

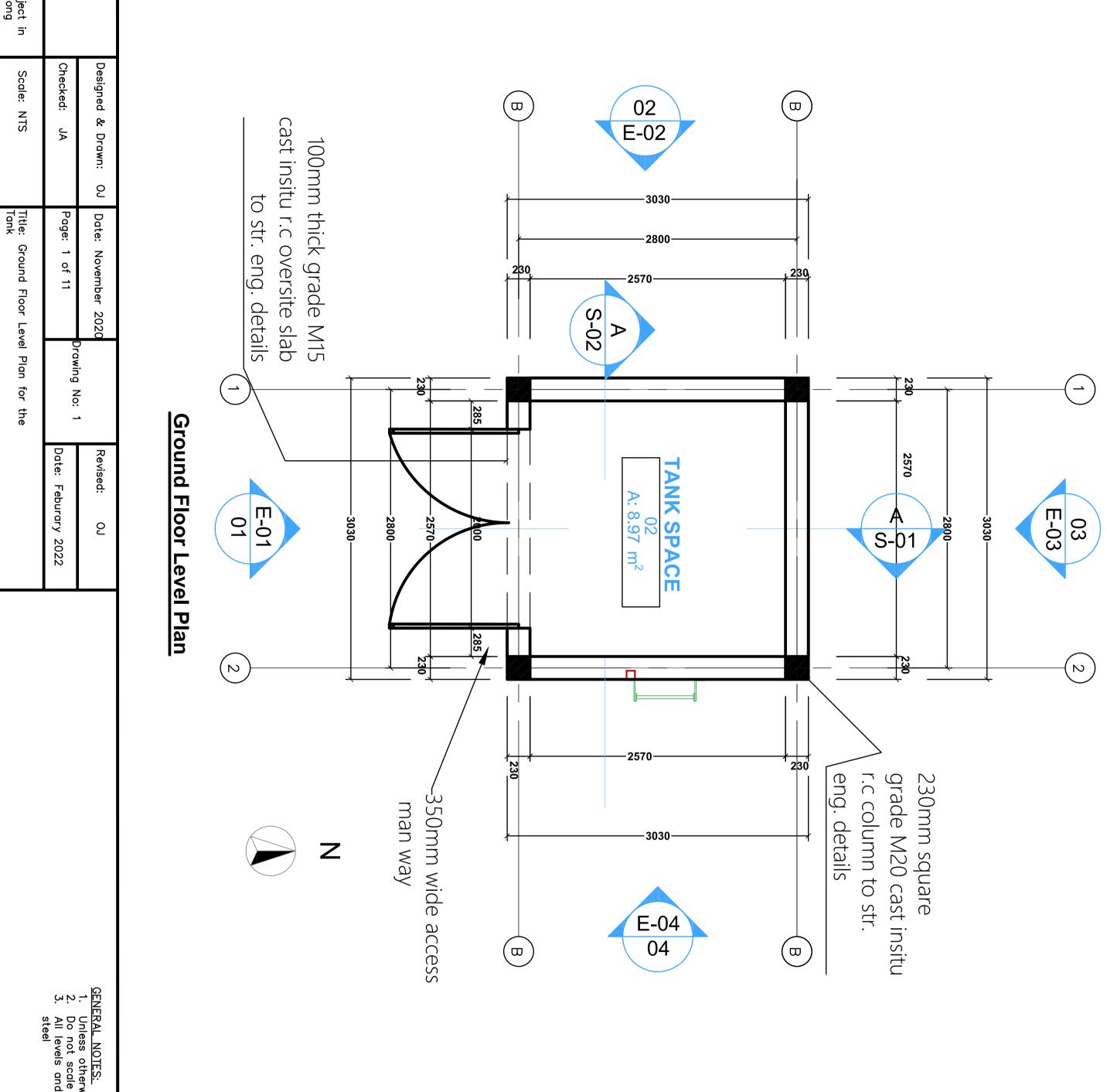
Design Drawings, PV and Pump Sizing Reports for Community Tapstands to be Constructed in Bugiri, Namayingo, Butaleja and Kaabong Districts (Eastern & North Eastern Uganda)

The following list of Design Drawings, PV and Pump Sizings are Appended:

1. Drawing 1:	Reservoir/Water Tank, Pump House ar	nd Solar Mounting Structure Details
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- 2. Drawing 2: Fencing Details
- 3. Drawing 3: Marker Post Details
- 4. Drawing 4: Trenching Details
- 5. Drawing 5: Meter Chamber Details
- 6. PV & Pump 6: Typical PV & Pump Sizing Details for Community Tapstand

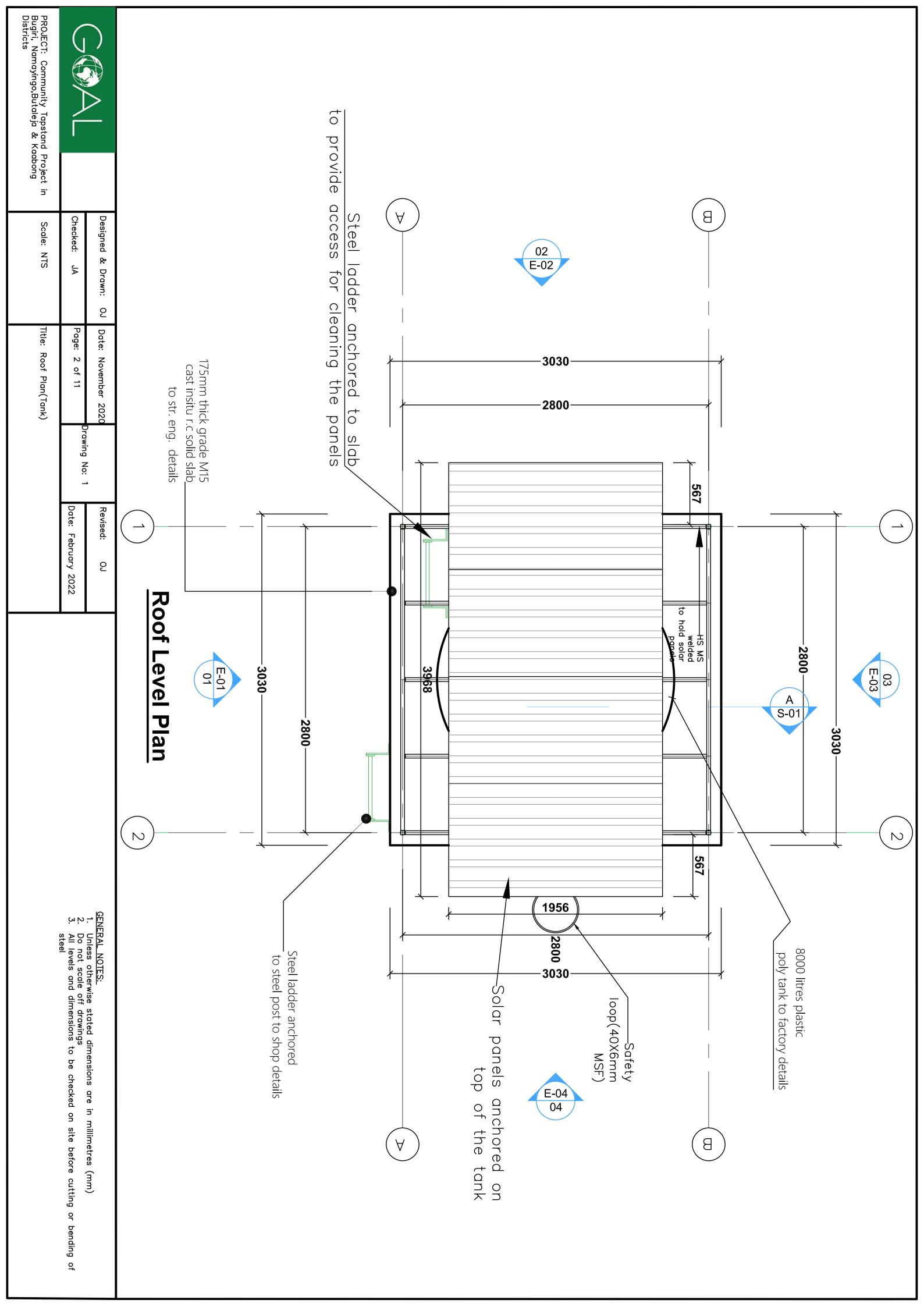
February 2022

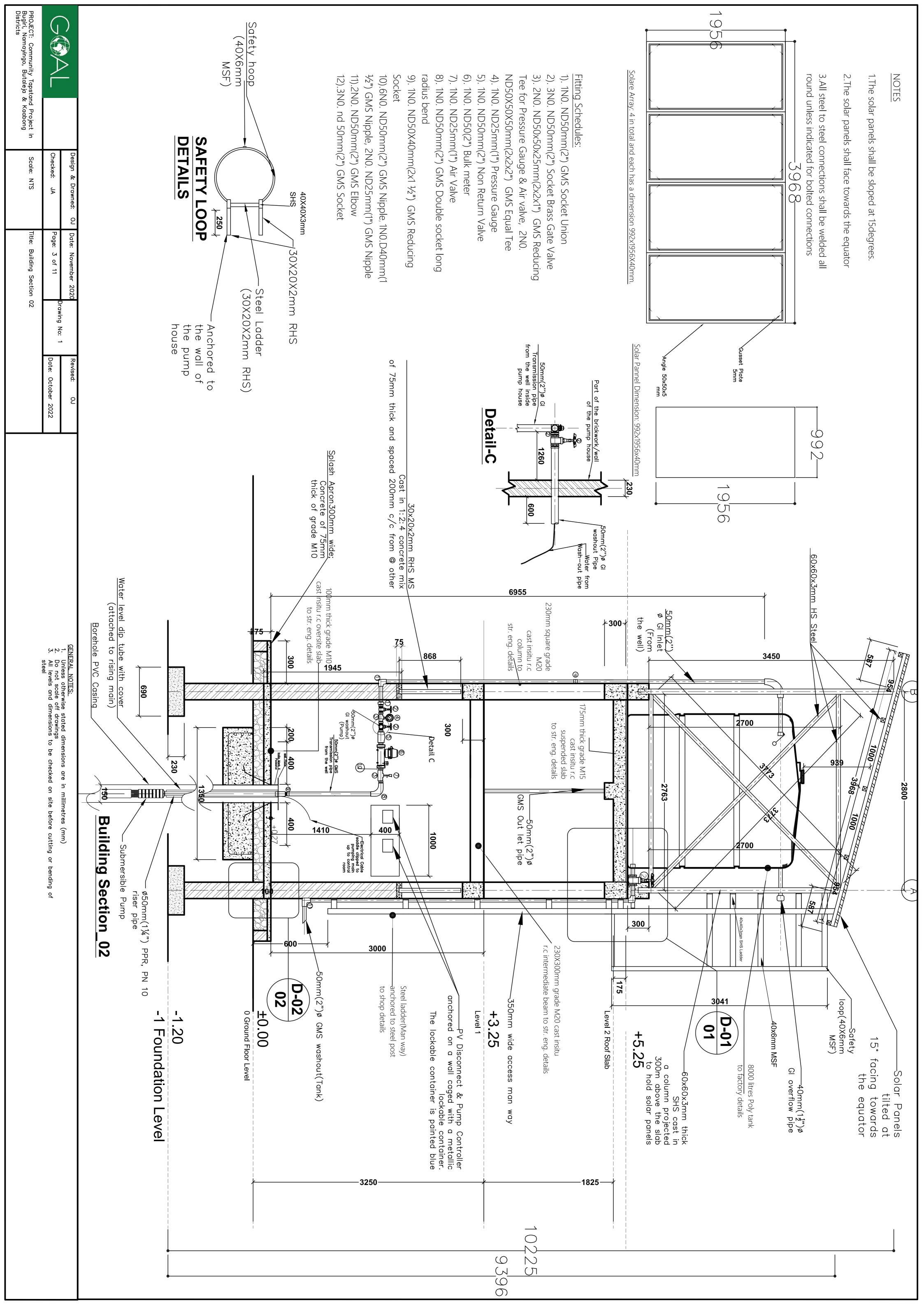


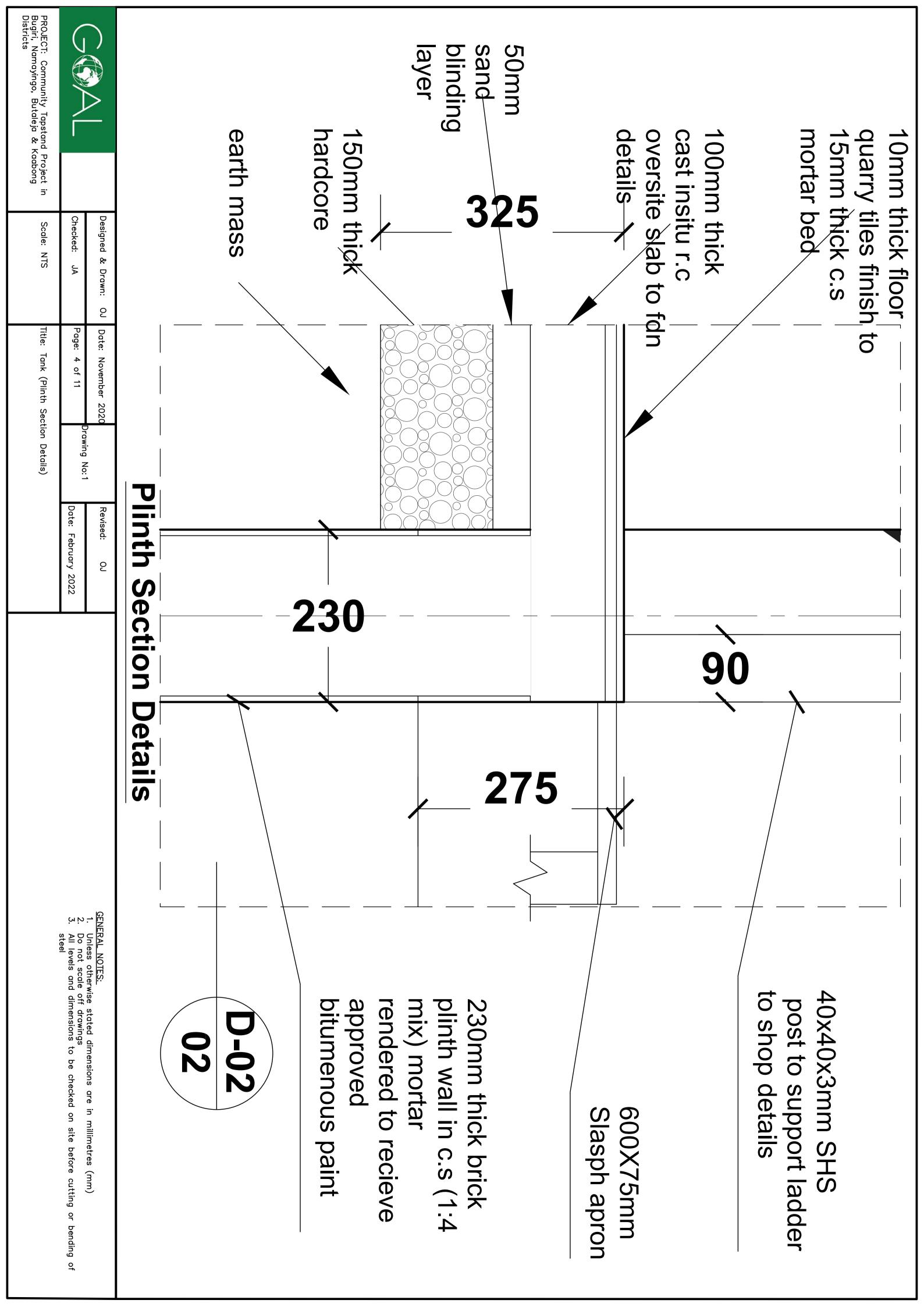
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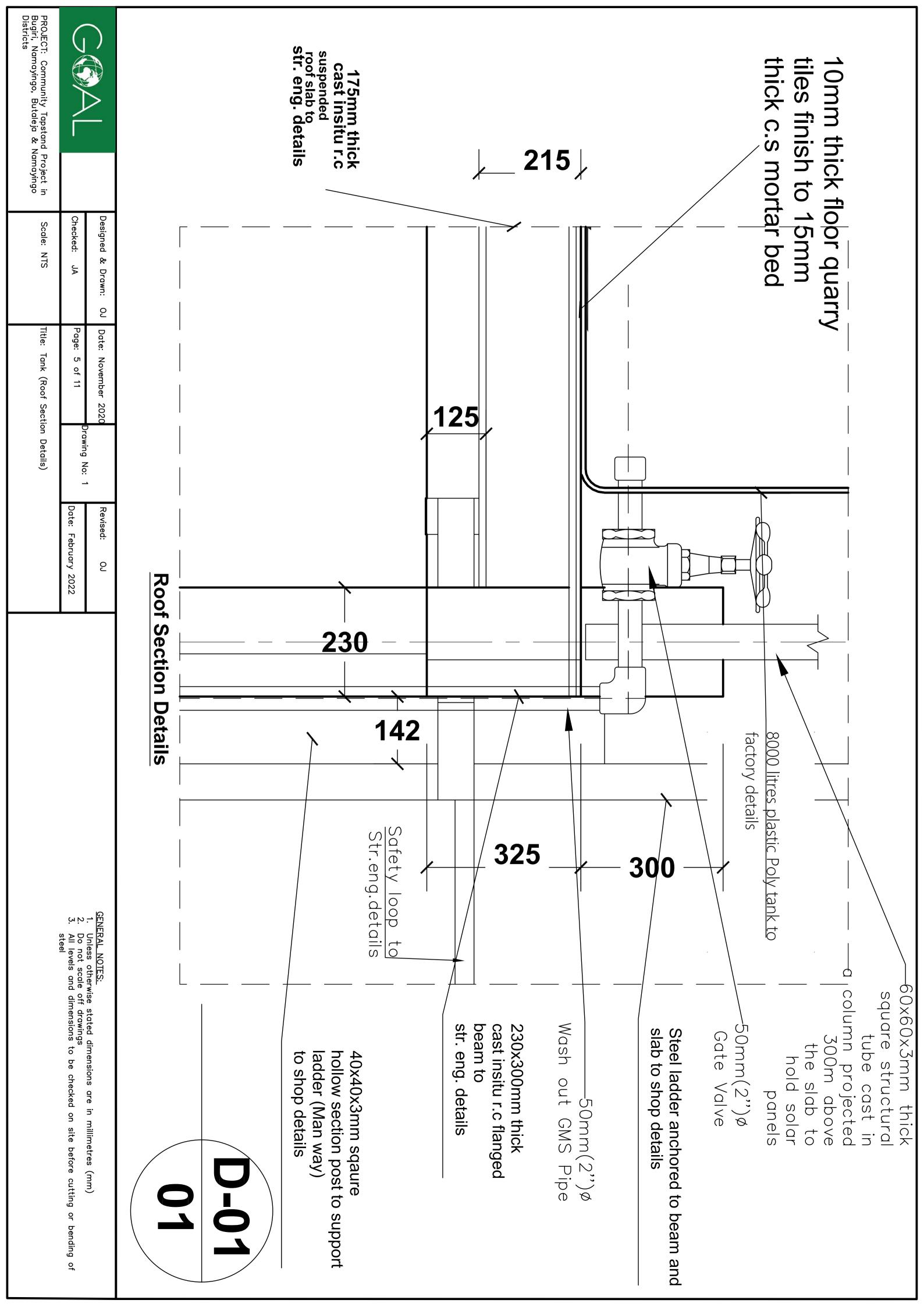
 1. Unless otherwise stated dimensions are in millimetres (mm)
 2. Do not scale off drawings
 3. All levels and dimensions to be checked on site before cutting or bending of steel

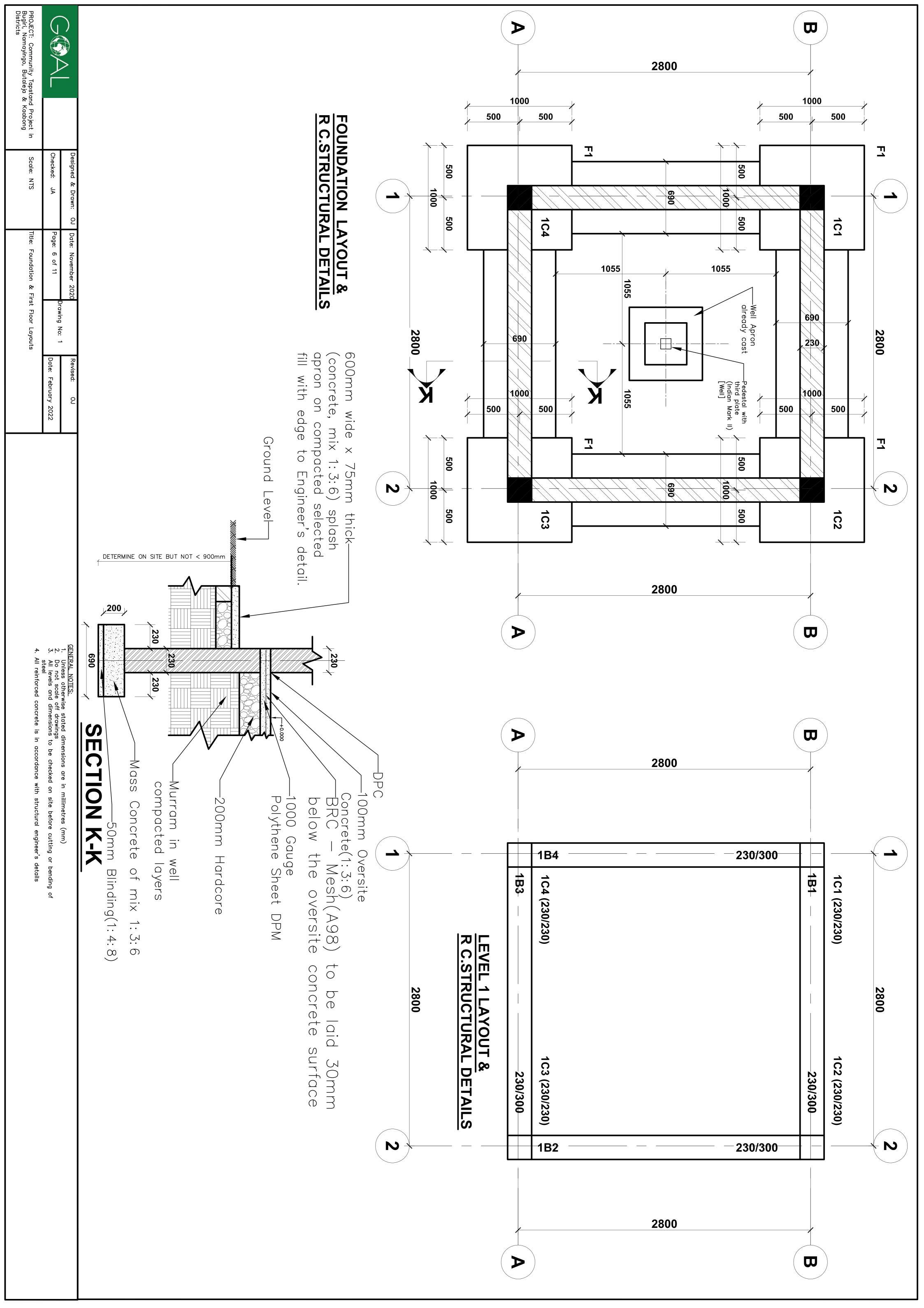
PROJECT: Community Tapstand Project in Bugiri, Namayingo, Butaleja & Kaabong Districts

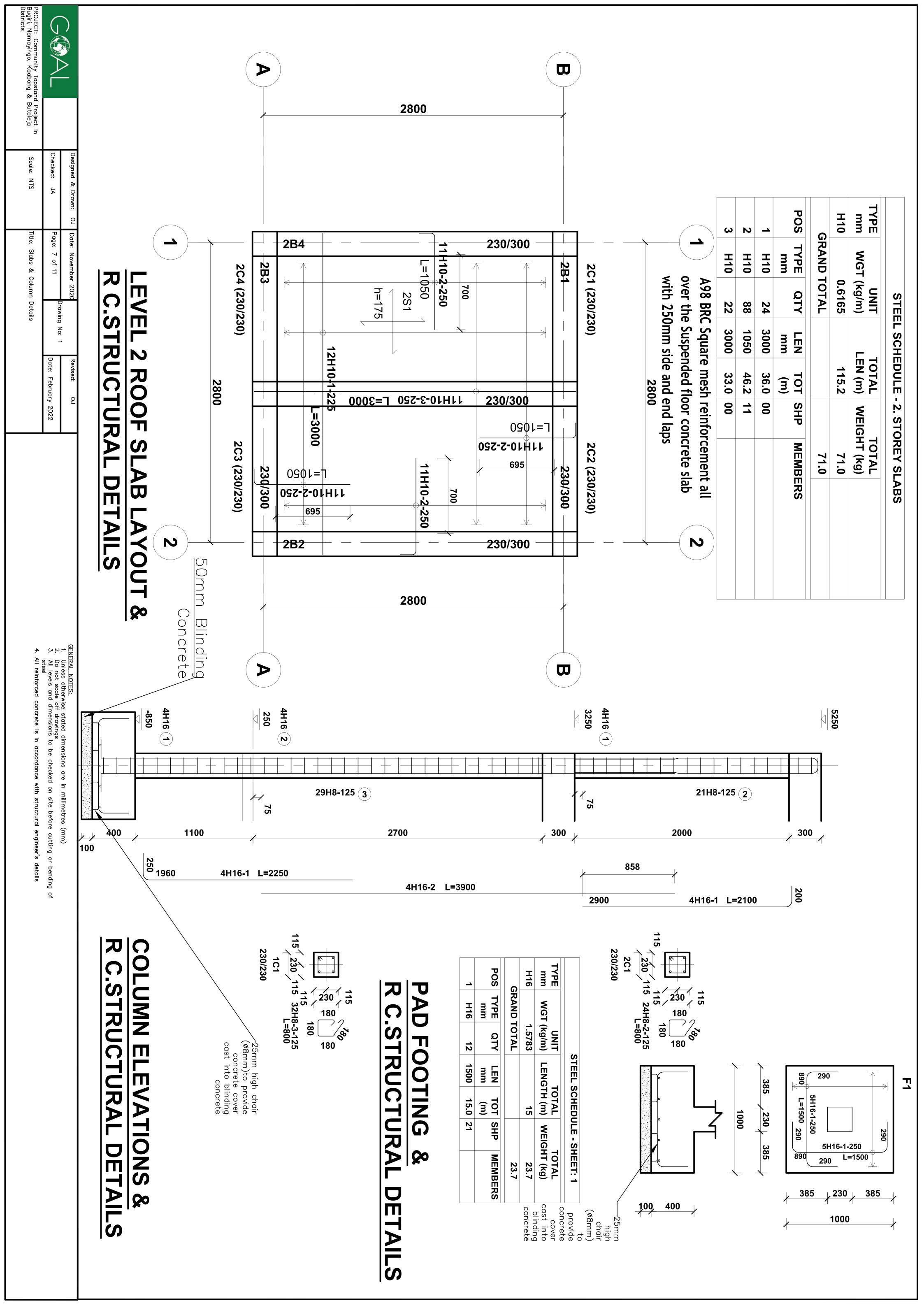


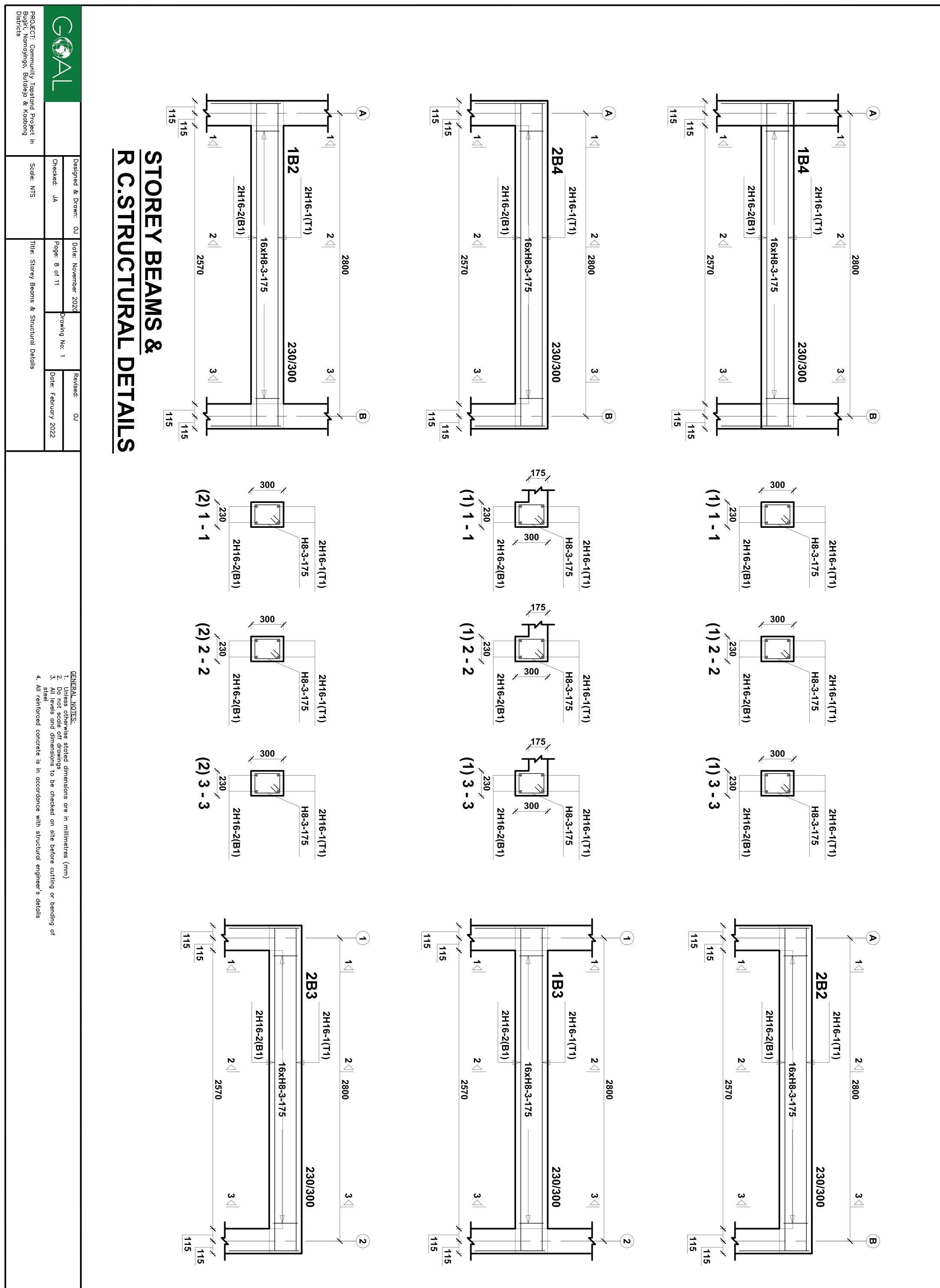


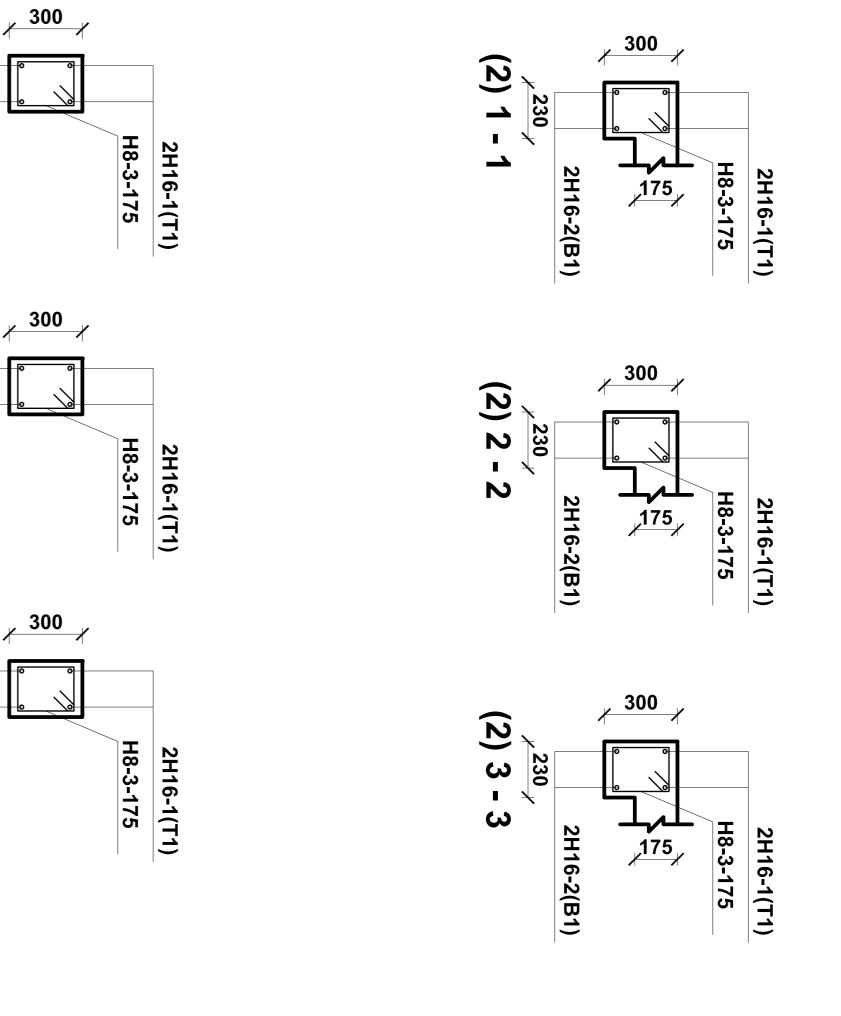












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(A) 2 - 2

(A) 3 - 3

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(B) 2 - 2

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2H16-1(T1) H8-3-175

2H16-1(T1)

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H8-3-175

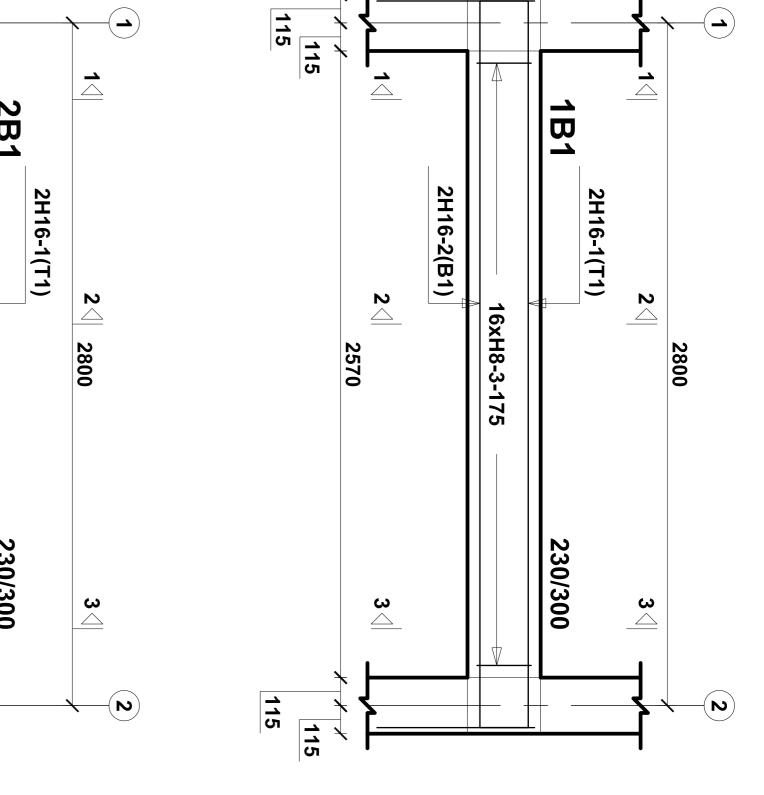
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H8-3-175

2H16-2(B1)

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2H16-2(B1)

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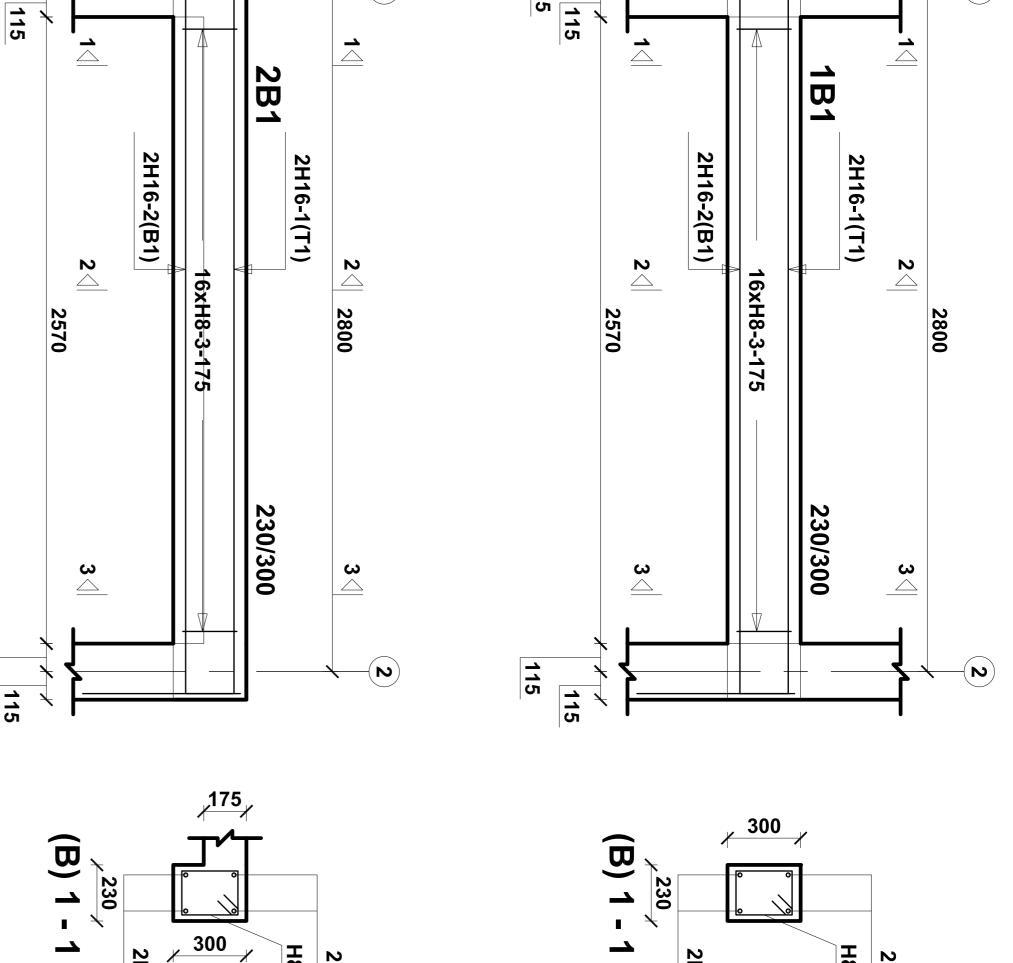
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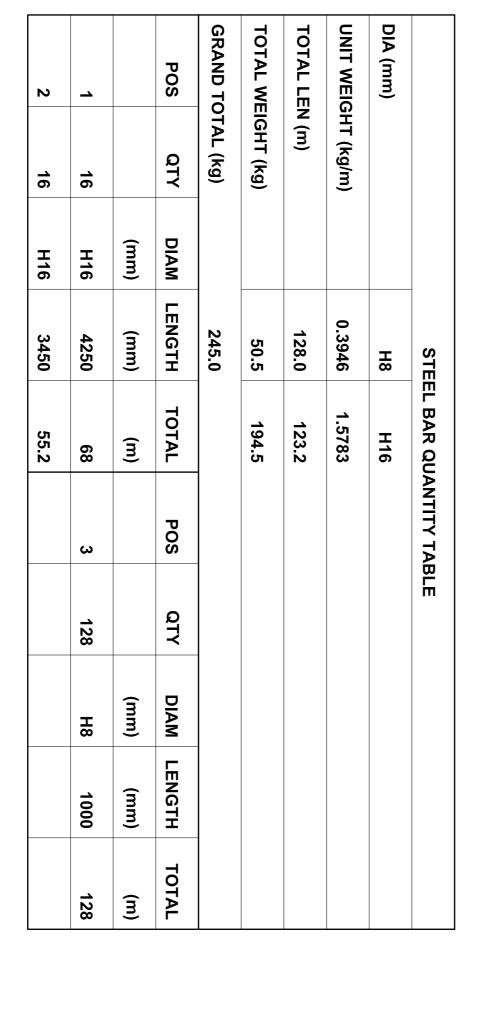
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2H16-1(T1)

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2H16-2(B1)

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<u> </u>	Storey Beams & Structural Details_	Title: Storey Beams &	NTS	Scale: NTS	PROJECT: Community Tapstand Project in Bugiri, Namayingo, Butaleja & Kaabong Districts
Date: February 2022	orawing No:	Page: 9 of 11	d: JA	Checked: JA	
Revised: OJ		Date: November 2020	Designed & Drawn: OJ Date:	Designe	

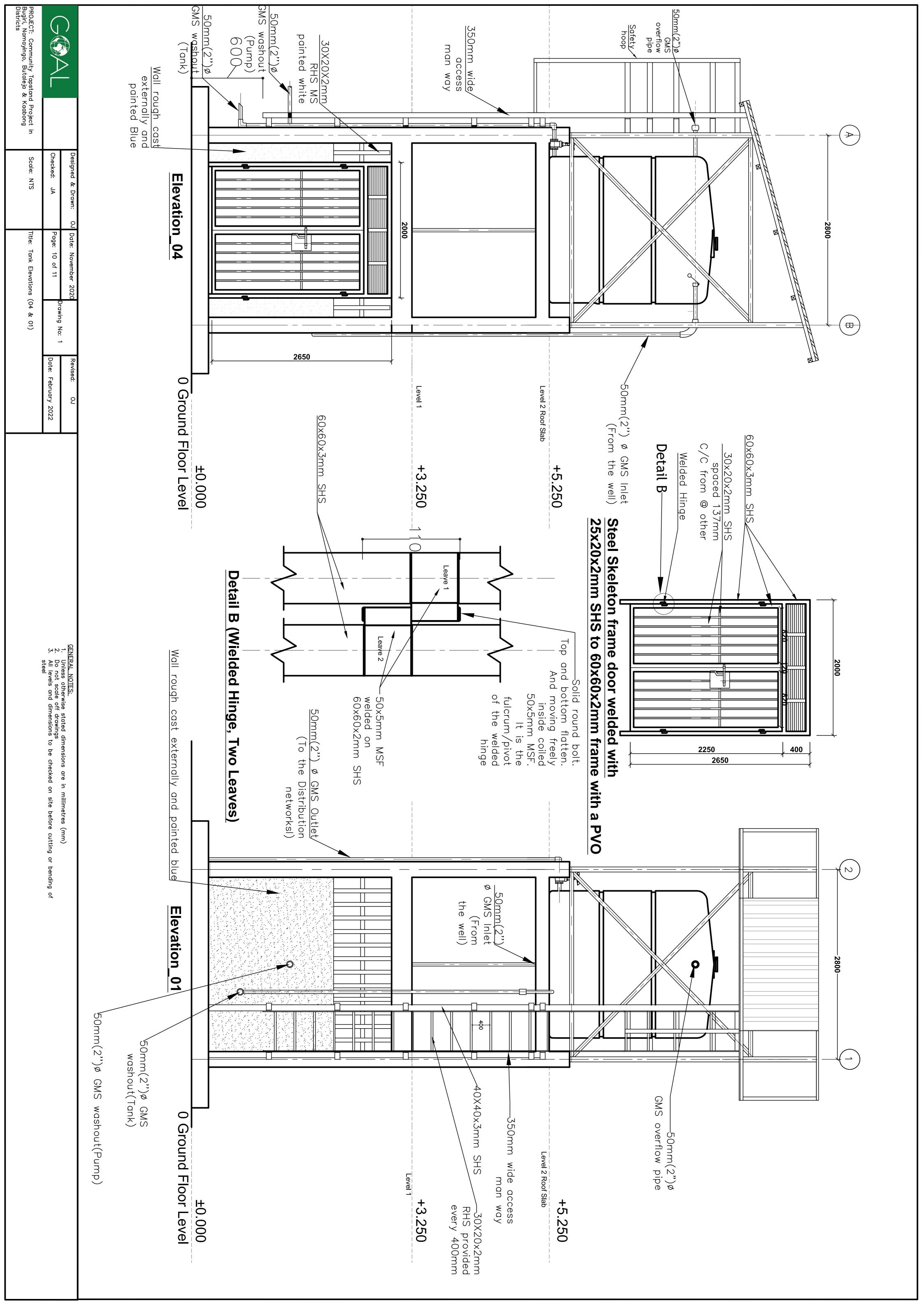
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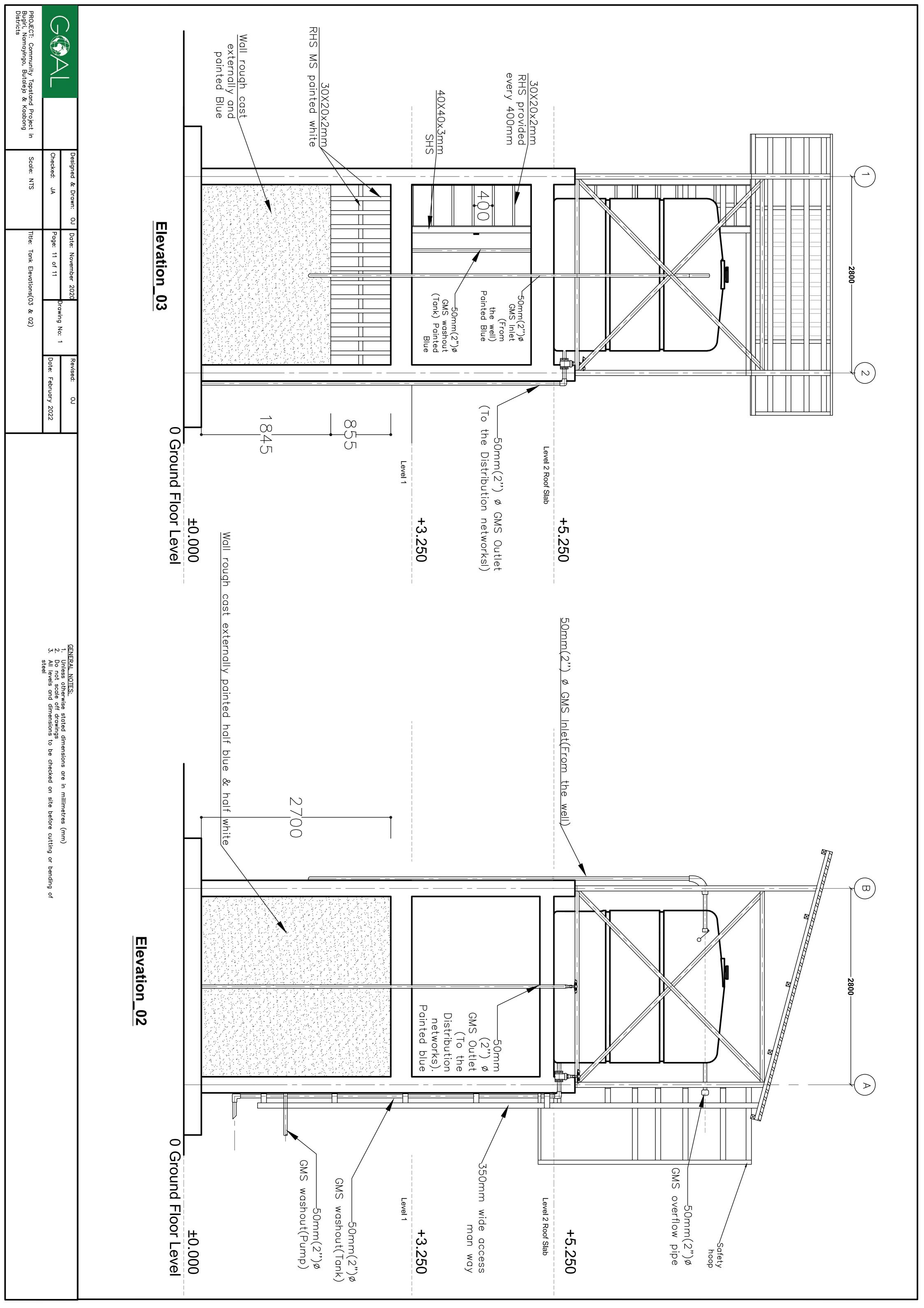
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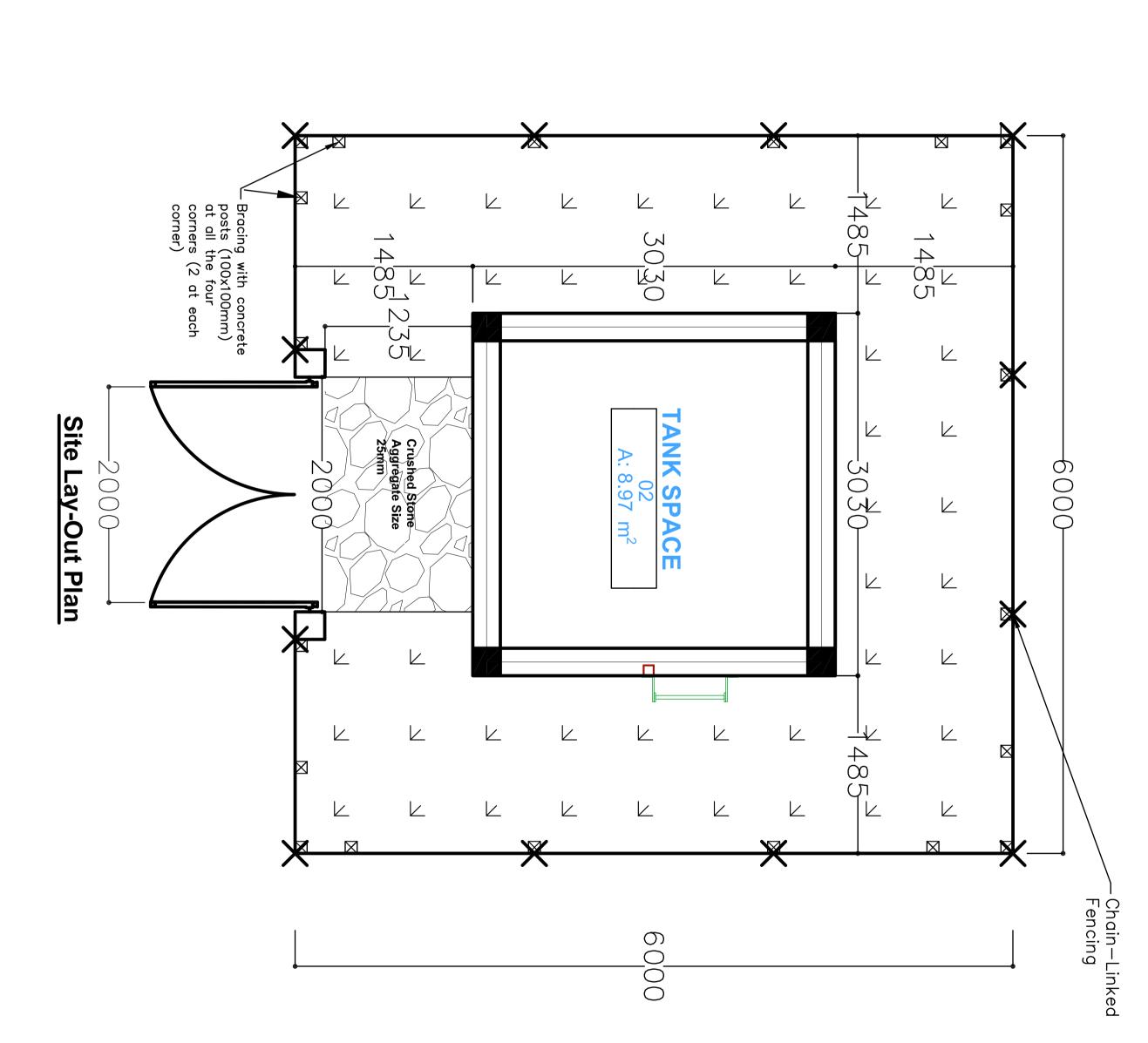
2. Do not scale off drawings

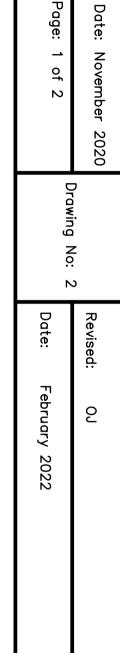
3. All levels and dimensions to be checked on site before cutting or bending of steel

4. All reinforced concrete is in accordance with structural engineer's details









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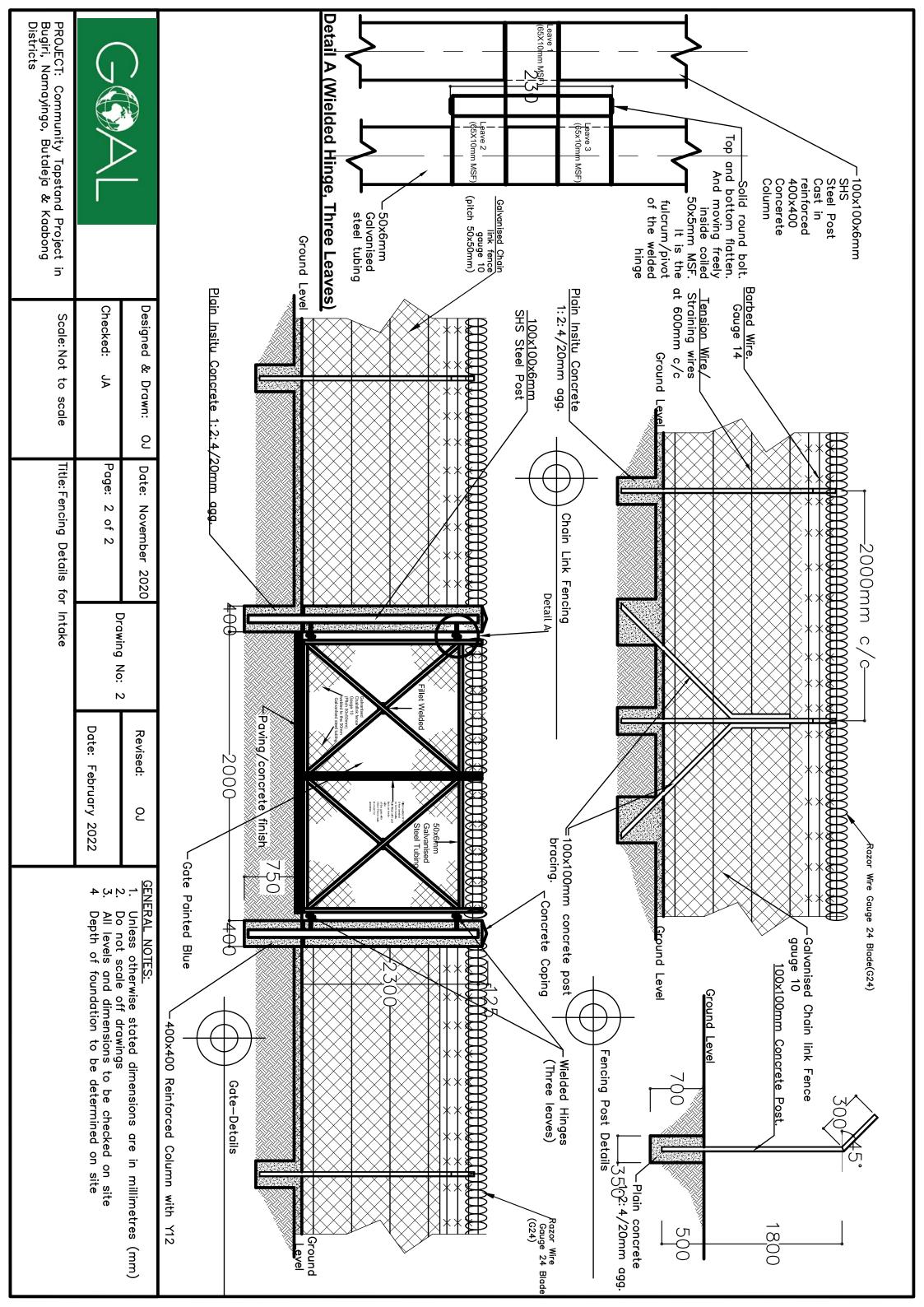
PROJECT: Community Tapstand Project in Bugiri, Namayingo, Butaleja & Kaabong Districts

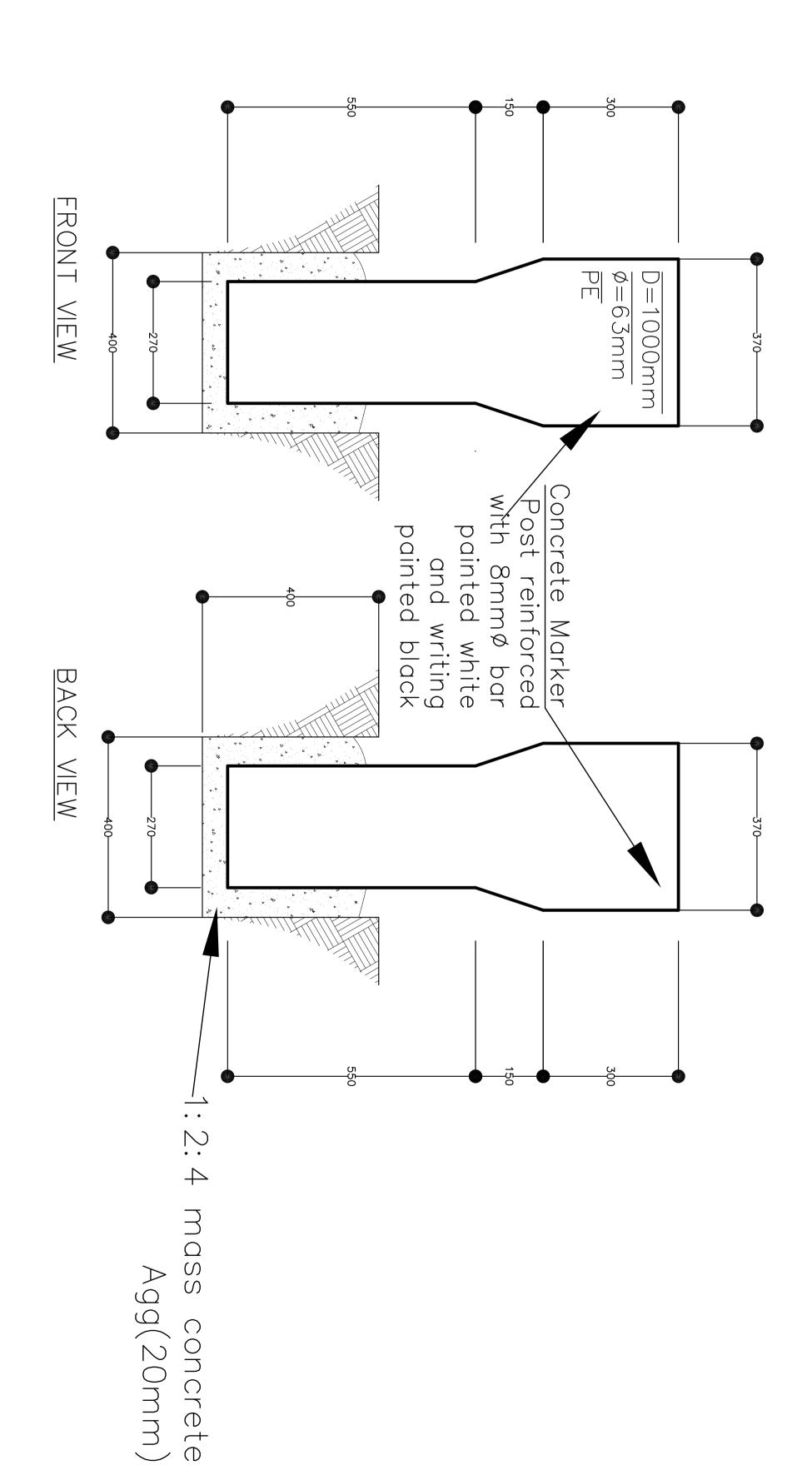
Scale: NTS

Title: Layout Plan for the Intake Area

GENERAL NOTES:

1. Unless otherwise stated dimensions are in millimetres (mm)
2. Do not scale off drawings
3. All levels and dimensions to be checked on site before cutting or bending of steel





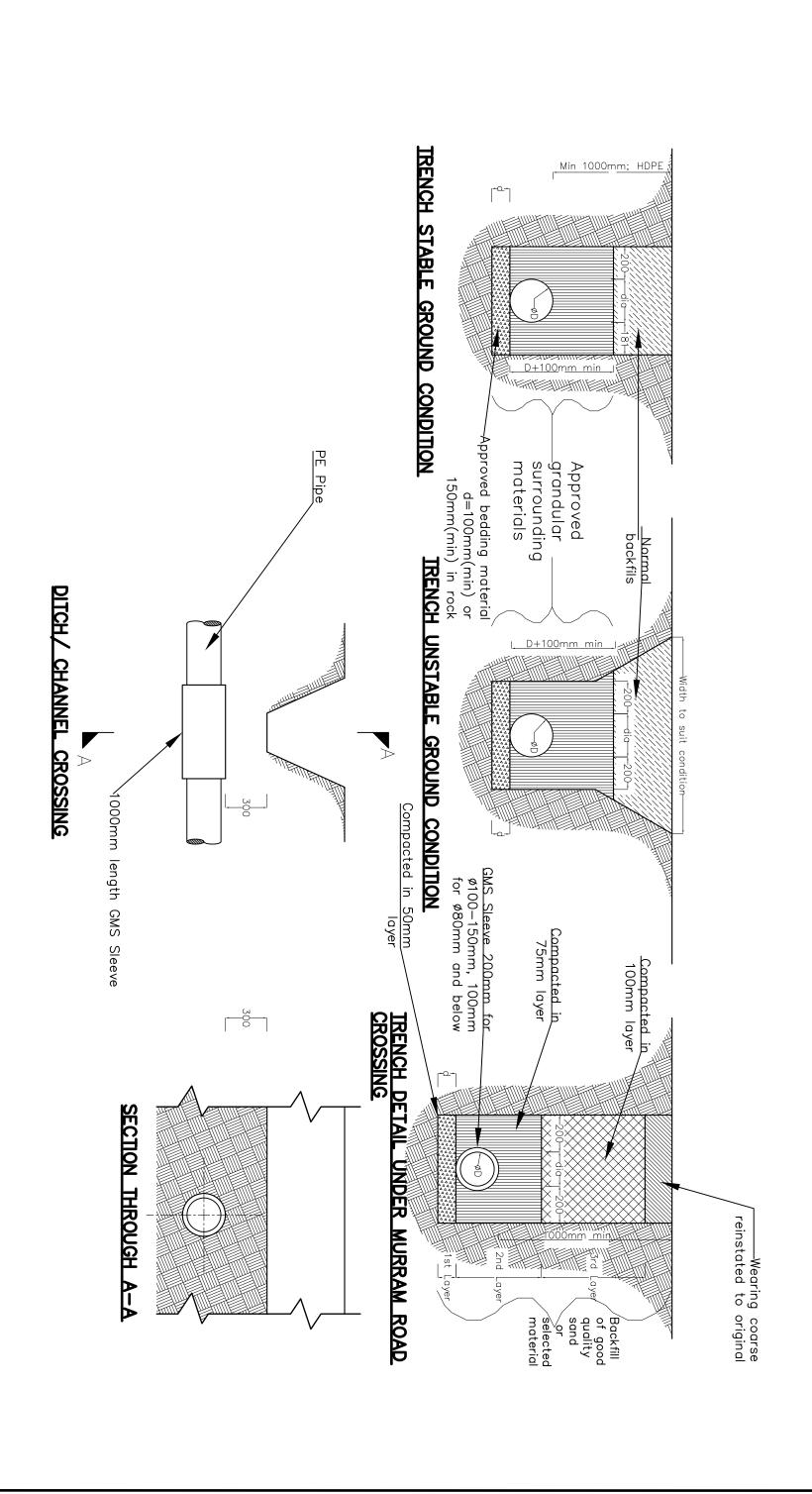
MARKER POST EVATION



Designed: OJ	Date: November 2020		Revised: OJ
Drawn: OJ		Drawing No: 0	
Checked: JA	Page: 1 of 1		Date: February 2022
Scale: NTS	Title: Marker Post Details Systematic Drawings	າils	

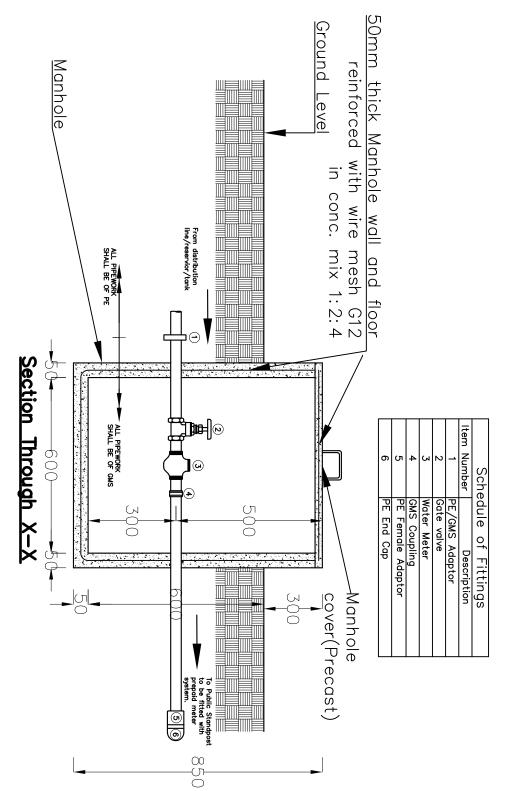
- GENERAL NOTES:

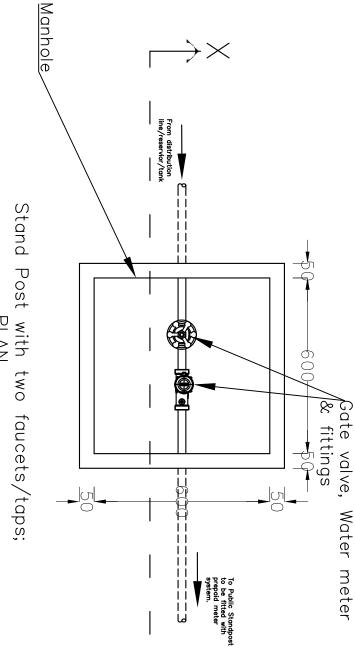
 1. Unless otherwise stated dimensions are in millimetres (mm)
 2. Do not scale off drawings
 3. All levels and dimensions to be checked on site before cutting or bending of steel
 4. Foundation depth to be determine on site





	Designed	& Drawn: OJ	Designed & Drawn: OJ Date: November, 2020	•	Revised: OJ	GENERAL NOTES: 1. Unless otherwise stated dimensions are in millimetres (mm)
	Checked: JA	JA	Page: 1 of 1	Drawing No: 4	Date: February 2022	 Do not scale off drawings All levels and dimensions to be checked on site Penth of foundation to be determined on site
PROJECT: Community Tapstand Project in Bugiri, Namayingo, Butaleja & Kaabong Districts	oject in Scale: NTS	NTS	Title: Trenching Details			5. All roads, storm water and drainage to civil engineer's details





Checked: JA	Designed & Drawn: OJ Date:November 2020	
Page: 1 of 1	Date: November 2020	
7 Q Q		PLAN
Date:February, 2022	Revised: OJ	

Project: Community Tapstand Project in Bugiri, Namayingo, Butaleja & Kaabong Districts.

Scale: NTS

Title: Meter Chamber

GENERAL NOTES:

- 7.45.45

- Unless otherwise stated dimensions are in millimetres (mm)
 Do not scale off drawings
 All levels and dimensions to be checked on site
 Depth of foundation to be determined on site
 All sanitary works to be the approved standards of public health department
- <u></u>6 All roads, stor details orm water and drainage to civil engineer's



PS2-1800 HRE-23

Solar Submersible Pump System for 4" wells

System Overview

 $\begin{array}{ccc} \mbox{Head} & \mbox{max. 80 m} \\ \mbox{Flow rate} & \mbox{max. 3.9 m}^{3} \mbox{/h} \end{array}$

Technical Data

Controller PS2-1800

- Controlling and monitoring
- Control inputs for dry running protection, remote control etc.
- Protected against reverse polarity, overload and overtemperature
- Integrated MPPT (Maximum Power Point Tracking)
- Battery operation: Integrated low voltage disconnect
- Integrated Sun Sensor

 Power
 max. 1.8 kW

 Input voltage
 max. 200 V

 Optimum Vmp**
 > 102 V

 Motor current
 max. 14 A

 Efficiency
 max. 98 %

 Ambient temp.
 -40...50 °C

 Enclosure class
 IP68

Motor ECDRIVE 1800-HRE

- · Maintenance-free brushless DC motor
- Water filled
- Premium materials, stainless steel: AISI 304/316
- No electronics in the motor

 Rated power
 1.7 kW

 Efficiency
 max. 92 %

 Motor speed
 900...3,300 rpm

 Insulation class
 F

 Enclosure class
 IP68

 Submersion
 max. 150 m

Pump End PE HRE-23***

- Non-return valve
- Premium materials, stainless steel: AISI 304/316
- Helical rotor pump

Efficiency max. 67 %

Pump Unit PU1800 HRE-23 (Motor, Pump End)

Borehole diameter min. 4,0 in Water temperature max. 50 °C

Standards



2006/42/EC, 2004/108/EC, 2006/95/EC

IEC/EN 61702:1995, IEC/EN 62253 Ed.1

The logos shown reflect the approvals that have been granted for this product family. Products are ordered and supplied with the approvals specific to the market requirements.

 $^{\star\star}\text{Vmp: MPP-voltage under Standard Test Conditions (STC): } 1000 \text{ W/m}^2 \text{ solar irradiance, } 25 \text{ }^\circ\text{C cell temperature}$





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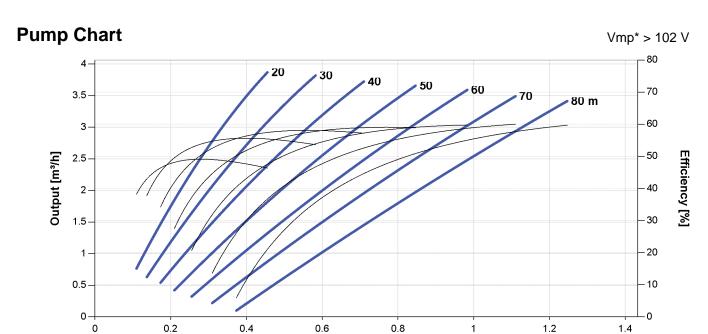


^{***}Specify temperature range on order



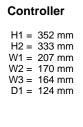
PS2-1800 HRE-23

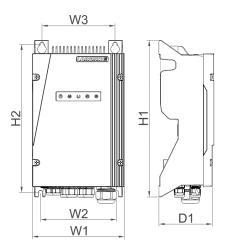
Solar Submersible Pump System for 4" wells



Power [kW]

Dimensions and Weights

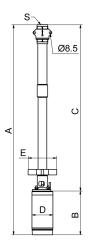




A = 970 mm B = 205 mmC = 765 mmD = 96 mmE = 147 mm

S = 1.25 in

Pump Unit



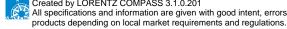
	Net weight
Controller	6.0 kg
Pump Unit	11 kg
Motor	6.8 kg
Pump End	4.5 kg

^{*}Vmp: MPP-voltage under Standard Test Conditions (STC): 1000 W/m² solar irradiance, 25 °C cell temperature

BERNT LORENTZ GmbH

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Well Probe V2

Mechanical float switch for dry run protection of LORENTZ solar pumps

The well probe provides a reliable method of run dry protection for LORENTZ pumps. The well probe detects that water is present within a well, tank or other water source. The well probe is typically attached to the riser pipe above the pump and connected to the controller. When the well probe becomes dry (water level is below the probe) the pump switches off to avoid dry running.

Order Information

Item no.: 19-000005 Product name: Well probe sensor V2

Features

- Reliable dry run protection
- Simple to install using 3 cable ties
- Improved tolerance to dirt
- Splicing kit and cable ties for fixing are included

Technical Data

- Max. operating temperature 55°C
- Enclosure class: IP68
- Submersion depth: max 50 m (164 ft)
- Cable length: 1.5 m
- Wire size: 2 x 0.50 mm² or AWG 20, waterproofed
- Must be mounted in a vertical position
- Meets the requirements for CE

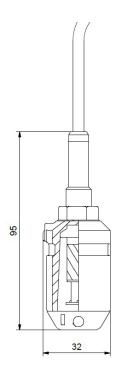
Dimensions / Weight

Packaging dimensions: 255 x 170 x 40 mm

10.0 x 6.7 x 1.6 in

Total weight: 0.1 kg / 0.2 lbs







WP Water Meter



The WP (Woltman) Water Meter is suitable for applications with a pipe size from DN50 to DN200.

Features

- Dry dial register ensures clear reading
- Low pressure loss, long working life
- Easy to install
- Reed switch output for easy water flow control and monitoring

Technical Data

- Water temperature 40°C
- Water pressure: max. 16 bar
- IP64
- CE Conformity





Order information

item number	description
19-002165	water meter, WP-DN50, 0.1 cbm/p
19-002170	water meter, WP-DN65, 0.1 cbm/p
19-002180	water meter, WP-DN80, 0.1 cbm/p
19-002190	water meter, WP-DN100, 0.1 cbm/p
19-002200	water meter, WP-DN125, 0.1 cbm/p
19-002210	water meter, WP-DN150, 0.1 cbm/p
19-002202	water meter, WP-DN200, 0.1 cbm/p

Accuracy Curve

The Accuracy curve shows the deviation in percent for different flow rates. In regular operation the deviation is between -2% and +2%.

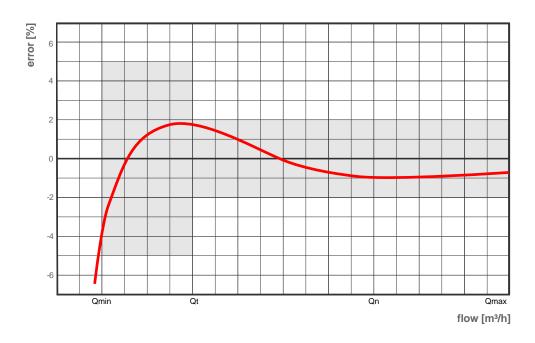


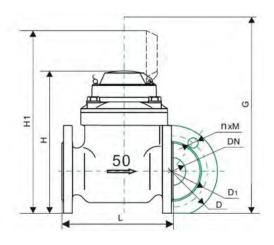


Table 1: WP - Flow rate characterisitics

	DN50	DN65	DN80	DN100	DN125	DN150	DN200
max. flow rate: Q _{max} [m³/h]	30	50	80	120	200	300	500
nominal flow rate: Q _n [m³/h]	15	25	40	60	100	150	250
transition flow rate: Q _t [m³/h]	3.0	5.0	8.0	12	20	30	50
minimum flow rate: Q _{min} [m³/h]	0.7	0.75	1.2	1.8	3.0	4.5	7.5

Table 2: WP - Dimensions, weight specifications

	DN50	DN65	DN80	DN100	DN125	DN150	DN200
L [mm]	200	200	225	250	250	300	350
H [mm]	232	242	252	262	275	325	355
H1 [mm]	303	313	323	333	346	396	426
G [mm]	360	360	360	360	360	420	420
D [mm]	165	185	200	220	250	285	340
D [mm]	125	145	160	180	210	240	295
Connecting bolt quantity	4xM16	4xM16	8xM16	8xM16	8xM16	8xM20	12xM20
Weight [kg]	12	13	16	18	20	42	74



About LORENTZ

LORENTZ is the global market leader in solar powered water pumping solutions. Founded in Germany during 1993 LORENTZ has pioneered, innovated and excelled in the engineering and manufacturing of solar powered water pumping. Today LORENTZ is active in over 130 countries through a dedicated network of professional partners. LORENTZ technology uses the power of the sun to pump water, sustaining and enhancing the life of millions of people, their livestock and crops.

Simply - Sun. Water. Life.



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└ +1 (844) LORENTZ

LORENTZ India Pvt. Ltd. Netaji Subhash Place Pitampura110034 New Delhi India

\(+ 91 (11) 4707 1009

www.lorentz.de

PV Disconnect 440-40-1Connection box with DC disconnect

Description

An outdoor rated, combining connection box with DC disconnect switch that allows 1 strings of PV modules to be connected safely to a solar pump system.

The PV disconnect is also designed to accept an optional lightning protection device.

Features

- DC rated disconnect to provide safe isolation of the system
- Robust weather proof housing designed to make installation simple
- Lockable to secure the system during maintenance (power locked off)
- For professional installation of pumping systems
- Internal touch protection with screws
- Designed to be used with LORENTZ PS2-150 to PS2 4000 systems



Ordering and shipping information

■ Item no: 19-000125

Product name: PV Disconnect 440-40-1

■ Packed volume 0.01 m³ (0.35 ft³)

Packed weight 1.9 kg (4.2 lbs)

Approvals and standards

Switch IEC 60947-3



Technical data / Specifications

Maximum voltage	440 V DC	
Maximum current per string	40 A	
Maximum total current	40 A	
Number of strings.	1	
Input cables	4 - 10 mm²	AWG 12 - 8
Output cables	4 - 10 mm ²	AWG 12 - 8
PG glands (input)	2 x M16	
PG glands (output)	2 x M16	
Lightening protection mounting hole	PG16 cap	
Environmental protection	IP68	NEMA6
Housing material	Polycarbonate	





Optional lightning surge protector

Provides protection for the pump controller from incomming high voltages on the PV side. The surge protector connects through a pre-drilled and blanked mounting hole in the PV connect housing

• Proper grounding of the device is required to achieve protection

■ Item no.: 19-002120 MNSPD-115 PS2-150 to PS2-200
■ Item no.: 19-002130 MNSPD-300 PS2-600 to PS2-1800

■ Item no.: 19-002140 MNSPD-600 PS2-4000



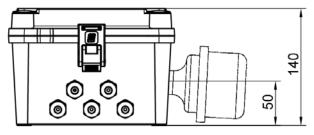
Mounting options

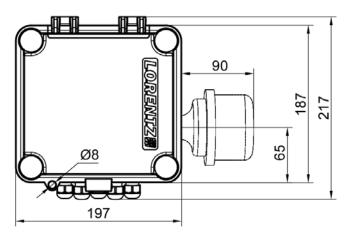
- Wall mount using 4 holes with weather protection
- Designed for optional pole mounting. Mounting points are pre-marked inside the housing.



Dimensions and weight

- See diagram for mm sizes
- Max height 220 mm (8.66")
- Max width (no surge protector) 197 mm (7.75")
- Max width (surge protector) 297 mm (Max 11.7")
- depth 140 mm (5.5")
- Weight 1403 g (3.1 lbs)







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PS2 Manual Speed Controller

Device to provide manual motor speed control of PS2 systems

The LORENTZ PS2 Manual Speed Controller allows adjustment of the maximum motor speed without using the PumpScanner App. To use the Manual Speed Controller, it is required to activate this function in the settings of PumpScanner during or before installation.

ORDER INFORMATION

Item no.: 19-000035 Product name: PS2 Manual Speed Controller

FEATURES

- · Allows manual control of PS2 motor speed
- Outdoor rated, installed in the housing of the controller

TECHNICAL DATA

- Voltage: 15-24 V DC
- Enclosure class: IP65
- Ambient temperature: -38...50 °C (-36... 122 F)
- Wire size: 2 x 0,75 mm²/18 AWG
- Replaces Ø 20mm cable gland
- Meets the requirements for CE
- Please note that if "Manual Speed Controller" is configured then "Set speed limitation" function is not available in PumpScanner.

DIMENSION/WEIGHT

Packing dimension: 100 x 70 x 35 mm; 3.9 x 2.7 x 1.3 in

Total weight: 0.2 kg / 0.4 lbs









PS 2 Controller Plug Kit

Kit for an easy and electrical safe installation of PS2 Controller

The LORENTZ PS2 Controller Plug Kit can be installed on any PS2 system. The kit extends the internal wiring connections to plugs allowing systems to be pre-wired and delivered to site. Possible uses for the plug kit are where time on site needs to me minimized, where systems are often moved or where the skills available onsite do not allow for a standard installation.

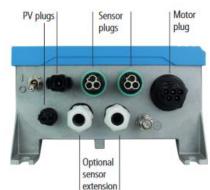
The sensor extension kit allows the installation of two additional sensors, the standard set contains only two plug sets for sensor connections.

Order Information

- 19-005001 Plug- Kit PS2- Controller
- 19-005011 Sensor Plug Extension Kit

Features

- Allows fast, easy and electrical safe installation of PS2 Controller
- Customer must not open the controller for installation
- Outdoor rated, all parts are designed for outdoor use



Technical Data

PLUG	Wire size	max. current	max. voltage	Ambient temperature
Motor	max, 6mm² (10 AWG)	32 A	600V DC	-40°C +90°C
PV	max 8mm² (8 AWG)	40 A (27A at 2.5mm² /14AWG)	1500V DC	-40°C+90°C
Sensor	max. 1.5mm² (16 AWG)	3 A	50V DC	-40°C+90°C

Packing Dimension/Weight

19-005001 Plug- Kit PS2- Controller

• Packing dimension: 16 x 300 x 4cm (6.3x12x1.6inch)

• Total weight: 0.33kg (0,73lb)

19-005011 Sensor Plug Extension Kit

Packing dimension: 16 x 24 x 2cm (6.3x10x0.8inch)

• Total weight: 0.1kg (0,22lb)





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Surge Protector2

Device to Protect LORENTZ Pump Accessories from Voltage Spikes

ORDER INFORMATION

• Item no.: 19-005210 product name: Surge Protector2

FEATURES/COMPATIBILITY

- Reliable surge protection device for any switched, pulse or analogue (4-20 mA) inputs sensors including:
 - o Well Probe Sensor 19-000000
 - Water Sensor 19-000001
 - o Float Switch 19-000030
 - o Pressure Switch 19-000310
 - o Liquid Level (all types, e.g. 19-005040)
 - o Liquid Pressure Sensor (all types, e.g. 19-004460)
 - Water Meter (all types, e.g. 19-002160)
 - Sun Switch (19-000050)
- The device must be installed inside the PS2 or PSk2 controller.

TECHNICAL DATA

Max. voltage: 30 V DC

• Max current 8/20µs: 500 A

Enclosure class: IP20

Ambient temperature: max. 80°C (176°F)

Wire size: 2 x 1.5mm² (AWG 16)

Meets the requirements for CE

DIMENSION/WEIGHT

Packing dimensions: 56 x 26 x 120 mm

2.2 x 1.02 x 0.47 in

Total weight 0.1 kg / 0.2 lbs





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LC330-P72 High-efficiency PV Module

Features

- high energy yields ensured by high conversion efficiency
- sturdy, clear-anodized aluminum frame with pre-drilled holes for quick installation
- advanced EVA encapsulation with triple-layer backsheet, meets the most stringent safety requirements for high-voltage operation
- pre-wired junction box equipped with connectors "plug'n'play"
- reliable bypass diodes to prevent overheating (hot spot effect) and to minimise power loss by shading
- manufactured in ISO 9001:2000-certified factory



Warranty

- Warranty: 2 years
- Performance guarantee:
 up to 10 years (90% power output)
 up to 20 years (80% power output)

Details according to warranty issued by LORENTZ

Standards

LC330-P72 is certified according to IEC 61215 and 61730 by TÜV Rheinland and meets the requirements for CE.



IEC 61215 IEC 61730 Regular Production Surveillance

www.tuv.com ID 1419063783



Specifications

Electrical Data

Peak power	Pmax	[Wp]	330
Tolerance		[%]	+6/0
Max. power current	Imp	[A]	8.84
Max. power voltage	Vmp	[V]	37.3
Short circuit current	lsc	[A]	9.55
Open circuit voltage	Voc	[V]	45.6
Temperature co-efficient for Pmax		[%/°C]	-0.43
Temperature co-efficient for Voc		[%/°C]	-0.32
Temperature co-efficient for Isc		[%/°C]	0.04
Max. system voltage		[VDC]	1,000
Module efficiency		[%]	17.09

All technical data at standard test condition: AM = 1.5, $E = 1,000 \text{W/m}^2$, cell temperature: 25 °C

Cells

Number of cells in series	72
Number of cells in parallel	1
Cell technology	polycrystalline
Cell shape	rectangular



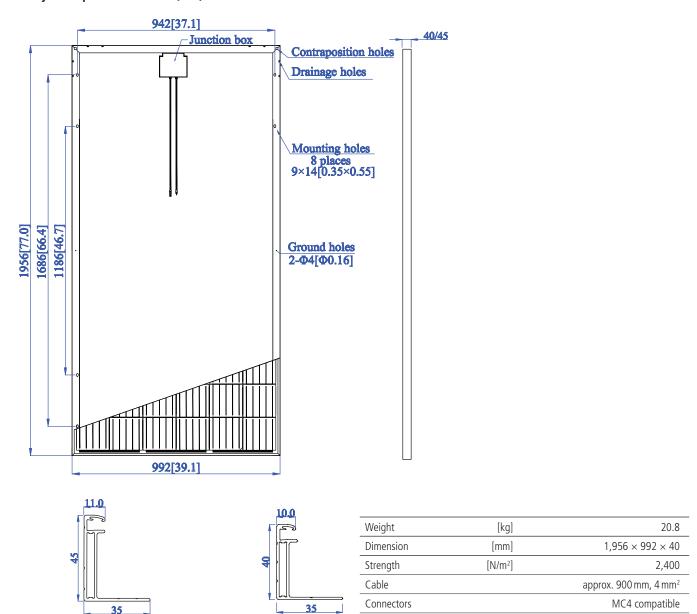




Electrical Performance

Electrical Performance Electrical Performance Temperature Dependence Irradiation Dependence of Isc, Voc and Pmax at 25°C for different temperatures, at AM=1.5, E=1,000W/m 2 for different irradiation, at 25 °C of Isc, Voc and Pmax 140 140 1.000W/m % € 120 120 Normalised Isc, Voc and Pmax (%) 8 Isc Normalised Isc, Voc and Pmax 100 800W/m Voc Current [A] 6 ⊴ 6 80 Current [5 600W/n 50 Pmax 60 400W/ 40 75°C 2 20 _200W/m 1 0 10 10 , -25 600 800 1000 1.200 0 20 30 40 20 30 100 0 400 0 50 +25 +50 +75 Voltage [V] Voltage [V] Cell temperature [°C] Irradiance [W/m²]

Physical Specifications mm [inch]



BERNT LORENTZ GmbH

Siebenstuecken 24, 24558 Henstedt-Ulzburg, Germany Tel. +49 (0) 4193 8806 - 700, www.lorentz.de







Mono PERC Half-cell Module

Reduced resistance between cells Less micro cracks, higher output power



Positive power tolerance (0~+5W)



Outstanding mechanical load resistance

3800 Pa wind load, 5400 Pa snow load



High performance under low light

Works at cloudy, rainy days



Anti-PID(potential induced degradation)

Passed anti-PID test under 85% damp heat, 85% relative humidity for 96 hours



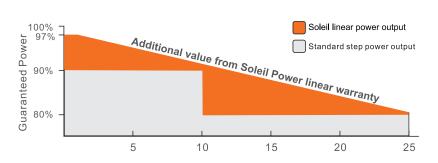
Great Durability against extreme conditions

Passed salt mist corrosion test, ammonia corrosion test, dust & sand test, fire test, all certified by TUV



Double electroluminescence (EL) tests

Carefully inspected before and after lamination to guarantee fault-free modules



12-year product warranty

25-year linear power warranty









MONO HALF-CELL PERC





MONO 325W/330W/335W



ELECTRICAL PERFORMANCE

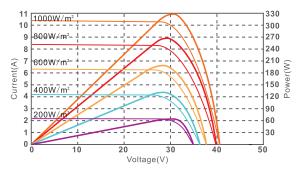
Е	loctrica	I Dar	ameters	Stano	lard"	Toet	Cand	itione

Module Type			SP-325M-120	SP-330M-120	SP-335M-120
Power Output	Pmax	W	325	330	335
Power Tolerance	△Pmax	W		0/+5W	
Module Efficiency	η m	%	19.44	19.74	20.04
Voltage at Pmax	Vm	V	33.3	33.5	33.7
Current at Pmax	lm	Α	9.76	9.85	9.94
Open-Circuit Voltage	Voc	V	40.8	41.0	41.2
Short-Circuit Current	Isc	Α	10.17	10.26	10.35

STC: 1000w/m² irradiance, 25°C module temperature, AM1.

II I-V CURVE

I-V characteristics at different irradiations



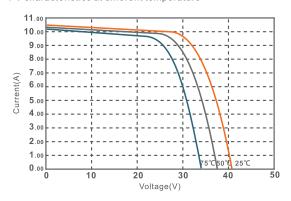
THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	45±2
Temperature Coefficient of Pmax	γ	%/°C	-0.390
Temperature Coefficient of Voc	βvoc	%/°C	-0.290
Temperature Coefficient of Isc	αisc	%/°C	+0.049

OPERATING CONDITIONS

Max.System Voltage	1000V/1500V
Max.Series Fuse Rating	15A
Operating Temperature Range	-40°C ~ 85°C
Max static snow load	5400Pa
Max static wind load	3800Pa
Application Class	А

I-V characteristics at different temperature



CONSTRUCTION MATERIALS

Front Cover(material/type/thickness)	low-iron tempered glass/3.2mm
Cell(quantity/material/type/dimension)	120/monocrystalline/156x78mm
Encapsulant(material)	ethylene vinyl acetate(EVA)
Frame(material/anodization color)	anodized aluminum alloy/silver or black
Junction Box(protection degree)	IP67
Cable(length/cross-sectional area)	400mm/4mm ²
Plug Connector	MC4 compatible

GENERAL CHARACTERISTICS

Dimension(L/W/H)	1685/992/35mm
Weight	18.5kg

PACKING CONFIGURATION

Pallet Size(L/W/H)	1725/1120/2440mm
Pallet Weight	1292kg
Pieces per Pallet	64pcs
Pieces per Container	832pcs

SS DA OLUMO CONFIGURATION

III INTERNATIONAL CERTIFICATES

· OHSAS18001:2007

• TÜV • ISO14001:2015

• ISO9001:2015

