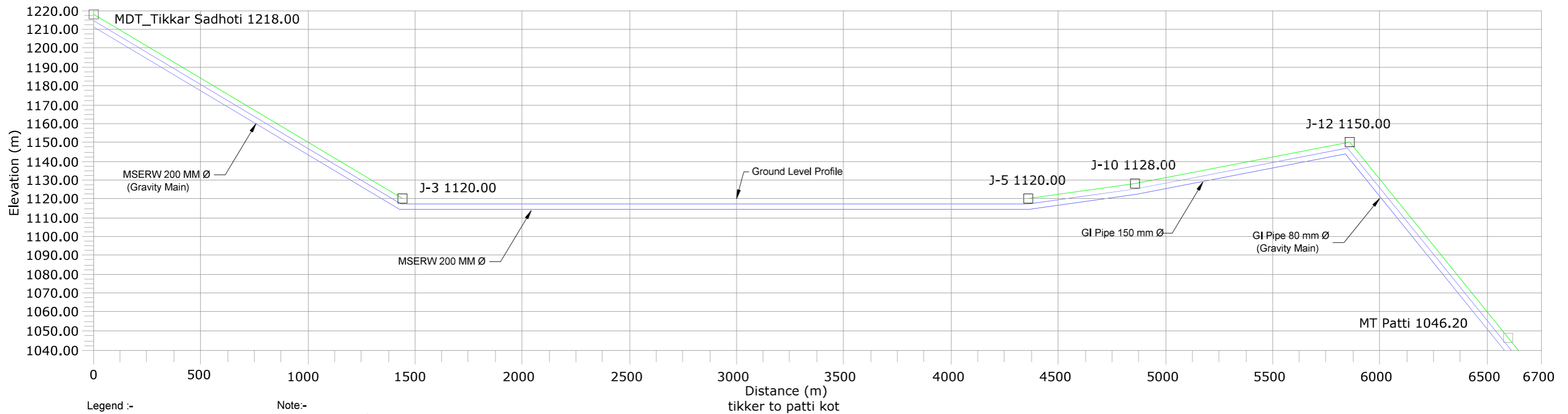
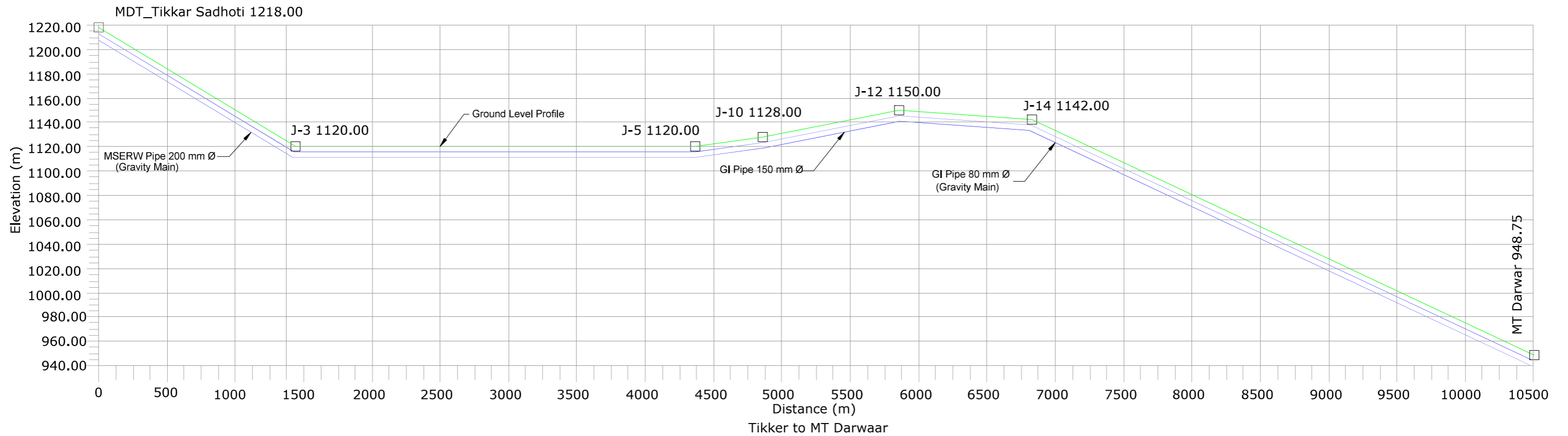
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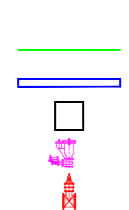
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- Legend :-**
- 1. Ground Level
 - 2. Rising Main
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve



- Note:-**
- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
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SIGN. OF CLIENT:-


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FILE NAME 12503A-CV-32384-Rev-P1

 DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS TIHRA
(DARWAR & PATTI (KOT))
DHARAMPUR BLOCK, MANDI DISTRICT

 **TATA CONSULTING ENGINEERS LIMITED**
MUMBAI

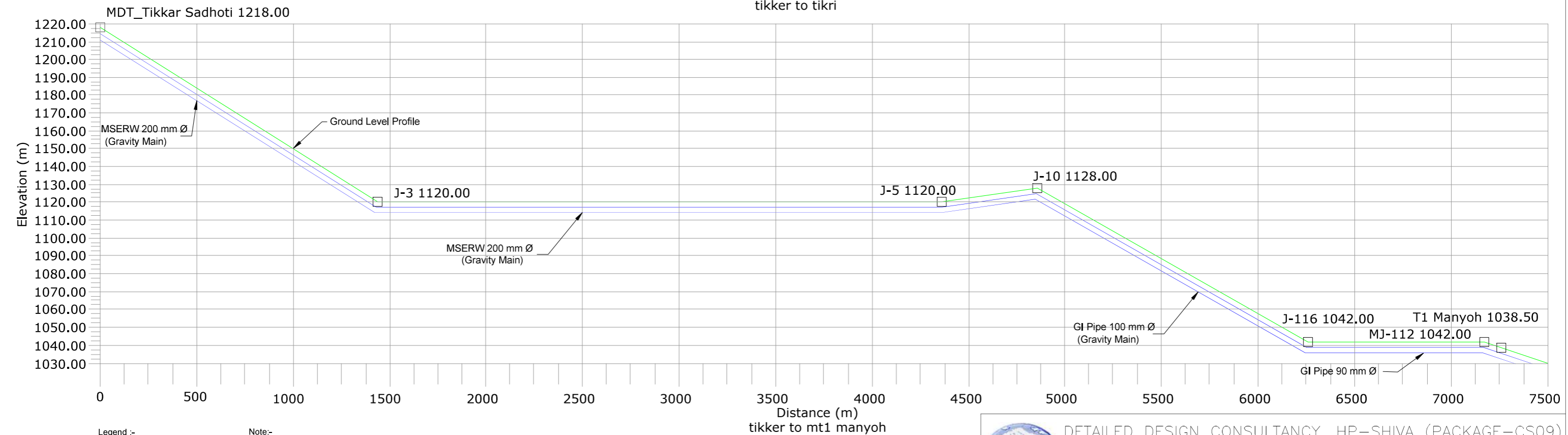
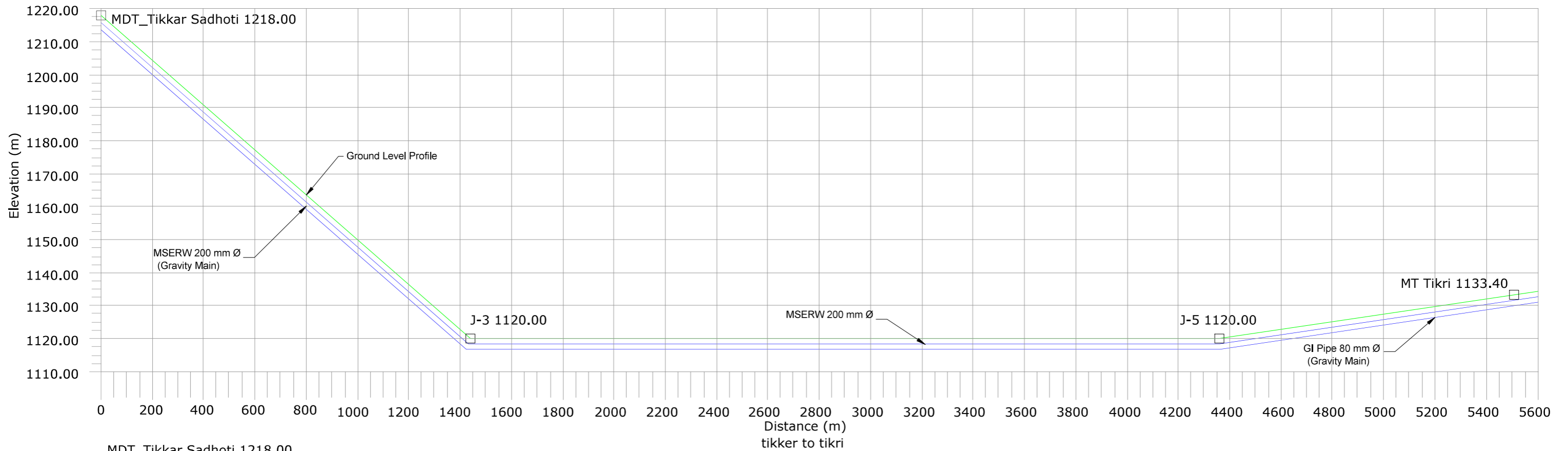
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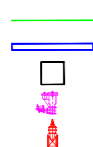
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| DC & DISC: DEL-CV | | |



- Legend :-
1. Ground Level
 2. Rising Main
 3. Junction
 4. Air Valve
 5. Scour Valve



- Note:-
- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
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SIGN. OF CLIENT:-

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FILE NAME 12503A-CV-32385-Rev-P1

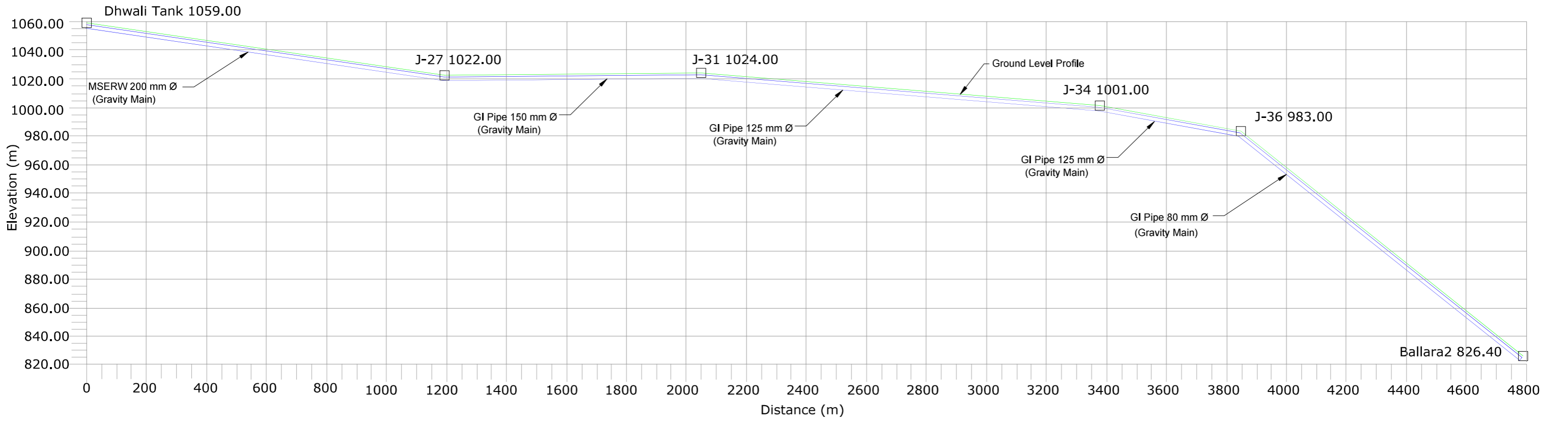
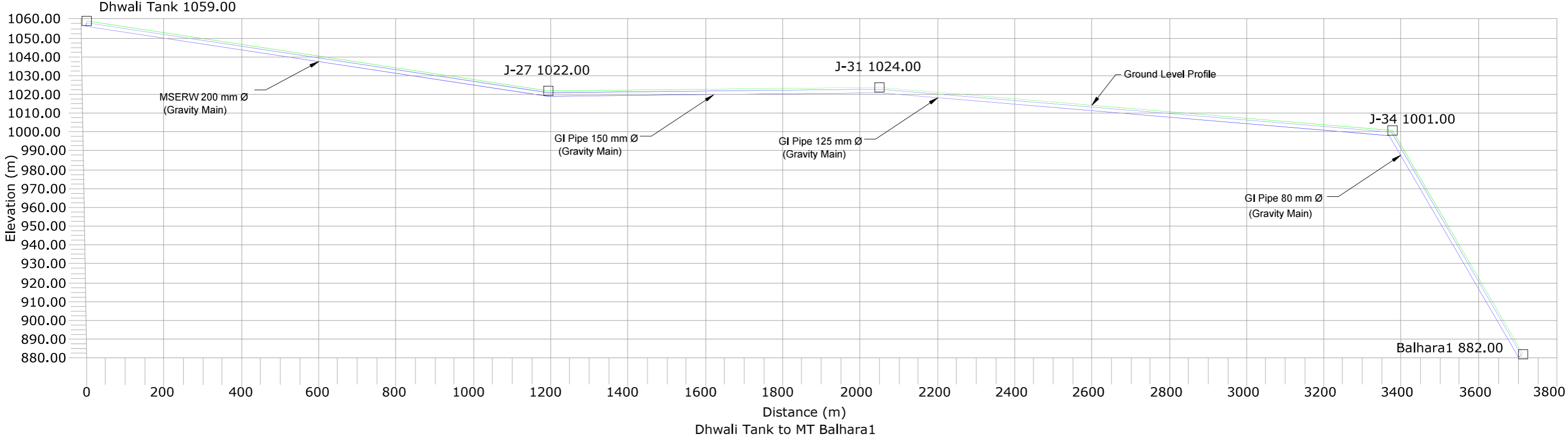
DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS TIHRA
(THIKKI & MANYOH-LAMBRI CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



| | | | | | | | | | | | | | | |
|-------|-----------|------------------------|-----|-----|---------|----|----|----|--|--|-------|------|-------------------|---|
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| ISSUE | | DRN | DSN | CHD | CV | EL | IC | ME | | | PE/PM | APPD | DATE (dd-mm-yyyy) | |
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| SCALE : NTS | DWG NO. TCE.12503A-CV-3082-WS-32385 | ISSUE P1 |
| DC & DISC: DEL-CV | | |



- Legend :-**
- 1. Ground Level —
 - 2. Rising Main —
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
- 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

Dhwali tank to MT Ballara2



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS BARHI MARHI DHWALI
(BALHARA-1 & BALHARA-2 CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

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| P1 | SIGN. | SM | MJ | DVB | | | | | | MK | DK | 20-07-2022 |
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| PO | SIGN. | BSN | DVB | SGB | | | | | | MK | DK | 10-06-2022 |
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| ISSUE | DRN | DSN | CHD | CV | EL | IC | ME | | | PE/PM | APPD | DATE (dd-mm-yyyy) |
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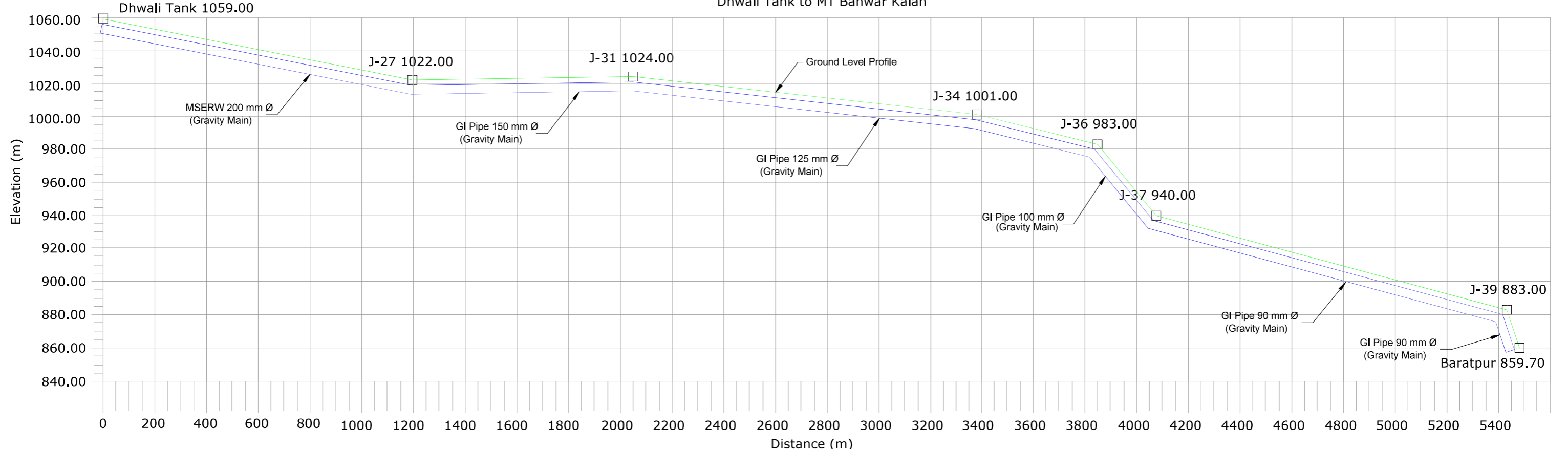
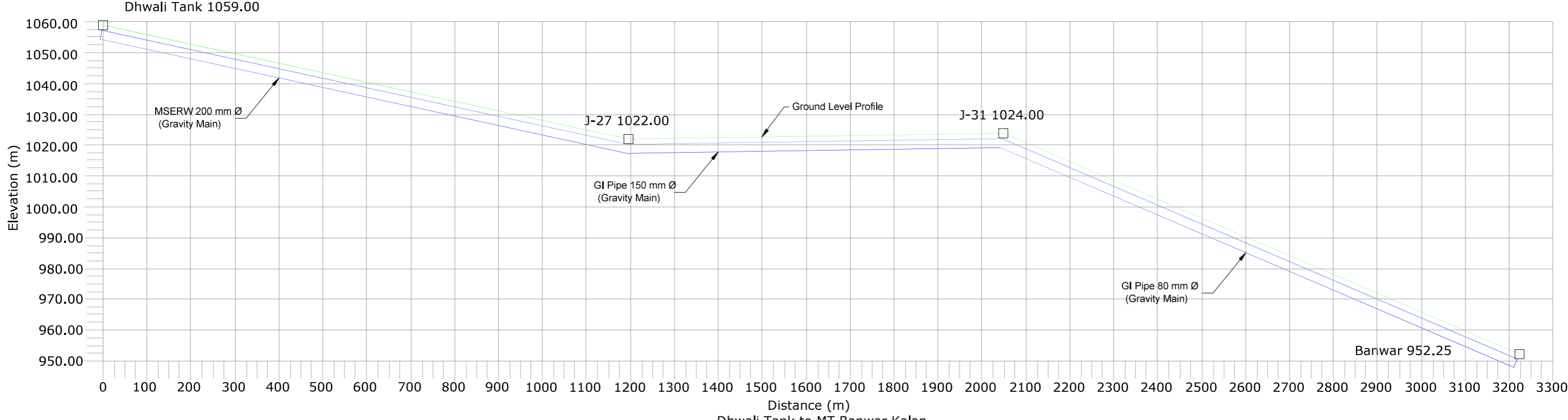
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| SCALE : NTS | DWG NO. TCE.12503A-CV-3082-WS-32386 | ISSUE P1 |
| DC & DISC: DEL-CV | | |



- Legend :-**
- 1. Ground Level —
 - 2. Rising Main —
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
- 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

Dhawali Tank to MT Baratpur

SIGN. OF CLIENT:-

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FILE NAME 12503A-CV-32387-Rev-P1

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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

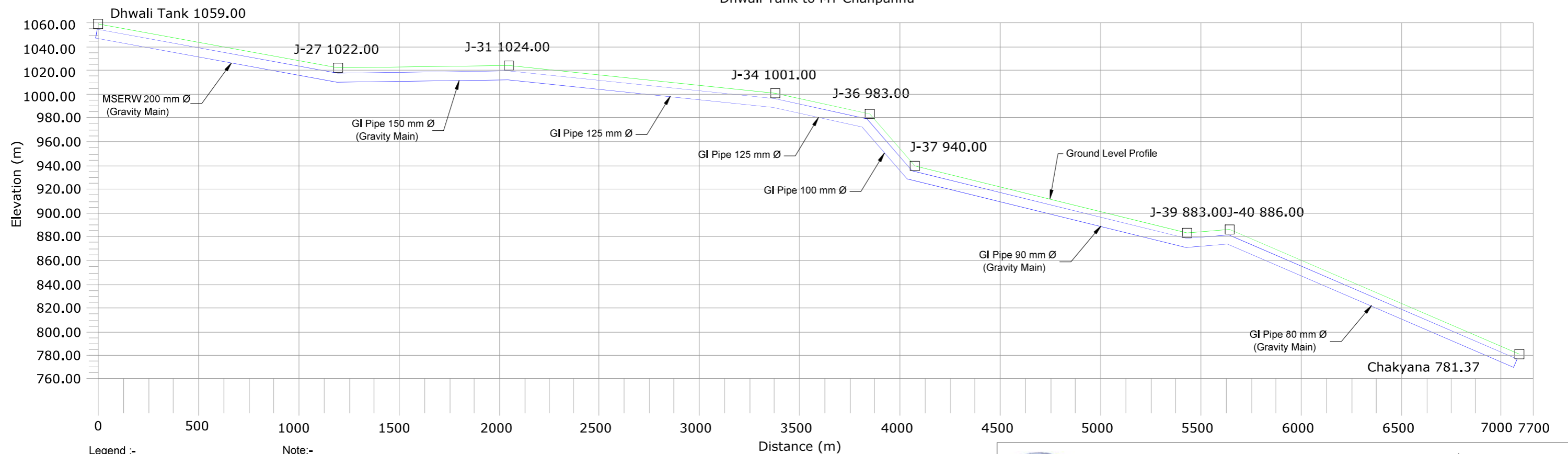
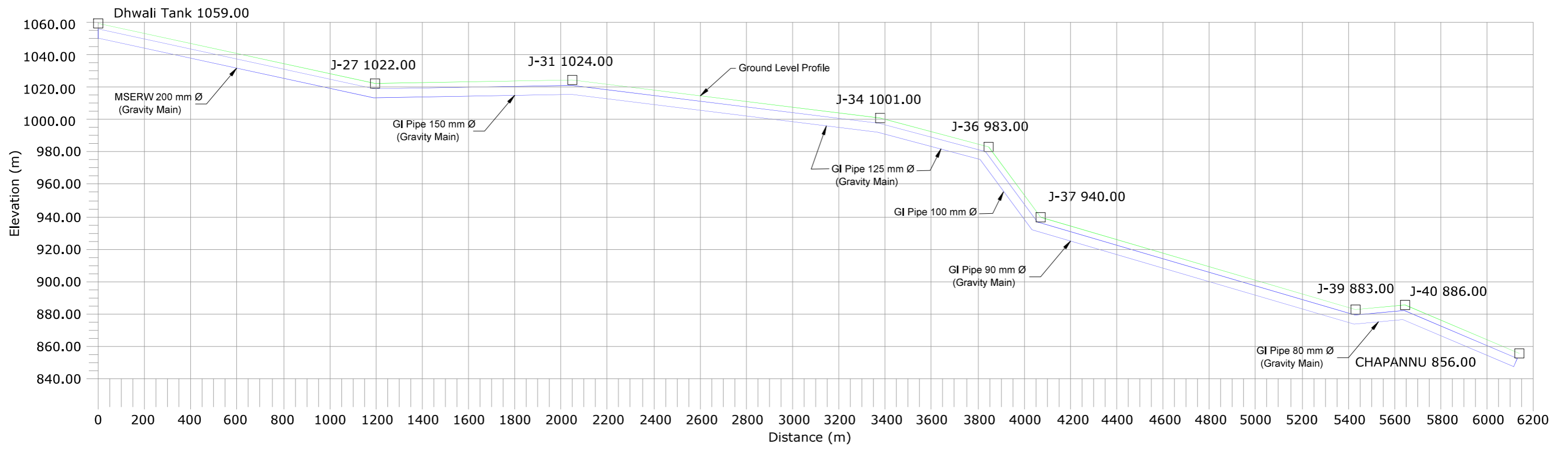
PROPOSED L-SECTION-LIS BARHI MARHI DHWALI
(BANWAR KALAN & BARATPUR CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS DWG NO. TCE.12503A-CV-3082-WS-32387 ISSUE P1

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- Legend :-**
- 1. Ground Level
 - 2. Rising Main
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve

- Note:-**
- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
 - 2 - Scour Valves are Provided at 2000 m c/c Distance.
 - 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

Dhwali Tank to MT Chakyana

SIGN. OF CLIENT:-

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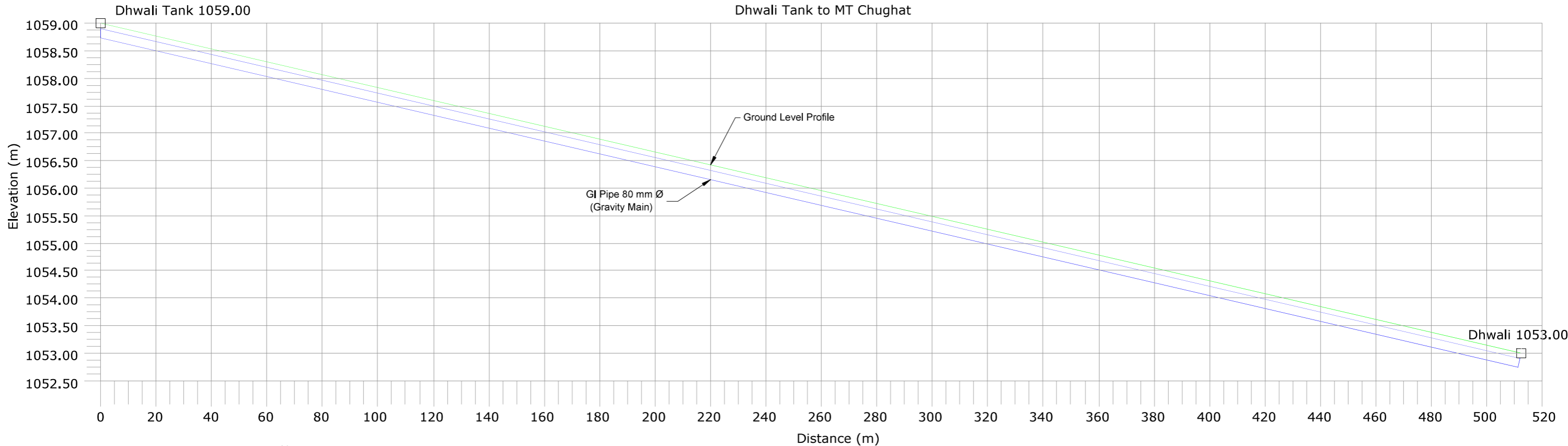
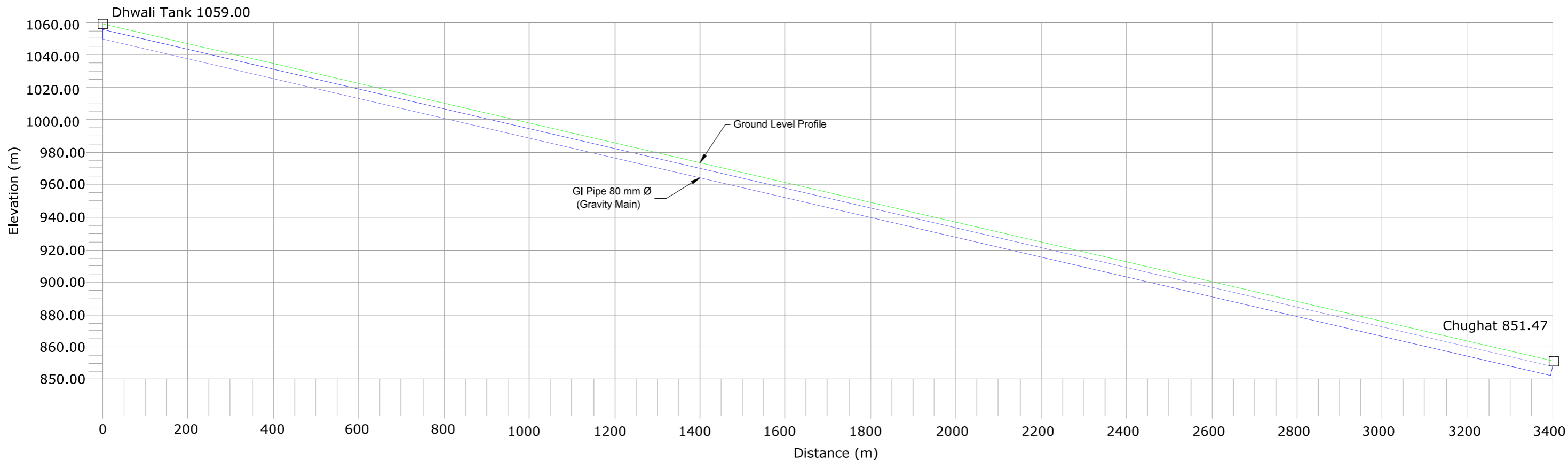
PROPOSED L-SECTION-LIS BARHI MARHI DHWALI
(CHAHPANNU & CHAKYANA CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



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- Legend :-**
- 1. Ground Level —
 - 2. Rising Main —
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
- 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

Dhwali tank to MT Dhwali

SIGN. OF CLIENT:-

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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS BARHI MARHI DHWALI
(CHUGHAT & RICHALI/DHAWALI CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT

TATA CONSULTING ENGINEERS LIMITED
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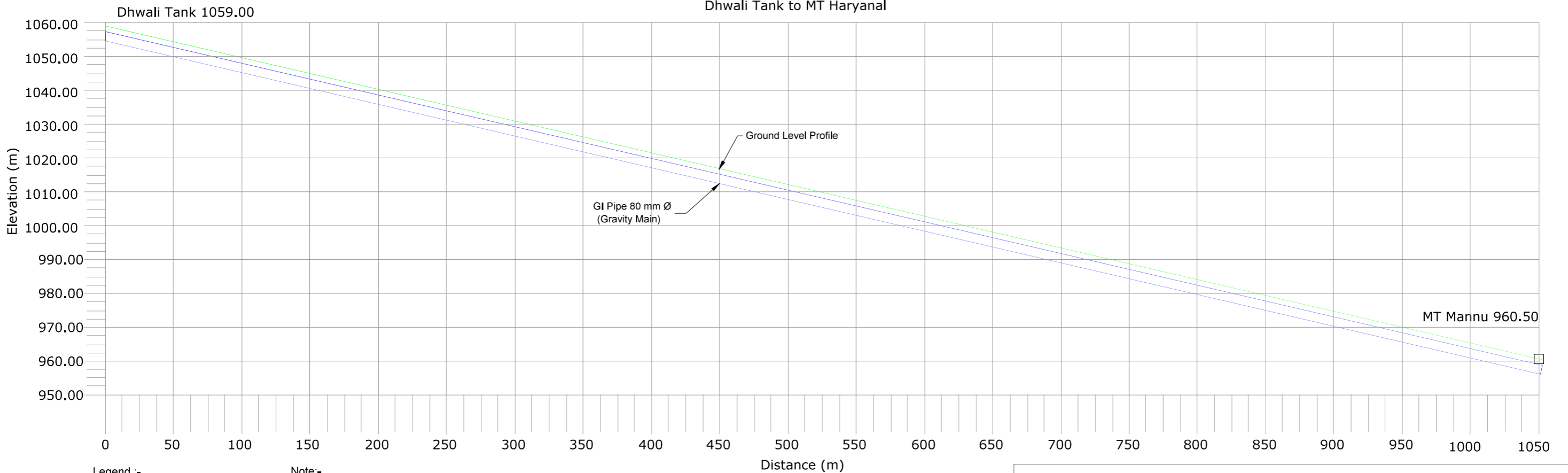
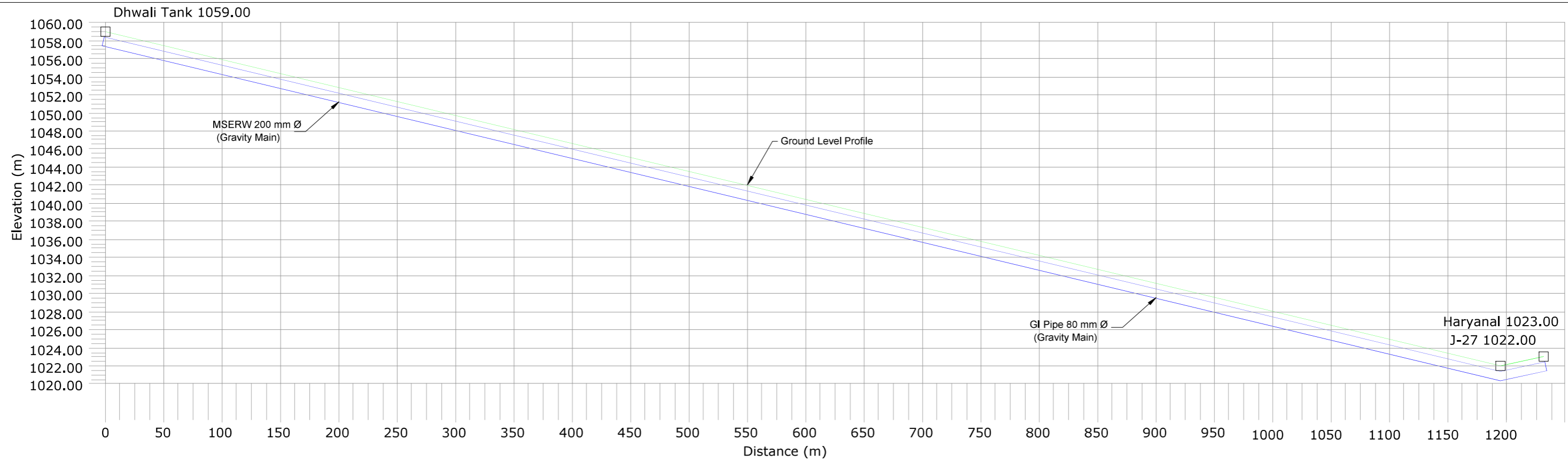
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| FILE NAME 12503A-CV-32389-Rev-P0 | DC & DISC: DEL-CV | |



Legend :-

- 1. Ground Level —
- 2. Rising Main —
- 3. Junction
- 4. Air Valve
- 5. Scour Valve

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
- 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

Dhwali Tank to MT Mannu Dhar

SIGN. OF CLIENT:-

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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS BARHI MARHI DHWALI
(HARYANAL & MANNU DHAR CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS

DWG NO. TCE.12503A-CV-3082-WS-32390

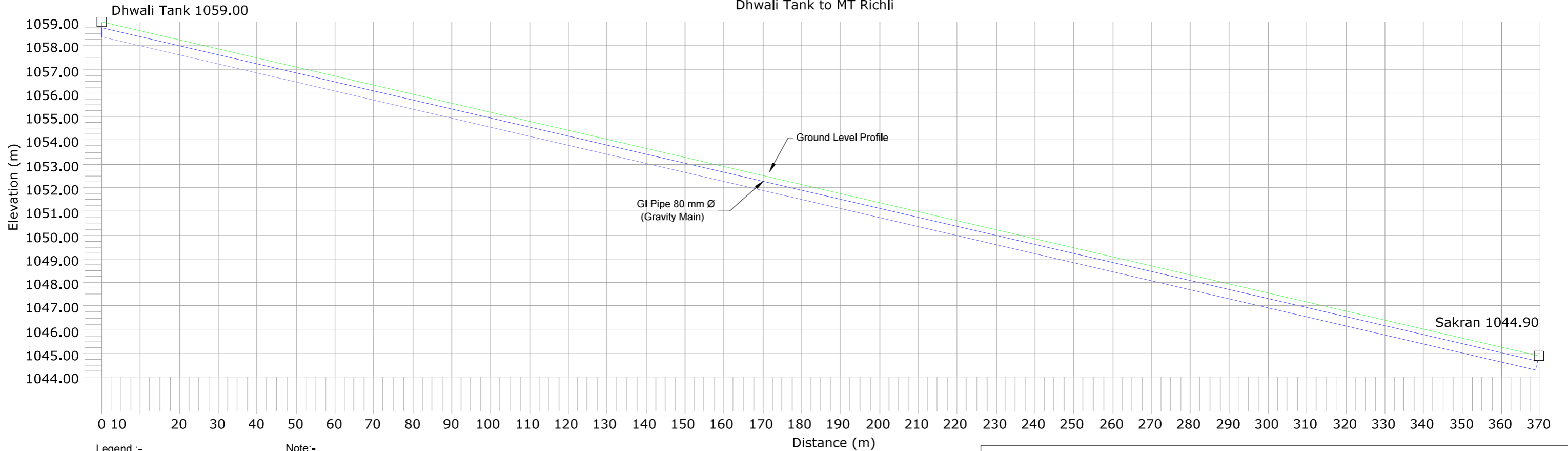
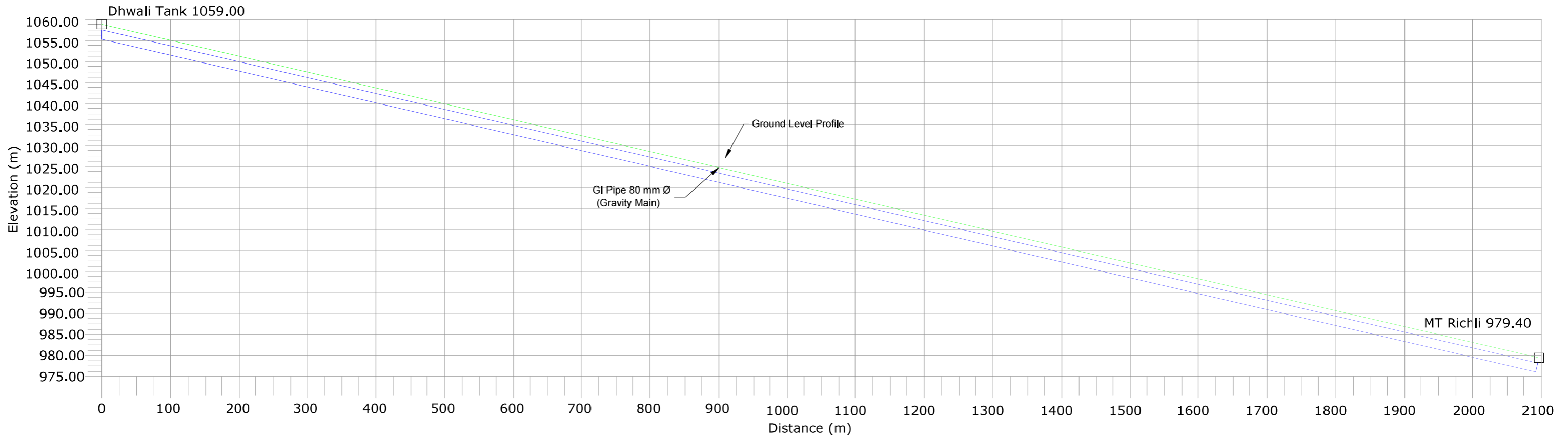
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| ISSUE | DRN | DSN | CHD | CV | EL | IC | ME | PE/PM | APPD | DATE (dd-mm-yyyy) |
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- Legend :-**
- 1. Ground Level —
 - 2. Rising Main —
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve

- Note:-**
- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
 - 2 - Scour Valves are Provided at 2000 m c/c Distance.
 - 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

Dhwali Tank to MT Sakran Dhar

SIGN. OF CLIENT:-

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| JE | AE | EE | SE |
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FILE NAME 12503A-CV-32391-Rev-P0



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS BARHI MARHI DHWALI
(RICHLI & SAKRAN DHAR CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

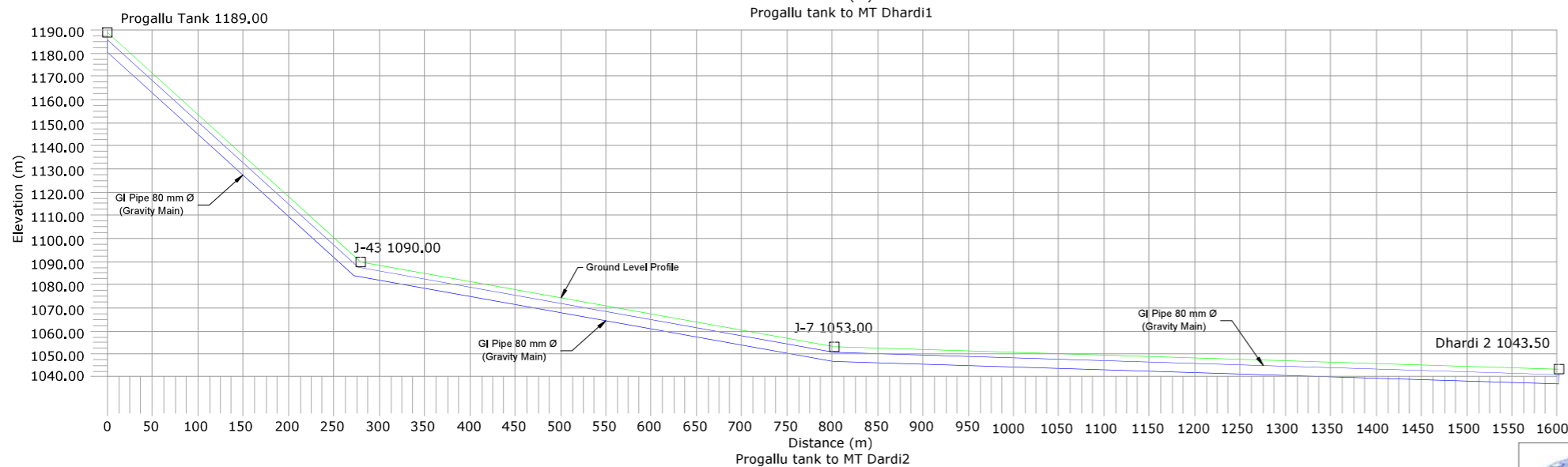
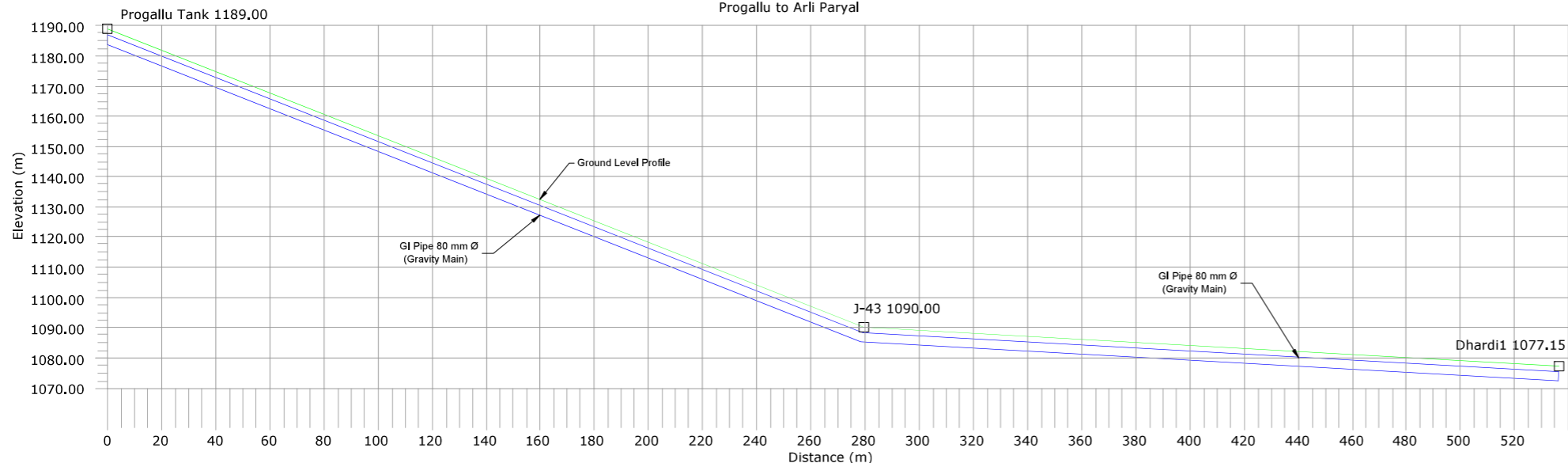
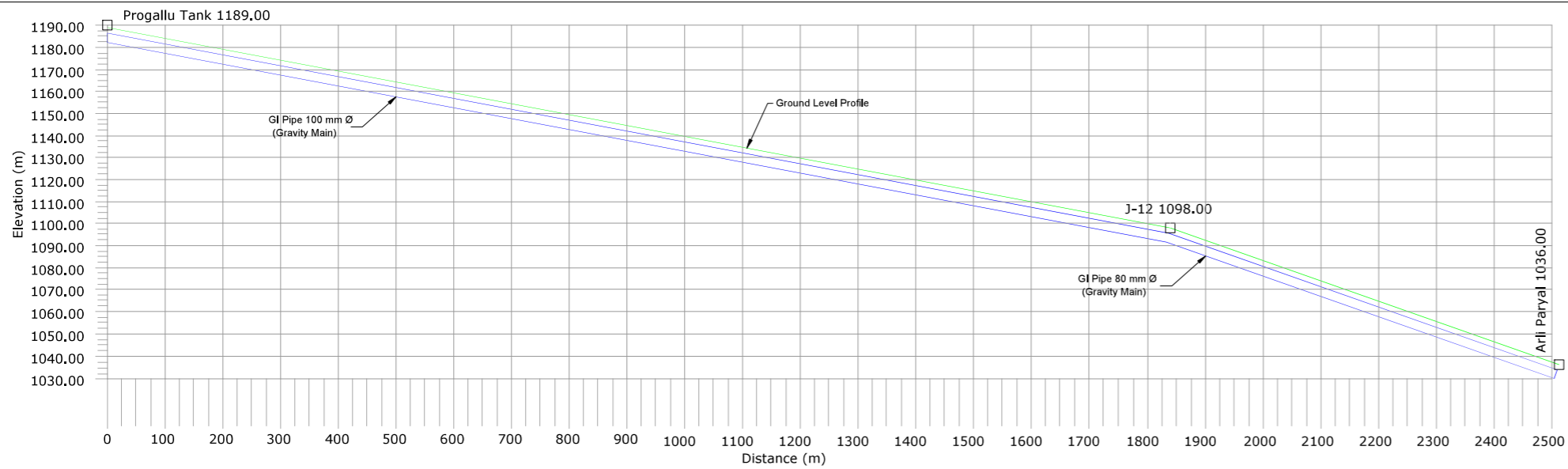
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Legend :-

- 1. Ground Level
- 2. Rising Main
- 3. Junction
- 4. Air Valve
- 5. Scour Valve

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS BARHI MARHI DHWALI
(ARLI PARYAL, DHARDI-1 & DHARDI-2 CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SIGN. OF CLIENT:-

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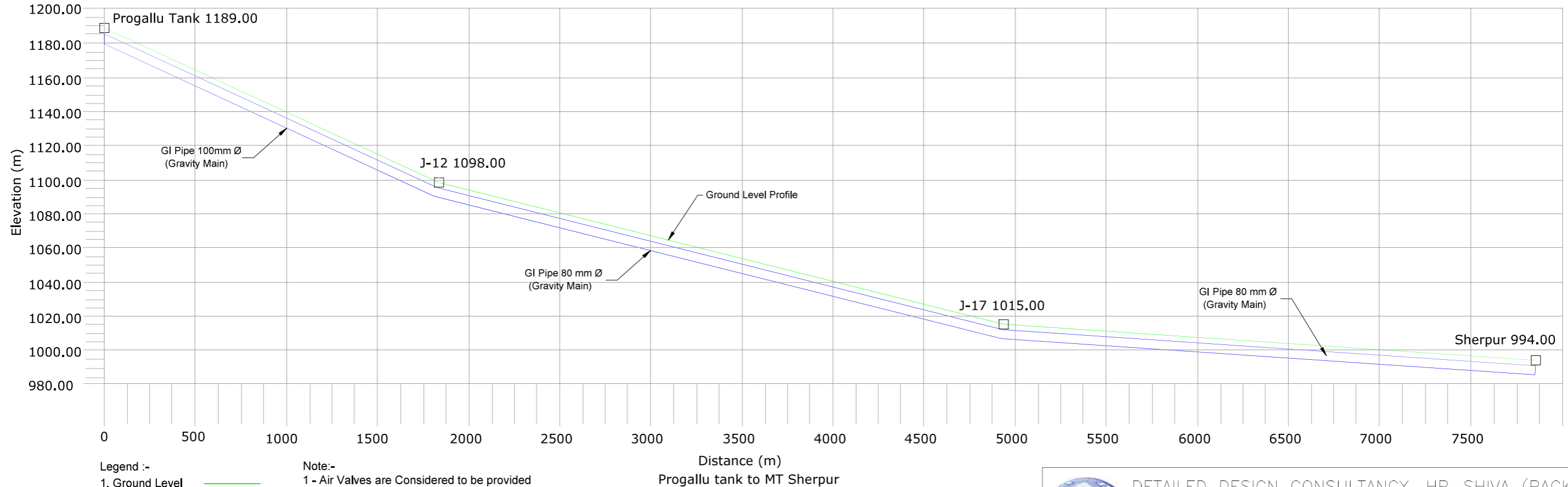
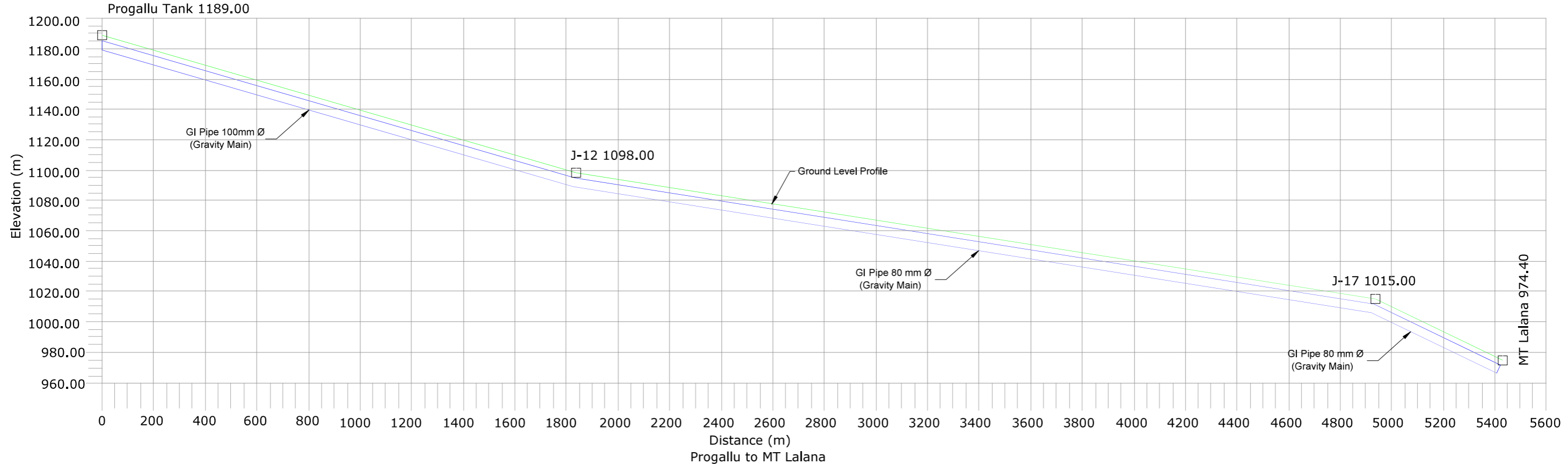
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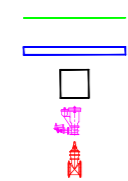
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| | | | | CLEARED | | | | | | | | | |

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| FILE NAME 12503A-CV-32393-Rev-P1 | DC & DISC: DEL-CV | |



- Legend :-**
- 1. Ground Level
 - 2. Rising Main
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve



Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
- 3 - Above is Tentative Arrangement.

Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

SIGN. OF CLIENT:-

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| JE | AE | EE | SE |
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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS BARHI MARHI DHWALI
(LALANA & SHERPUR CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT

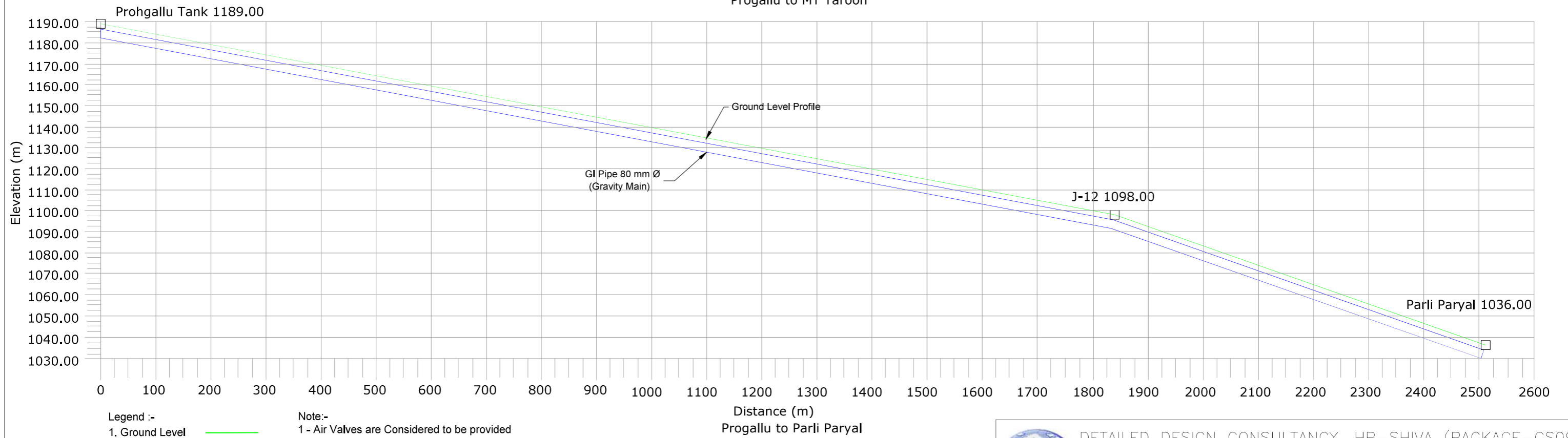
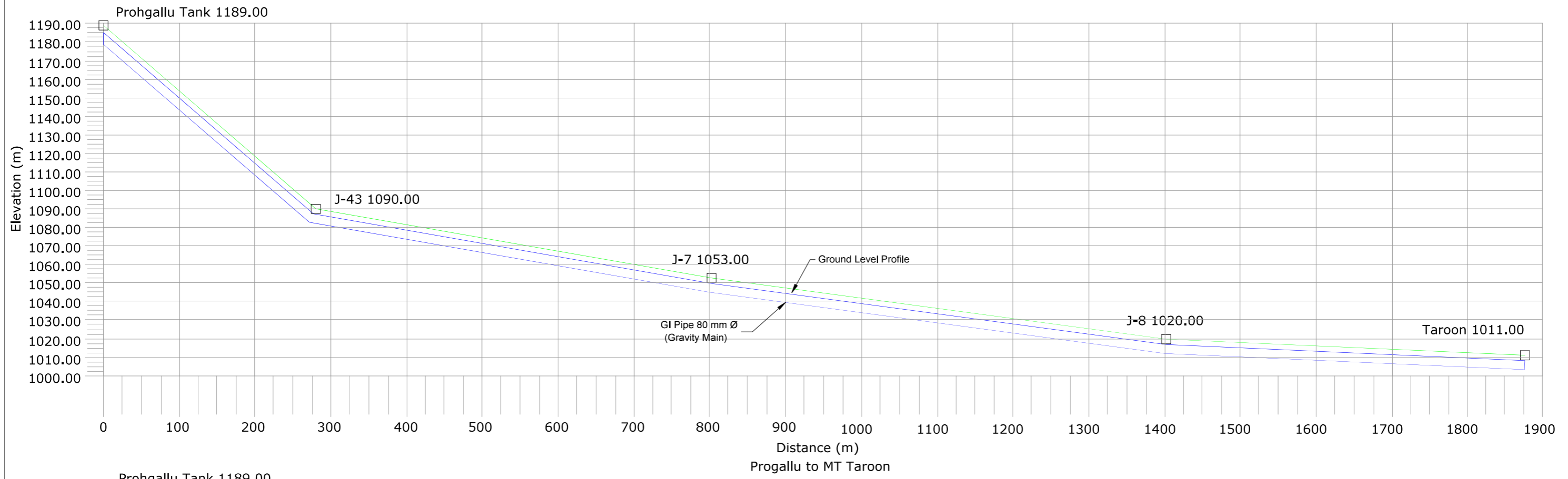


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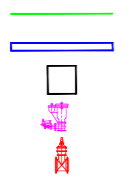
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| SCALE : NTS | DWG NO. TCE.12503A-CV-3082-WS-32394 | ISSUE P1 |
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- Legend :-**
- 1. Ground Level
 - 2. Rising Main
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve



- Note:-**
- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
 - 2 - Scour Valves are Provided at 2000 m c/c Distance.
 - 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

Distance (m)
Prohgallu to Parli Paryal



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS BARHI MARHI DHWALI
(TAROON & PARLI PARYAL CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



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MUMBAI

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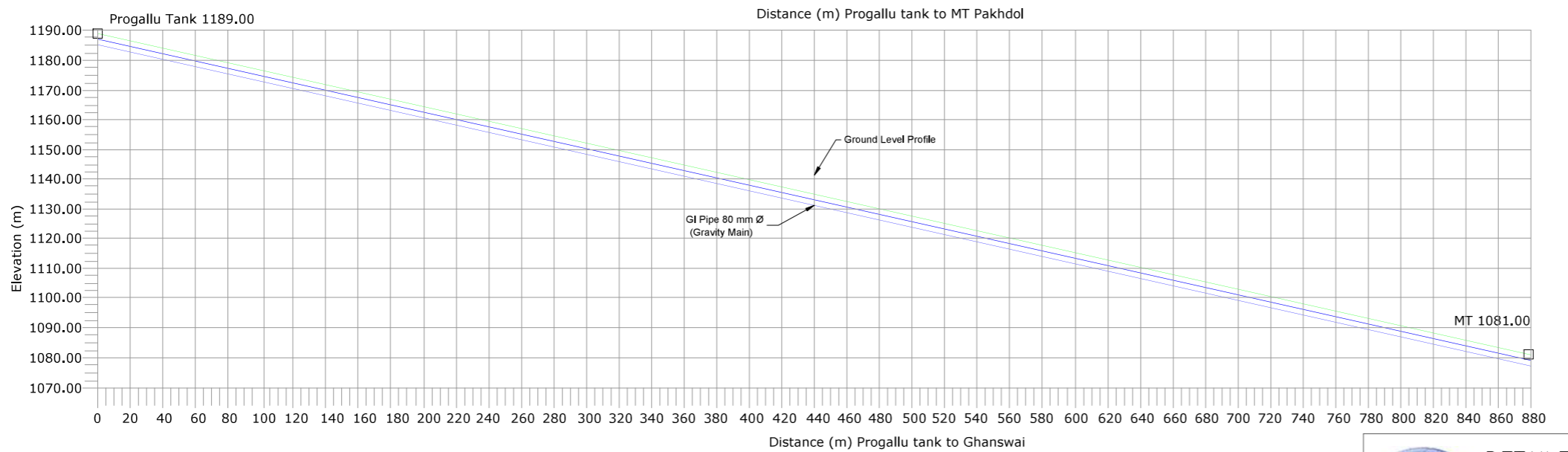
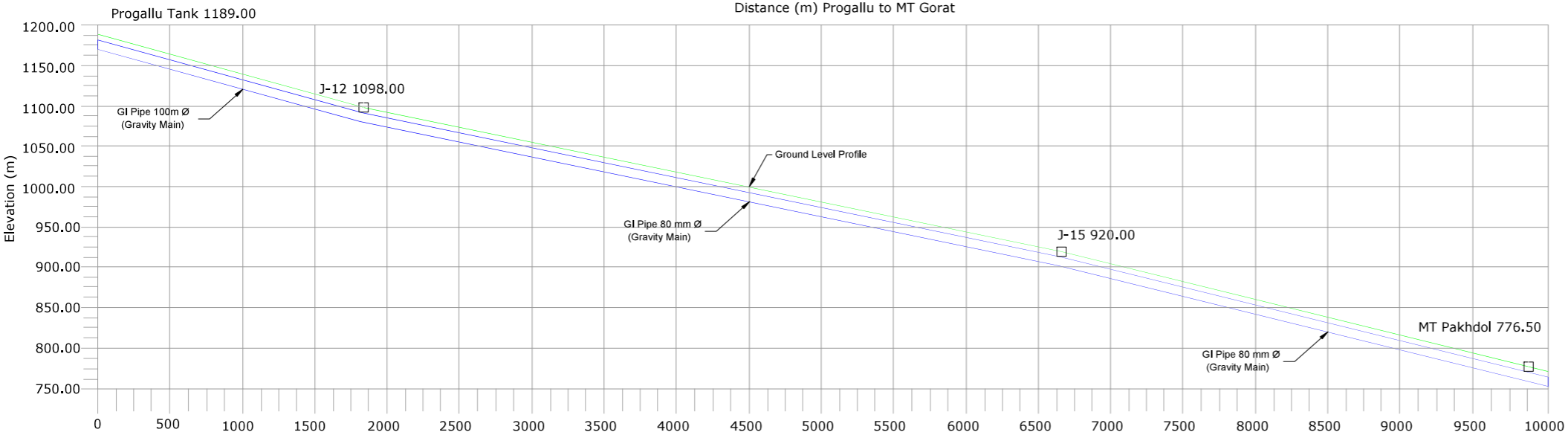
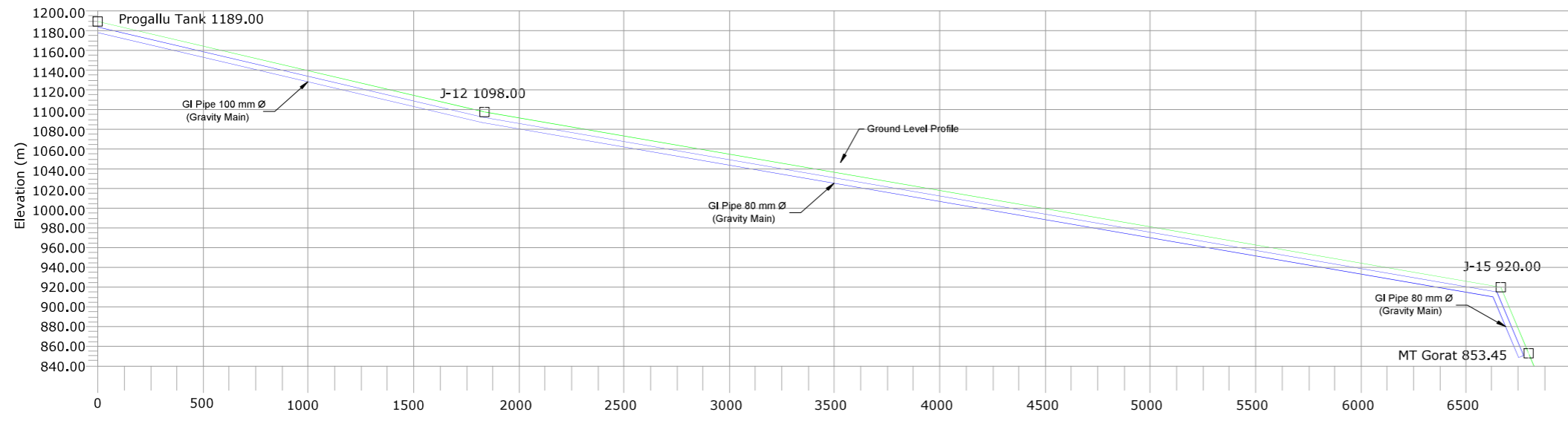
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- Legend :-**
- 1. Ground Level
 - 2. Rising Main
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
- 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS BARHI MARHI DHWALI
(GORAT, PAKHDOL & GHANSWANI CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT

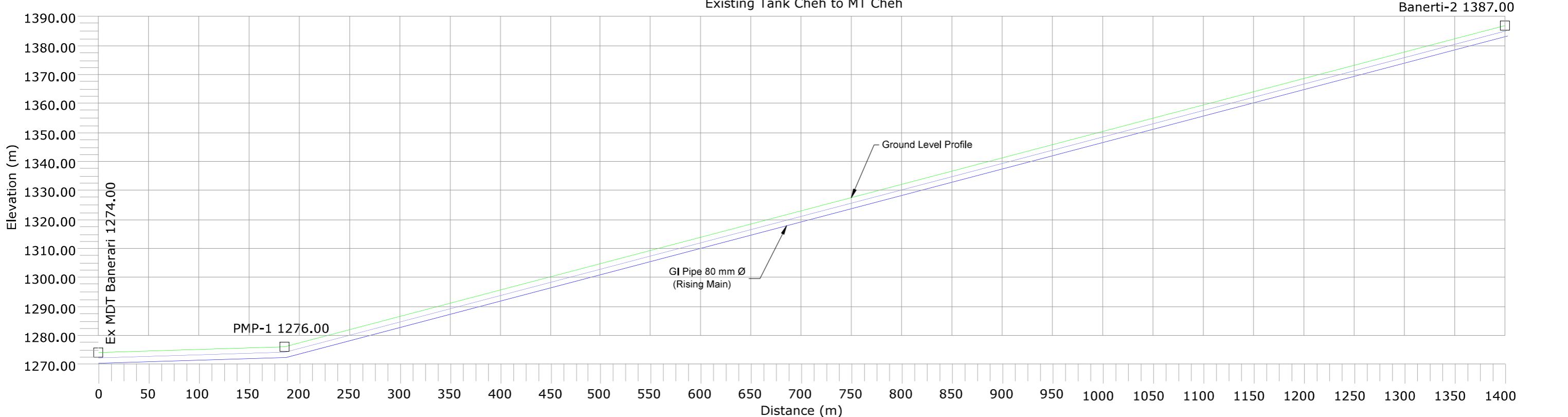
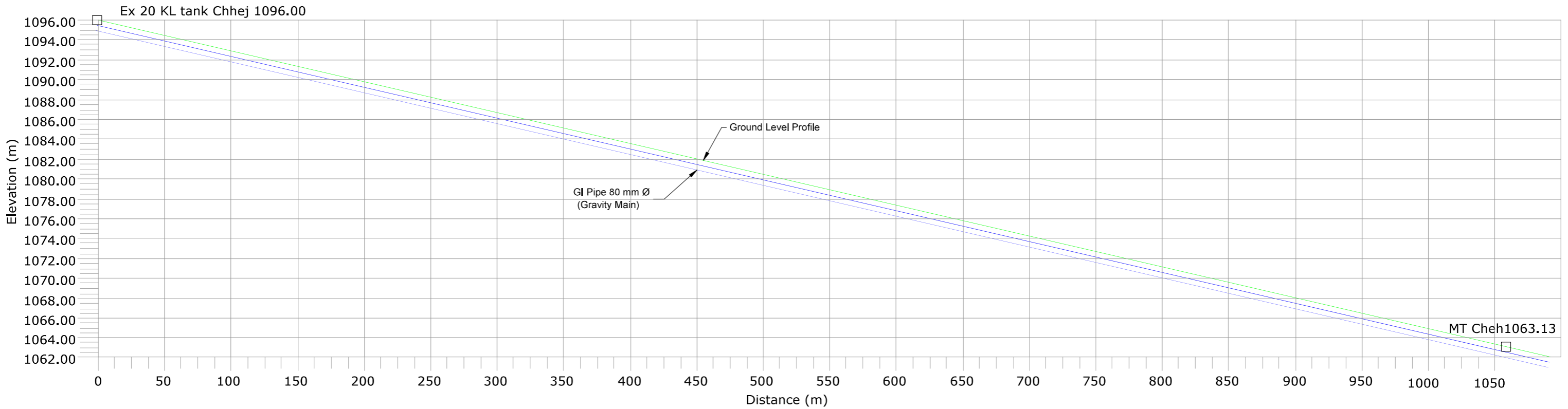


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| SCALE : NTS | DWG NO. TCE.12503A-CV-3082-WS-32096 | ISSUE P1 |
| DC & DISC: DEL-CV | | |



- Legend :-**
- 1. Ground Level —
 - 2. Rising Main —
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
- 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

Ex MDT to MT Banerti 2

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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS BAROTI MANDAP JODDAN
(CHEH & BANERTI-2 CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT

TATA CONSULTING ENGINEERS LIMITED
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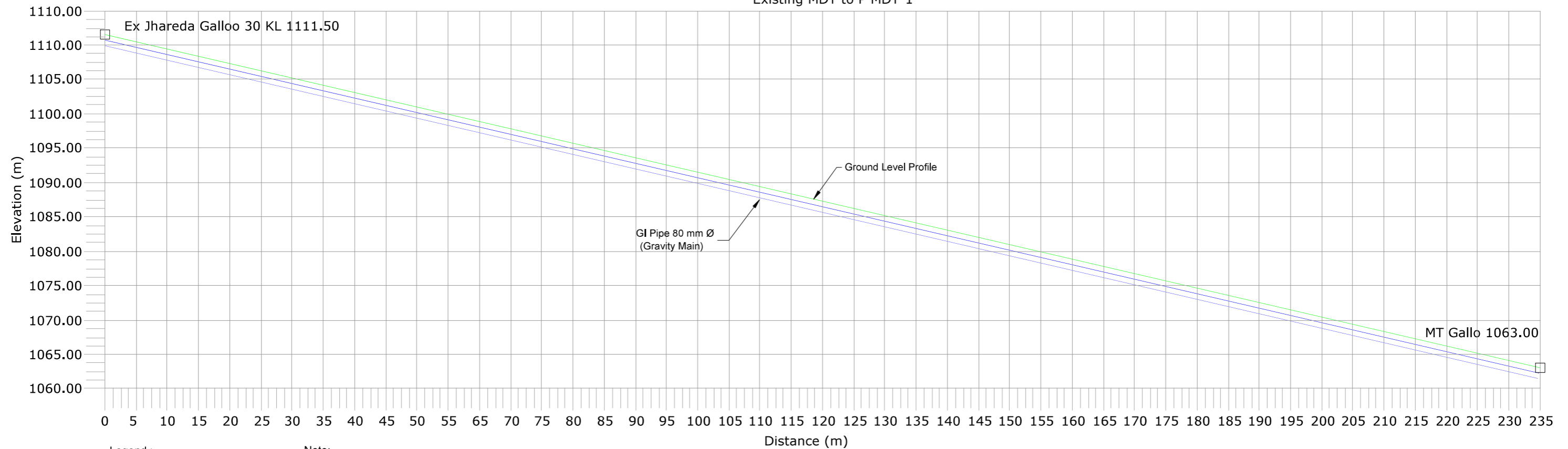
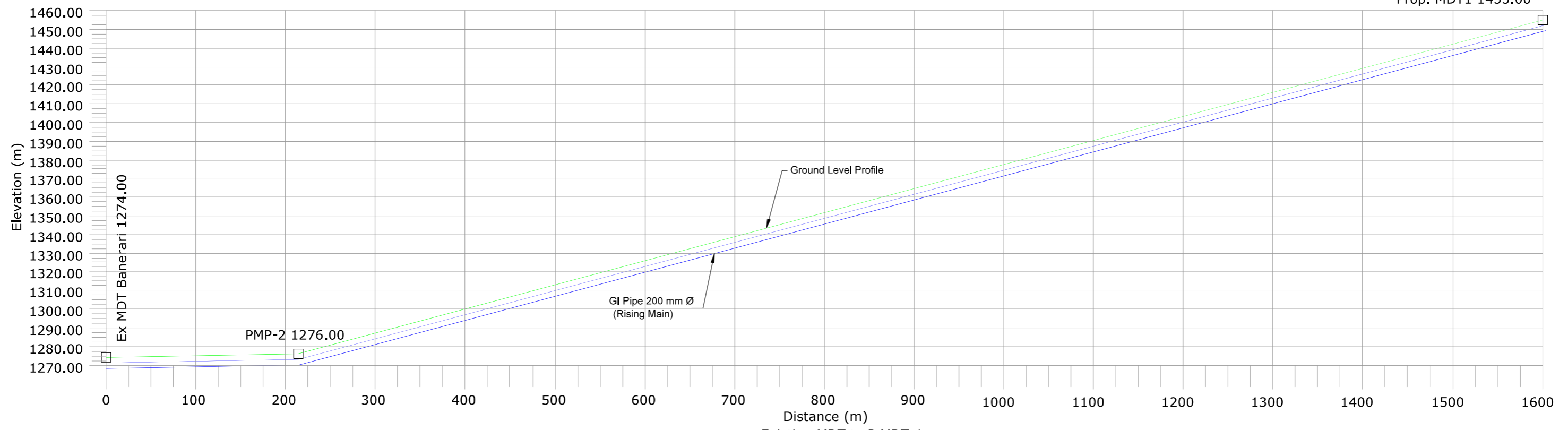
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- Legend :-**
- 1. Ground Level —
 - 2. Rising Main —
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve

- Note:-**
- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
 - 2 - Scour Valves are Provided at 2000 m c/c Distance.
 - 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

Ex Jhareda Galloo to MT Galloo (Chanouta)

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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS BAROTI MANDAP JODDAN GALLOO (CHANOUTA) CLUSTER

DHARAMPUR BLOCK, MANDI DISTRICT

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

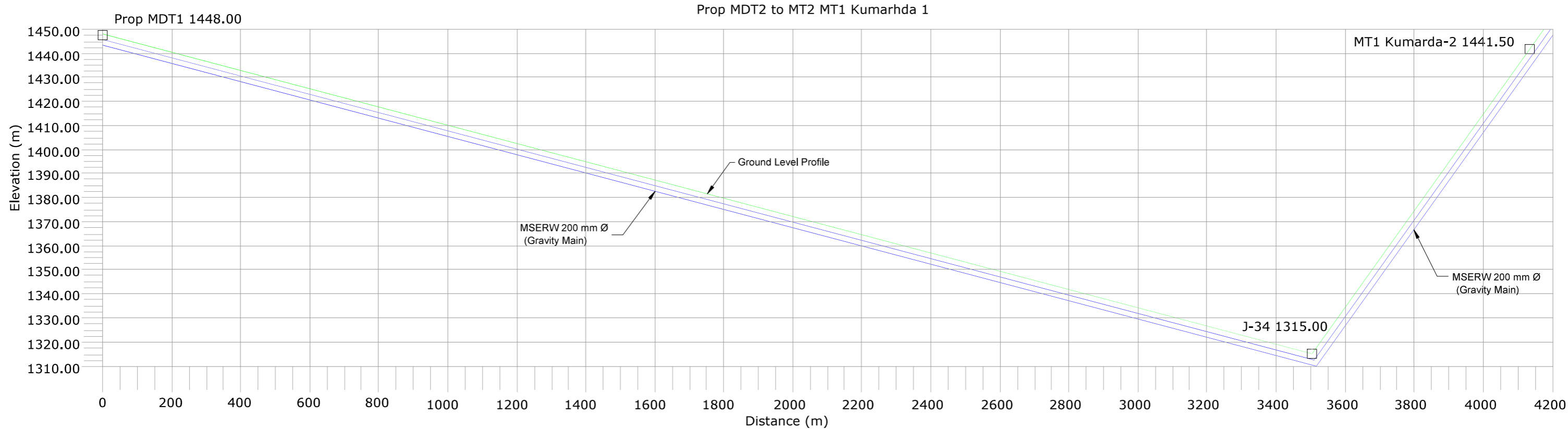
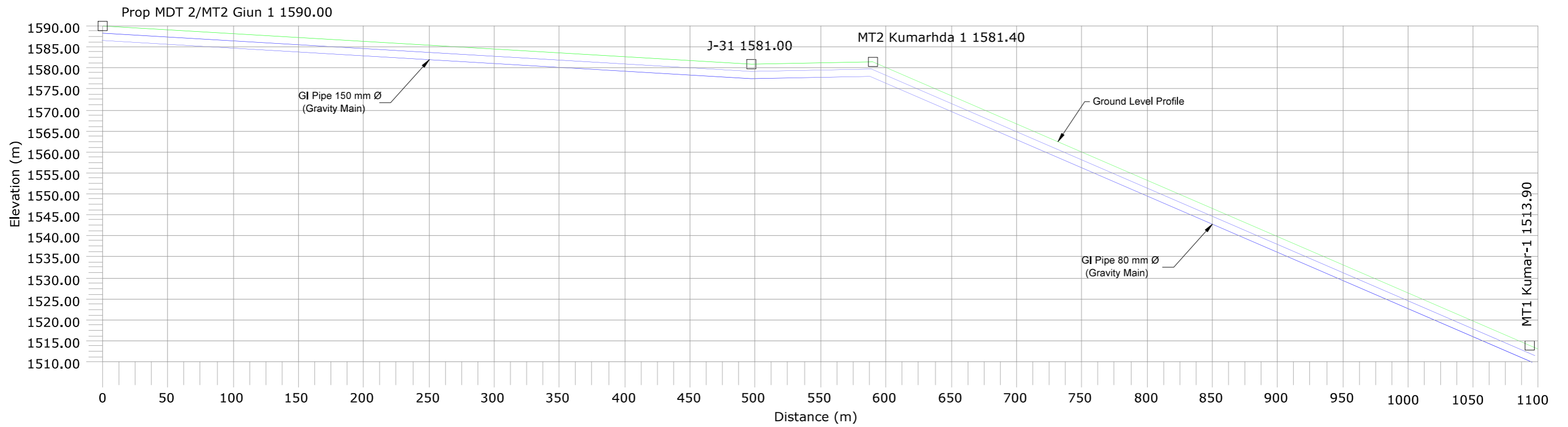
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- Legend :-**
- 1. Ground Level —
 - 2. Rising Main —
 - 3. Junction
 - 4. Air Valve ⚙️
 - 5. Scour Valve ⚙️

Note:-

- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
- 2 - Scour Valves are Provided at 2000 m c/c Distance.
- 3 - Above is Tentative Arrangement.

Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

Prop MDT1 to MT1 Kumarhda2

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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS BAROTI MANDAP JODDAN
(KUMARHDA-1 & KUMARHDA-2 CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS

DWG NO.

TCE.12503A-CV-3082-WS-32399

ISSUE P0

FILE NAME 12503A-CV-32399-Rev-P0

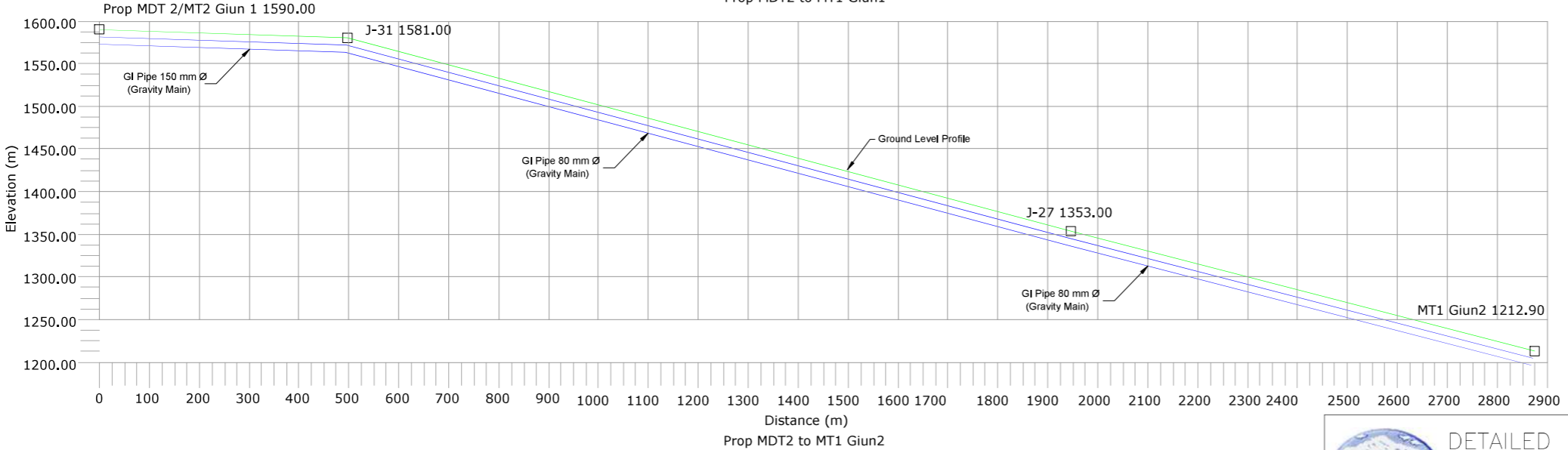
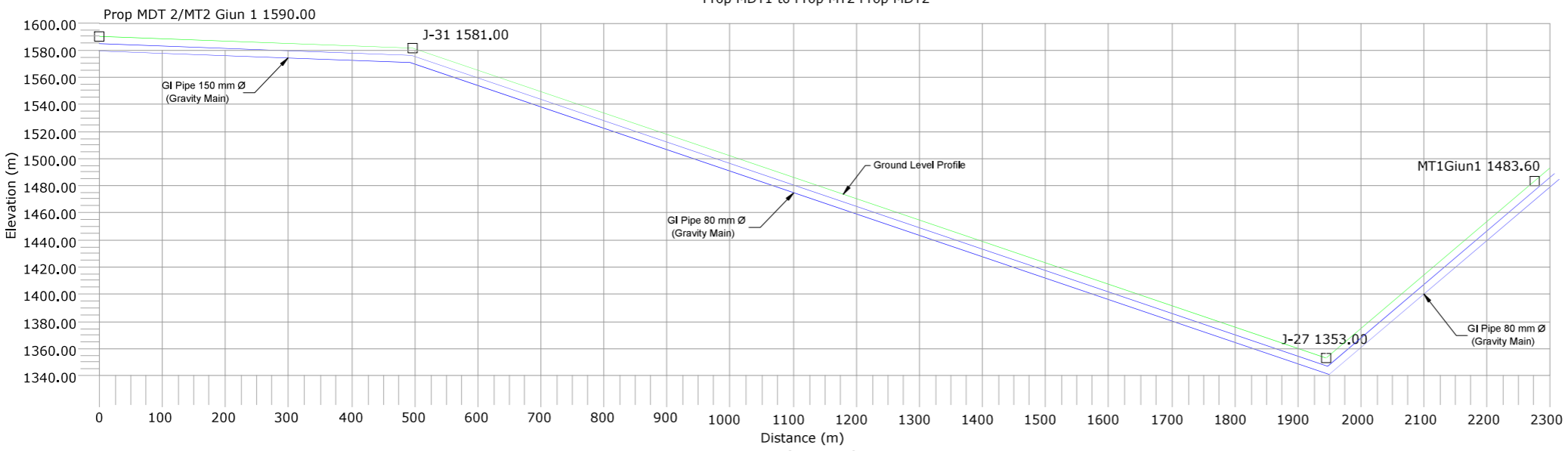
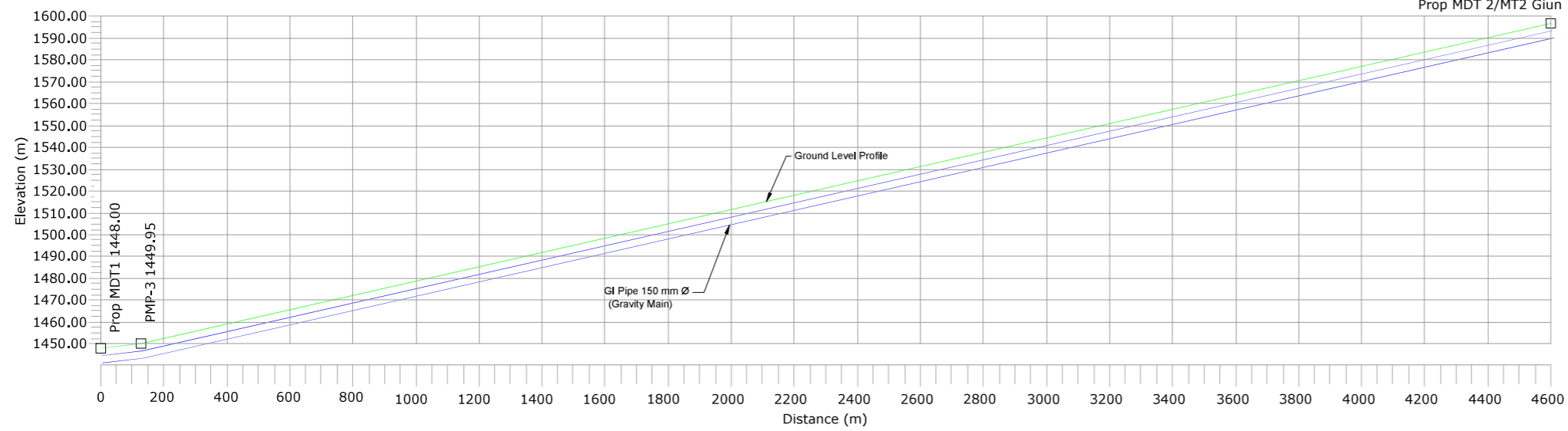
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- Legend :-**
- 1. Ground Level —
 - 2. Rising Main —
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve

- Note:-**
- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
 - 2 - Scour Valves are Provided at 2000 m c/c Distance.
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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS BAROTI MANDAP JODDAN
(GIUN-1 & GIUN-2 CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



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MUMBAI

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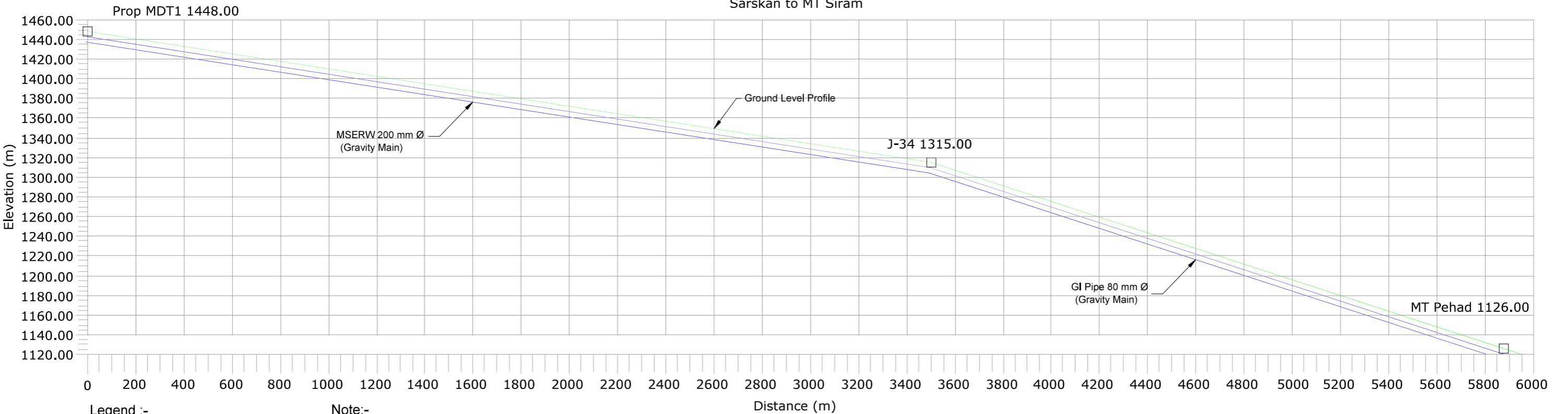
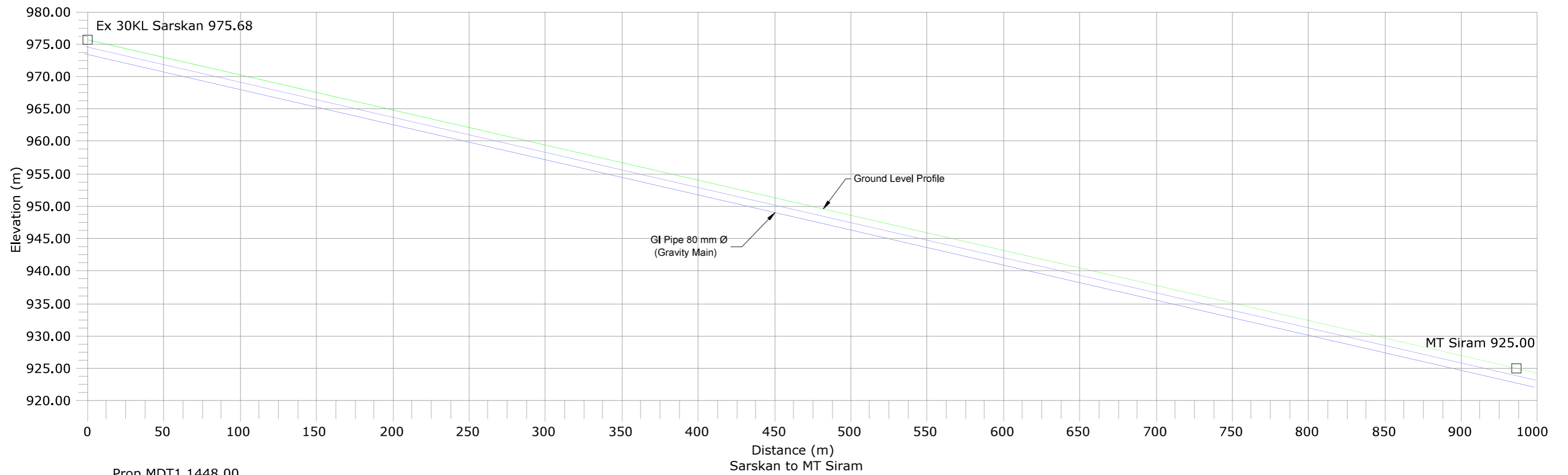
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| SCALE : NTS | DWG NO. TCE.12503A-CV-3082-WS-32400 | ISSUE P0 |
| DC & DISC: DEL-CV | | |



- Legend :-**
- 1. Ground Level —
 - 2. Rising Main —
 - 3. Junction
 - 4. Air Valve
 - 5. Scour Valve

- Note:-**
- 1 - Air Valves are Considered to be provided at 500 m c/c and at High Points.
 - 2 - Scour Valves are Provided at 2000 m c/c Distance.
 - 3 - Above is Tentative Arrangement. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

Distance (m)
Prop MDT1 to MT Pehad

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|----|----|----|----|
| JE | AE | EE | SE |
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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION-LIS BAROTI MANDAP JODDAN
(SIRAM/SARSKAN & PEHAD-2 CLUSTER)
DHARAMPUR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS

DWG NO.

TCE.12503A-CV-3082-WS-32401

ISSUE

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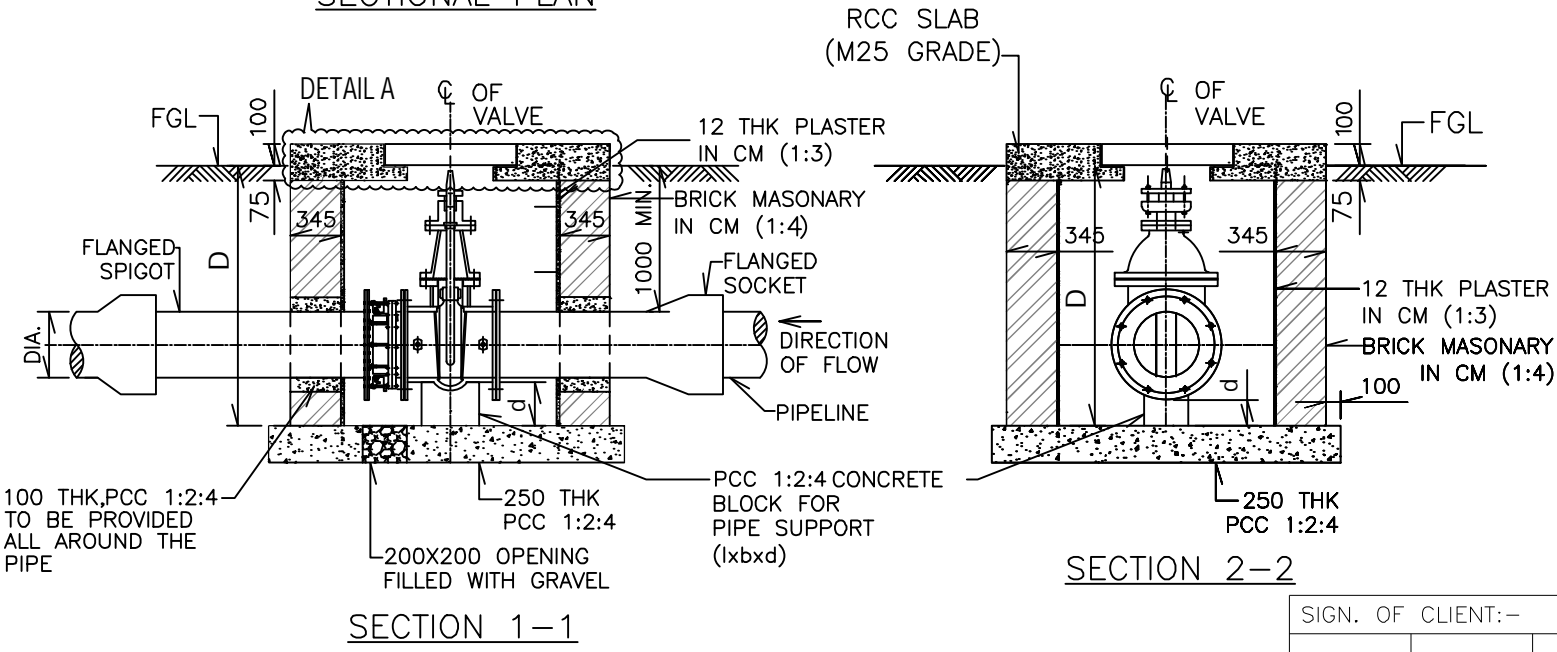
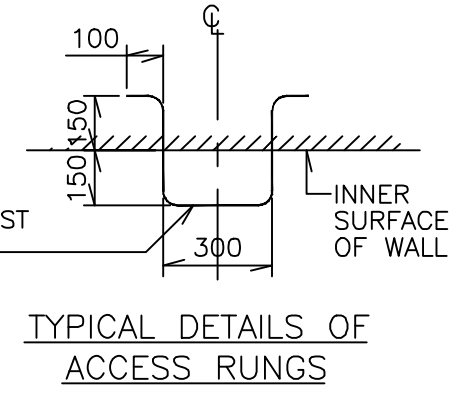
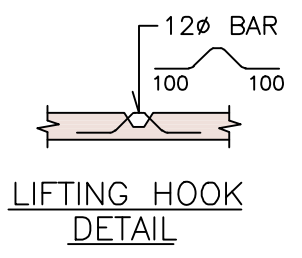
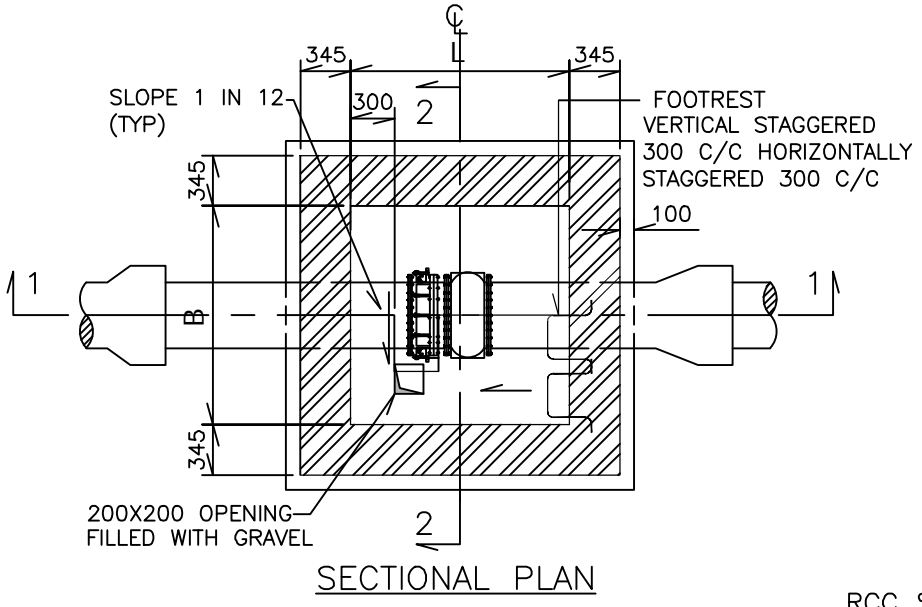
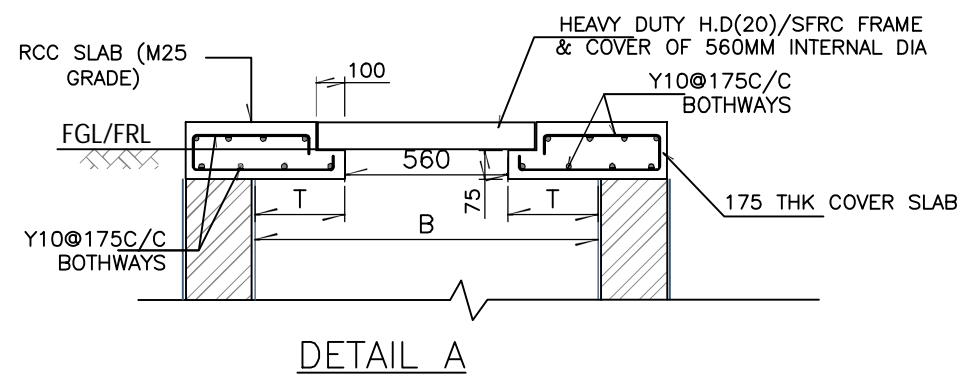
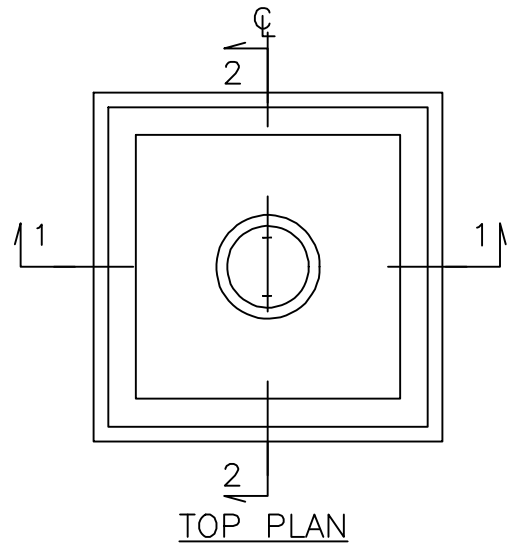


TABLE:

| DIA. OF PIPE | CHAMBER SIZE | | | PEDESTAL | | |
|--------------|--------------|------|------|----------|-----|---------|
| | L | B | D | l | b | d (Min) |
| 300 | 1200 | 1200 | 1600 | 150 | 250 | 100 |
| 200 | 1200 | 1200 | 1600 | 100 | 200 | 100 |
| 150 | 900 | 900 | 1600 | 100 | 150 | 100 |

- LEGEND**
- TYP --- TYPICAL
 - DIA --- DIAMETER
 - UN --- UNLESS NOTED
 - MS --- MILD STEEL
 - DI --- DUCTILE IRON
 - THK --- THICK
 - CL --- CENTER LINE
 - IL --- INVERT LEVEL
 - PCC --- PLAIN CEMENT CONCRETE
 - RC --- REINFORCED CONCRETE
 - EQ. --- EQUAL

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRE AND LEVELS IN METRE UNLESS NOTED.
 2. GRADE OF PCC SHALL BE M15 WITH MAXIMUM 40mm DOWN GRADED AGGREGATES CONFORMING TO SPECIFICATION.
 3. REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS TO GRADE Fe500 CONFORMING TO IS:1786 (LATEST ISSUE).
 4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS.
RC COVER-20mm TOP & BOTTOM
 5. SAFE BEARING CAPACITY OF SOIL IS CONSIDERED AS 15 T/Sqm. AT FOUNDING LEVEL.
 6. THE ARRANGEMENT RELATED TO VALVE AND FITTINGS SHOWN IN THE DRAWING ARE INDICATIVE ONLY. BEFORE CONSTRUCTION, ARRANGEMENT OF VALVE AND FITTINGS SHALL BE PROVIDED BY THE CONTRACTOR TO ENGINEER FOR APPROVAL.
 7. BRICK MASONRY SHALL BE IN CM (1:4).
 8. BRICKS SHALL BE OF MINIMUM 75 Kg/cm² COMPRESSIVE STRENGTH.
 9. THE TYPICAL DETAILS OF CHAMBER ARE APPLICABLE FOR 150mm TO 600mm DIA PIPELINE.
 10. VALVE CHAMBERS SHALL BE CONSTRUCTED IN RCC IN CASE HIGH WATER TABLE AND SPACE CONSTRAINT.
 11. THE FOOTREST SHALL BE PROVIDED FROM TOP COVER TO PIPE BARREL TOP AND THEN PIPE BARREL TOP UPTO 300mm ABOVE CHAMBER BOTTOM.
 12. VALVE SPINDLE EXTENSIONS TO BE FITTED TO BRING TOP OF VALVE SPINDLE TO WITHIN 100mm TO UNDERSIDE OF RC COVER.

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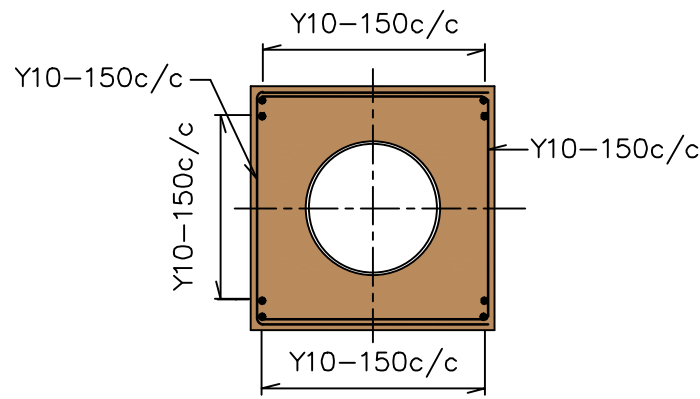
TYPICAL SLUICE VALVE CHAMBER DETAILS

TATA CONSULTING ENGINEERS LIMITED

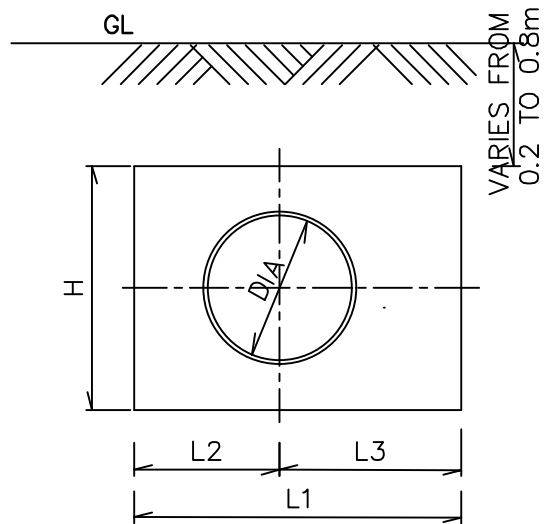
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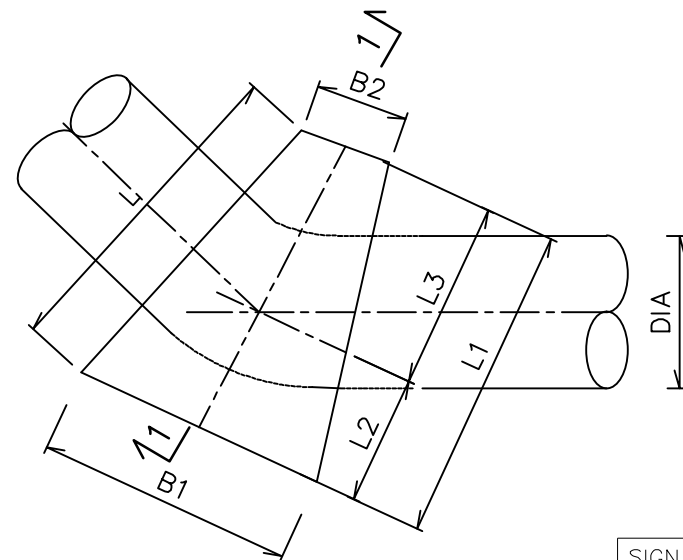
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DETAILS OF CONCRETE BED & ENCASEMENT OF PIPE



SECTION 1-1



TYPICAL THRUST BLOCK

| TABLE | | | | | | | | | | | |
|--------------------------------|---------------|--------------------------------------|------------------------------|-------|--------|--------|--------|-------|--------|--------|--|
| INTERNAL DIAMETER OF PIPE (mm) | ANGLE OF BEND | DESIGN PRESSURE (kg/m ²) | SOIL COVER OVER PIPE Ds (mm) | H (m) | L1 (m) | L2 (m) | L3 (m) | L (m) | B1 (m) | B2 (m) | |
| 100 | 90° | 4.35 | 1000 | 0.70 | 0.75 | 0.40 | 0.35 | 0.77 | 0.70 | 0.35 | |
| 100 | 45° | 4.35 | 1000 | 0.60 | 0.55 | 0.30 | 0.25 | 0.57 | 0.60 | 0.30 | |
| 100 | 22.5° | 4.35 | 1000 | 0.45 | 0.45 | 0.25 | 0.20 | 0.46 | 0.50 | 0.25 | |
| 100 | 90° | 4.85 | 1000 | 0.70 | 0.80 | 0.45 | 0.35 | 0.82 | 0.70 | 0.35 | |
| 100 | 45° | 4.85 | 1000 | 0.60 | 0.55 | 0.30 | 0.25 | 0.57 | 0.60 | 0.30 | |
| 100 | 22.5° | 4.85 | 1000 | 0.50 | 0.45 | 0.25 | 0.20 | 0.47 | 0.50 | 0.25 | |
| 100 | 90° | 5.93 | 1000 | 0.80 | 0.75 | 0.40 | 0.35 | 0.78 | 0.80 | 0.40 | |
| 100 | 45° | 5.93 | 1000 | 0.65 | 0.65 | 0.35 | 0.30 | 0.67 | 0.70 | 0.35 | |
| 100 | 22.5° | 5.93 | 1000 | 0.50 | 0.55 | 0.30 | 0.25 | 0.56 | 0.50 | 0.25 | |
| 150 | 90° | 3.33 | 1000 | 0.85 | 0.85 | 0.45 | 0.40 | 0.88 | 0.90 | 0.45 | |
| 150 | 45° | 3.33 | 1000 | 0.70 | 0.70 | 0.40 | 0.30 | 0.72 | 0.70 | 0.35 | |
| 150 | 22.5° | 3.33 | 1000 | 0.55 | 0.55 | 0.30 | 0.25 | 0.57 | 0.50 | 0.25 | |
| 250 | 90° | 3.75 | 1000 | 1.25 | 1.25 | 0.70 | 0.55 | 1.29 | 1.30 | 0.65 | |
| 250 | 45° | 3.75 | 1000 | 1.00 | 1.05 | 0.60 | 0.45 | 1.08 | 1.00 | 0.50 | |
| 250 | 22.5° | 3.75 | 1000 | 0.80 | 0.80 | 0.45 | 0.35 | 0.82 | 0.80 | 0.40 | |
| 250 | 90° | 6.03 | 1000 | 1.45 | 1.45 | 0.80 | 0.65 | 1.49 | 1.50 | 0.75 | |
| 250 | 45° | 6.03 | 1000 | 1.15 | 1.25 | 0.70 | 0.55 | 1.28 | 1.10 | 0.55 | |
| 250 | 22.5° | 6.03 | 1000 | 0.95 | 0.90 | 0.50 | 0.40 | 0.93 | 0.90 | 0.45 | |
| 350 | 90° | 5.93 | 1000 | 1.80 | 1.80 | 1.00 | 0.80 | 1.86 | 1.80 | 0.90 | |
| 350 | 45° | 5.93 | 1000 | 1.45 | 1.55 | 0.85 | 0.70 | 1.59 | 1.50 | 0.75 | |
| 350 | 22.5° | 5.93 | 1000 | 1.20 | 1.15 | 0.65 | 0.50 | 1.19 | 1.20 | 0.60 | |
| 500 | 90° | 4.68 | 1000 | 2.15 | 2.05 | 1.15 | 0.90 | 2.12 | 2.20 | 1.10 | |
| 500 | 45° | 4.68 | 1000 | 1.70 | 1.80 | 1.00 | 0.80 | 1.85 | 1.70 | 0.85 | |
| 500 | 22.5° | 4.68 | 1000 | 1.40 | 1.35 | 0.75 | 0.60 | 1.39 | 1.40 | 0.70 | |

LEGEND:

- DIA ——— DIAMETER
- B ——— BREADTH
- L ——— LENGTH
- H ——— HEIGHT
- mm ——— MILLIMETERS

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED.
2. INVERT LEVEL OF PIPES SHALL BE AS PER RELEVANT NETWORK DRAWINGS.
3. NO CONCRETE SHALL BE PLACED AROUND JOINTS OF PIPELINE, UNTIL THAT LENGTH OF PIPE HAS PASSED SECTIONAL HYDRAULIC TEST.
4. STEEL FOR REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS OF GRADE Fe 500
5. REINFORCEMENT LAP LENGTHS SHALL BE 50xDIAMETER OF SMALLER BAR.
6. CONCRETE TO BE USED SHALL BE OF GRADE M20 WITH 20mm DOWN GRADED AGGRAGATES CONFORMING TO SPECIFICATIONS.
7. CLEAR COVER TO REINFORCEMENT
BOTTOM AND SIDES – 30mm
8. DURING CONSTRUCTION, IF GROUND WATER TABLE IS MET WITH, IT SHALL BE BROUGHT TO THE NOTICE OF ENGINEER FOR MAKING NECESSARY CHANGES IN THE DESIGN.
9. SOIL BENEATH AND BY THE SIDE OF THE THRUST BLOCK, WHICH ULTIMATELY BEARS THRUST THROUGH CONCRETE MEDIUM, MUST REMAIN UNDISTURBED. IN CASE ANY EXTRA EXCAVATION IS DONE IN TRENCHES, WHERE THE THRUST BLOCK IS TO BE PROVIDED, THE SAME SHALL BE FILLED WITH 1:4:8 CONCRETE
10. PIPES AND SPECIALS SHALL BE SUITABLY SUPPORTED WHILE CONCRETING THE THRUST BLOCK AS DIRECTED BY ENGINEER.
11. TESTING OF MAINS SHALL BE DONE AFTER CASTING OF THRUST BLOCKS AND COMPACTION OF BACKFILLING.
12. AT THE TIME OF TESTING, COMPACTED SOIL SHALL BE PLACED ON THE THRUST BLOCK UP TO THE ROAD LEVEL.
13. THRUST BLOCKS NEED TO BE PLACED AS PER SITE CONDITION

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
 IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TYPICAL DETAILS OF THRUST BLOCK

SIGN. OF CLIENT:—

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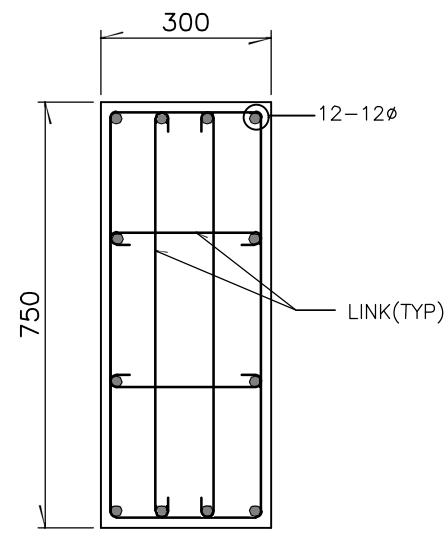
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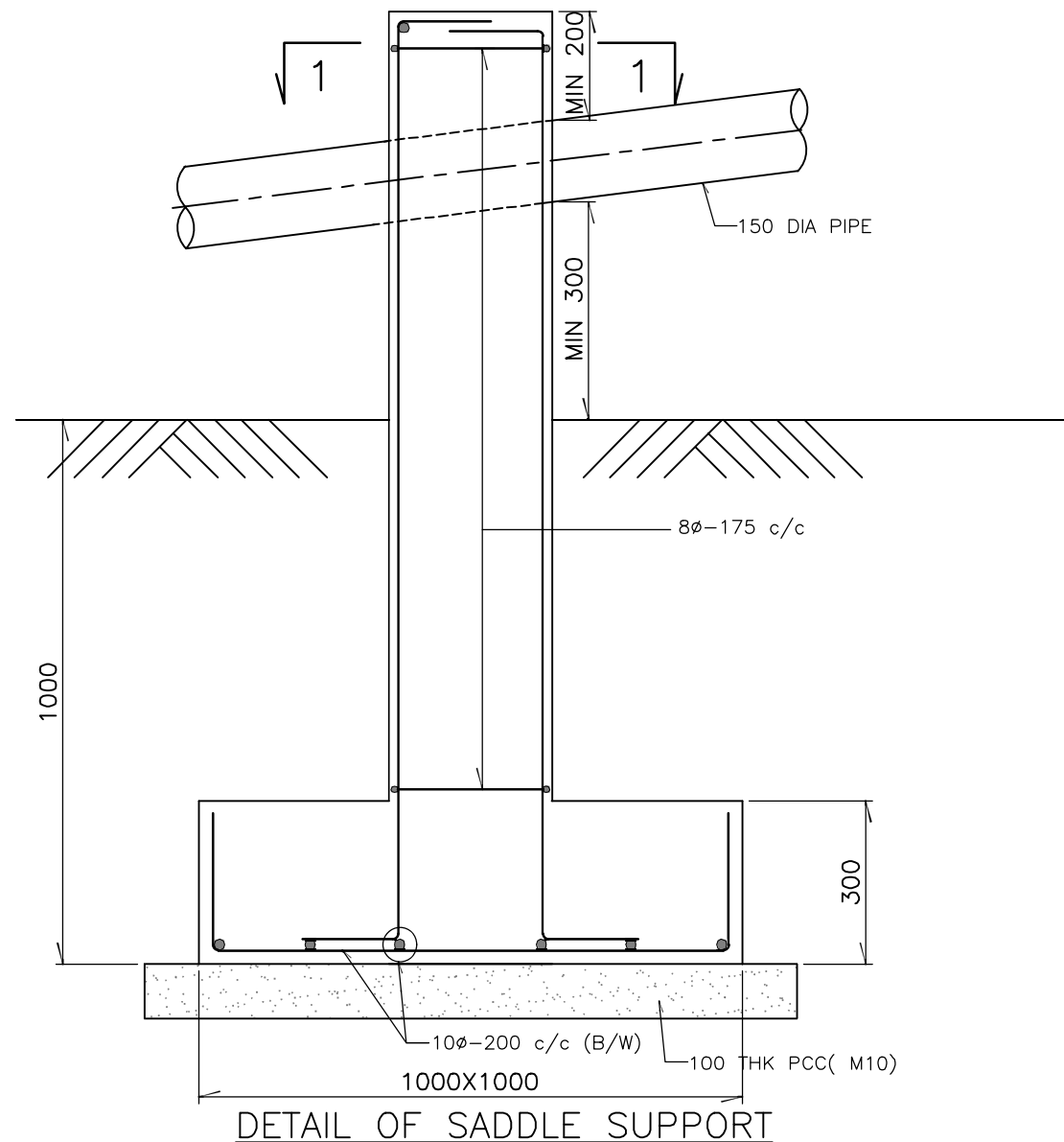
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SEC 1-1

LEGEND

- DIA ---- DIAMETER
- C/C ---- CENTRE TO CENTRE
- THK ---- THICK
- B/W ---- BOTHWAYS
- PCC ---- PLAIN CEMENT CONCRETE
- TYP ---- TYPICAL



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED.
2. DO NOT SCALE THE DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.
3. GRADE OF CONCRETE SHALL BE M30 WITH MAXIMUM 20mm DOWNGRADED AGGREGATES CONFORMING TO IS 456.
4. STEEL FOR REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS OF GRADE FE-500 CONFORMING TO IS:1786.
5. SAFE BEARING CAPACITY OF SOIL IS TAKEN AS 10T/Sq.m. AT FOUNDING LEVEL AND SAME IS TO BE CONFIRMED AT SITE BEFORE EXECUTION.
6. PLAIN CEMENT CONCRETE UNDER FOUNDATION SHALL BE OF GRADE M10 CONFORMING TO IS 456.
7. IF ANY LOOSE SOIL IS ENCOUNTERED AT FOUNDING LEVEL DURING CONSTRUCTION, IT SHOULD BE BROUGHT TO THE NOTICE OF THE ENGINEER.
8. IF GROUND WATER TABLE IS ENCOUNTERED DURING CONSTRUCTION, IT SHOULD BE BROUGHT TO THE NOTICE OF THE ENGINEER FOR MAKING APPROPRIATE CHANGES IN THE DESIGN.
9. THE SPACING OF CONSTRUCTION JOINT SHALL NOT BE MORE THAN 1.20M.

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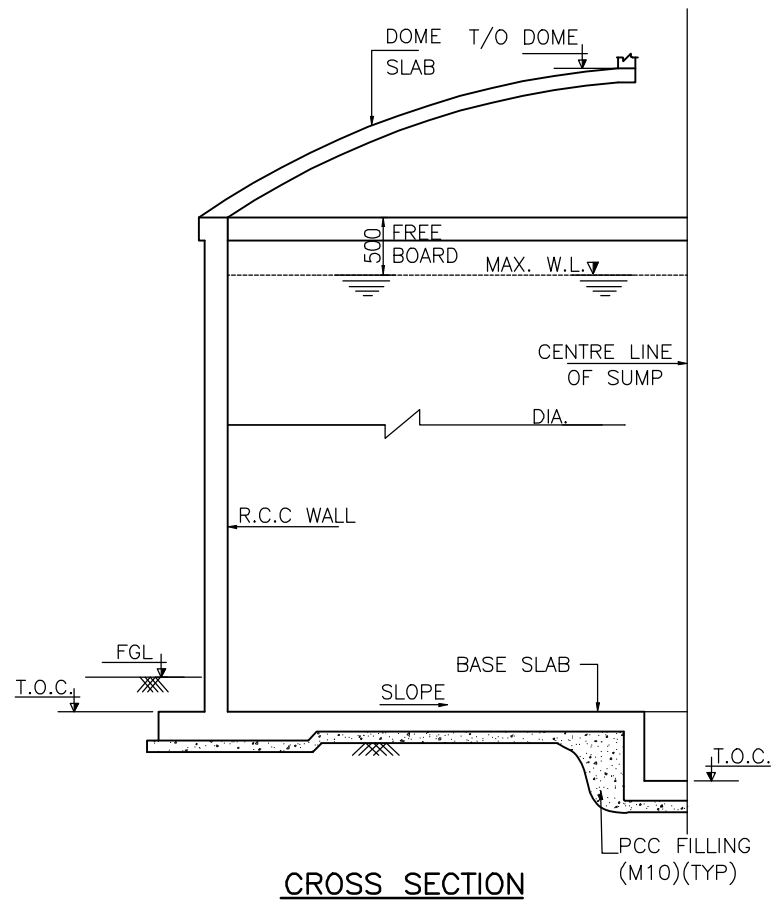
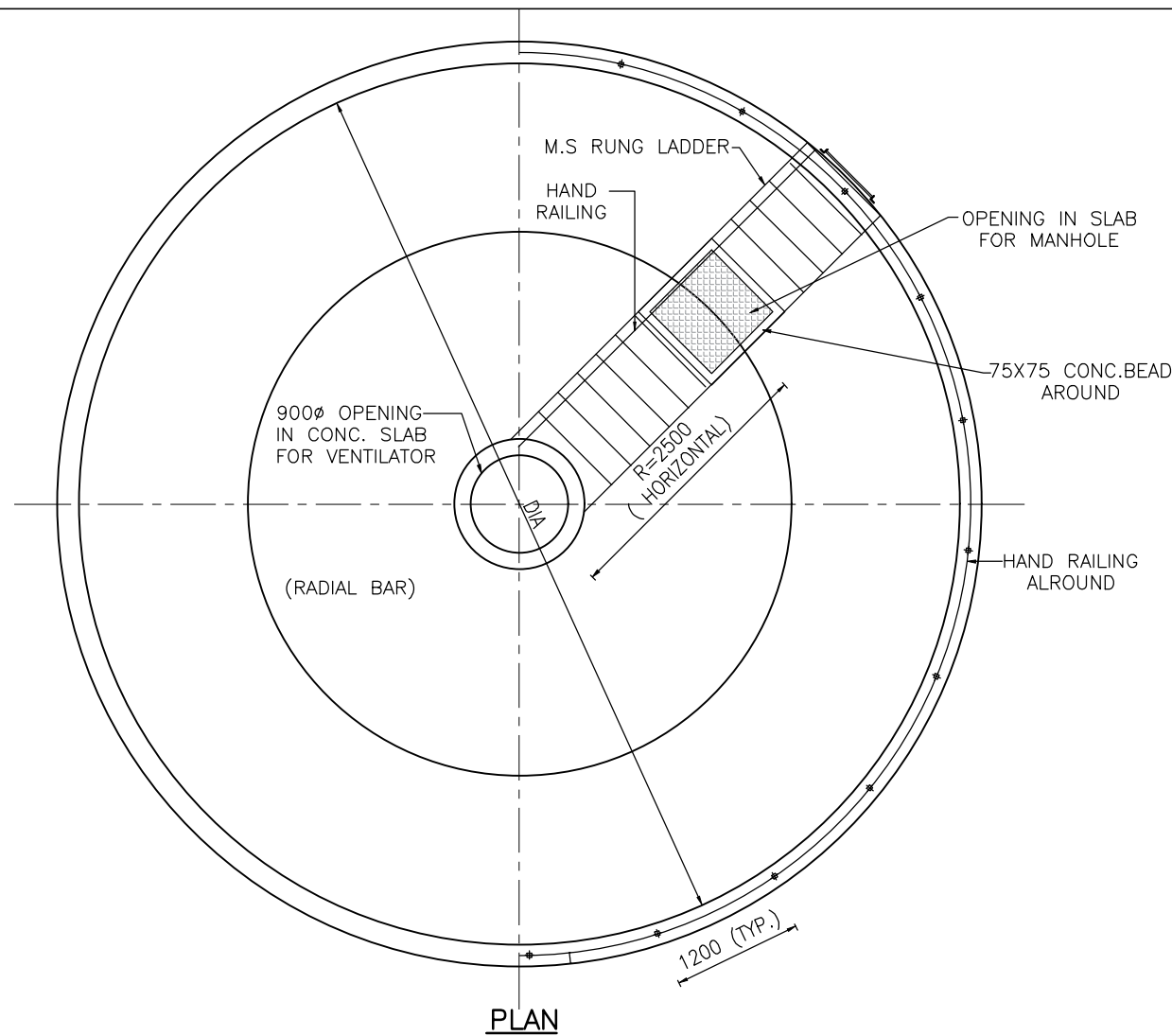
FILE NAME 12503A-CV-30583-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
 IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TYPICAL DETAIL OF SADDLE SUPPORT

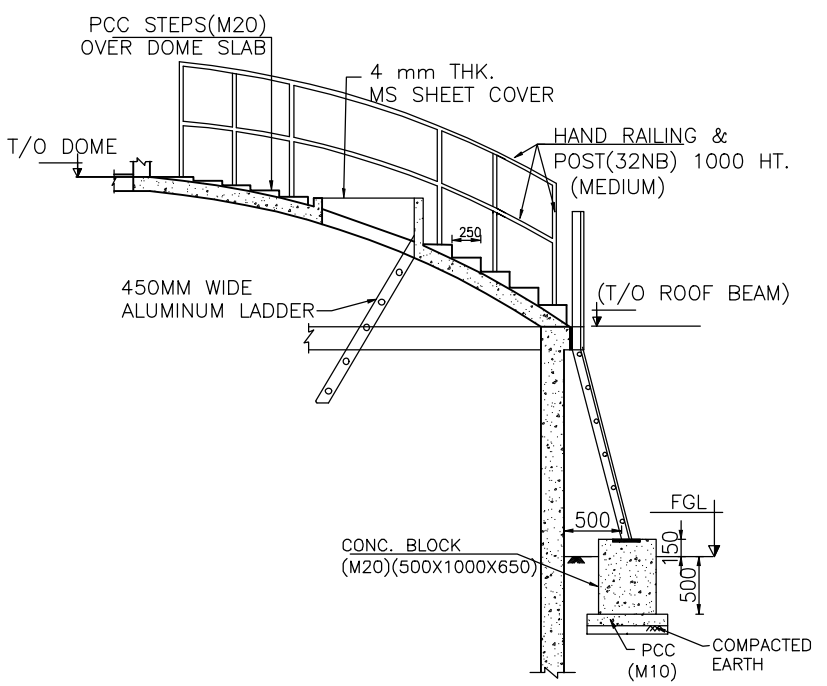
TATA CONSULTING ENGINEERS LIMITED
 MUMBAI

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| SCALE : NTS | DWG NO. TCE.12503A-CV-3082-RC-30583 | ISSUE PO |
| DC & DISC: DEL-CV | | |



LEGEND
 DIA --- DIAMETER
 R --- RADIUS
 PCC --- PLAIN CEMENT CONCRETE
 TYP --- TYPICAL
 WL --- WATER LEVEL
 M.S. --- MILD STEEL
 T/O --- TOP OF

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED.
 - DO NOT SCALE THE DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.
 - GRADE OF CONCRETE SHALL BE M30 WITH MAXIMUM 20mm DOWNGRADED AGGREGATES CONFORMING TO IS 456.
 - STEEL FOR REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS OF GRADE FE-500 CONFORMING TO IS:1786.
 - SAFE BEARING CAPACITY OF SOIL IS TAKEN AS 10T/Sq.m. AT FOUNDING LEVEL AND SAME IS TO BE CONFIRMED AT SITE BEFORE EXECUTION.
 - PLAIN CEMENT CONCRETE UNDER FOUNDATION SHALL BE OF GRADE M10 CONFORMING TO IS 456.
 - IF ANY LOOSE SOIL IS ENCOUNTERED AT FOUNDING LEVEL DURING CONSTRUCTION, IT SHOULD BE BROUGHT TO THE NOTICE OF THE ENGINEER.
 - IF GROUND WATER TABLE IS ENCOUNTERED DURING CONSTRUCTION, IT SHOULD BE BROUGHT TO THE NOTICE OF THE ENGINEER FOR MAKING APPROPRIATE CHANGES IN THE DESIGN.
 - THE SPACING OF CONSTRUCTION JOINT SHALL NOT BE MORE THAN 1.20M.



DET.OF STEPS AND M.S.RUNG LADDER

SIGN. OF CLIENT: -

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FILE NAME 12503A-CV-30584-Rev-P0

 DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
 IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TYPICAL GLSR DETAILS
 (1,00,000, 1,50,000, 2,00,000, 2,50,000 LITRE CAPACITY)

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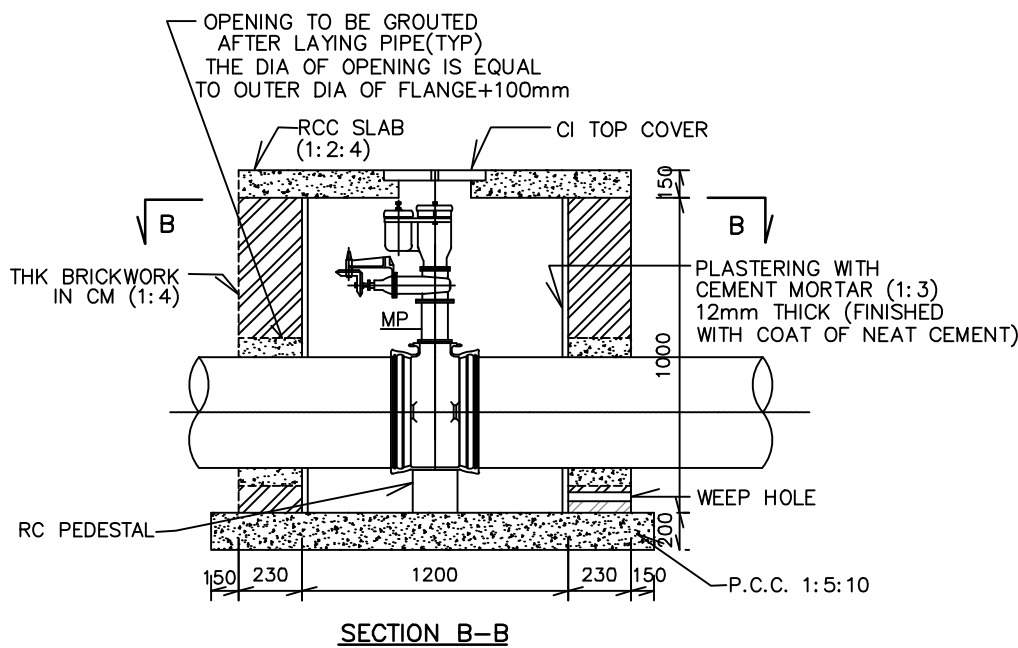
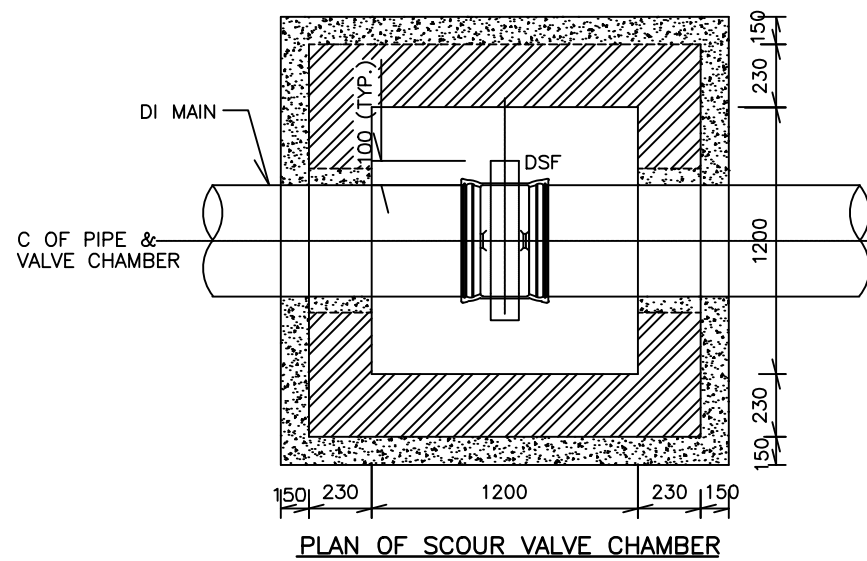
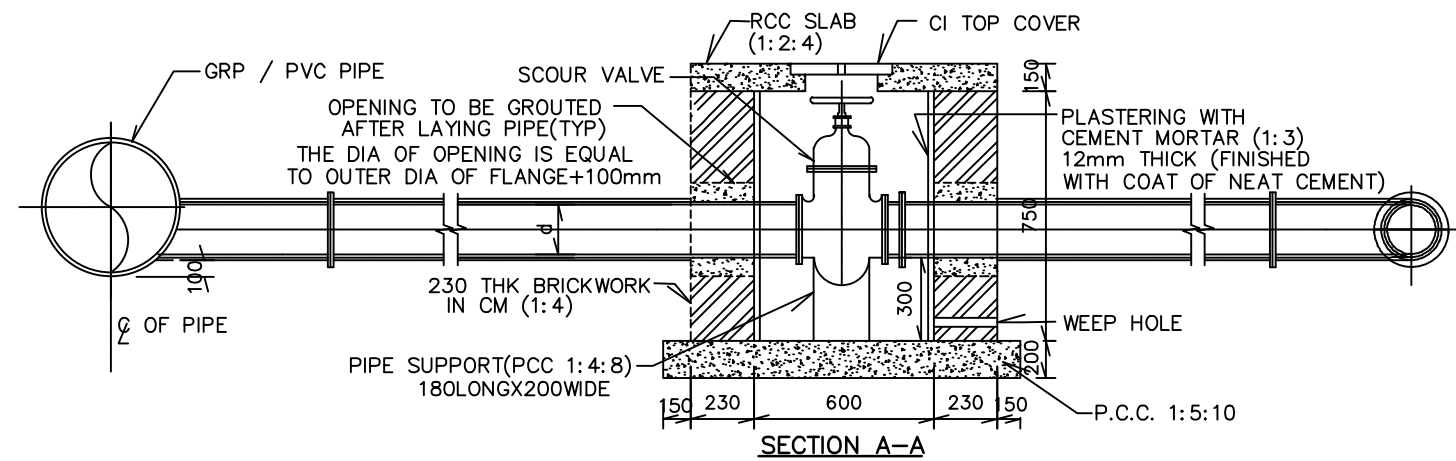
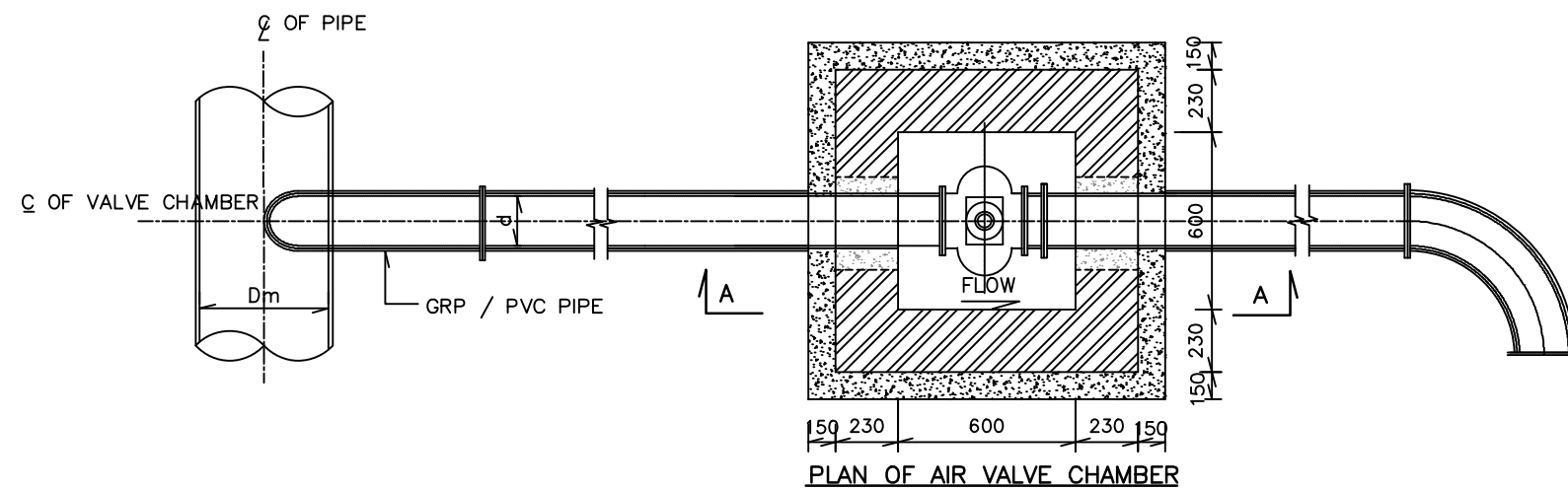
SCALE : NTS DWG NO. TCE.12503A-CV-3082-GA-30584 ISSUE PO
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| INITIALS | AN | AD | DVP | | | | | | NMS | NMS | | | | 15-04-2022 |
| REVISIONS | | | | | | | | | | | | | | |
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LEGEND

- RCC ——— REINFORCED CEMENT CONCRETE
- PCC ——— PLAIN CEMENT CONCRETE
- CI ——— CAST IRON
- CM ——— CEMENT MORTAR
- THK ——— THICK
- PVC ——— POLY VINYL CHLORIDE
- Dm/d ——— INTERNAL CLEAR DIAMETER OF PIPELINE
- DI ——— DUCTILE IRON
- DSF ——— DOUBLE SOCKET FLANGE
- Q ——— CENTER LINE
- MP ——— MAKEUP PIECE

NOTES

1. ALL DIMENSIONS ARE IN MM. & LEVELS ARE IN METRES.
2. GRADE OF REINFORCED CEMENT CONCRETE SHALL 1:2:4
3. THE ACTUAL GLS AND ILS OF ALL CHAMBERS SHALL BE FIXED BY THE CONTRACTOR IN CONSULTATION WITH THE ENGINEER-IN-CHARGE.
4. EXACT ORIENTATION AND LOCATION OF THE CHAMBERS SHALL BE DECIDED BY THE CONTRACTOR IN CONSULTATION WITH THE ENGINEER-IN-CHARGE.
5. CEMENT SHALL BE ORDINARY PORTLAND TYPE CONFORMING TO IS:269 UN,
6. MAXIMUM SIZE OF AGGREGATES SHALL BE 20mm DOWNGRADED FOR RAFT, WALLS, BEAMS AND SLABS.
7. BACKFILLING AROUND WALLS TO BE DONE UNIFORMLY ALL ROUND IN SUCCESSIVE LIFTS OF EQUAL HEIGHT AS PER SPECIFICATION BACKFILLING SHALL BE DONE ONLY WHEN DIRECTED BY ENGINEER.
8. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH TENDER SPECIFICATION.
9. CHAMBER TO BE PLASTERED INTERNALLY WITH CEMENT MORTAR 1:3 IN 12MM THICKNESS.
10. GRADE OF CONCRETE SHALL BE M20 WITH MAXIMUM 20mm DOWN GRADED AGGREGATES CONFORMING TO SPECIFICATION.
11. FOR LOCATION OF VALVE CHAMBERS REFER NETWORK DISTRIBUTION DRAWING. THE CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR ALL VALVE CHAMBER LOCATIONS AND LEVELS BEFORE EXECUTION.
12. THE ARRANGEMENT RELATED TO VALVE AND FITTINGS SHOWN IN THE DRAWING ARE INDICATIVE ONLY. BEFORE CONSTRUCTION, ARRANGEMENT OF VALVE & FITTINGS SHALL BE PROVIDED BY THE CONTRACTOR TO ENGINEER FOR APPROVAL.



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

SIGN. OF CLIENT: -
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PURPOSE : FOR TENDER ONLY
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TYPICAL DETAILS OF SCOUR VALVE
AND AIR VALVE CHAMBER



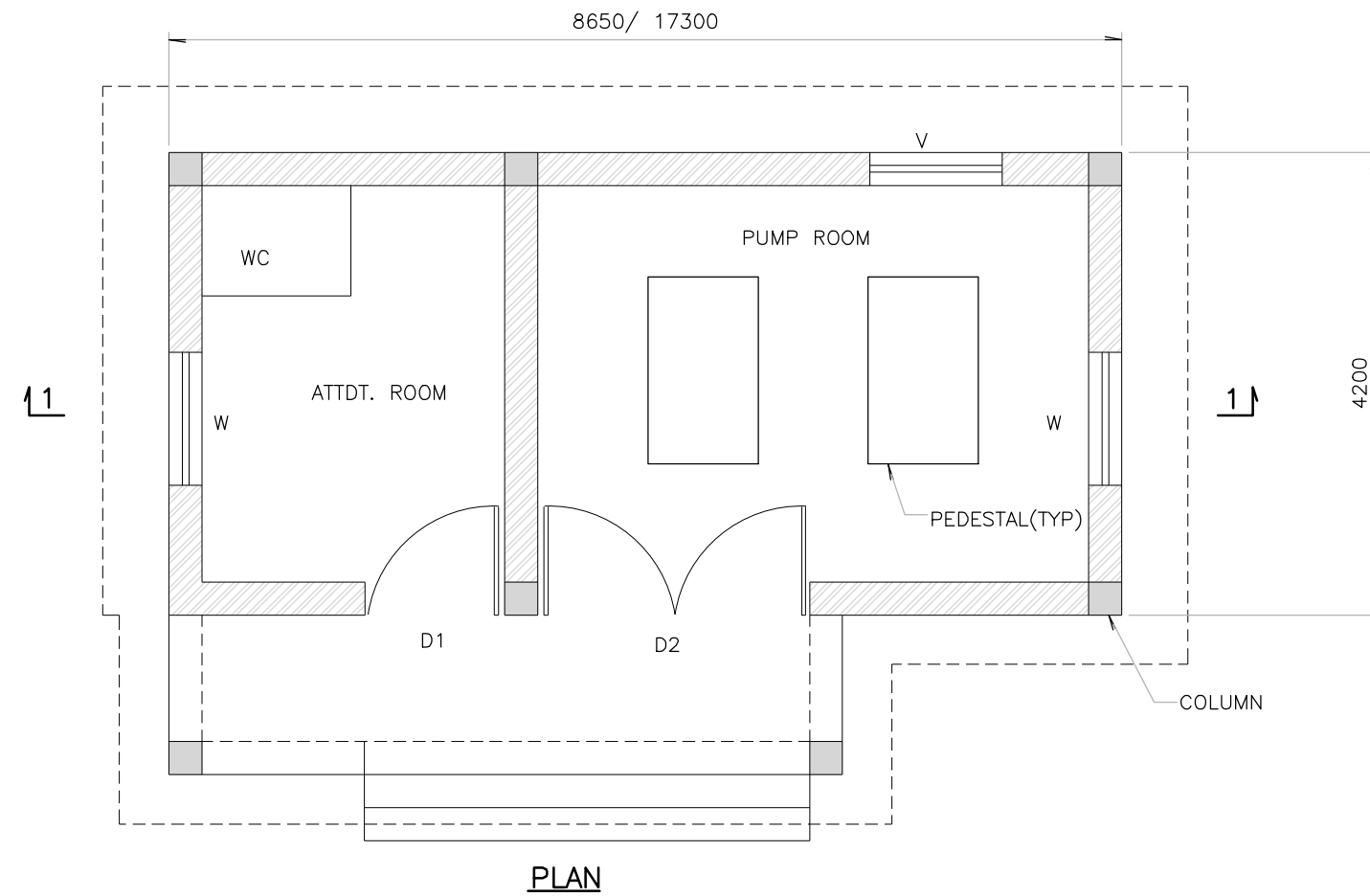
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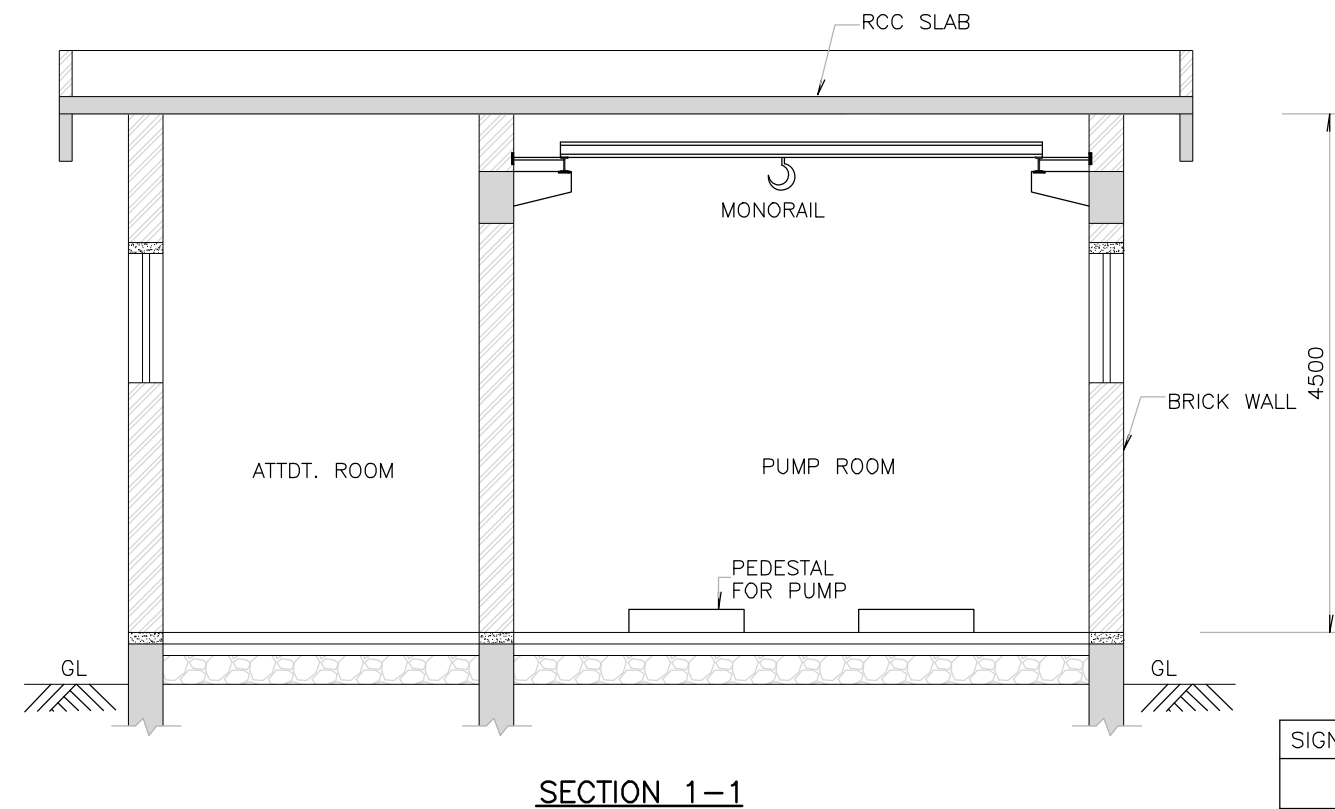
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| INITIALS | SM | MJ | DVP | | | | | | | NMS | NMS | | | | | | | | | |
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- LEGEND**
- ATTDT: --- ATTENDANT
 - RCC --- REINFORCED CEMENT CONCRETE
 - TYP --- TYPICAL
 - GL --- GROUND LEVEL

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED.
 2. DO NOT SCALE THE DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.
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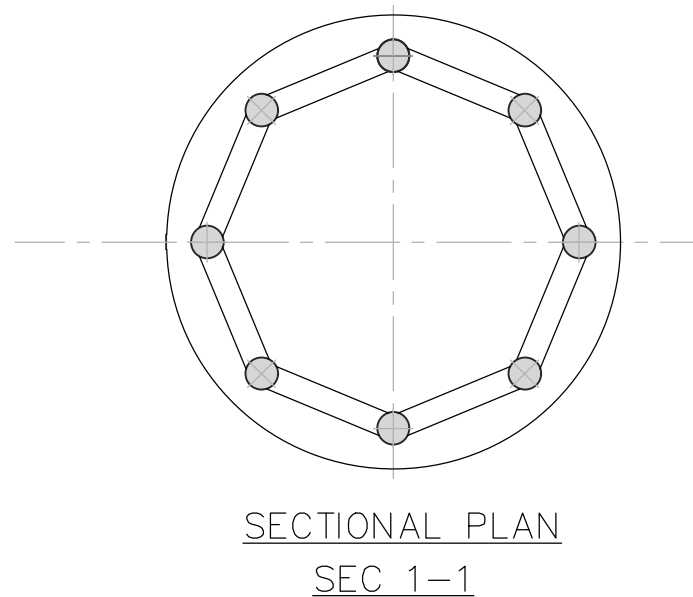
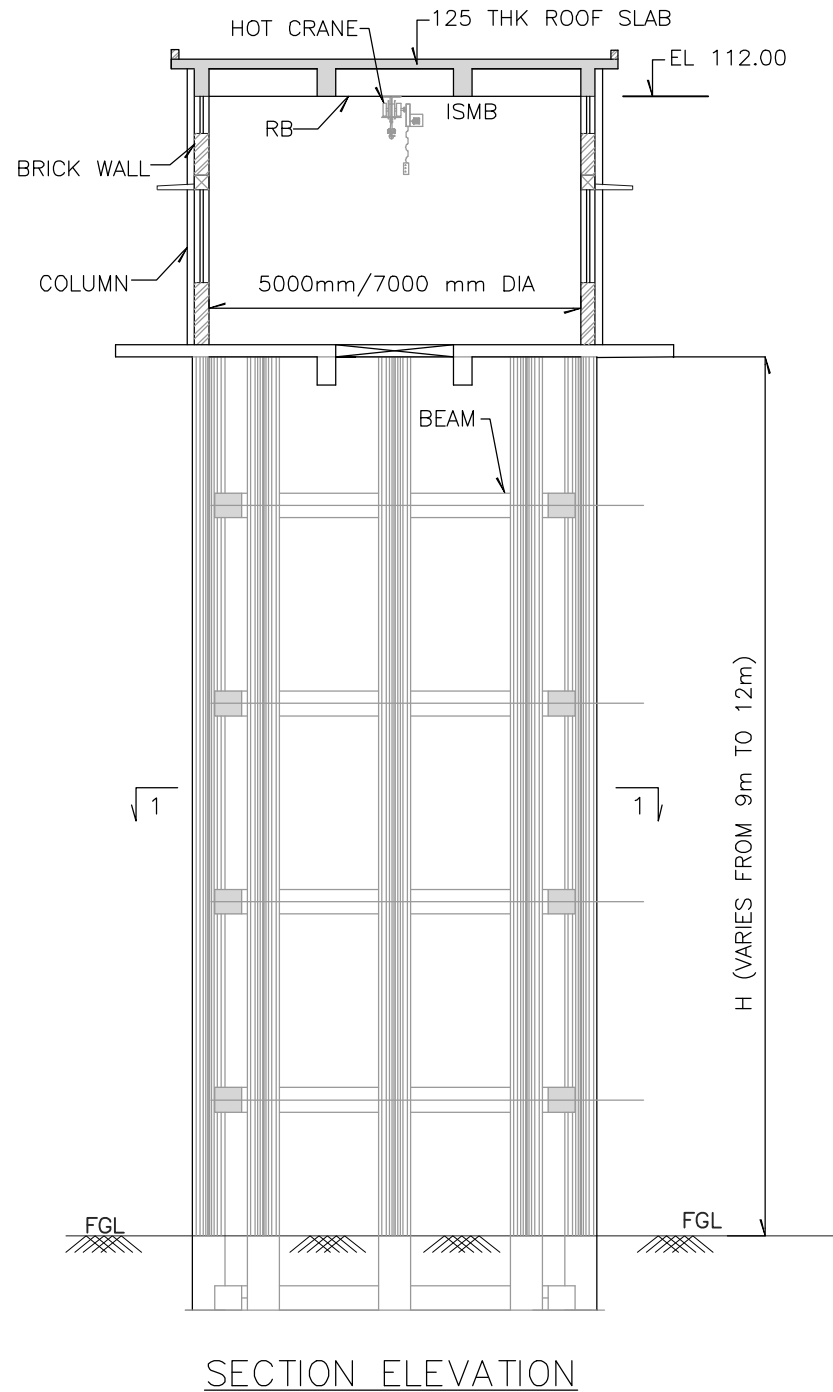
DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
 IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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| SIGN. OF CLIENT:- | | | |
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| TATA CONSULTING ENGINEERS LIMITED MUMBAI | |
| SCALE : NTS DC & DISC : DEL-CV | DWG NO. TCE.12503A-CV-3082-GA-30586 ISSUE P1 |

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| | REVISIONS | | | | | | | | | | | | | | | |
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SIZE-A3




- LEGEND:**
- DIA----- DIAMETER
 - H----- STAGE HEIGHT
 - THK----- THICKNESS
 - FGL-----FINISHED GROUND LEVEL
 - RB----- ROOF BEAM


- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED.
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| REVISIONS | | AS PER CLIENT OBSERVATION | | | | | | | | | | | | | | | | | | | |
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| | INITIALS | SM | LD/AD | DVP | | | | | | | | 15-04-2022 | CONSTRUCTION / FABRICATION WORK IS PERMITTED ON 'R' (RELEASED) ISSUES ONLY. | | | | | | | | |
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| ISSUE | DRN | DSN | CHD | CV | EL | IC | ME | | | PE/PM | APPD | DATE | INFORMATION CONTAINED WITHIN 'HOLD' IS NOT RELEASED FOR CONSTRUCTION / FABRICATION. FIELD MUST GET DESIGN OFFICE TO CLEAR 'HOLDS' IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION/ FABRICATION WORK RELATED TO 'HOLDS'. | | | | | | | | |
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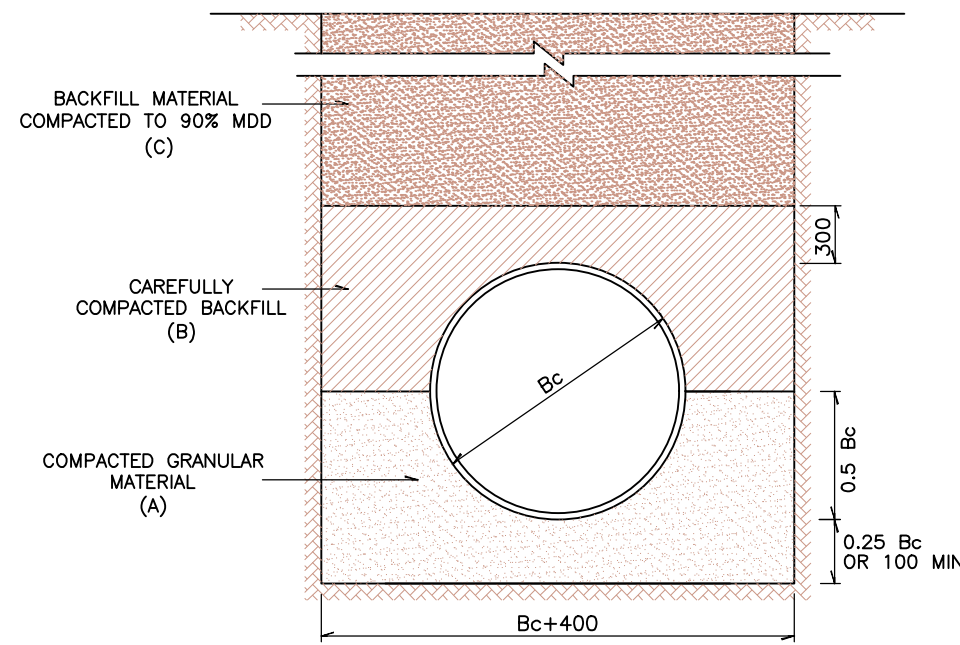
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| FILE NAME | | 12503A-CV-30587-Rev-P1 | |


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 IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

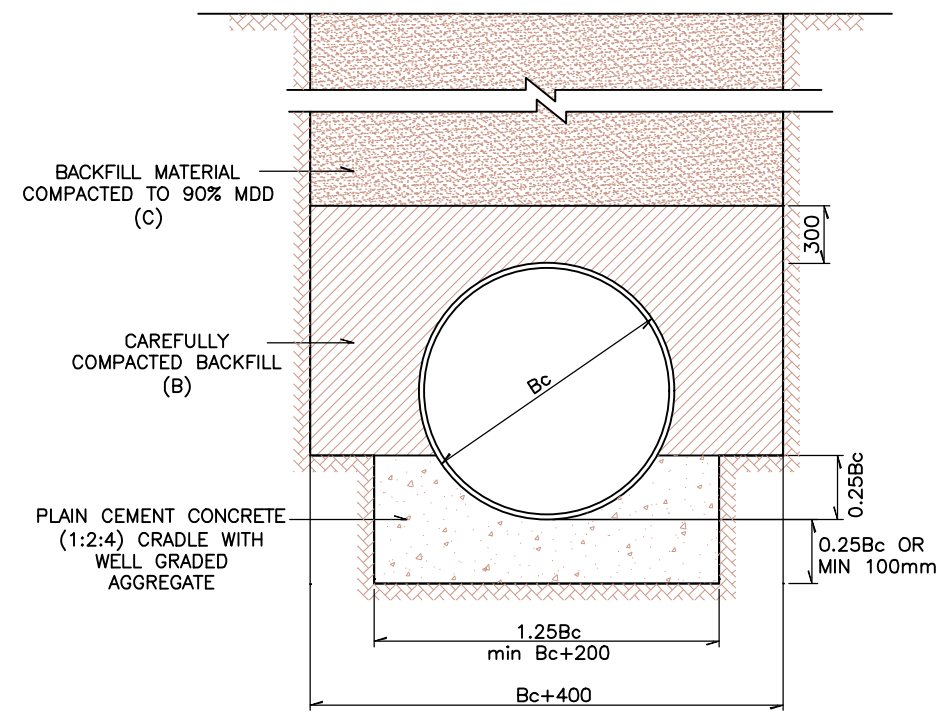
GENERAL ARRANGEMENT OF INTAKE WELL


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| SCALE : NTS | DWG NO. TCE.12503A-CV-3082-GA-30587 | ISSUE P1 |
| DC & DISC: DEL-CV | | |



**GRANULAR BEDDING (GRB)
CLASS-B**



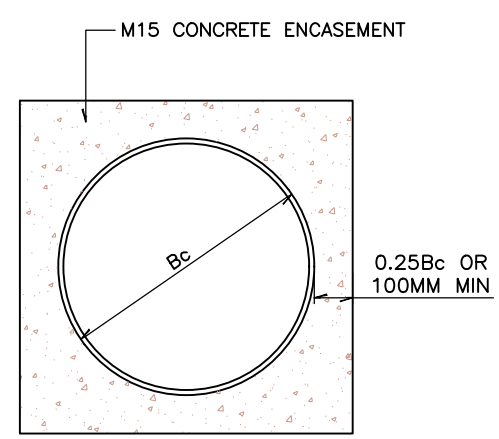
**PLAIN CEMENT CONCRETE BEDDING (PCCB)
CLASS-Ab**

LEGEND:

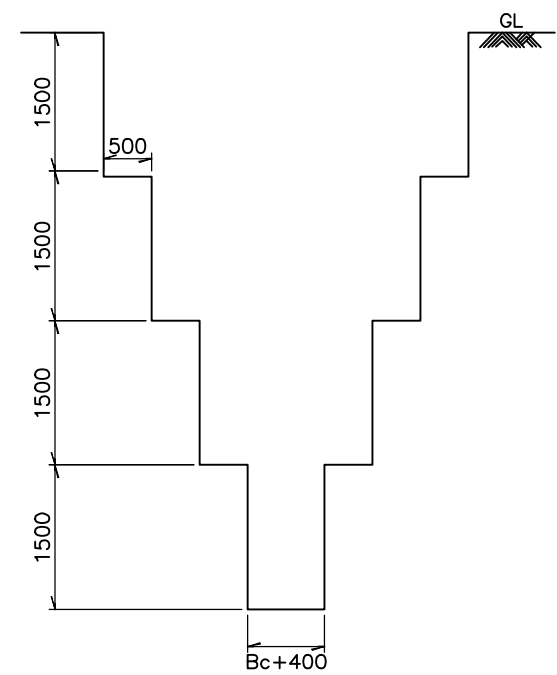
- GL GROUND LEVEL
- C.M. CEMENT MORTAR
- TYP TYPICAL
- MAX MAXIMUM
- DIA DIAMETER
- THK THICK
- MS MILD STEEL
- Bc OUTER DIAMETER OF PIPE
- d INTERNAL DIAMETER OF PIPE

NOTES:

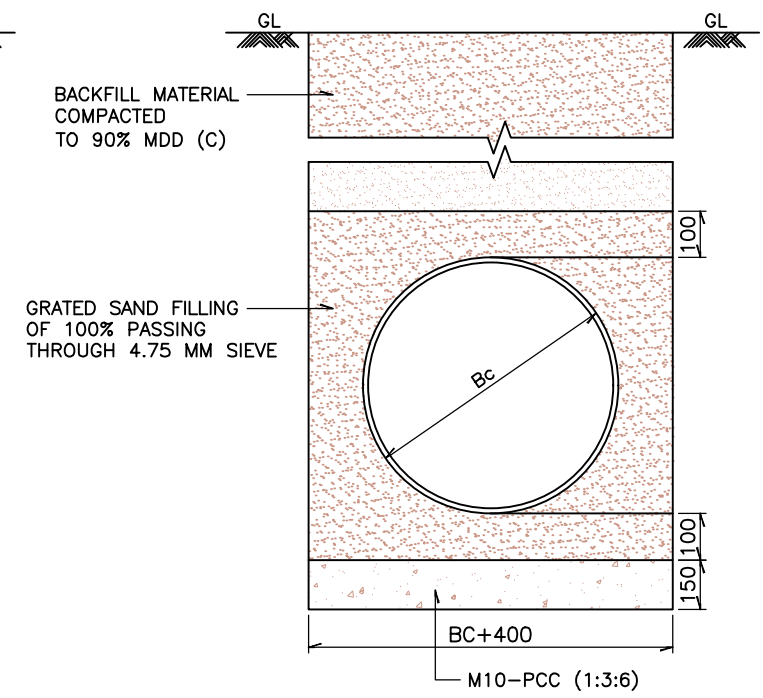
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2. INTERNAL DIAMETER OF PIPE = D
3. OUTER DIAMETER OF PIPE = Bc.
4. BACKFILLING WITH APPROVED SELECTED EXCAVATED MATERIAL AND COMPACTION SHALL BE DONE BY HAND OR APPROVED MECHANICAL METHODS IN LAYERS OF 150MM WITH SPECIAL CARE TO AVOID DAMAGE OF THE PIPE
5. BACKFILLING SHALL BE DONE WITH EXCAVATED MATERIAL BY HAND OR APPROVED MECHANICAL METHODS IN LAYERS NOT EXCEEDING 150 MM THICKNESS AFTER COMPACTION, WETTED AND COMPACTION TO A DENSITY OF NOT LESS THAN 90% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT OF THE SURROUNDING MATERIAL.
6. LAYER A. COMPACTED GRANULAR MATERIAL
7. LAYER B. CAREFULLY COMPACTED BACKFILL
8. LAYER C. BACKFILL MATERIAL COMPACTED TO 90% M.D.D



CONCRETE ENCASEMENT



TYPICAL SECTION OF TRENCH



SAND BEDDING (SB) CLASS-S

| | | | | | | | | | | | |
|-----------|----------|-----|-----|-----|----|----|----|-----|-------|------------|------|
| SIGN. | | | | | | | | | | | |
| | INITIALS | | | | | | | | | | |
| REVISIONS | | | | | | | | | | | |
| PO | SIGN. | | | | | | | | | | |
| | INITIALS | SM | MJ | DVP | | | | NMS | NMS | 15-04-2022 | |
| REVISIONS | | | | | | | | | | | |
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SIGN. OF CLIENT:-

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| JE | AE | EE | SE |
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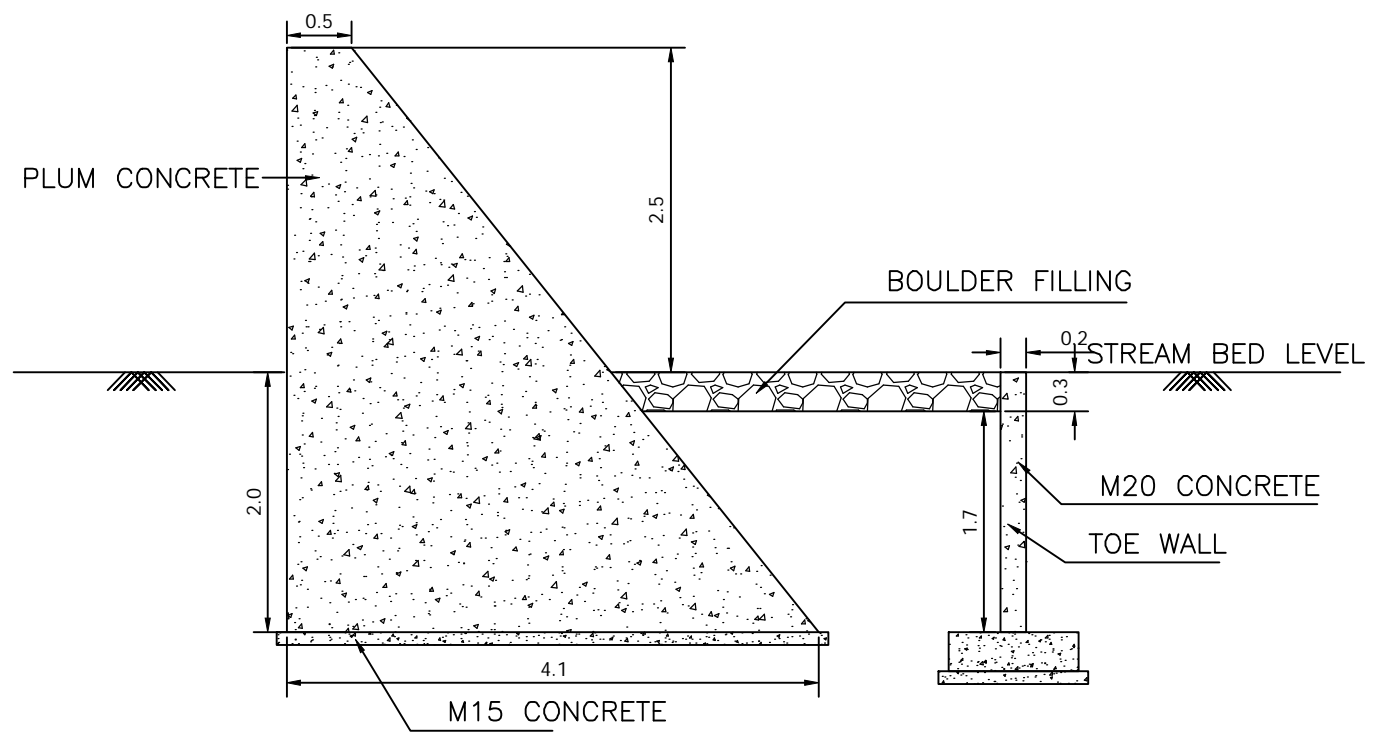
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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TYPICAL DETAILS OF BEDDING AND TRENCH

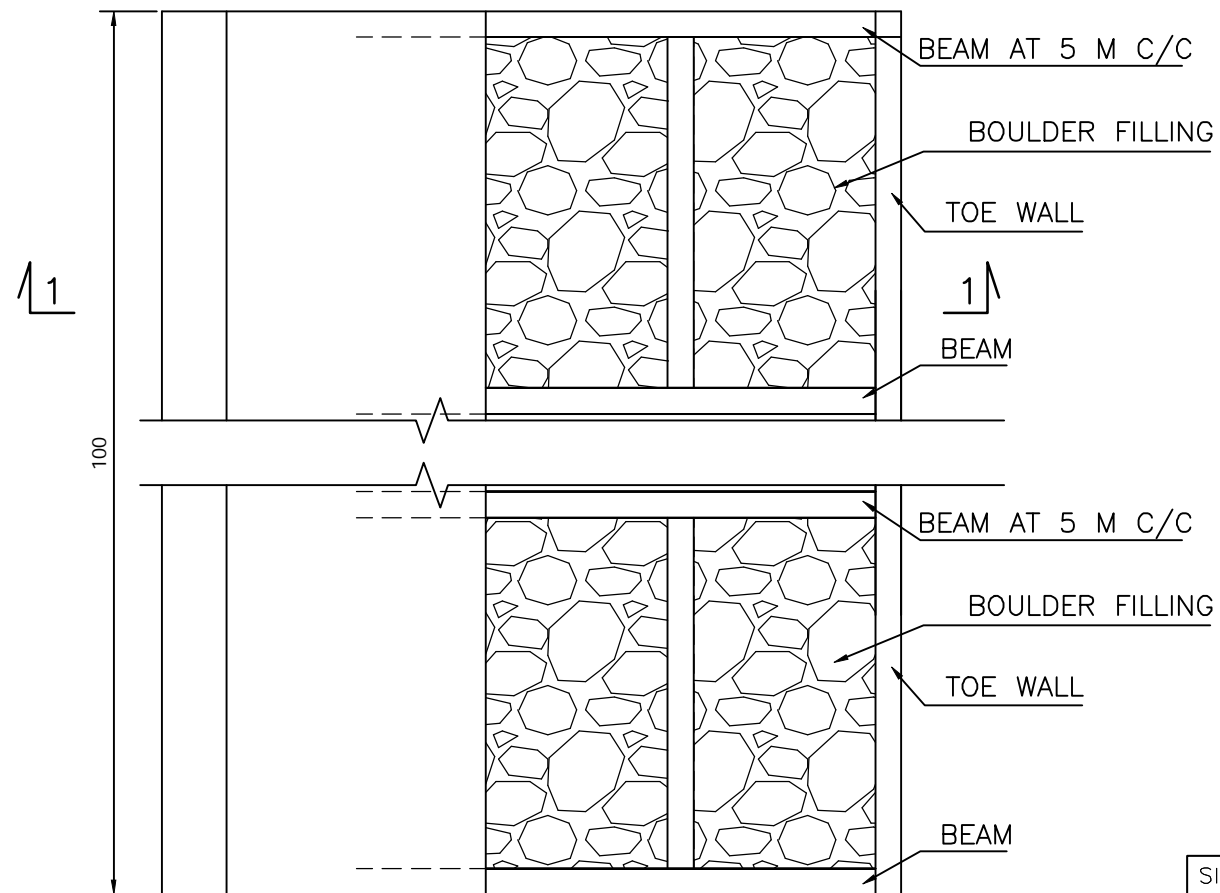
 **TATA CONSULTING ENGINEERS LIMITED**
MUMBAI

SCALE : NTS DWG NO. TCE.12503A-CV-3082-WS-30588 ISSUE PO

DC & DISC: DEL-CV



SECTION 1-1



PLAN

NOTES

1. ALL DIMENSIONS ARE IN METER.
2. THIS DRAWING HAS BEEN PREPARED IN ABSENCE OF DETAILED SURVEY AND GEOTECHNICAL INVESTIGATION WORKS. FOUNDATION IS ASSUMED AT 2M BELOW BED LEVEL



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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| SIGN. OF CLIENT:— | | | |
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| | SM | DVB | DVB | | | | | | MK | MK | 18-04-2022 |
| | REVISIONS | | | | | | | | | | |
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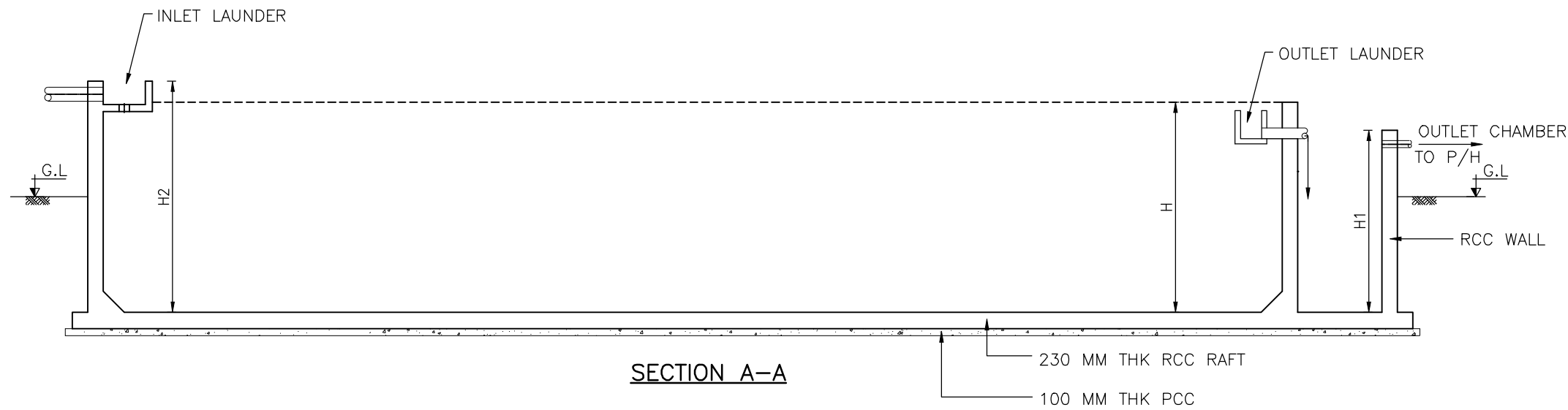
FILE NAME 12503A-CV-30589-Rev-P0

GENERAL ARRANGEMENT OF CHECK DAM



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

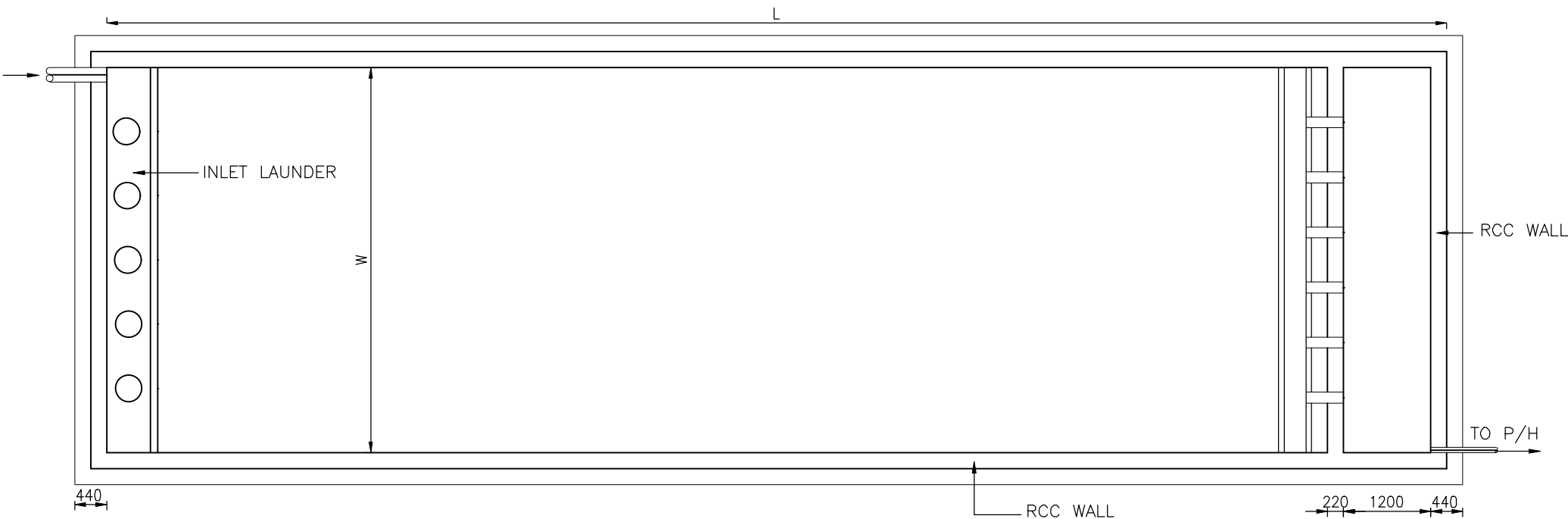
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LEGEND

- P/H ---- PUMP HOUSE
- THK ---- THICK
- PCC ---- PLAIN CEMENT CONCRETE
- RCC ---- REINFORCED CEMENT CONCRETE
- G.L. ---- GROUND LEVEL
- L ---- LENGTH OF TANK
- W ---- WIDTH OF TANK
- H ---- HEIGHT OF TANK

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED.
2. DO NOT SCALE THE DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.
3. GRADE OF CONCRETE SHALL BE M30 WITH MAXIMUM 20mm DOWNGRADED AGGREGATES CONFORMING TO IS 456.
4. STEEL FOR REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS OF GRADE FE-500 CONFORMING TO IS:1786.
5. SAFE BEARING CAPACITY OF SOIL IS TAKEN AS 10T/Sq.m. AT FOUNDING LEVEL AND SAME IS TO BE CONFIRMED AT SITE BEFORE EXECUTION.
6. PLAIN CEMENT CONCRETE UNDER FOUNDATION SHALL BE OF GRADE M10 CONFORMING TO IS 456.
7. IF ANY LOOSE SOIL IS ENCOUNTERED AT FOUNDING LEVEL DURING CONSTRUCTION, IT SHOULD BE BROUGHT TO THE NOTICE OF THE ENGINEER.
8. IF GROUND WATER TABLE IS ENCOUNTERED DURING CONSTRUCTION, IT SHOULD BE BROUGHT TO THE NOTICE OF THE ENGINEER FOR MAKING APPROPRIATE CHANGES IN THE DESIGN.
9. THE SPACING OF CONSTRUCTION JOINT SHALL NOT BE MORE THAN 1.20M.



PLAN

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
 IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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| SIGN. OF CLIENT:-- | | | |
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| PURPOSE : FOR TENDER ONLY | | | |
| DO NOT SCALE | | | |

TYPICAL DETAILS OF DESILTING TANK

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| | INITIALS | AD | MJ | DVP | | | | | NMS | | NMS |
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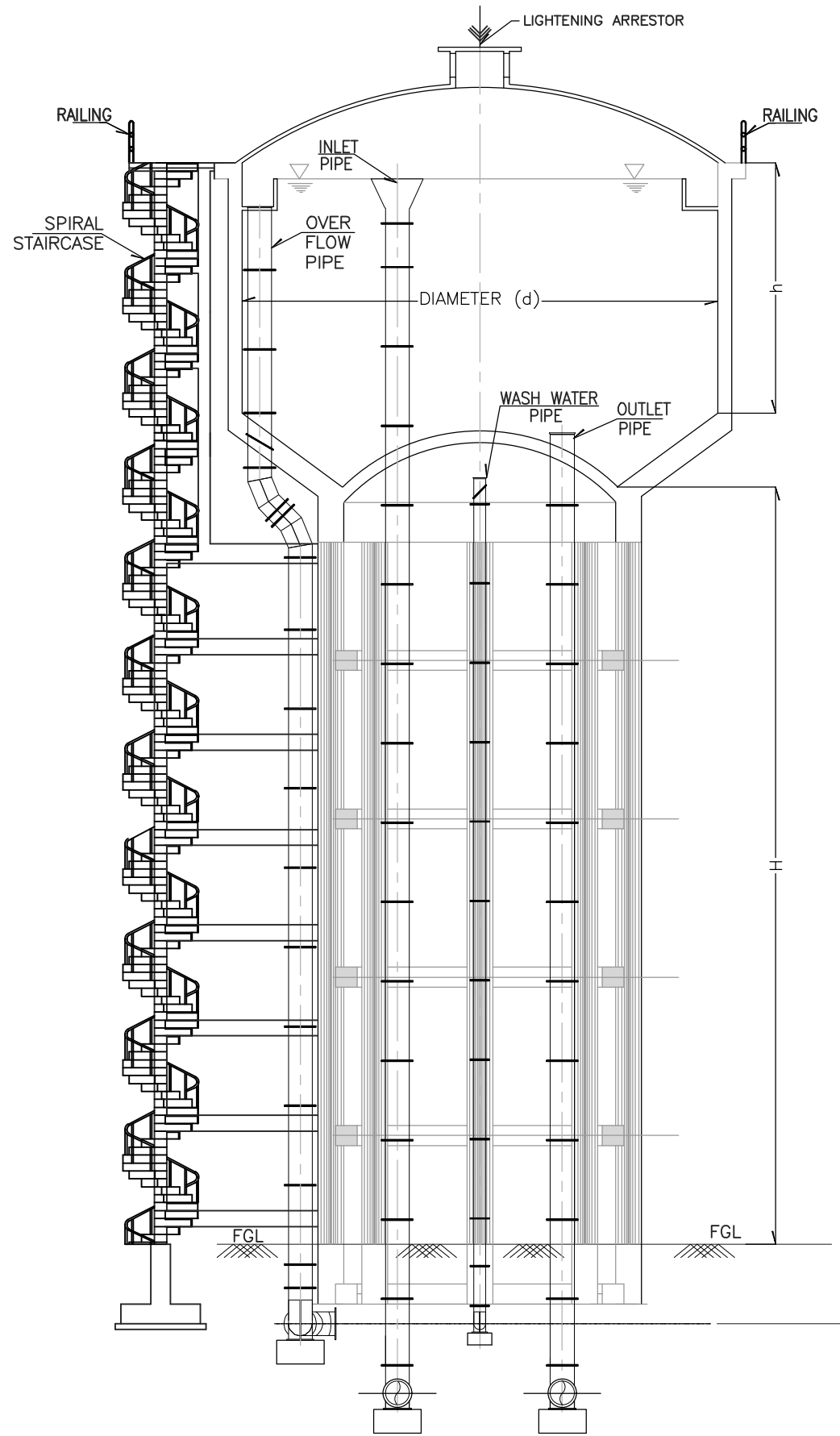
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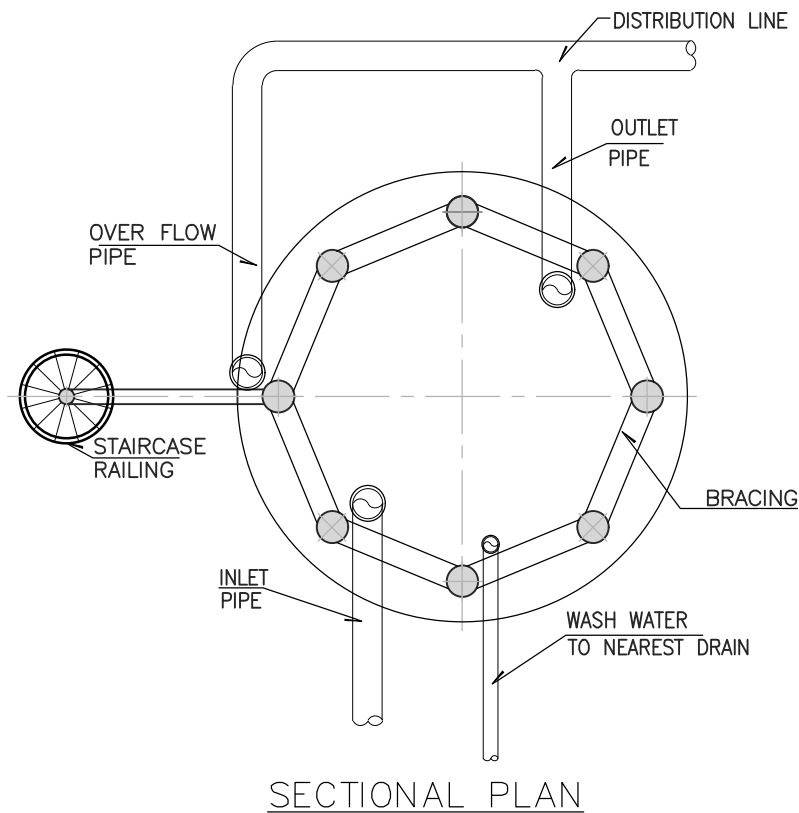
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ISSUE PO



SECTION ELEVATION



SECTIONAL PLAN

LEGEND:

- D-----DIAMETER
- H-----STAGE HEIGHT
- h-----HEIGHT OF CYLINDRICAL WALL
- FGL-----FINISHED GROUND LEVEL

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES. ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS.

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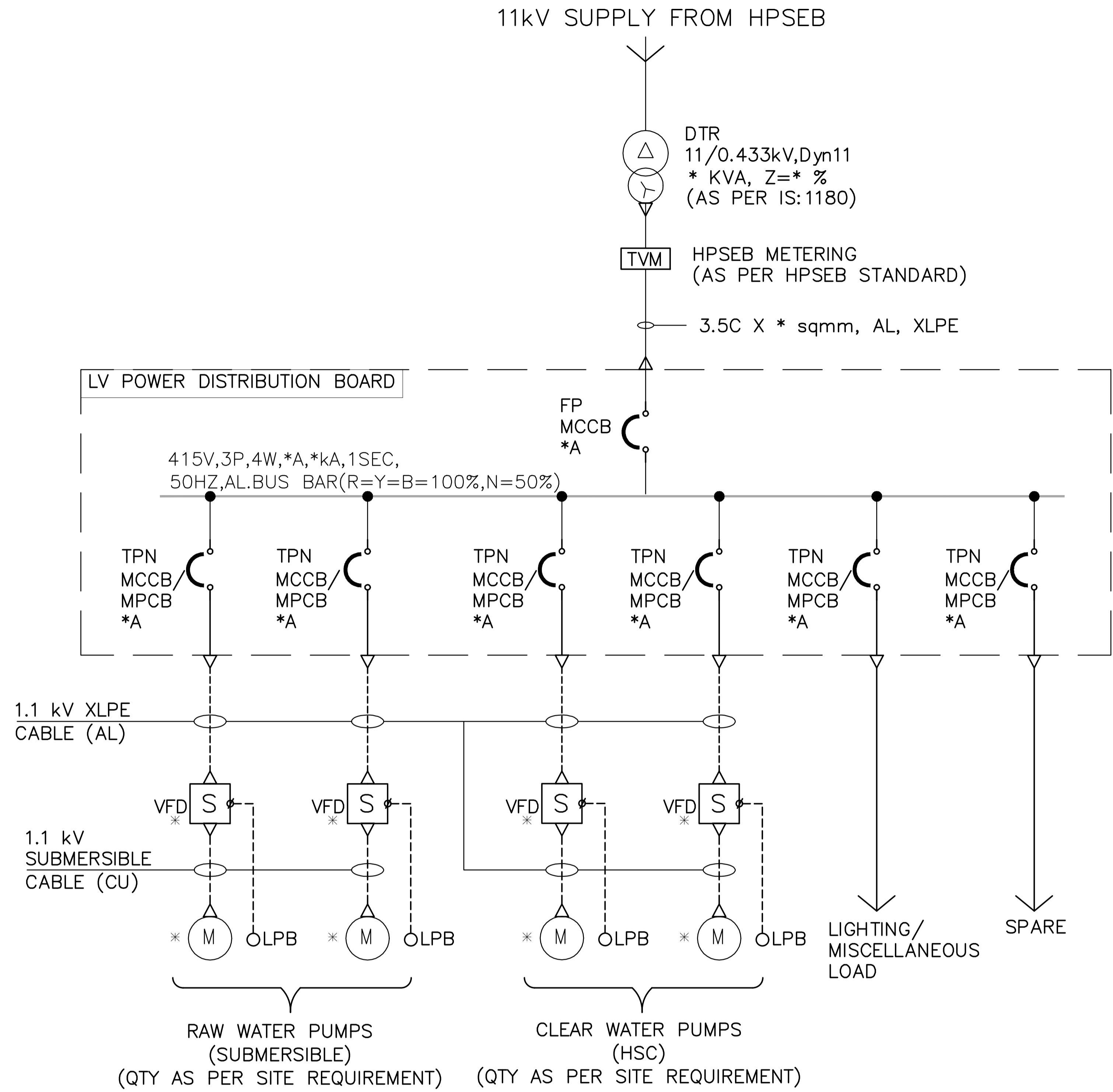
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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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| TYPICAL DETAILS OF ELSR | |
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TYPICAL SLD FOR LIS PUMPING STATION WITH 1W+1S UNITS & LT METERING

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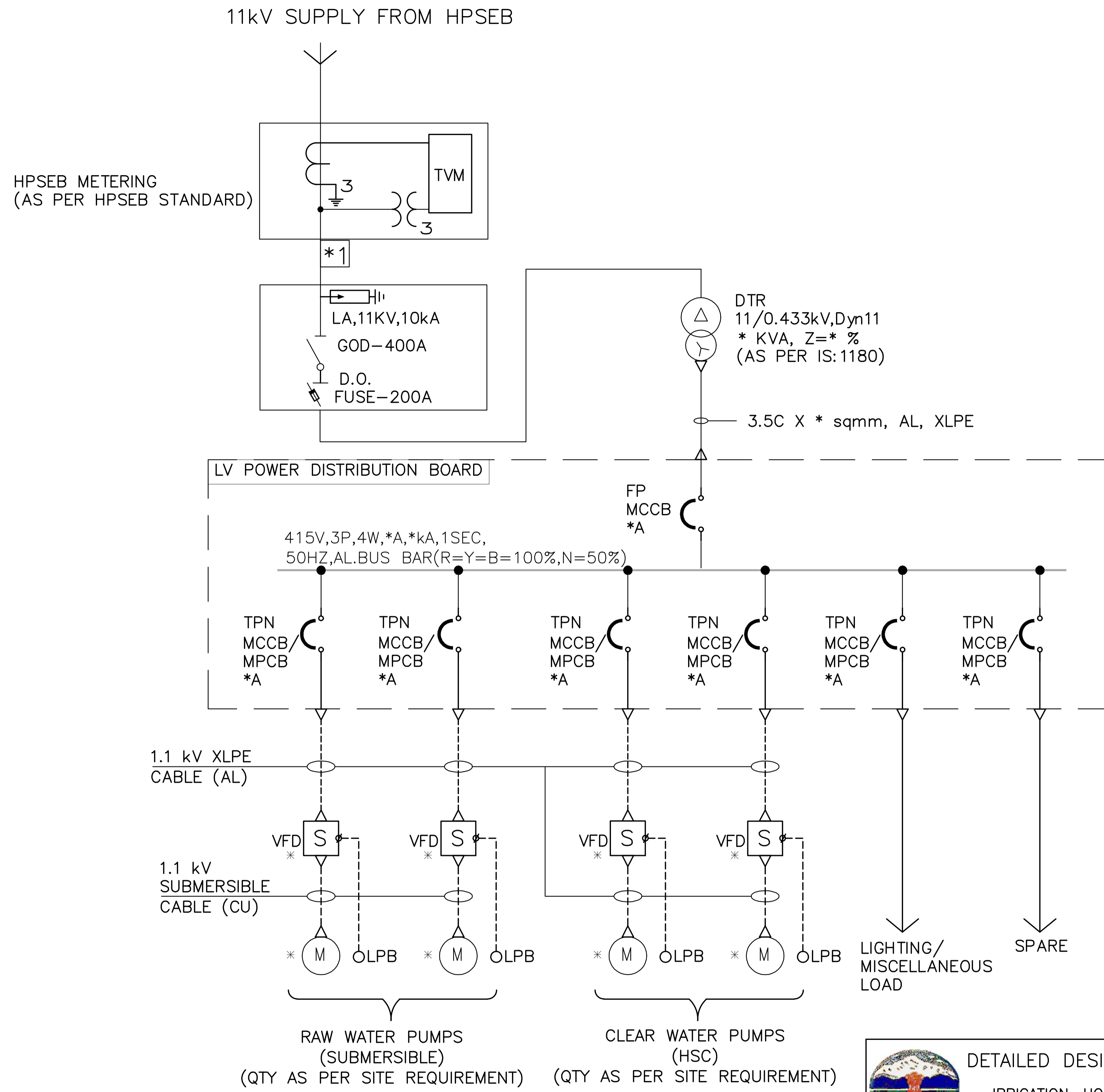
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| | INITIALS | KKS | ASB | ASB | | | | | MK | DK | 18-04-2022 |
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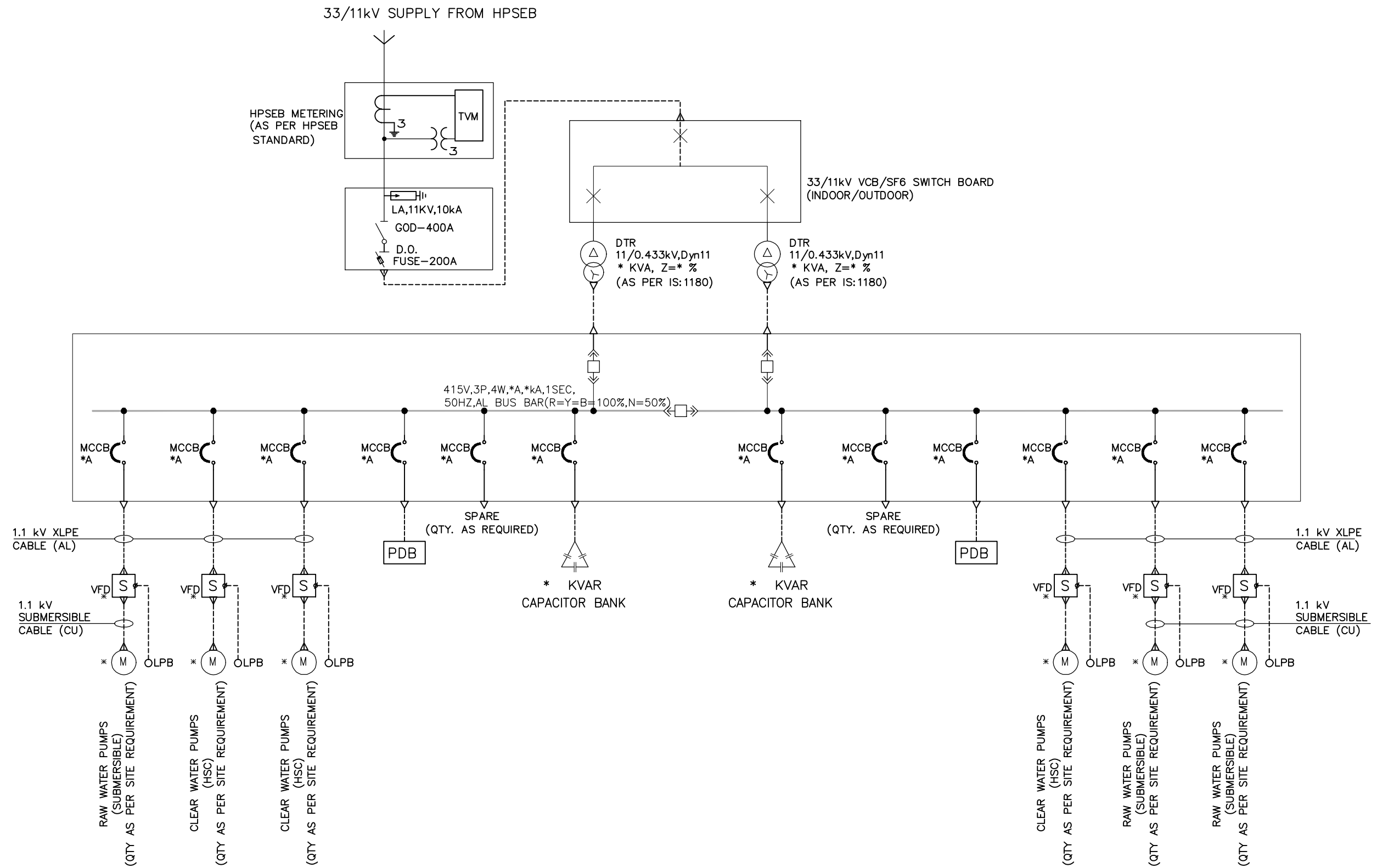
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TYPICAL SLD FOR LIS PUMPING STATION WITH 2W+1S UNITS & HT METERING

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