

# CTS STANDARD DESIGN -BOOK OF DRAWINGS

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AMENDMENTS		
No	Date	Revision

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  - ALL SANITARY WORK TO BE IN ACCORDANCE WITH M.O.H RULES AND REGULATIONS.
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  - ALL PIPES AND SERVICES TO BE AT A MINIMUM OF 450MM BELOW REDUCED GROUND LEVEL.

**Client:**



**GOAL-KAMPALA**  
Procurement and Logistics Department  
Plot 1 Lubutoo close, Le Palm Building, Muyenga-Kampala  
P.O Box 38140 Uganda, Kampala  
Email: procurement@goal.org

**Project:**

**COMMUNITY TAP STAND STANDARD DESIGN FOR BUTALEJA DISTRICT**

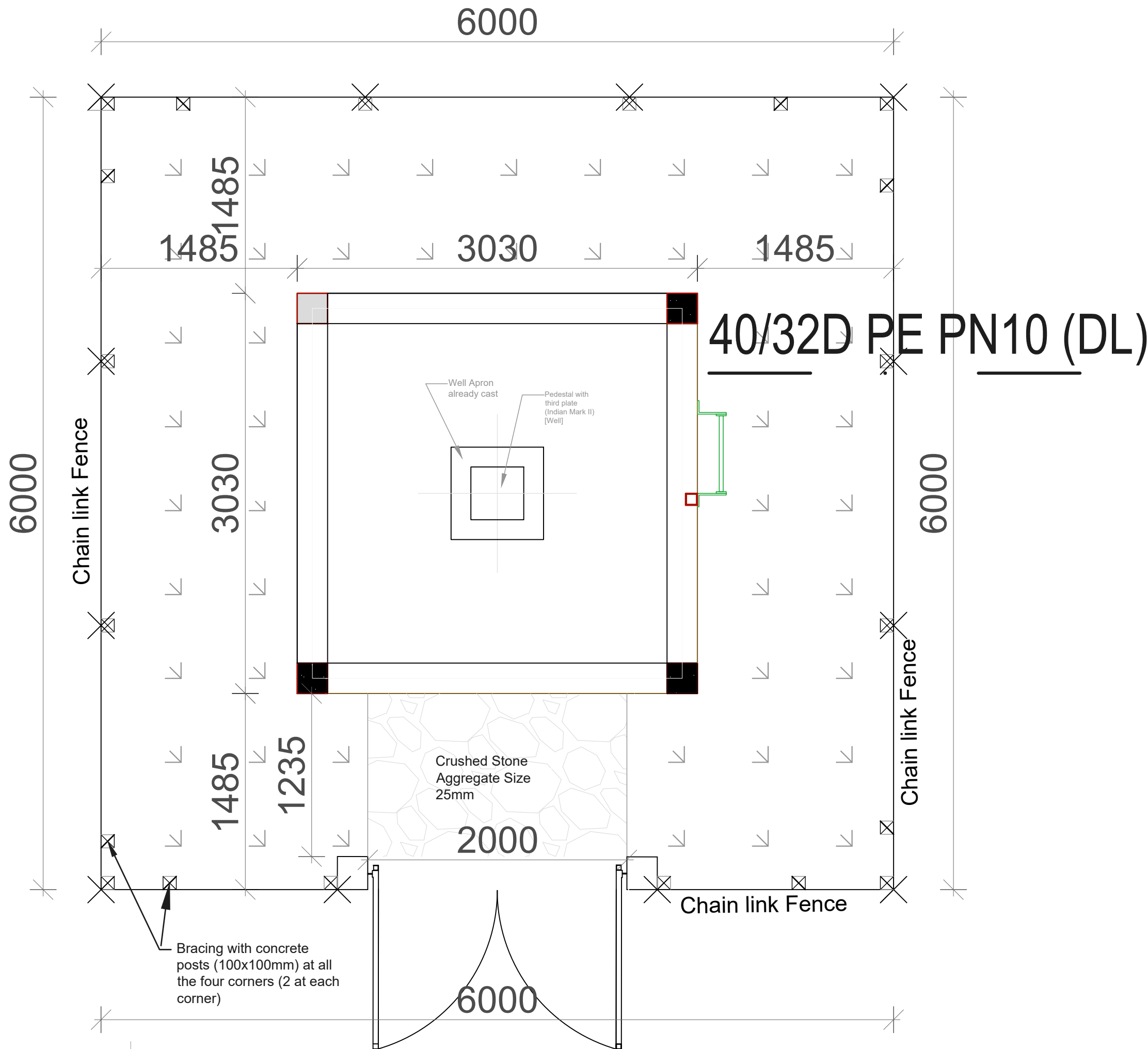
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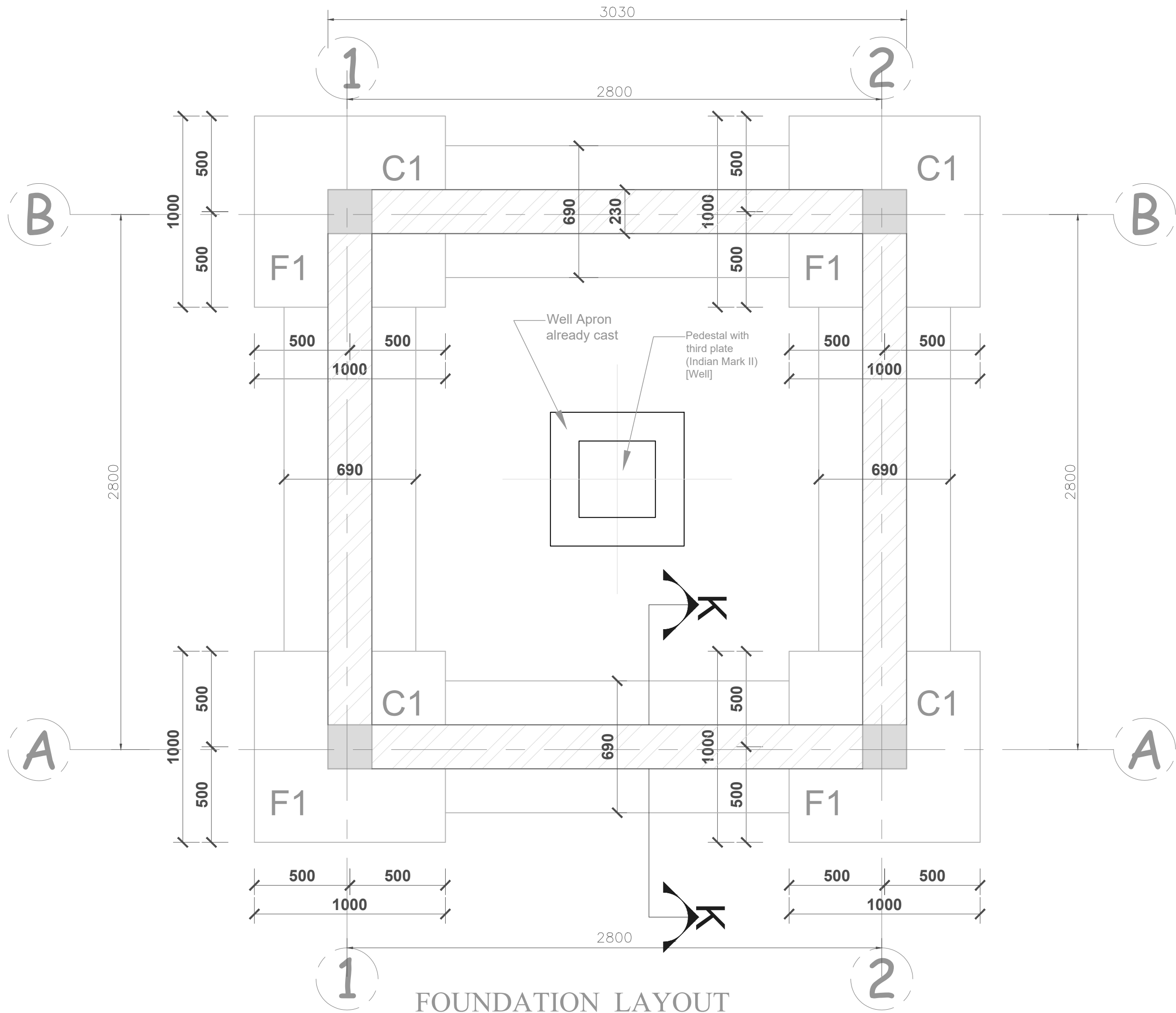
**Reservoir/Intake**

Site Layout Plan

<b>Scale:</b>	<b>Designed:</b>	
AS SHOWN	<b>Drawn:</b>	PLA
<b>Date:</b>	<b>Checked:</b>	Infrastructure Team
February/2025	<b>Approved:</b>	JSK

Drg No: GBUT [- -]01






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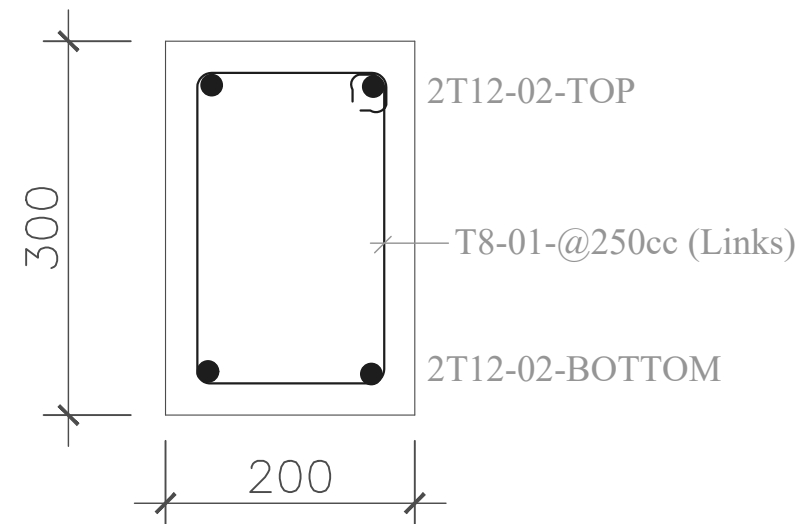
**COMMUNITY TAP STAND STANDARD DESIGN FOR BUTALEJA DISTRICT**

**Drawing Title:**

**Reservoir/Intake**  
Foundation Layout

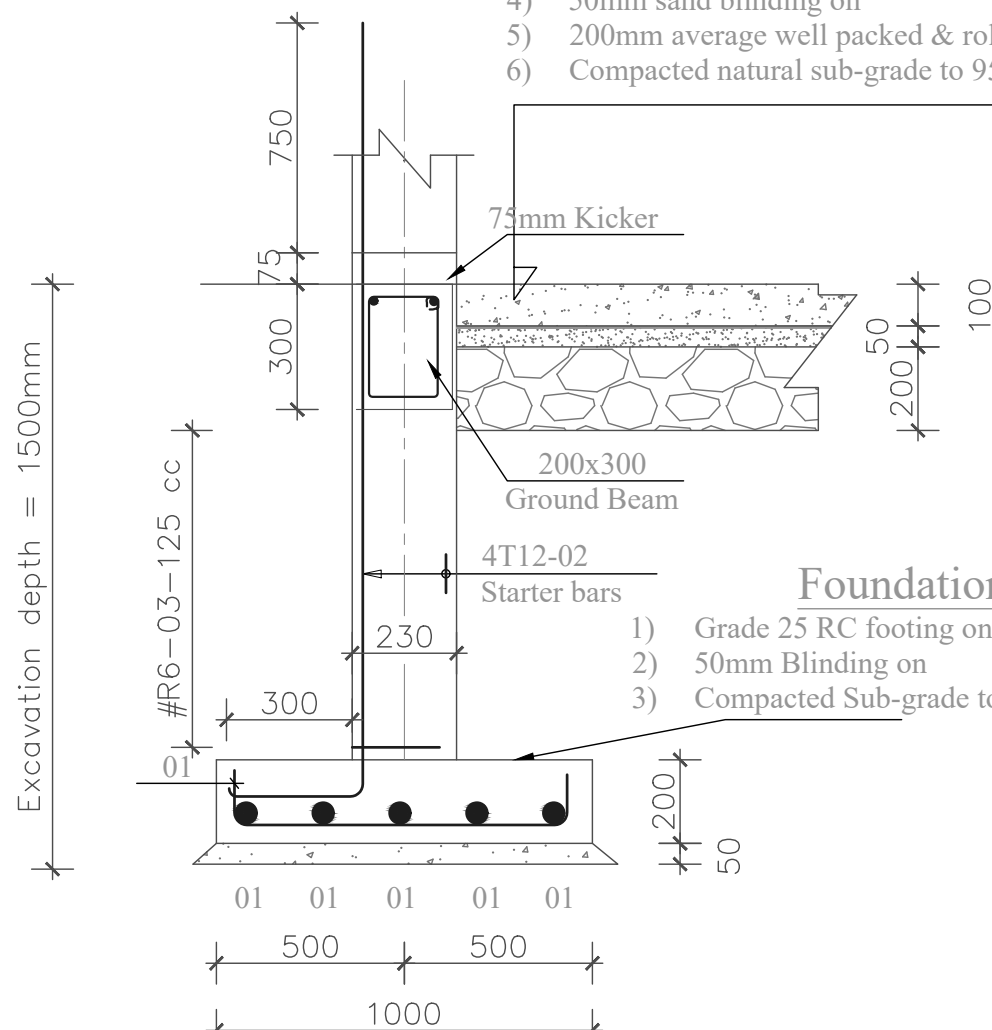
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February/2025	<b>Approved:</b>	JSK
Drg No: GBUT [- -]02		

- 1) 100mm ground bearing slab in C25/20mm conc. on
- 2) A98 BRC MESH at 25-38mm from top on
- 3) 1000gauge damp proof membrane on
- 4) 50mm sand blinding on
- 5) 200mm average well packed & rolled hardcore on
- 6) Compacted natural sub-grade to 95% MOD AASHTO

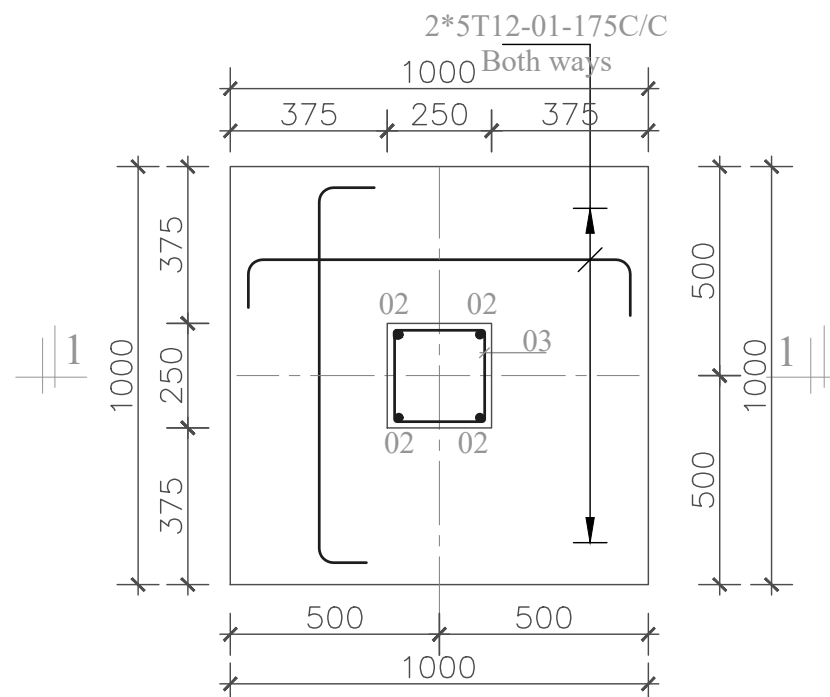


## Foundation notes

- 1) Grade 25 RC footing on
- 2) 50mm Blinding on
- 3) Compacted Sub-grade to 95% MOD AASHTO

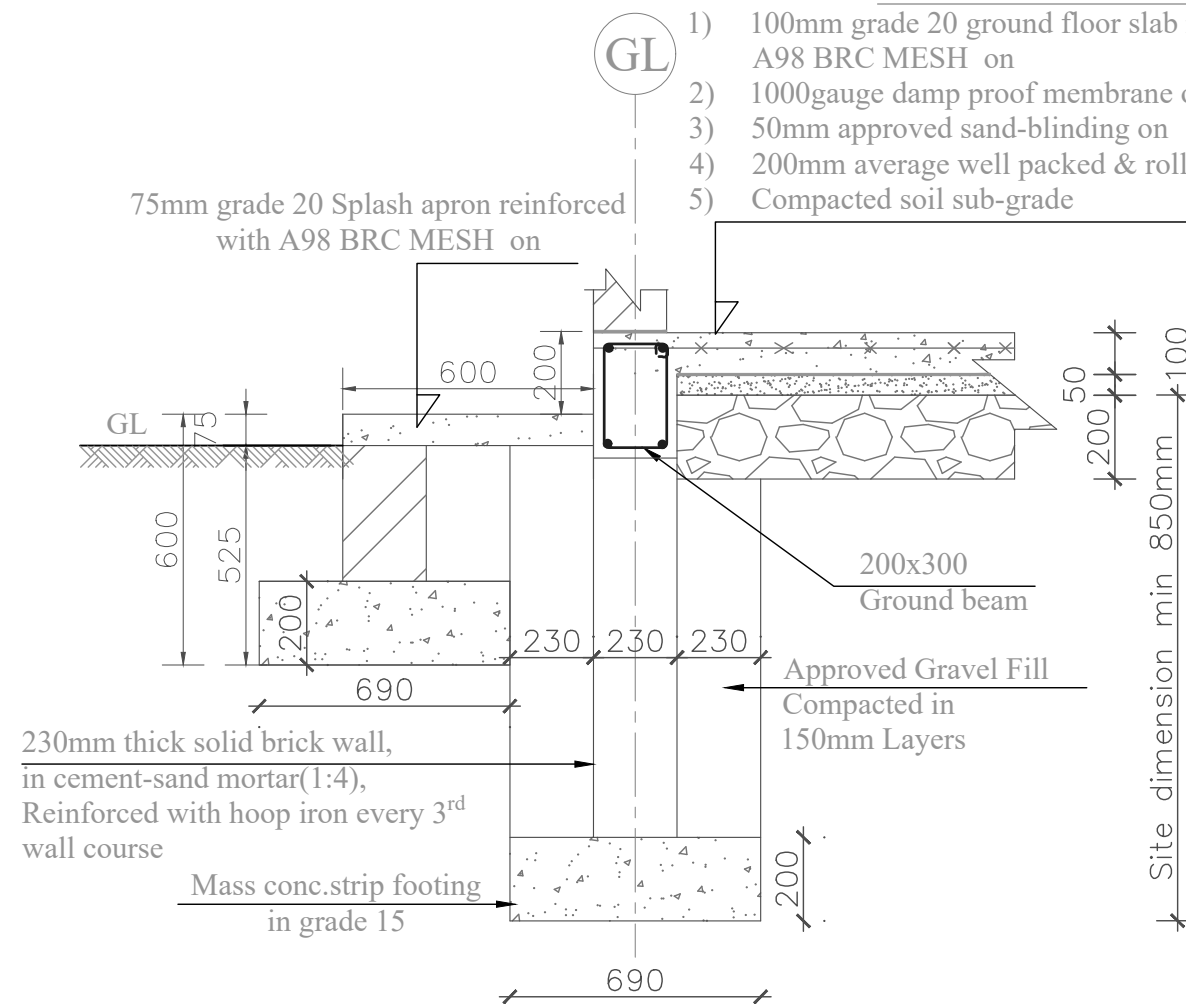


## SECTION 1-1



**FOOTING F1 [4.Nos.]**

- 1) 100mm grade 20 ground floor slab reinforced with A98 BRC MESH on
- 2) 1000gauge damp proof membrane on
- 3) 50mm approved sand-blanding on
- 4) 200mm average well packed & rolled hardcore on
- 5) Compacted soil sub-grade



## SECTION K-K

No	Date	Revision

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GOAL

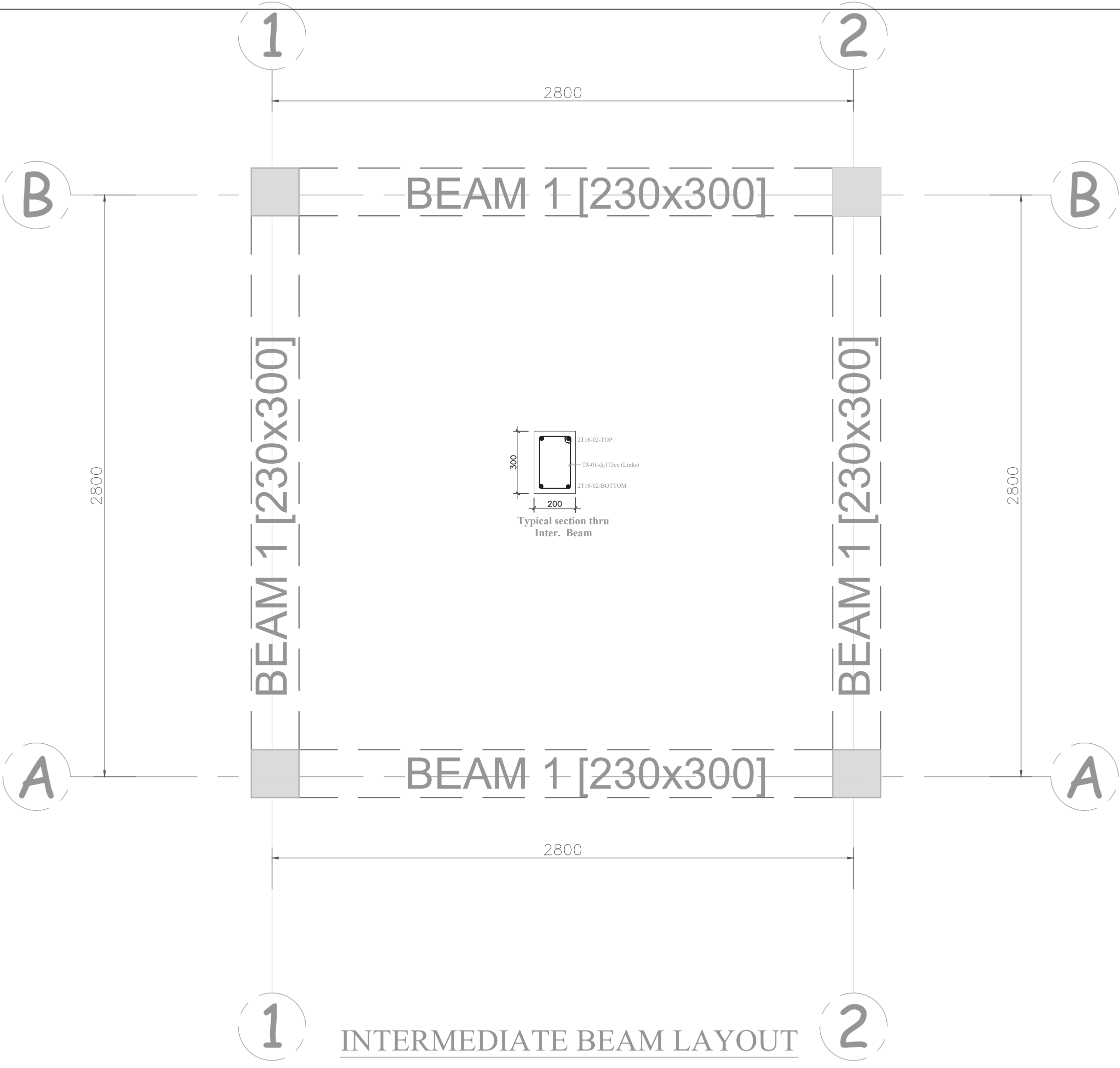
**COMMUNITY TAP STAND STANDARD DESIGN  
FOR BUTALEJA DISTRICT**

### Reservoir/Intake

### Column and Foundation Details

<b>Scale:</b>	<b>Designed:</b>	
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<b>Date:</b>	<b>Checked:</b>	Infrastructure Team
February/2025	<b>Approved:</b>	JSK

Drg No:	GBUT [- -]03
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INTERMEDIATE BEAM LAYOUT

AMENDMENTS		
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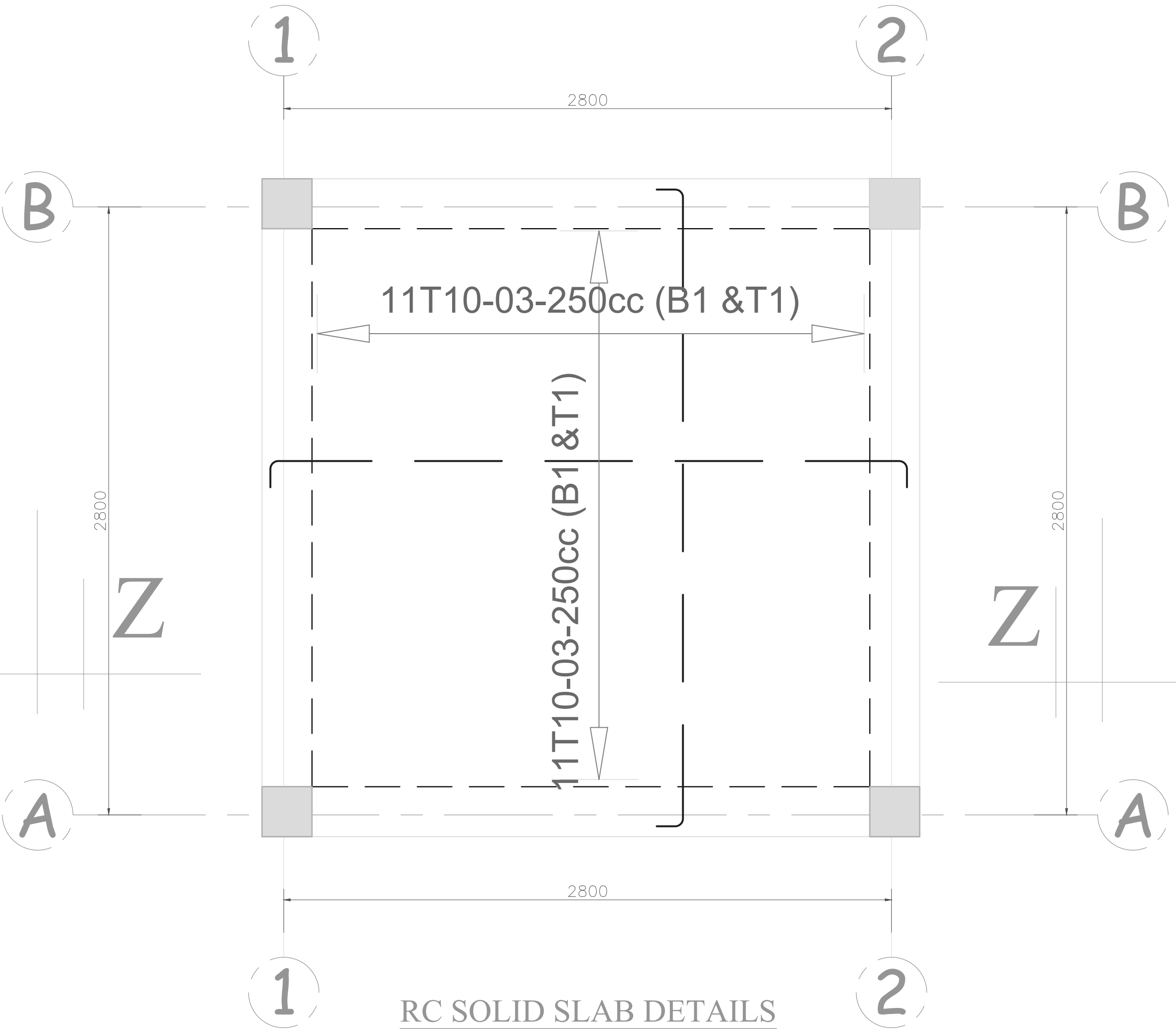


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**Project:**  
**COMMUNITY TAP STAND STANDARD DESIGN FOR BUTALEJA DISTRICT**

**Drawing Title:**  
**Reservoir/Intake**  
Intermediate Beam Layout & Details

<b>Scale:</b>	<b>Designed:</b>	
AS SHOWN	<b>Drawn:</b>	PLA
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February/2025	<b>Approved:</b>	JSK
Drg No: G BUT [- -]04		



RC SOLID SLAB DETAILS

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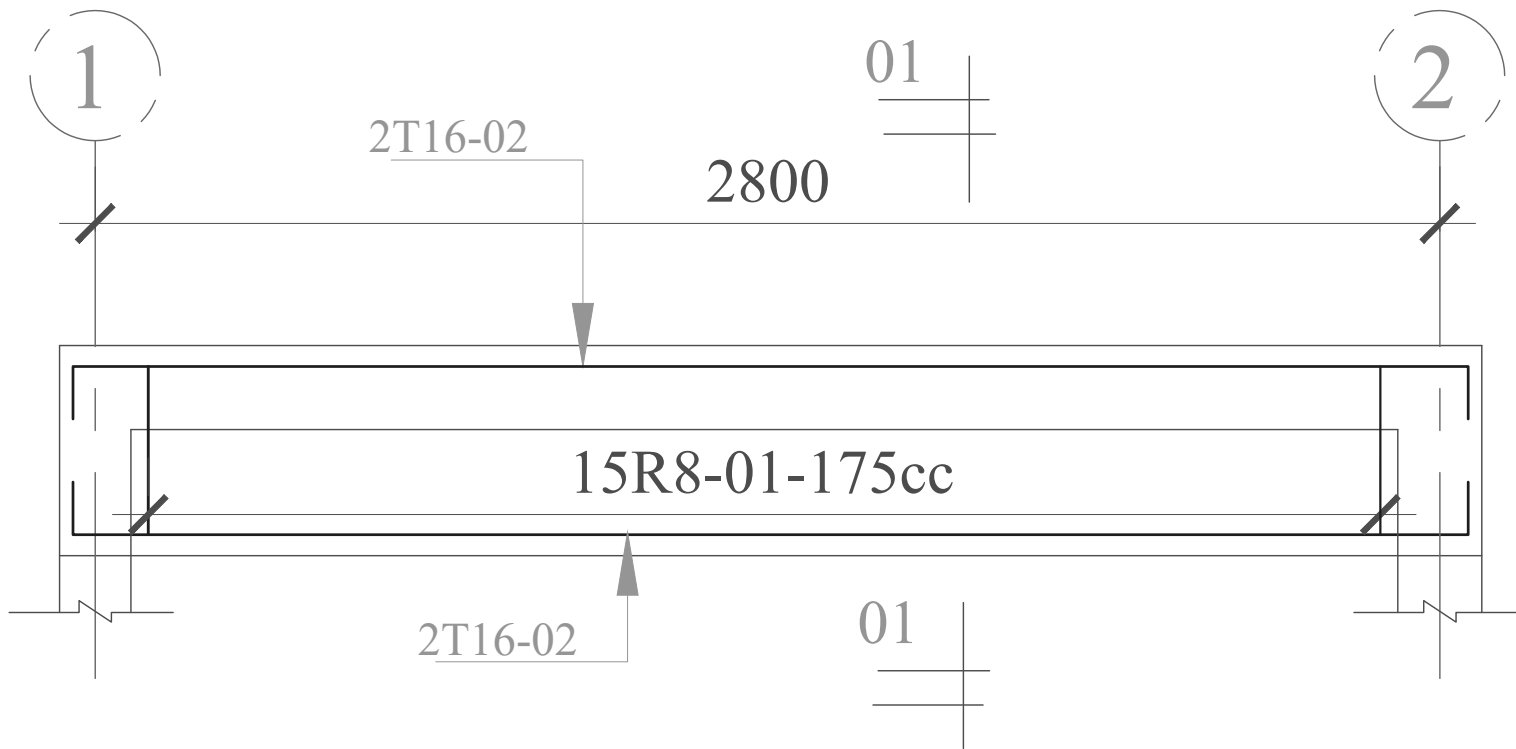
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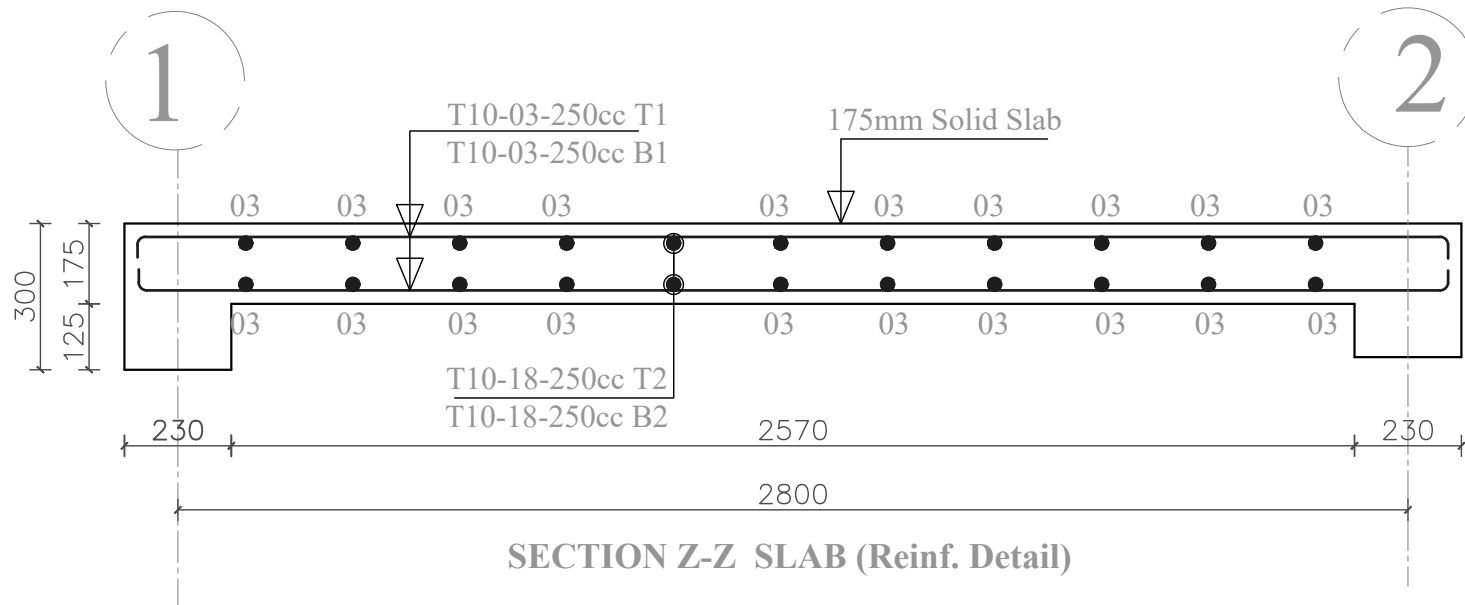
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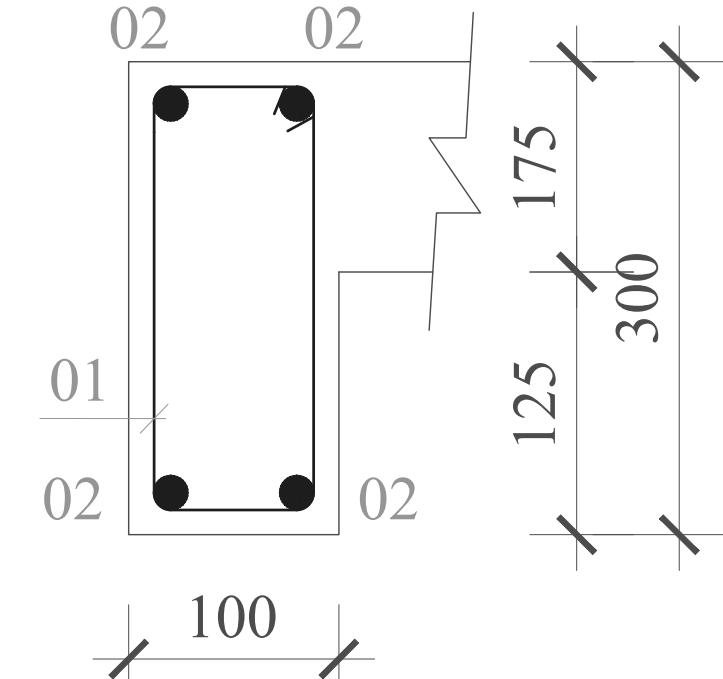




BEAM 01[230x300]



SECTION Z-Z SLAB (Reinf. Detail)



Section 01-01

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  - DEPTH OF FOUNDATION TRENCHES TO BE A MINIMUM OF 750MM BELOW REDUCED GROUND LEVEL.
  - ALL PIPES AND SERVICES TO BE AT A MINIMUM OF 450MM BELOW REDUCED GROUND LEVEL.

**Client:**

**GOAL**

GOAL-KAMPALA  
Procurement and Logistics Department  
Plot 1 Lubwobo close, Le Palm Building, Muyenga-Kampala  
P.O Box 38140 Uganda, Kampala  
Email: procurement@goal.ug

**Project:**  
**COMMUNITY TAP STAND STANDARD DESIGN  
FOR BUTALEJA DISTRICT**

**Drawing Title:**  
**Reservoir/Intake**  
Beam & Slab Section Details

<b>Scale:</b>	<b>Designed:</b>	
AS SHOWN	<b>Drawn:</b>	PLA
<b>Date:</b>	<b>Checked:</b>	Infrastructure Team
February/2025	<b>Approved:</b>	JSK
Drg No: GBUT [- -]06		





**GENERAL NOTES:**

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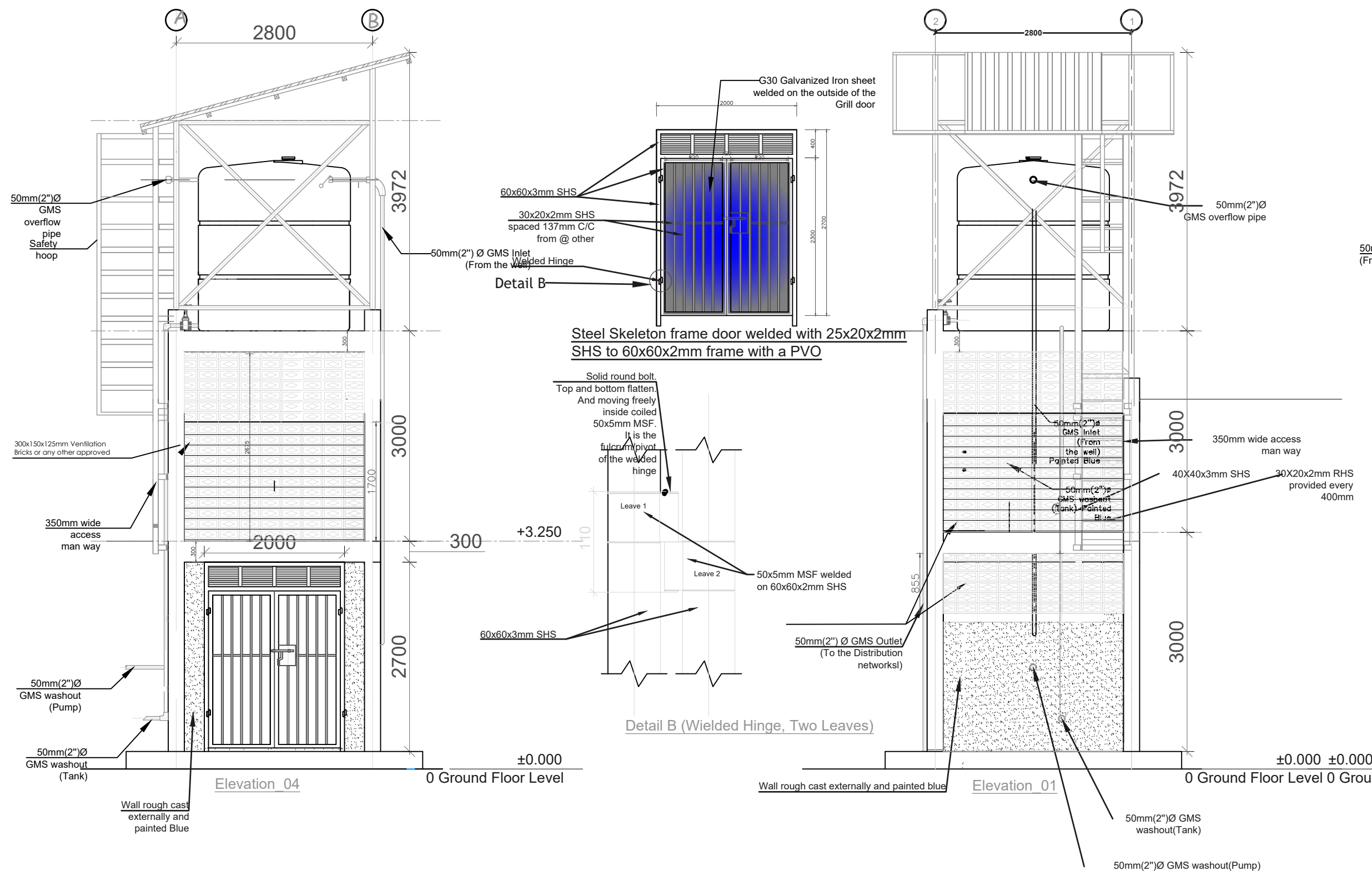
# GOAL

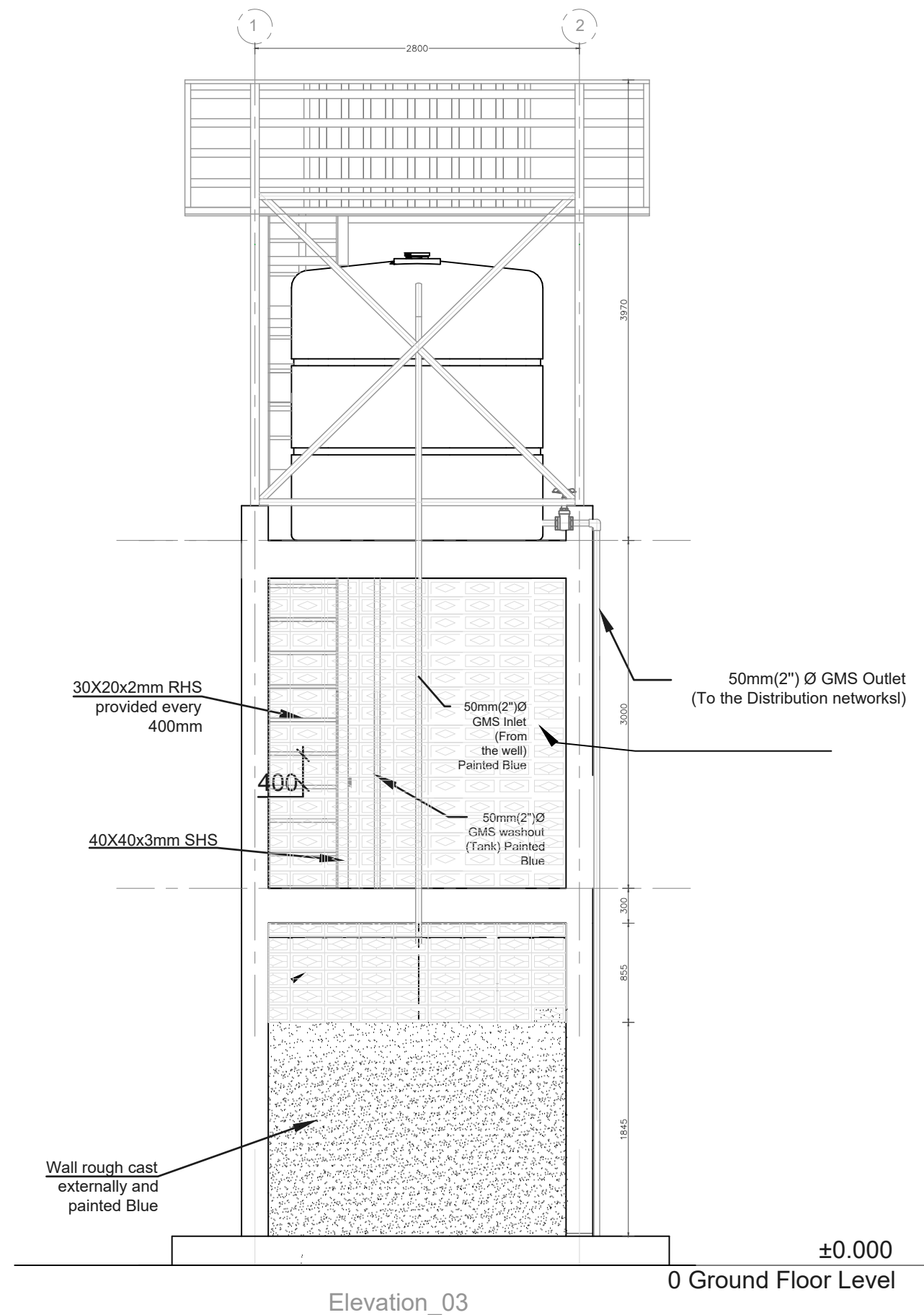
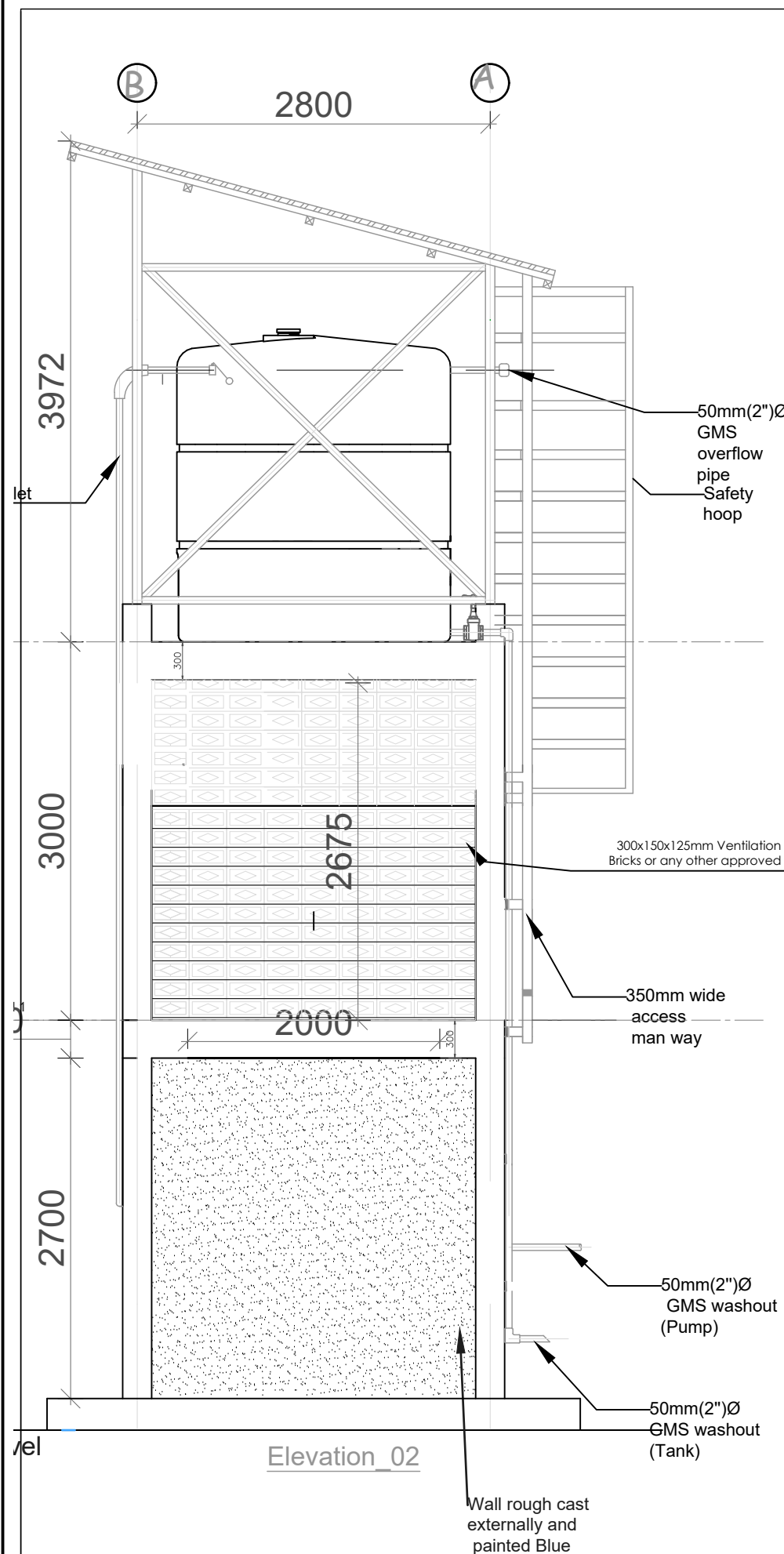
**Project:**  
**COMMUNITY TAP STAND STANDARD DESIGN**  
**FOR BUTALEJA DISTRICT**

**Drawing Title:**  
**Reservoir/Intake**  
RCT Elevations

<b>Scale:</b>	<b>Designed:</b>	
AS SHOWN	<b>Drawn:</b>	PLA
<b>Date:</b>	<b>Checked:</b>	Infrastructure Team
February/2025	<b>Approved:</b>	JSK

Drg No: RCT-GBUT [- -]01 &amp; 04





AMENDMENTS		
No	Date	Revision

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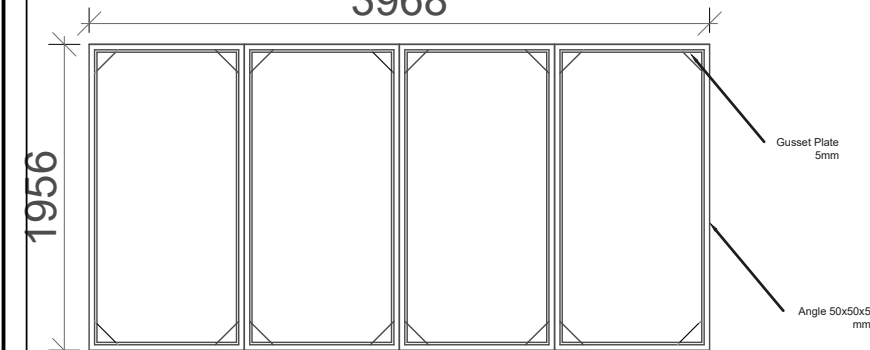
**Project:**  
**COMMUNITY TAP STAND STANDARD DESIGN  
FOR BUTALEJA DISTRICT**

**Drawing Title:**  
**Reservoir/Intake**  
RCT Elevations

<b>Scale:</b>	<b>Designed:</b>	
AS SHOWN	<b>Drawn:</b>	PLA
<b>Date:</b>	<b>Checked:</b>	Infrastructure Team
February/2025	<b>Approved:</b>	JSK

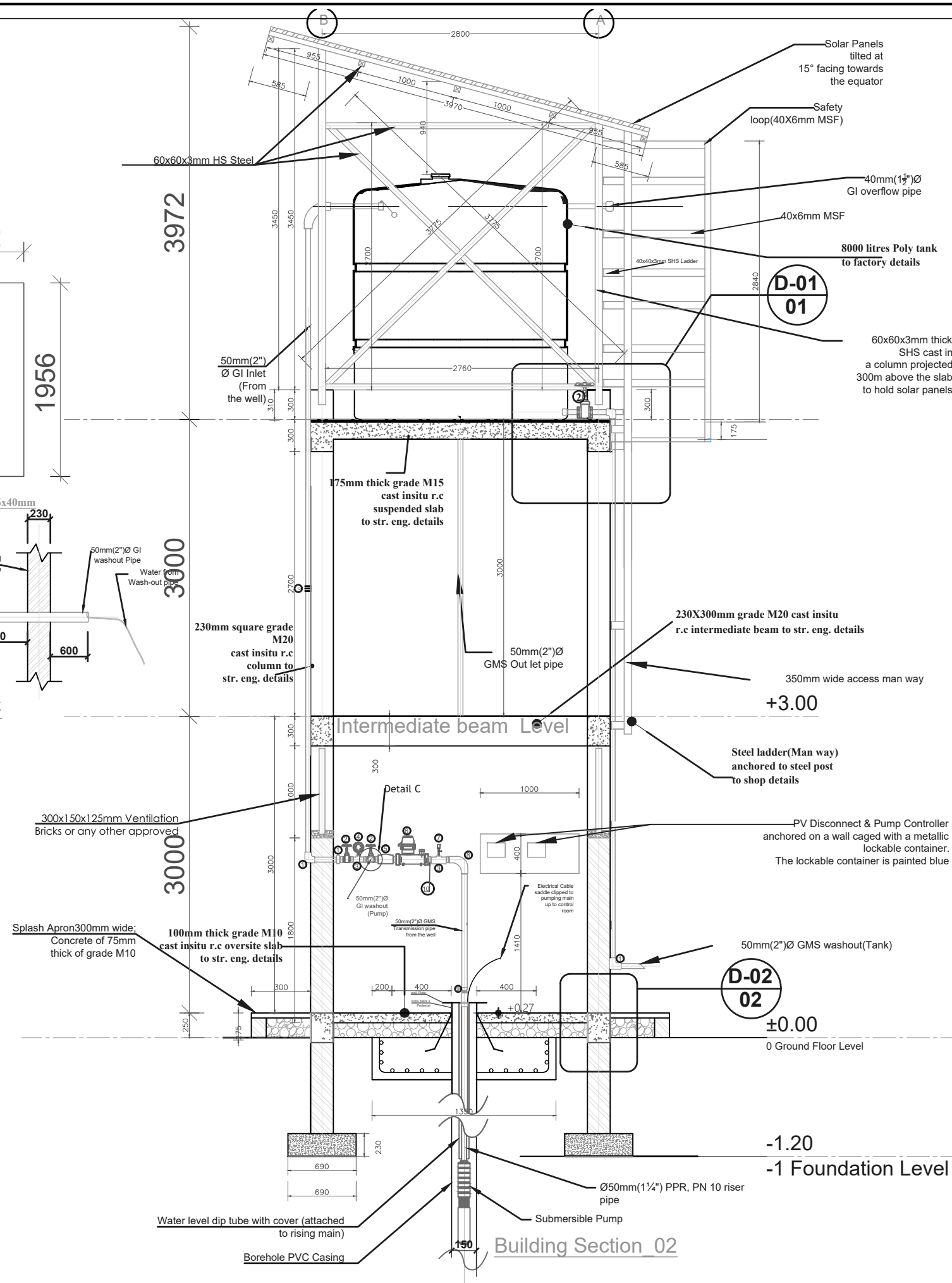
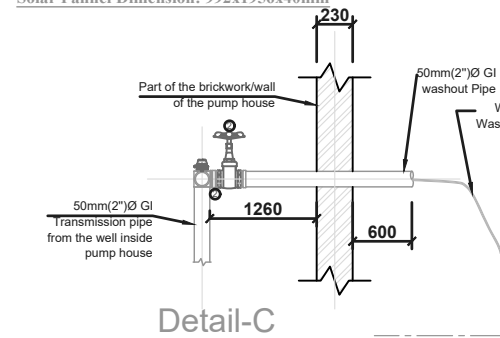
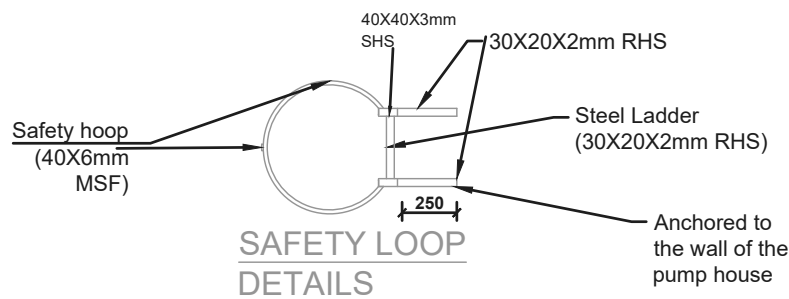
Drg No: RCT-GBUT [- -]02 & 03

- 1.The solar panels shall be sloped at 15degrees.
- 2.The solar panels shall face towards the equator
- 3.All steel to steel connections shall be welded all round unless indicated for bolted connections



Solar Pannel Dimension: 992x1956x40mm

- 1). 1N0. ND50mm(2") GMS Socket Union**
- 2). 3N0. ND50mm(2") Socket Brass Gate Valve**
- 3). 2N0. ND50x50x25mm(2x2x1") GMS Reducing Tee for Pressure Gauge & Air valve,**
- 2N0. ND50X50X50mm(2x2x2") GMS Equal Tee**
- 4). 1N0. ND25mm(1") Pressure Gauge**
- 5). 1N0. ND50mm(2") Non Return Valve**
- 6). 1N0. ND50(2") Bulk meter**
- 7). 1N0. ND25mm(1") Air Valve**
- 8). 1N0. ND50mm(2") GMS Double socket long radius bend**
- 9). 1N0. ND50X40mm(2x1 ½") GMS Reducing Socket**
- 10).6N0. ND50mm(2") GMS Nipple, 1N0.D40mm(1 ½") GMS Nipple, 2N0. ND25mm(1") GMS Nipple**
- 11).2N0. ND50mm(2") GMS Elbow**
- 12).3N0. nd 50mm(2") GMS Socket**



No	Date	Revision

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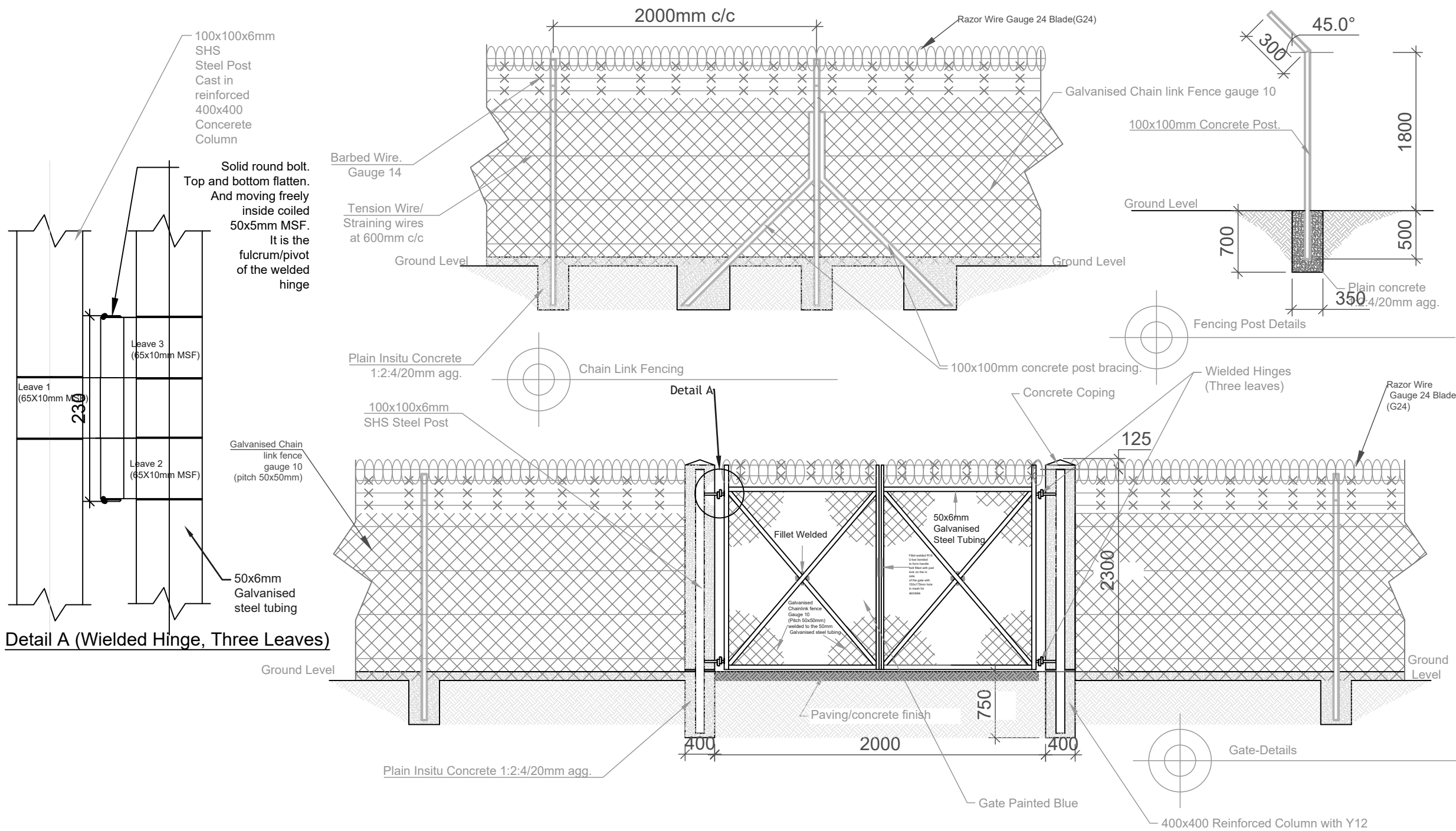
GOAL

**Drawing Title:**  
**Reservoir/Intake**  
RCT Section, Safety Loop details, & Solar array details

<b>Scale:</b>	<b>Designed:</b>	
AS SHOWN	<b>Drawn:</b>	PLA
<b>Date:</b>	<b>Checked:</b>	Infrastructure Team
February/2025	<b>Approved:</b>	JSK

Drg No: RCT-GBUT [- -] 10





AMENDMENTS		
No	Date	Revision

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**GOAL-KAMPALA**  
Procurement and Logistics Department  
Plot 1 Luboko Close, Le Palm Building, Muyenga-Kampala  
P.O Box 38148 Uganda, Kampala  
Email: procurement@goal.org

**Project:**  
**COMMUNITY TAP STAND STANDARD DESIGN  
FOR BUTALEJA DISTRICT**

**Drawing Title:**  
**Intake & Reservoir**  
Chainlink Fence Details

<b>Scale:</b>	<b>Designed:</b>	
AS SHOWN	<b>Drawn:</b>	PLA
<b>Date:</b>	<b>Checked:</b>	Infrastructure Team
February/2025	<b>Approved:</b>	JSK

Drg No: G BUT [- -]11

50mm thick Manhole cover & wall  
reinforced with wire Mesh G12  
in conc. mix 1:2:4

15mm plaster smooth  
finish

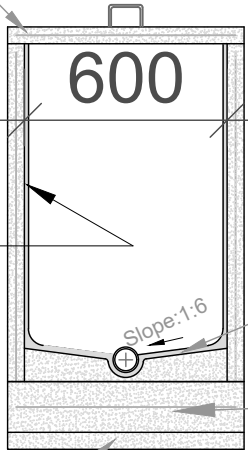
SECTION THROUGH Y-Y

50mm  
sand  
blinding

800

600

MANHOLE DETAILS FOR  
WASH-OUT DRAINAGE TO  
SOAKPIT



Dead storage water  
from Reservoir

Ø63mm Wash-out pipe

Benching

Ø75mm channel

Benching

Ø75mm PVC drain-pipe

To the soak pit

1:3 cement/sand mortar benching to a  
smooth finished

150mm concrete base(1:2:4 mix) reinforced with  
wire mesh of G-12(Gauge-12)

1000

1000

SOAKPIT  
DETAILS/CROSS-SECTION

Selected fillings

Ø75mm PVC drain  
pipe to soak pit

AMENDMENTS		
No	Date	Revision

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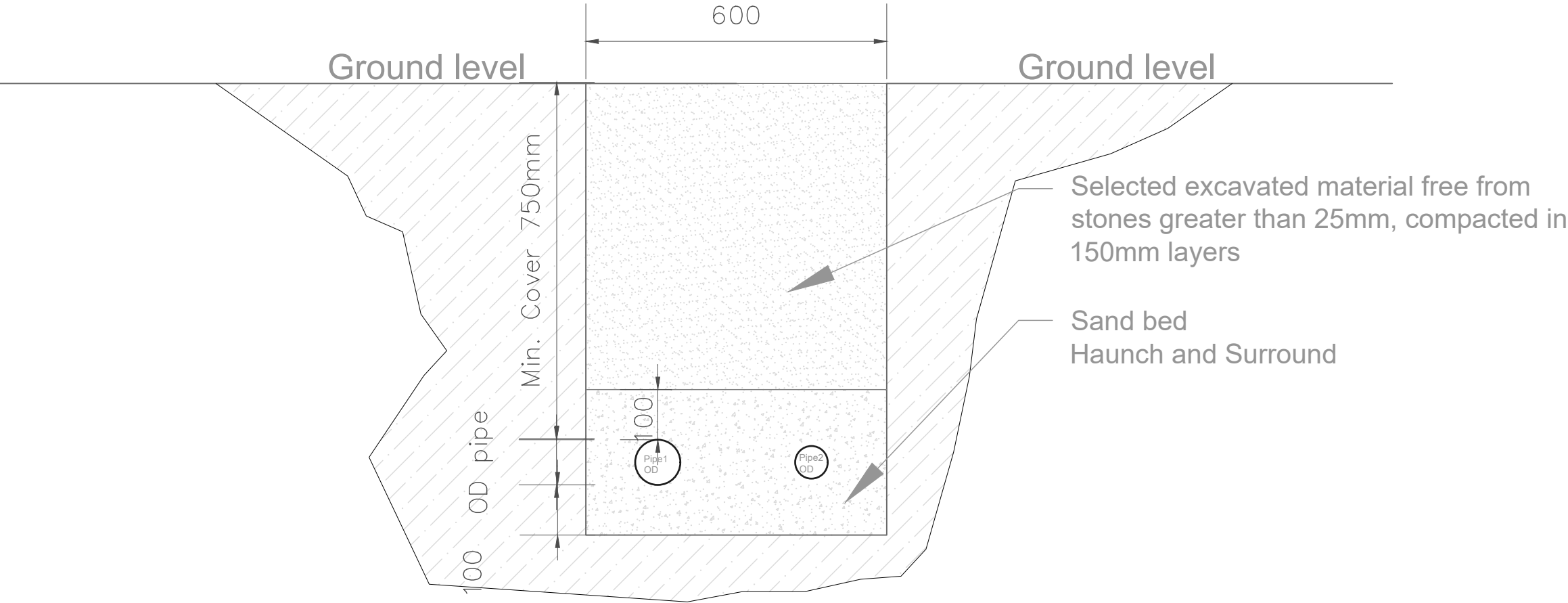
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**COMMUNITY TAP STAND STANDARD DESIGN  
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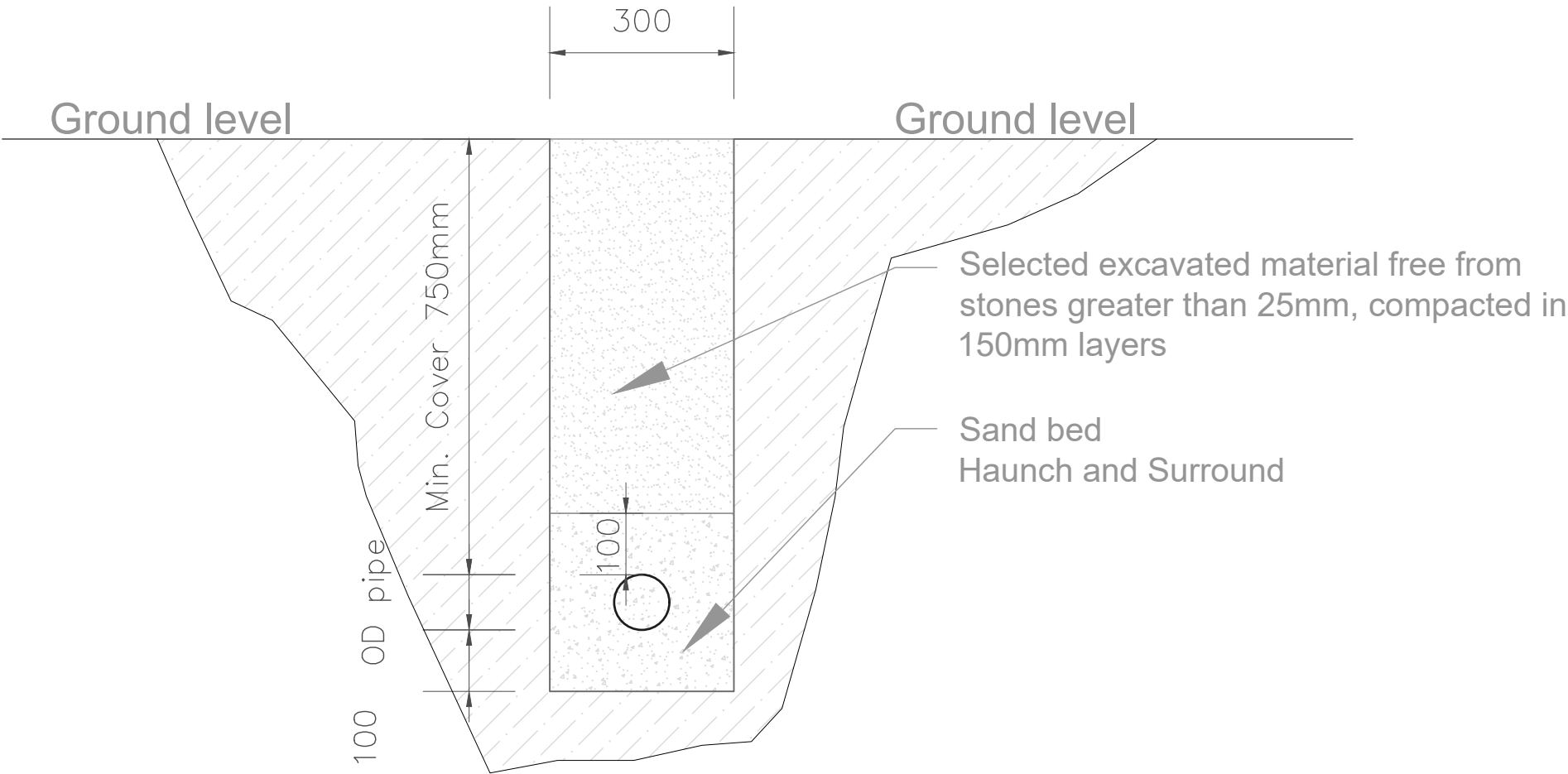
**Drawing Title:**  
**Transmission & Distribution**  
Manhole Details

Scale:	Designed:	
AS SHOWN	Drawn:	PLA
Date:	Checked:	Infrastructure Team
February/2025	Approved:	JSK

Drg No: GBUT [- -]12



TWIN PIPE BEDDING DETAIL-B




SINGLE PIPE BEDDING DETAIL-A

AMENDMENTS		
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  - SAMPLES OF FITTINGS, MATERIALS ETC. TO BE PRODUCED & APPROVED BEFORE COMMENCING WORK.
  - ALL WINDOWS TO HAVE P.C. CILLS, BUILT IN REINFORCED CONCRETE PELMET BOXES & TIMBER INTERNAL WINDOW CILLS & SKIRTINGS.
  - FIRE FIGHTING EQUIPMENT TO BE PROVIDED AND INSTALLED BY BUILDING FIRE CONSULTANTS WHERE SHOWN ON PLAN.
  - THE ENGINEER SHALL NOT ACCEPT ANY LIABILITY FOR WORKS WHICH HE HAS NOT BEEN EXPRESSLY INSTRUCTED TO SUPERVISE IN WRITING AND HAS ACCEPTED TO PROCEED IN WRITING, OR FOR ANY OMISSIONS OR DEVIATIONS FROM HIS DRAWINGS/TECHNICAL SPECIFICATIONS. NOR SHALL HE TAKE RESPONSIBILITY FOR WORKS HANDLED BY OTHER NOMINATED CONSULTANTS OR CONTRACTORS
  - D.P.C DENOTES ONE LAYER OF BITUMINOUS FELT TO BE PROVIDED UNDER ALL WALLS AT LEAST 150MM ABOVE GROUND LEVEL.
  - CONTRACTORS MUST VERIFY ALL DIMENSIONS AND LEVELS ON SITE BEFORE COMMENCEMENT OF WORKS. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER/CONSULTANT BEFORE ANY WORKS EXECUTION
  - ALL LEVELS SHOWN AT FINISHED LEVELS UNLESS OTHERWISE STATED.
  - ALL SURFACE BEDS TO BE CAST ON WELL-COMPACTED & WELL-CONSOLIDATED MURRUM OR SAND INFILL WHERE APPLICABLY STATED.
  - ALL CONSTRUCTION WORKS TO COMPLY WITH THE LATEST B.S STANDARD CODES OF PRACTICE, LOCAL AUTHORITY BYLAWS AND FIRE REGULATIONS.
  - DEPTH OF FOUNDATION TRENCHES TO BE A MINIMUM OF 750MM BELOW REDUCED GROUND LEVEL.
  - ALL PIPES AND SERVICES TO BE AT A MINIMUM OF 450MM BELOW REDUCED GROUND LEVEL.

**Client:**



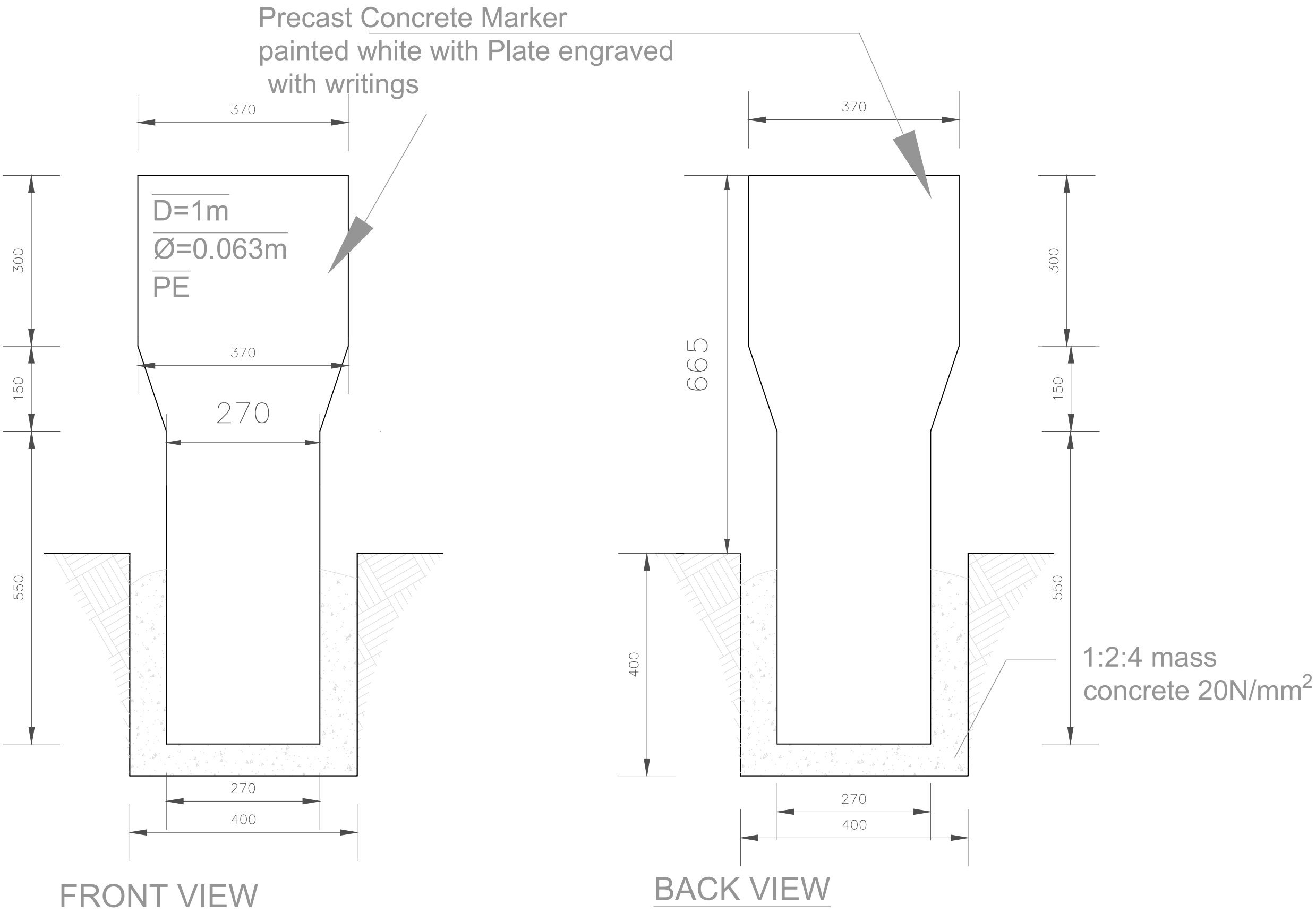
**GOAL-KAMPALA**  
Procurement and Logistics Department  
Plot 1 Lubuto close, Le Palm Building, Muyenga-Kampala  
P.O Box 38140 Uganda, Kampala  
Email: procurement@goal.co.ug

**Project:**  
**COMMUNITY TAP STAND STANDARD DESIGN FOR BUTALEJA DISTRICT**

**Drawing Title:**  
**Transmission & Distribution**  
Trench & Pipe Bedding details

<b>Scale:</b>	<b>Designed:</b>	
AS SHOWN	<b>Drawn:</b>	PLA
<b>Date:</b>	<b>Checked:</b>	Infrastructure Team
February/2025	<b>Approved:</b>	JSK
Drg No: GBUT [- -]13		





MARKER POST ELEVATION

AMENDMENTS		
No	Date	Revision

- GENERAL NOTES;**
- ALL DIMENSIONS TO BE CHECKED ON SITE, WRITTEN DIMENSIONS TO BE FOLLOWED IN PREFERENCE TO SCALED DIMENSIONS.
  - ALL WALLS LESS THAN 200MM THICK TO BE REINFORCED WITH HOOP IRON AT EVERY ALTERNATE COURSE.
  - ALL REINFORCED CONCRETE WORK IS TO BE IN ACCORDANCE WITH STRUCTURAL ENGINEER'S DETAILS.
  - ALL SANITARY WORK TO BE IN ACCORDANCE WITH M.O.H RULES AND REGULATIONS.
  - WHERE DRAIN PASSES UNDER BUILDING OR DRIVEWAY AREA, PIPE TO BE OF CAST IRON OR ENCASED IN 150MM CONCRETE.
  - ALL WASTE PIPES AND SOIL PIPES ARE TO BE IN DUCTS AND THE BENDS TO HAVE ALL CLEANING EYES ACCESSIBLE FROM OUTSIDE.
  - ALL WINDOWS AND EXTERNAL GLAZED DOORS ON GROUND FLOOR TO HAVE BURGLAR PROOFING TO DETAILS.
  - ALL INTERNAL PLASTER TO BE TWO COATS STEEL FLOAT FINISHED.
  - ALL MANHOLES WITHIN BUILDING AREA, DRIVEWAY AND PARKING TO HAVE HEAVY DUTY AIR TIGHT COVERS AND DOUBLE SEALED.
  - PROVIDE G.I. 125 x 100 RAINWATER DOWN PIPES AND 125 x 100 G.I.BOX GUTTER WITH BRACKETS ETC. WHERE SHOWN.
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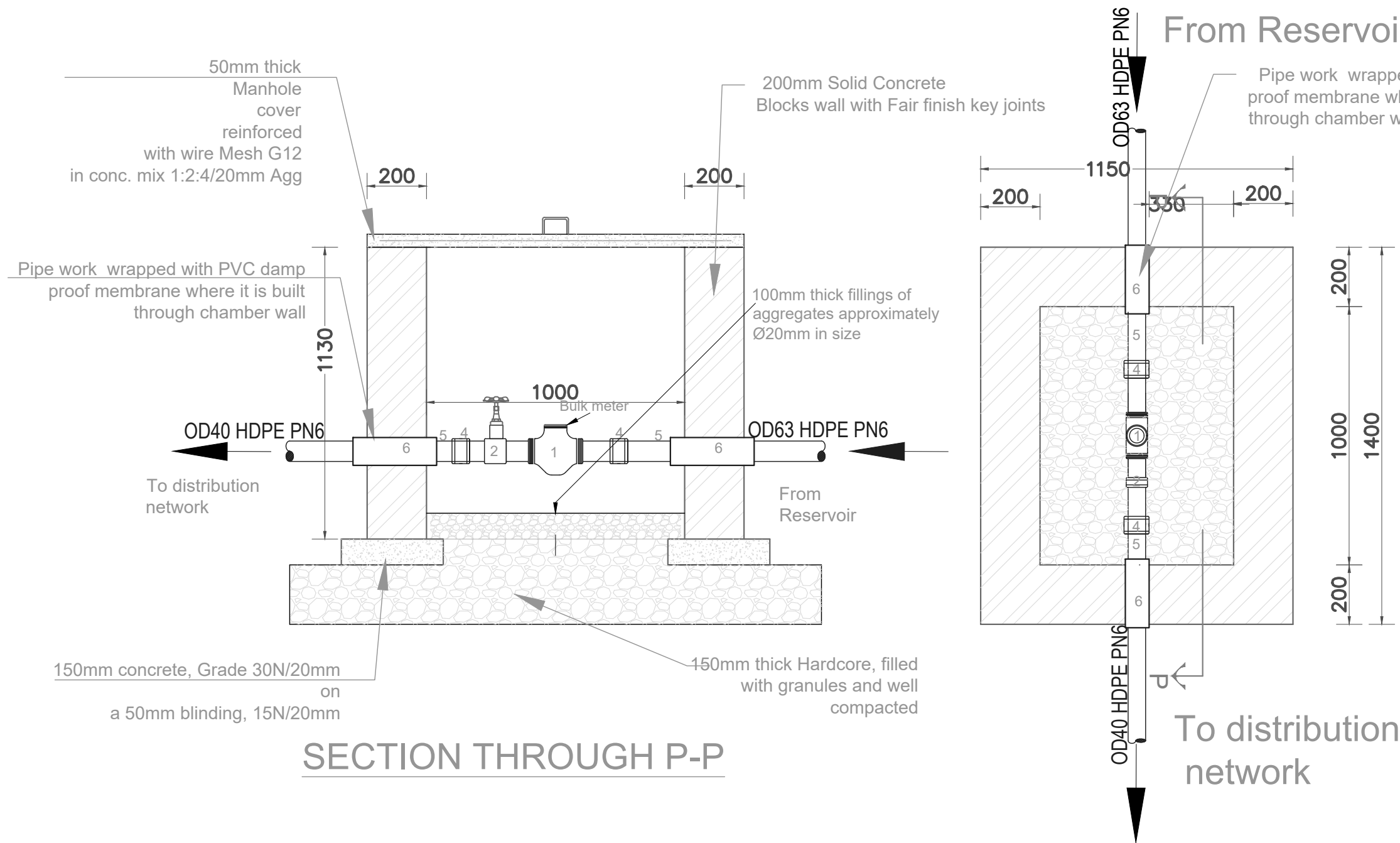
GOAL-KAMPALA  
Procurement and Logistics Department  
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Email: procurement@goal.ug

**Project:**  
**COMMUNITY TAP STAND STANDARD DESIGN  
FOR BUTALEJA DISTRICT**

**Drawing Title:**  
**Transmission & Distribution**  
Marker Post details

Scale:	Designed:	
AS SHOWN	Drawn:	PLA
Date:	Checked:	Infrastructure Team
February/2025	Approved:	JSK

Drg No: GBUT [- -]14



MANHOLE DETAILS FOR BULK-METER AT RESERVOIR OUTLET TO DISTRIBUTION NETWORK

## LEGEND

- 1- Flanged Bulk meter-ND75mm
- 2-Flanged Gate Valve- ND75mm

AMENDMENTS		
No	Date	Revision

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### Project:

COMMUNITY TAP STAND STANDARD DESIGN  
FOR BUTALEJA DISTRICT

### Drawing Title:

Transmission & Distribution

Bulk Meter

Scale:	Designed:	
AS SHOWN	Drawn:	PLA
Date:	Checked:	Infrastructure Team
February/2025	Approved:	JSK

Drg No: GBUT [- -]15