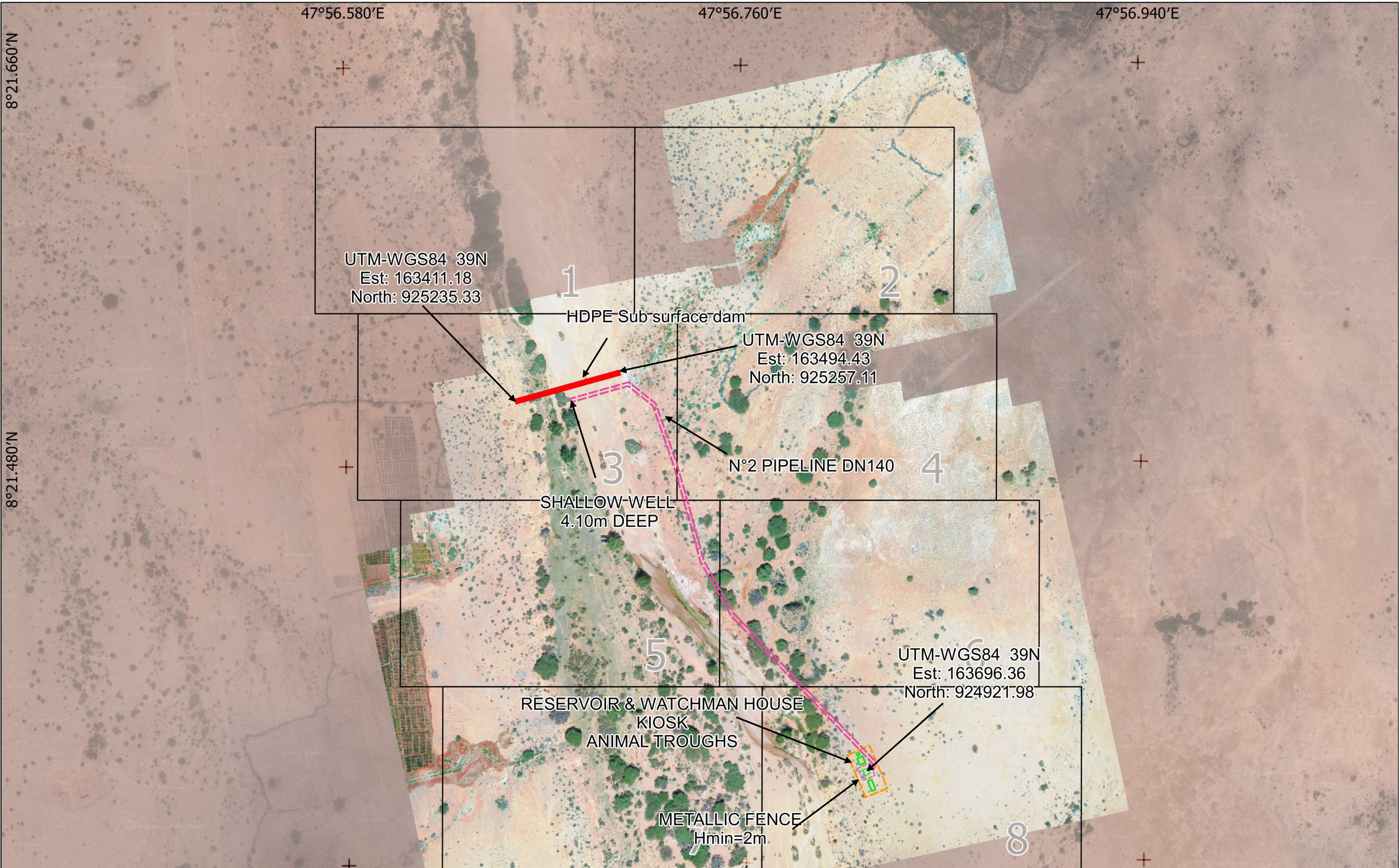
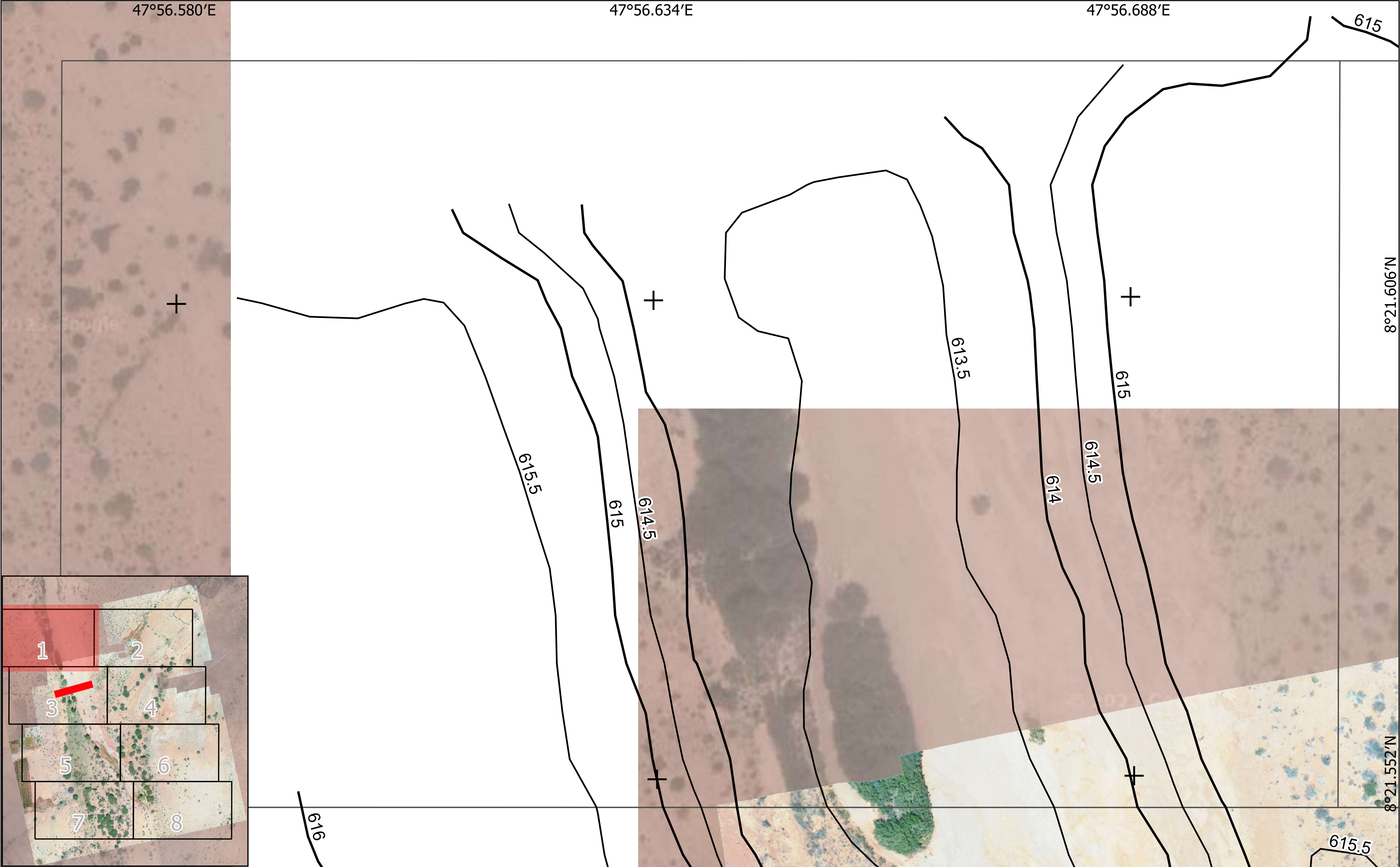


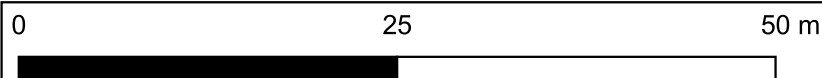


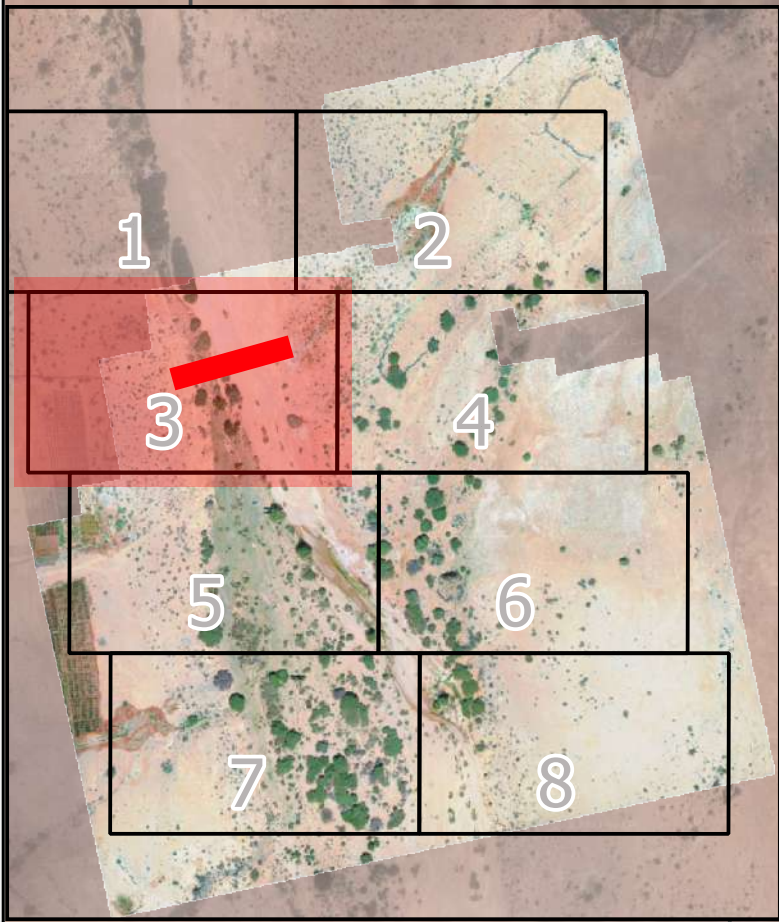
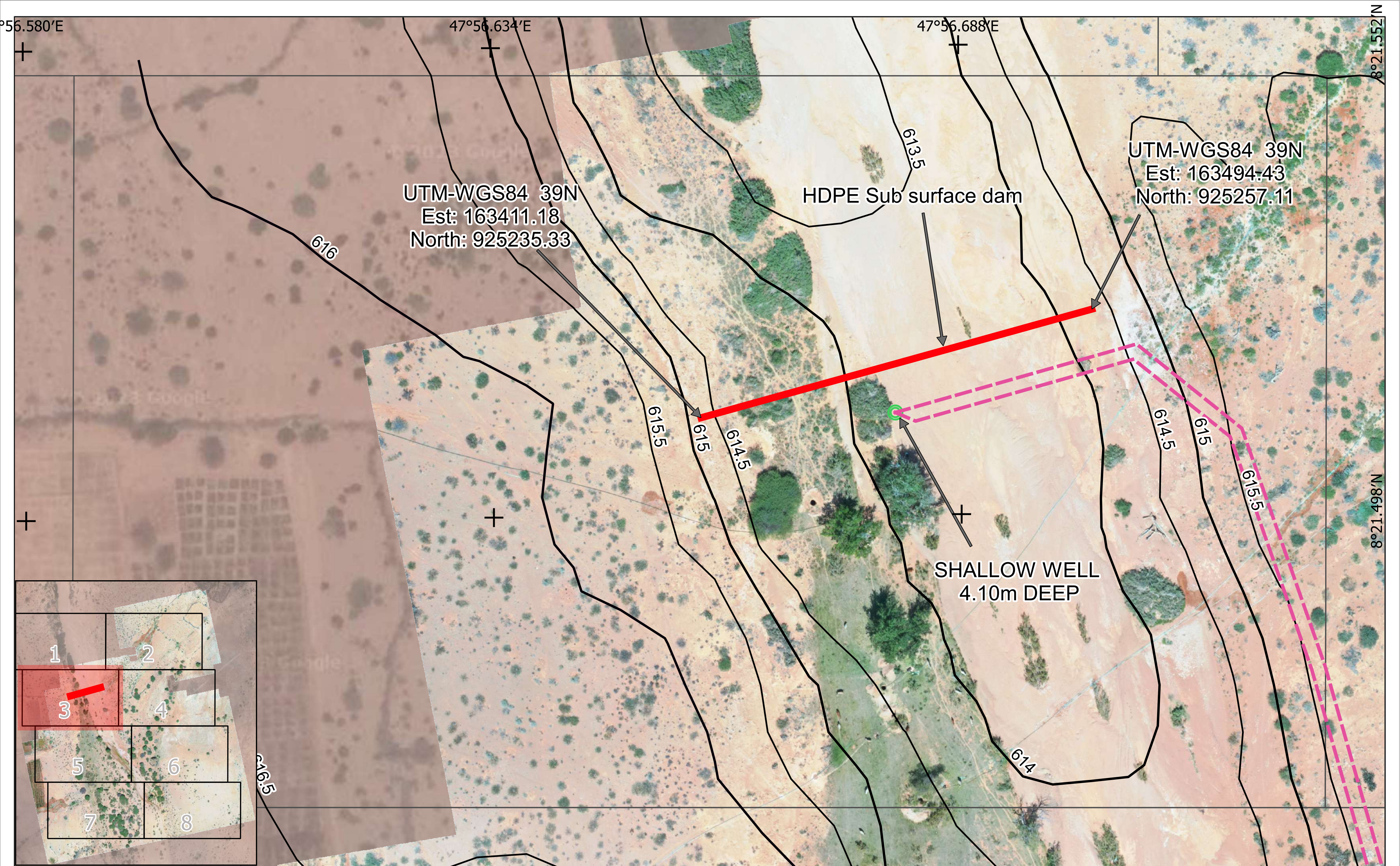
No.	REVISION DESCRIPTION	BY	DATE	NOTES	CLIENT	CONSULTANT	Project:	Somalia Water for Rural Resilience Project 'Barwaaqo'
1	FIRST EMISSION	A.C.	DEC. 2023				Site's Name:	HDPE Dam near the village of Boocame
							Drawing's Title:	Key Map
							Drawing's Number:	A - 01



No.	REVISION DESCRIPTION	BY	DATE	NOTES	CLIENT	CONSULTANT	Project:	Somalia Water for Rural Resilience Project 'Barwaaqo'
1	FIRST EMISSION	A.C.	DEC. 2023	Scale: 1:500 Coordinate Reference System: WGS84 02550 m N	 Federal Government of Somalia, Ministry of Planning, Investment and Economic Development	 	Site's Name:	HDPE Dam near the village of Boocame
							Drawing's Title:	Topographic Survey Layout 1/8
							Drawing's Number:	A - 02



No.	REVISION DESCRIPTION	BY	DATE	NOTES	CLIENT	CONSULTANT	Project:	Somalia Water for Rural Resilience Project 'Barwaaqo'		
1	FIRST EMISSION	A.C.	DEC. 2023	Scale: 1:500 Coordinate Reference System: WGS84	 Federal Government of Somalia, Ministry of Planning, Investment and Economic Development		Site's Name:	HDPE Dam near the village of Boocame		
				 			Drawing's Title:	Topographic Survey Layout 2/8		
							Drawing's Number:	A - 03		



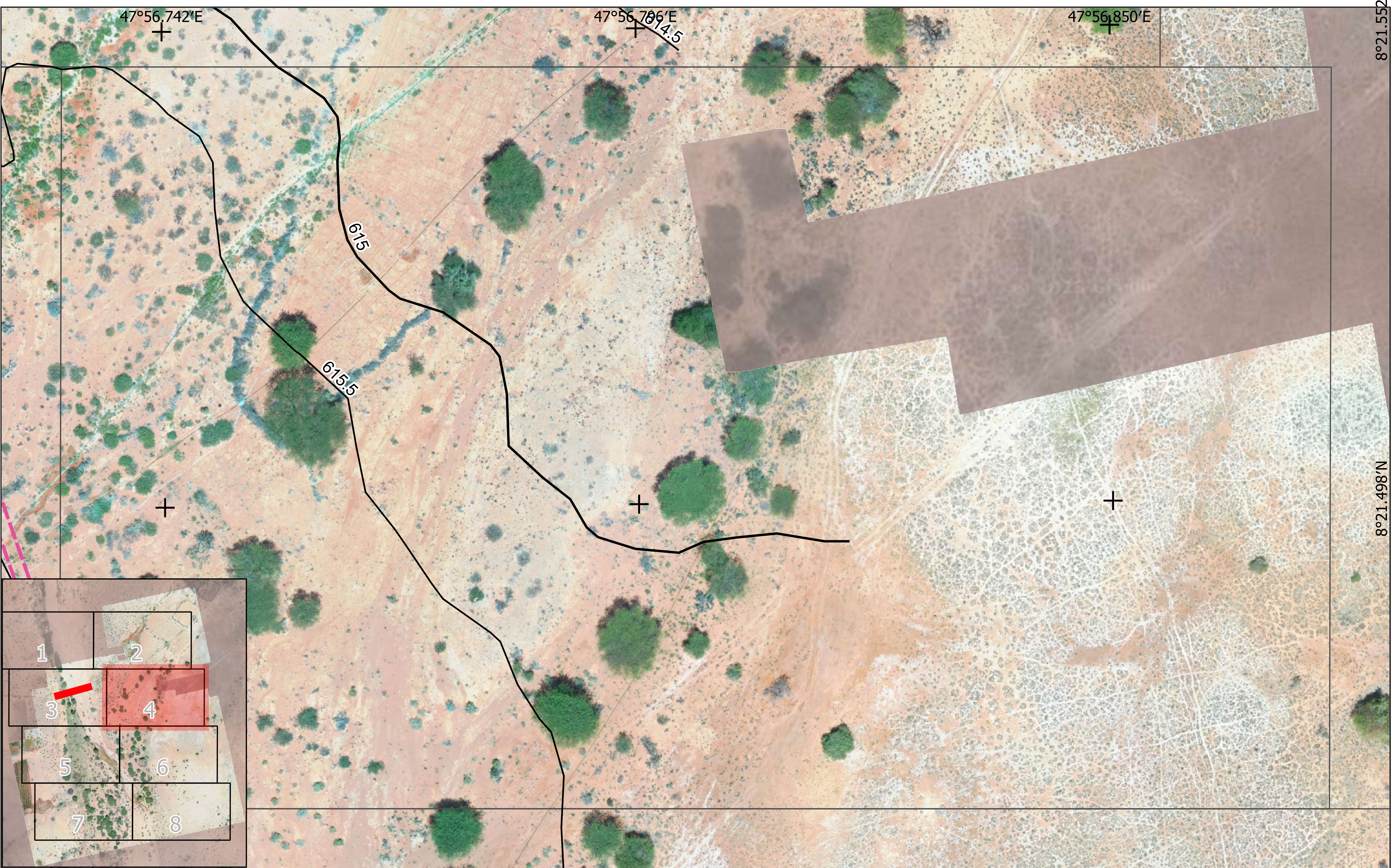
No.				REVISION DESCRIPTION	BY	DATE	NOTES	CLIENT	CONSULTANT	Project:	Somalia Water for Rural Resilience Project 'Barwaaqo'
1				FIRST EMISSION	A.C.	DEC. 2023		 Federal Government of Somalia, Ministry of Planning, Investment and Economic Development	 HydroNova INNOVATING WATER PROSPERITY Terre Solidali	Site's Name:	HDPE Dam near the village of Boocame
										Drawing's Title:	Topographic Survey Layout 3/8
										Drawing's Number:	A - 04

Scale: 1:500

Coordinate Reference System: WGS84

02550 m

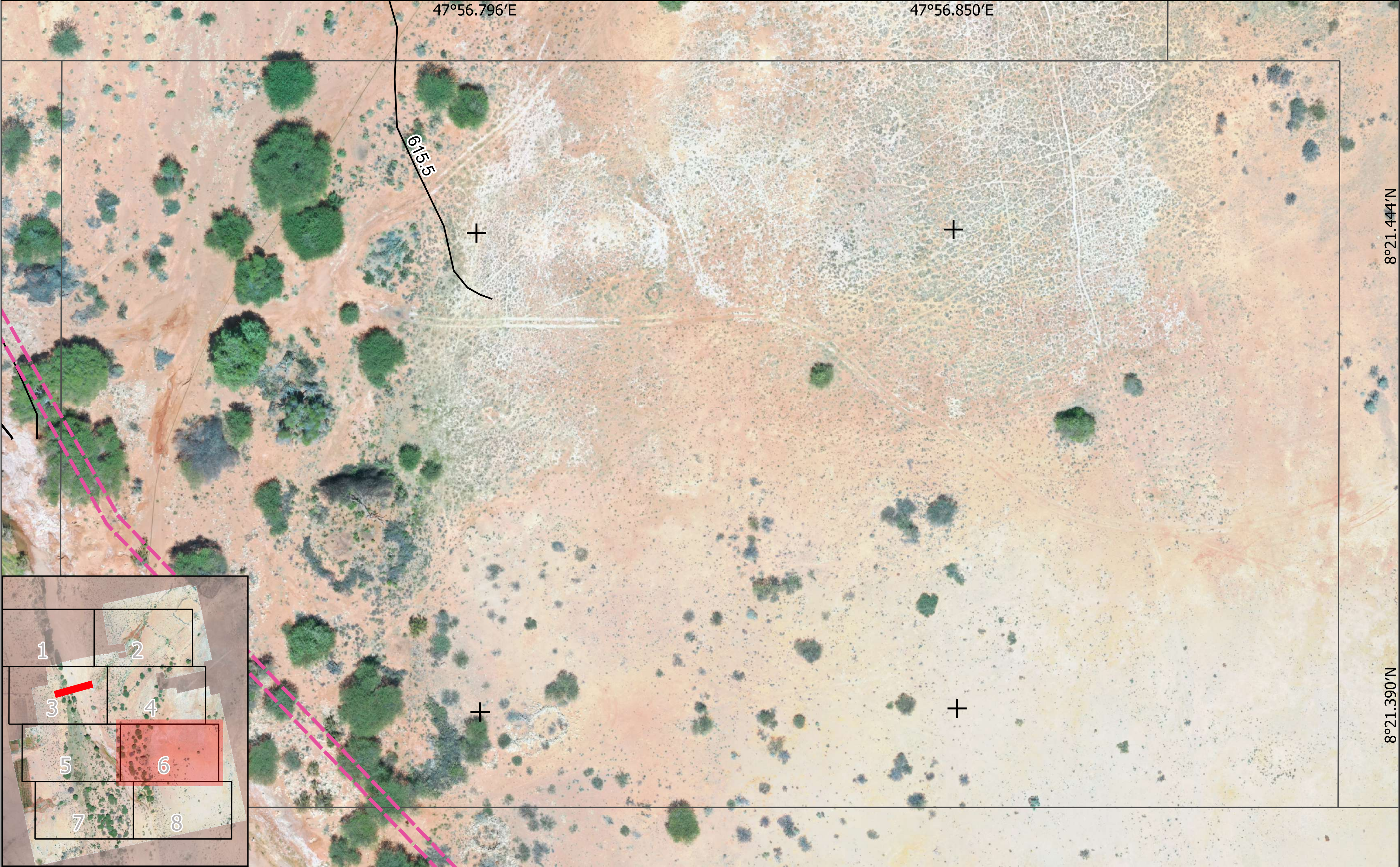




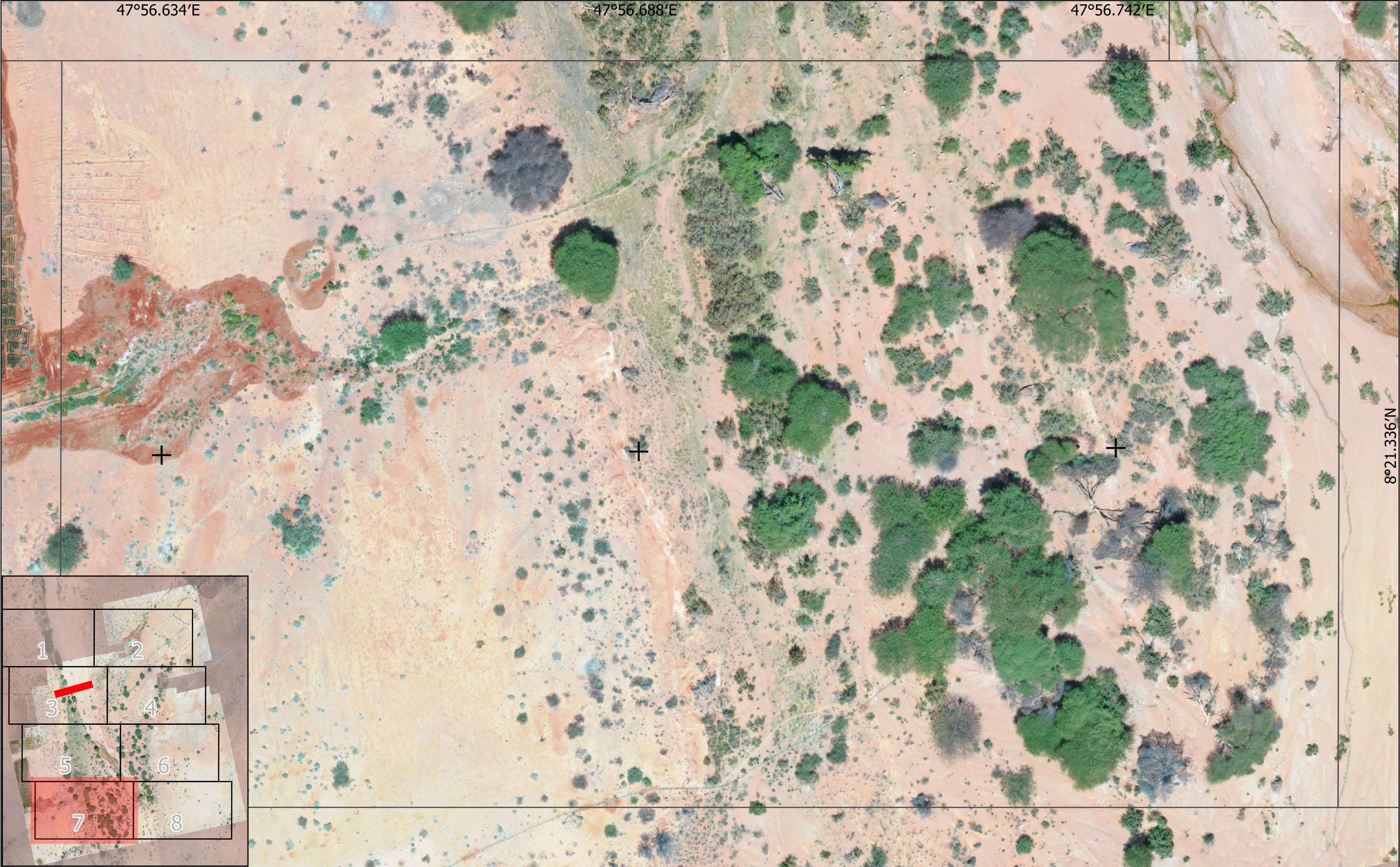
No.	REVISION DESCRIPTION	BY	DATE	NOTES	CLIENT	CONSULTANT	Project:	Somalia Water for Rural Resilience Project 'Barwaaqo'
1	FIRST EMISSION	A.C.	DEC. 2023	Scale: 1:500 Coordinate Reference System: WGS84	 Federal Government of Somalia, Ministry of Planning, Investment and Economic Development	 	Site's Name:	HDPE Dam near the village of Boocame
				Drawing's Title:			Topographic Survey Layout 4/8	
				Drawing's Number:			A - 05	



No.	REVISION DESCRIPTION	BY	DATE	NOTES	CLIENT	CONSULTANT	Project:	Somalia Water for Rural Resilience Project 'Barwaaqo'
1	FIRST EMISSION	A.C.	DEC. 2023	Scale: 1:500 Coordinate Reference System: WGS84 02550 m N	 Federal Government of Somalia, Ministry of Planning, Investment and Economic Development		Site's Name:	HDPE Dam near the village of Boocame
							Drawing's Title:	Topographic Survey Layout 5/8
							Drawing's Number:	A - 06

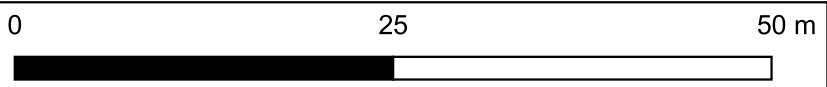


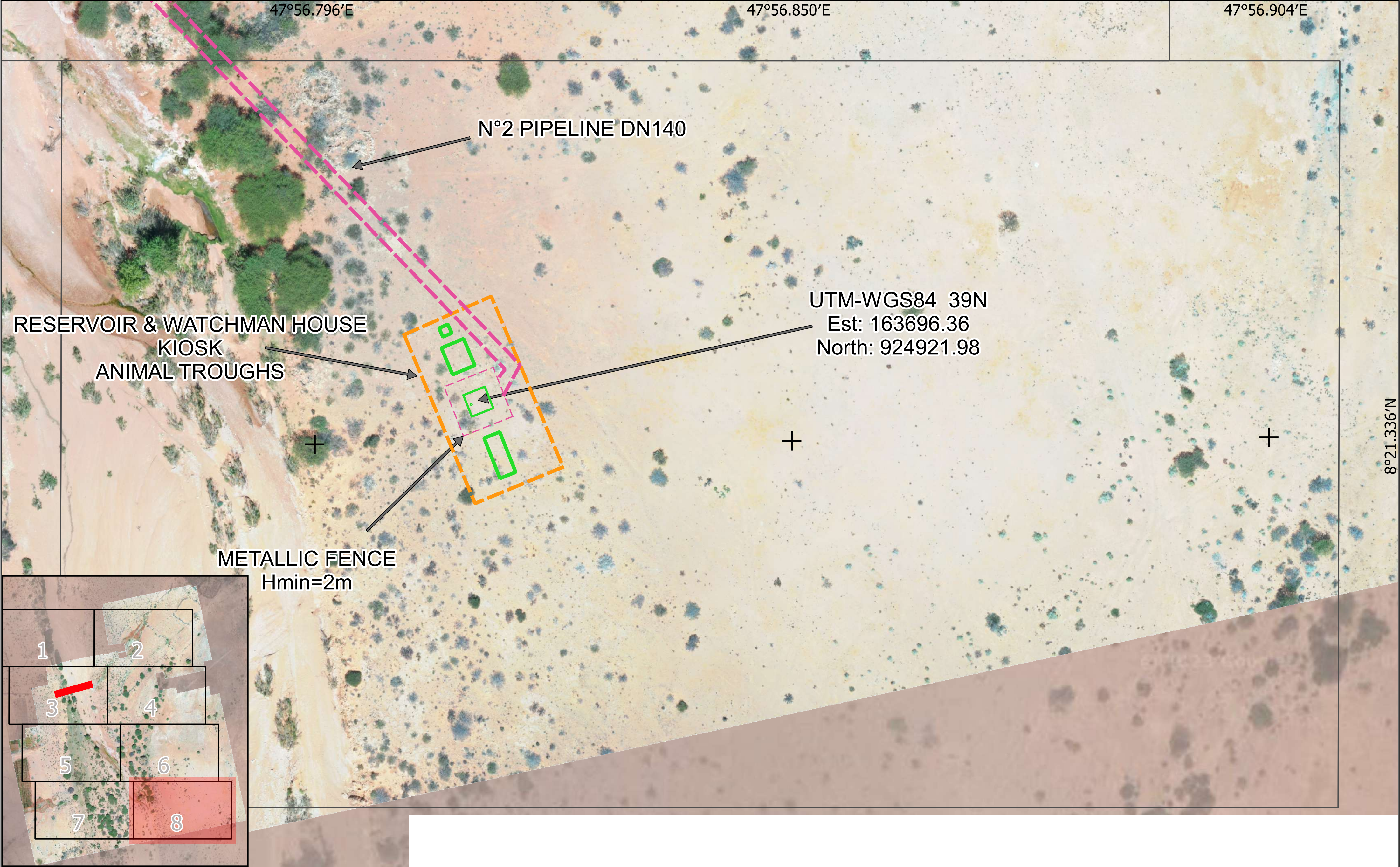
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1	FIRST EMISSION	A.C.	DEC. 2023	Scale: 1:500 Coordinate Reference System: WGS84 0 25 50 m N	 Federal Government of Somalia, Ministry of Planning, Investment and Economic Development	 HydroNova INNOVATING WATER PROSPERITY  Terre Solidali	Site's Name:	HDPE Dam near the village of Boocame
							Drawing's Title:	Topographic Survey Layout 6/8
							Drawing's Number:	A - 07



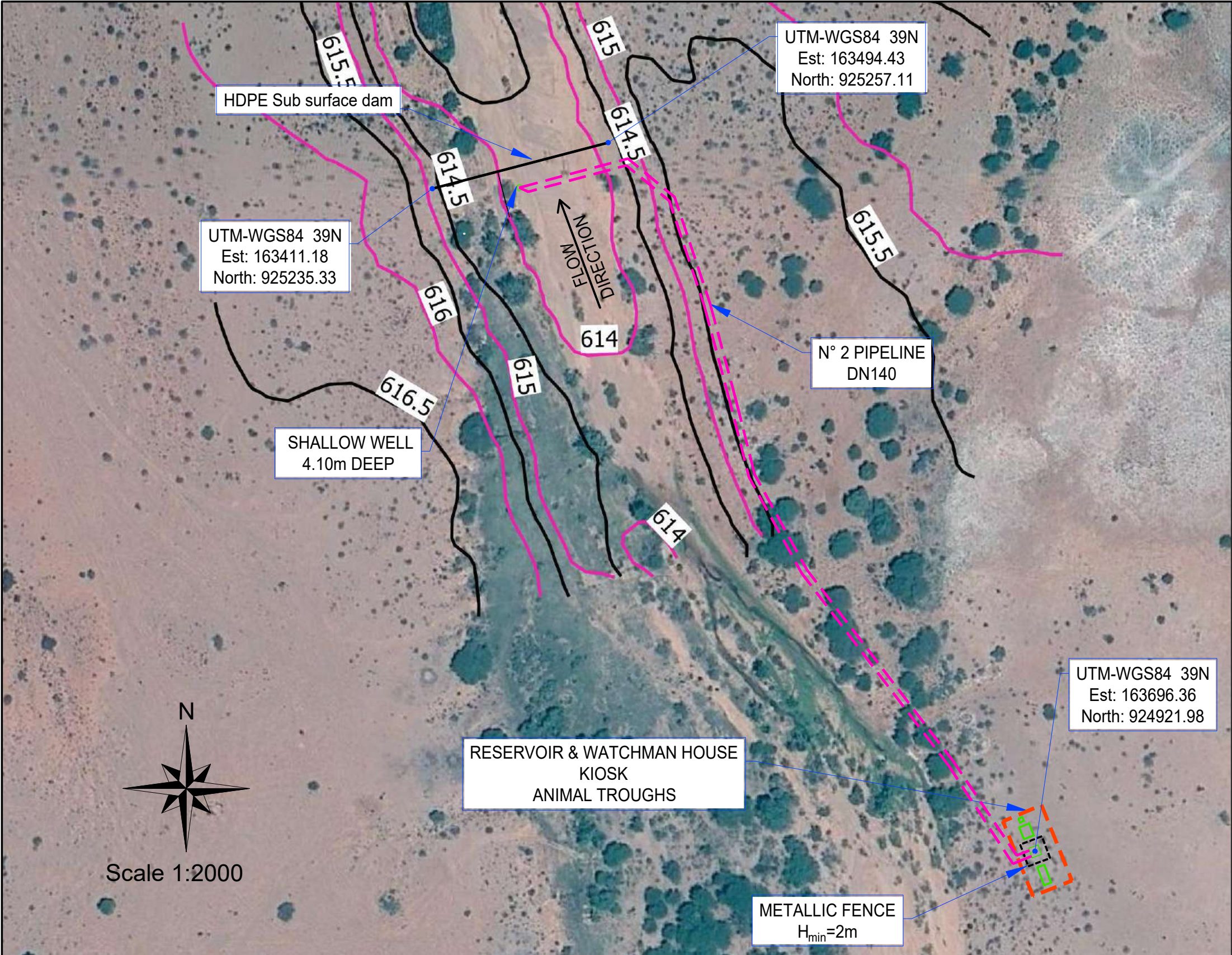
No.	REVISION DESCRIPTION	BY	DATE	NOTES	CLIENT	CONSULTANT	Project:	Somalia Water for Rural Resilience Project 'Barwaaqo'
1	FIRST EMISSION	A.C.	DEC. 2023	Scale: 1:500 Coordinate Reference System: WGS84 02550 m N	 Federal Government of Somalia, Ministry of Planning, Investment and Economic Development		Site's Name:	HDPE Dam near the village of Boocame
							Drawing's Title:	Topographic Survey Layout 7/8
							Drawing's Number:	A - 08

Scale: 1:500 Coordinate Reference System: WGS84

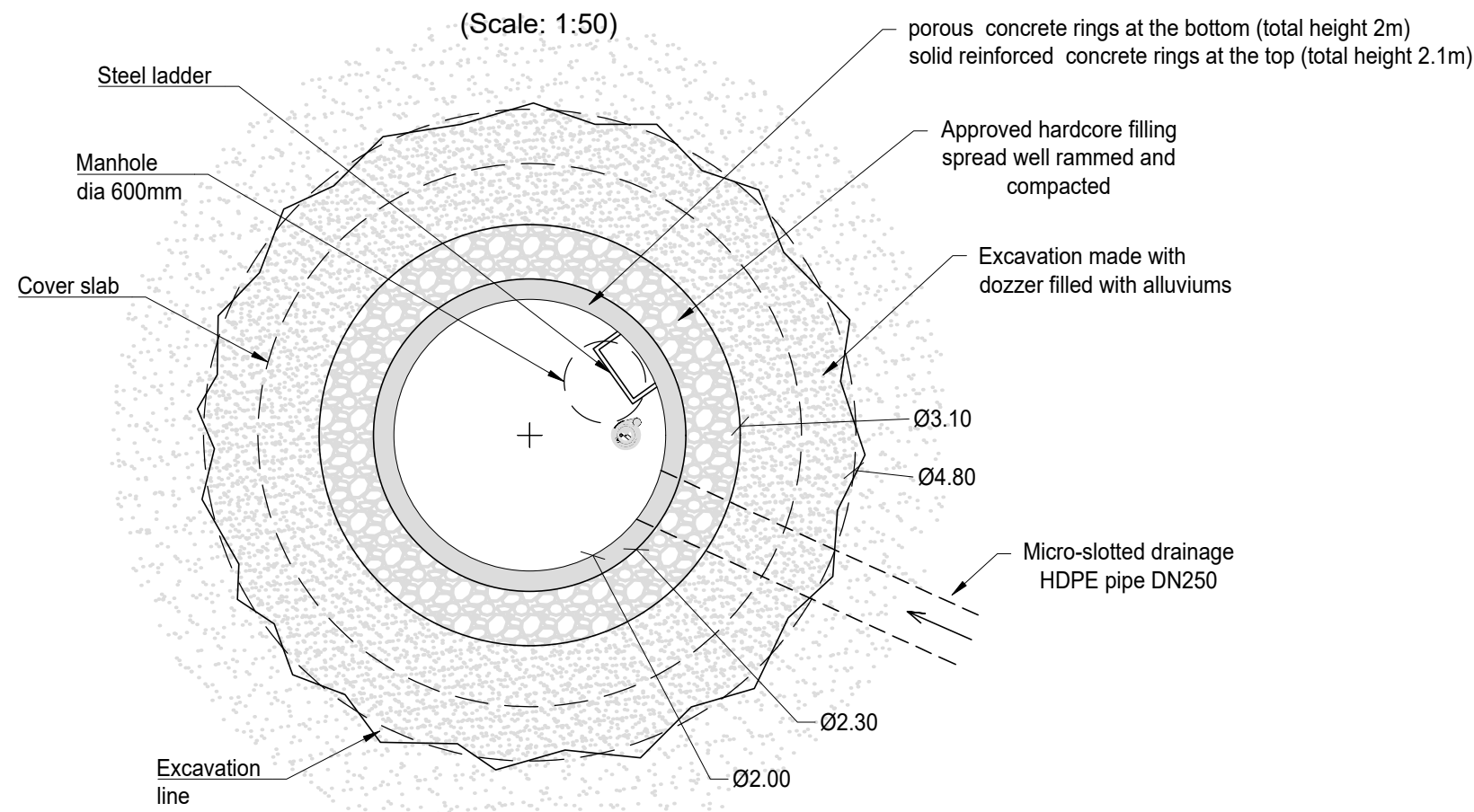




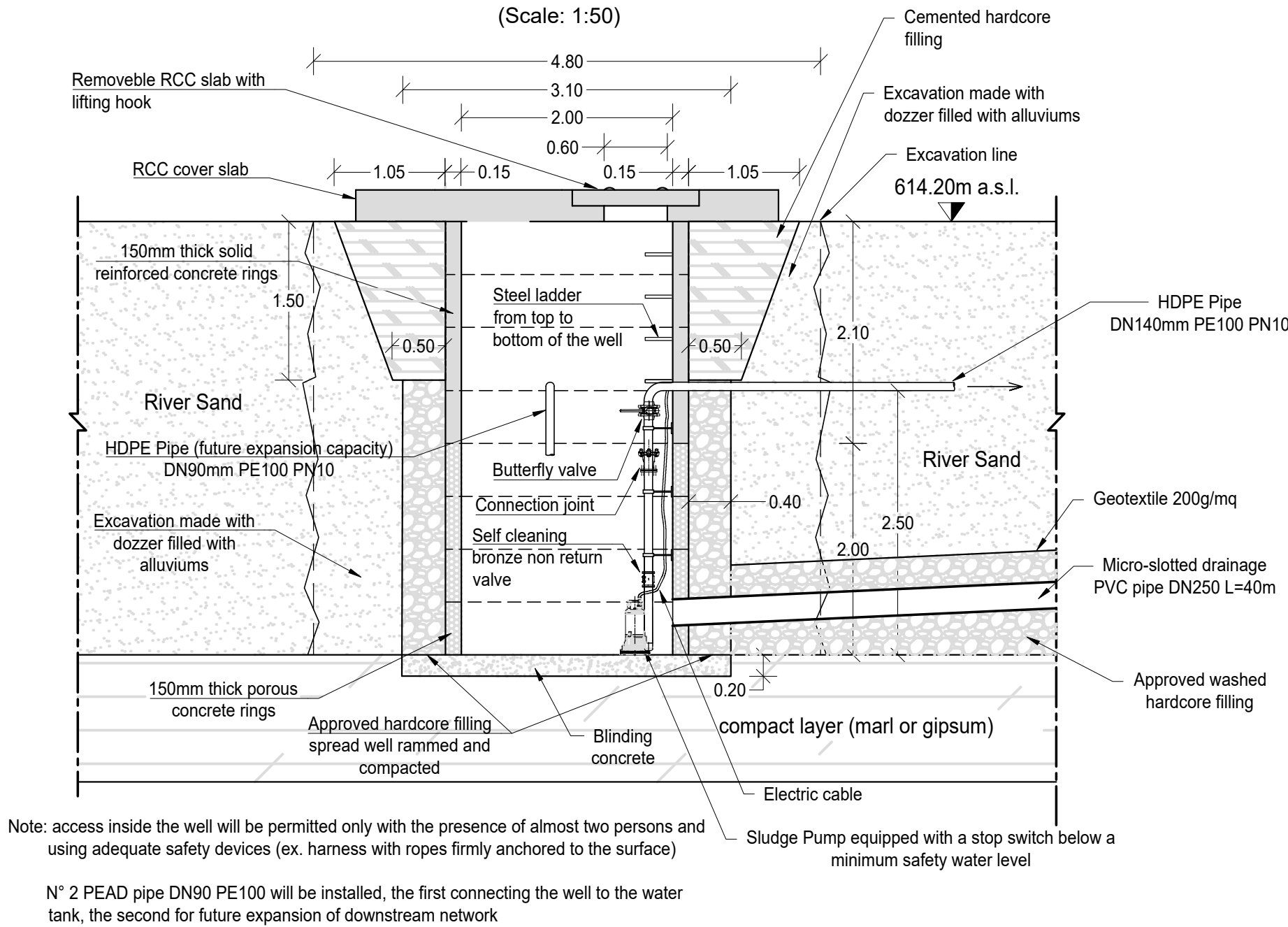
No.	REVISION DESCRIPTION	BY	DATE	NOTES	CLIENT	CONSULTANT	Project:	Somalia Water for Rural Resilience Project 'Barwaaqo'
1	FIRST EMISSION	A.C.	DEC. 2023	Scale: 1:500 Coordinate Reference System: WGS84 02550 m N	 Federal Government of Somalia, Ministry of Planning, Investment and Economic Development		Site's Name:	HDPE Dam near the village of Boocame
							Drawing's Title:	Topographic Survey Layout 8/8
							Drawing's Number:	A - 09



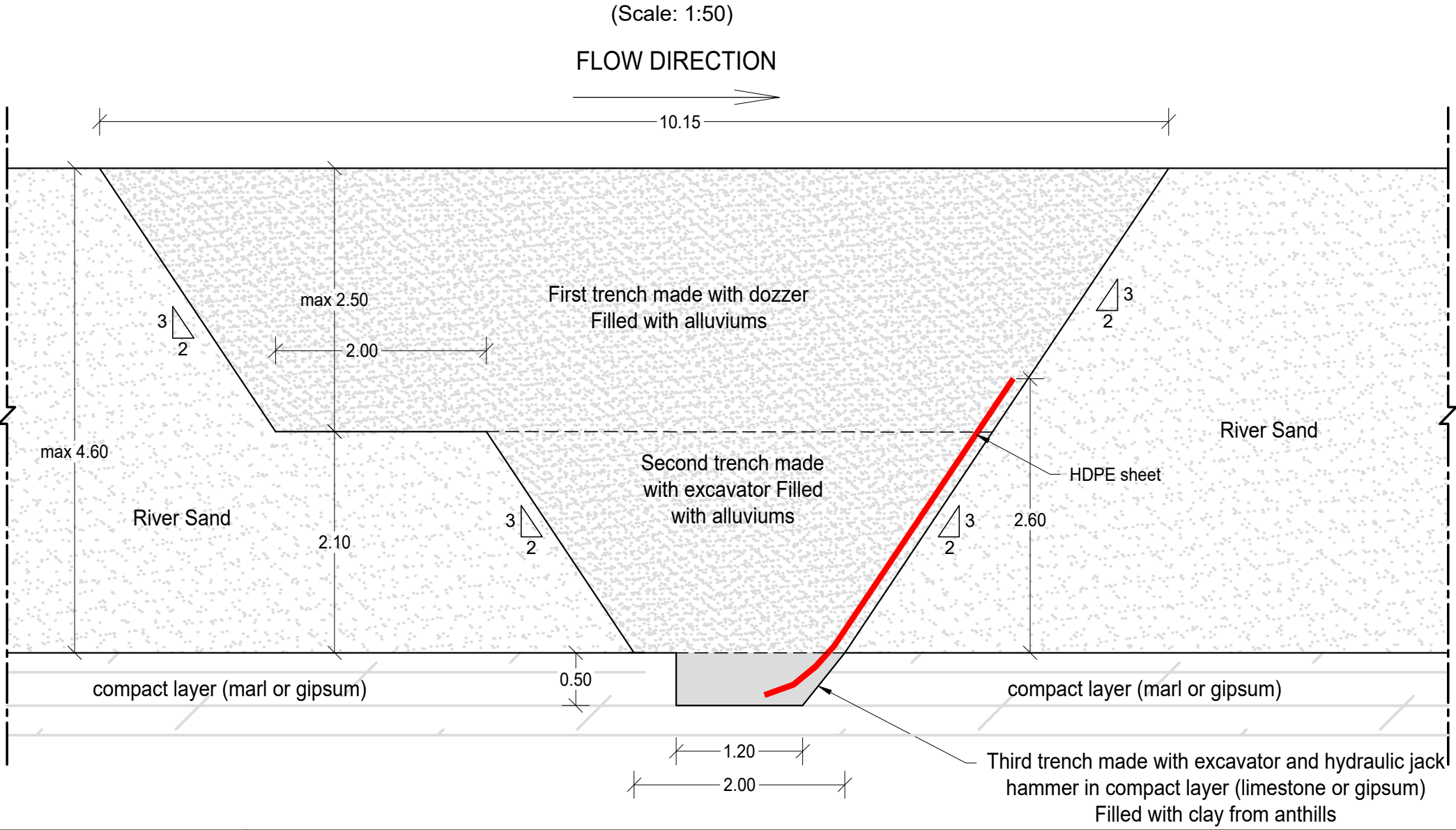
SHALLOW WELL PLAN VIEW



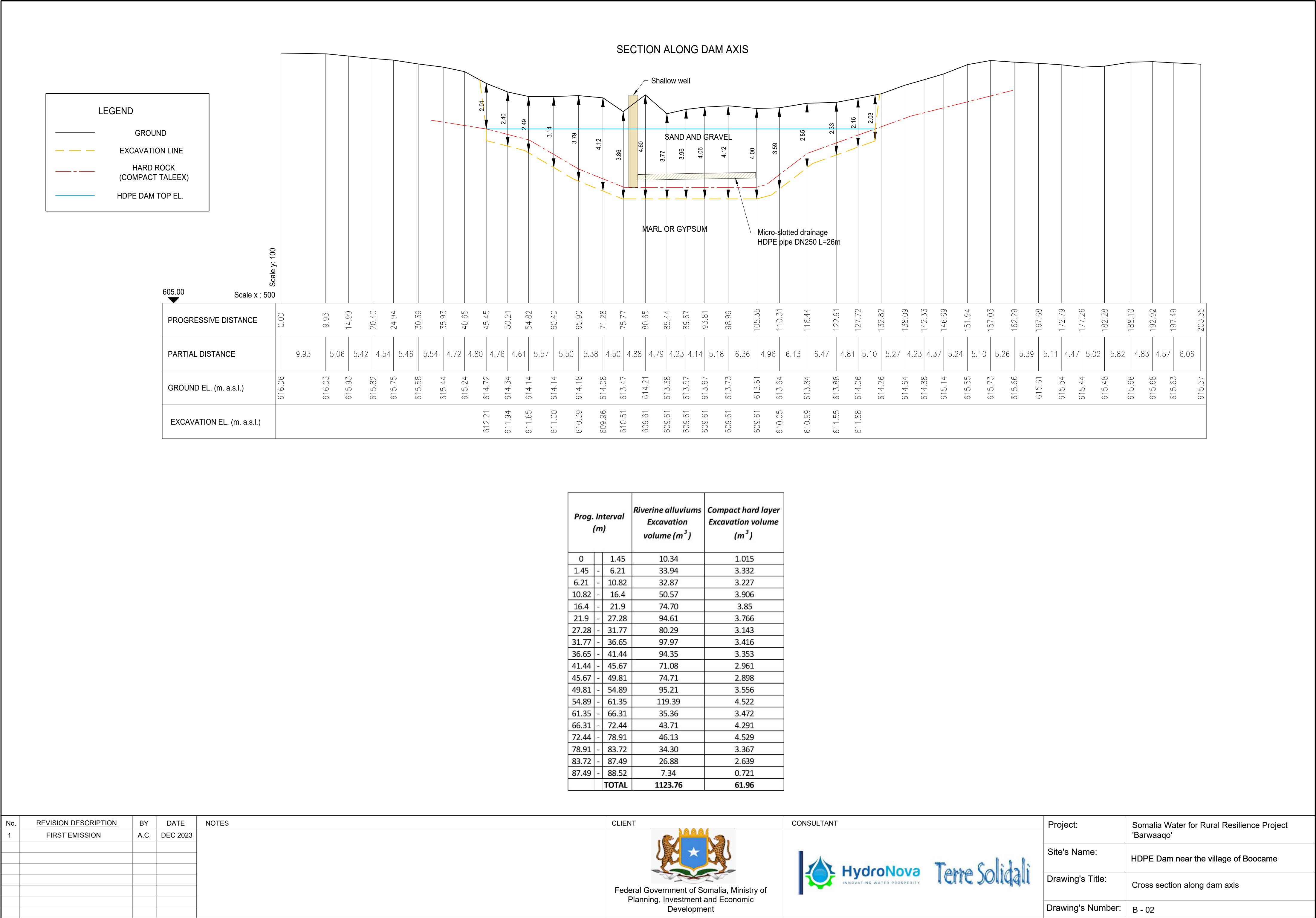
SHALLOW WELL CROSS SECTION VIEW

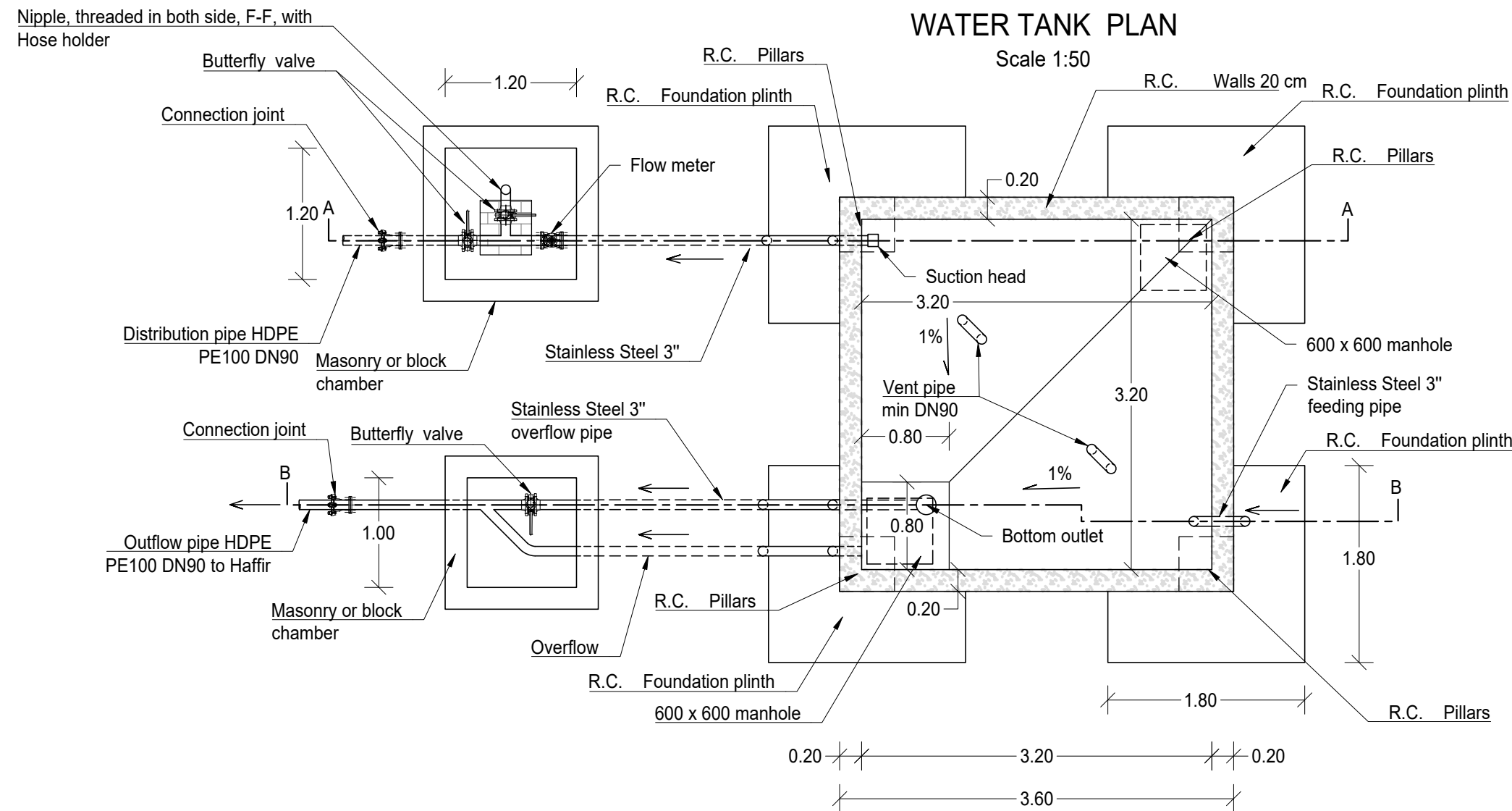


HDPE DAM CROSS SECTION VIEW

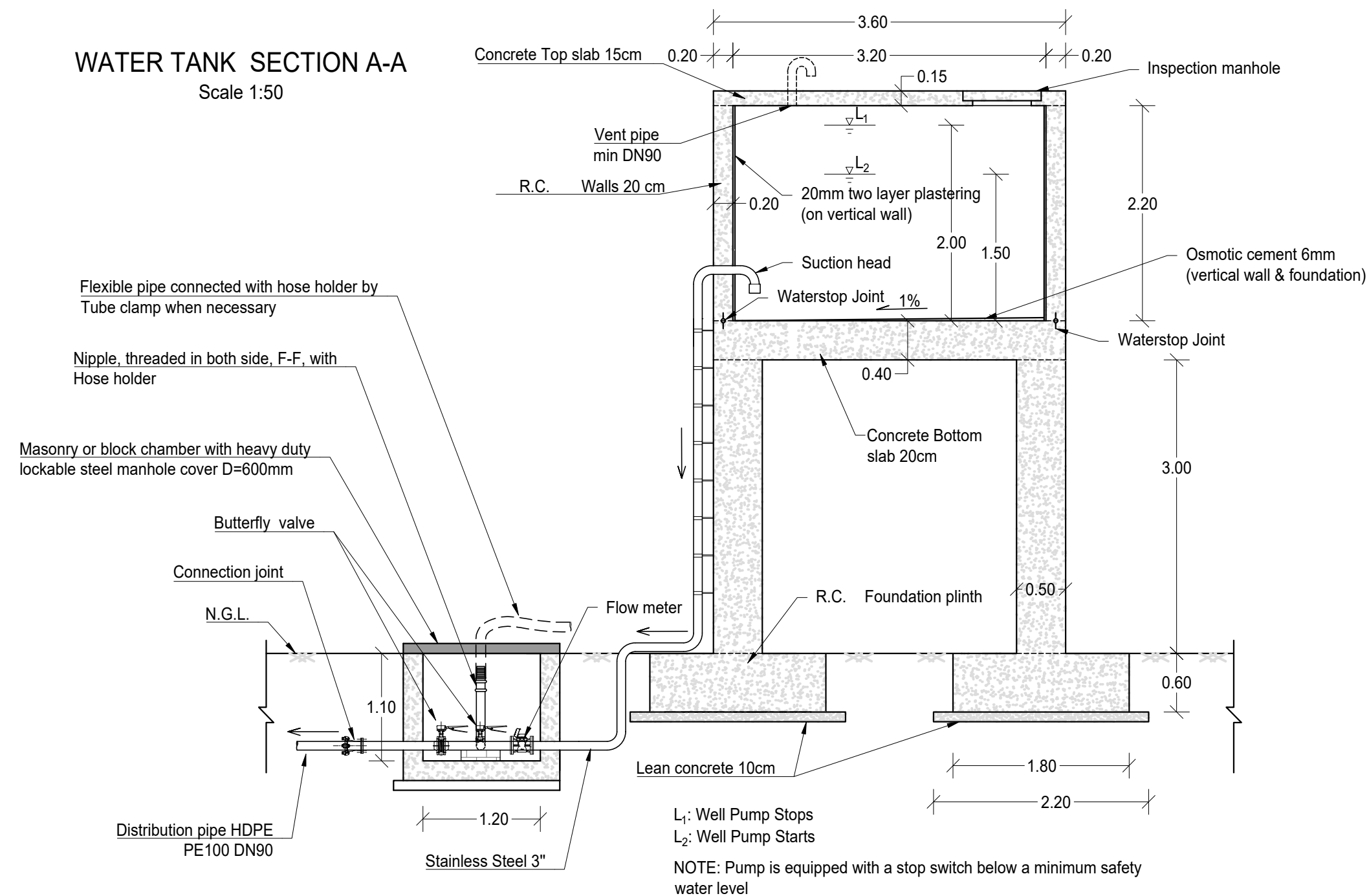


No.	REVISION DESCRIPTION	BY	DATE	NOTES	CLIENT	CONSULTANT	Project:	Somalia Water for Rural Resilience Project 'Barwaaqo'
1	FIRST EMISSION	A.C.	DEC 2023				Site's Name:	HDPE Dam near the village of Boocame
							Drawing's Title:	General plan, Dam Cross Section & Shallow Well
							Drawing's Number:	B - 01

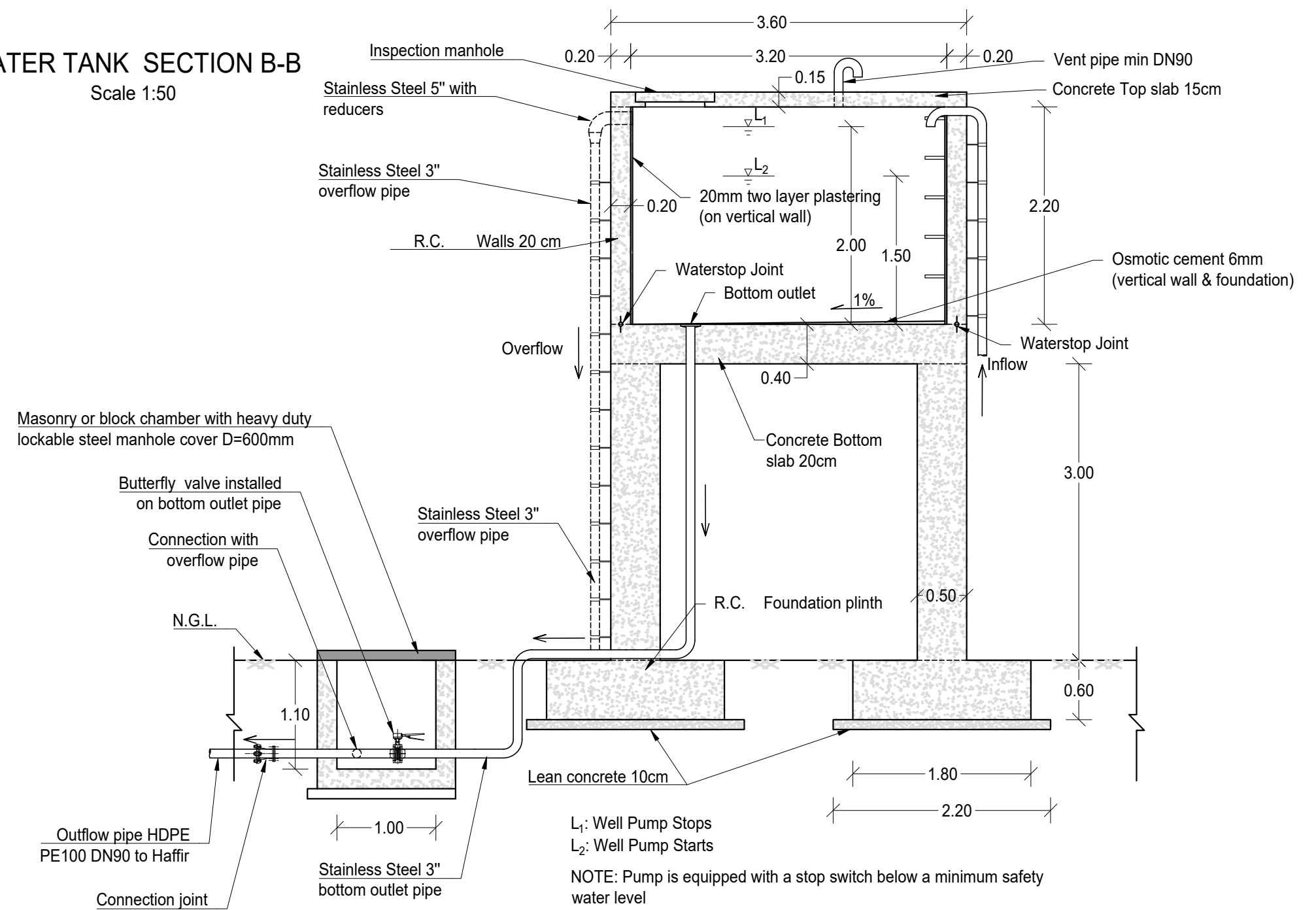




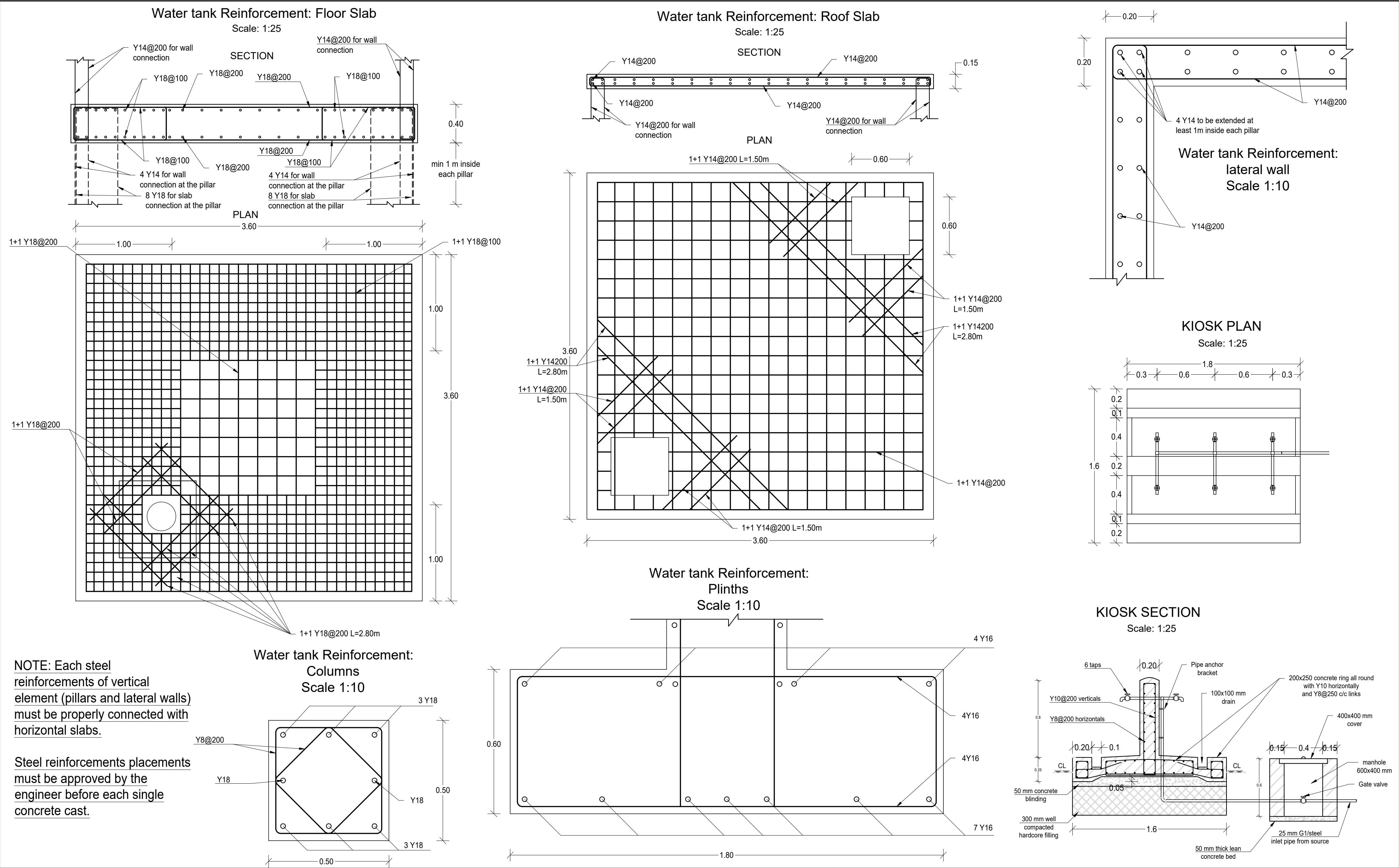
WATER TANK SECTION A-A
Scale 1:50



WATER TANK SECTION B-B
Scale 1:50

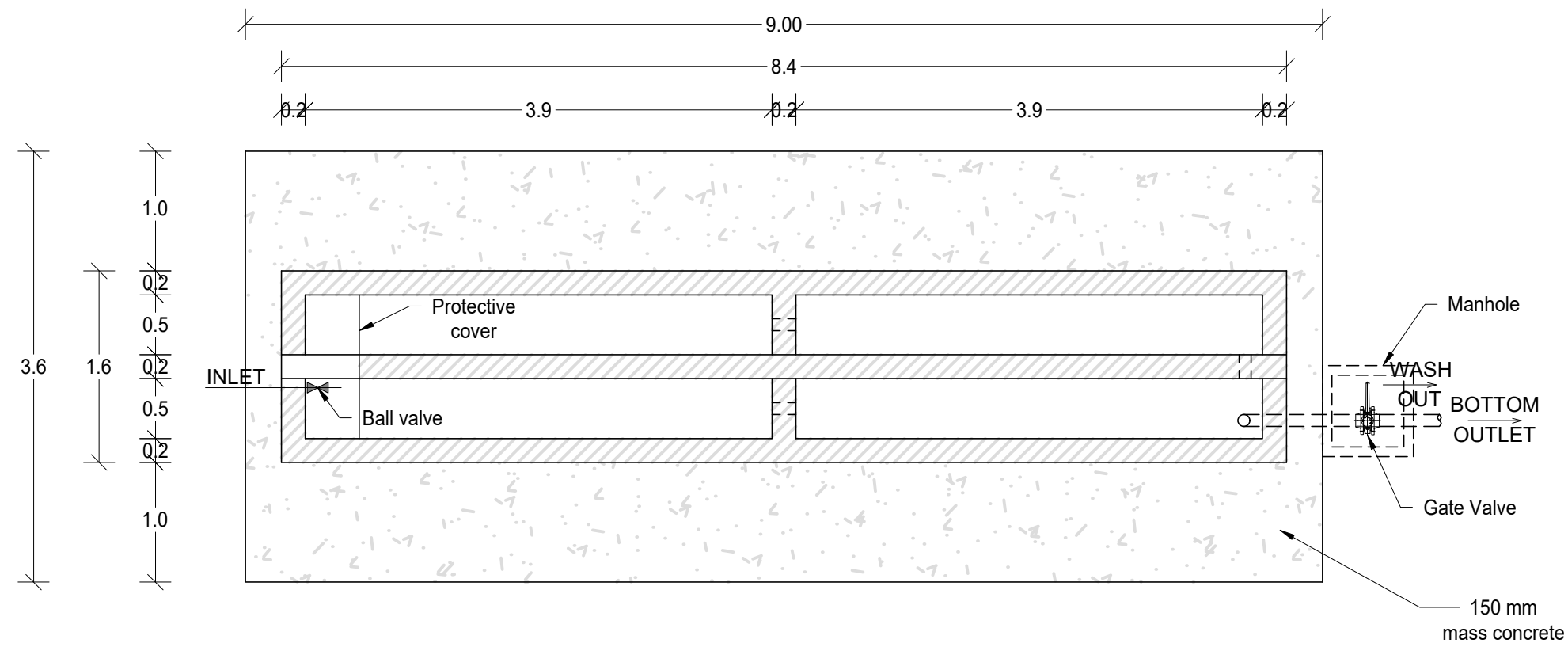


No.	REVISION DESCRIPTION	BY	DATE	NOTES	CLIENT	CONSULTANT	Project:	Somalia Water for Rural Resilience Project 'Barwaaqo'
1	FIRST EMISSION	A.C.	DEC 2023	1. PROVIDE AND INSTALL A FLOW METER AT THE INLET OF THE WATER TANK 2. VENT PIPE MUST BE PROVIDED WITH ANTI-INTRUSION NET	 Federal Government of Somalia, Ministry of Planning, Investment and Economic Development	 HydroNova INNOVATING WATER PROSPERITY Terre Solidali	Site's Name:	HDPE Dam near the village of Boocame
							Drawing's Title:	Water Tank Plan and Section
							Drawing's Number:	B - 03



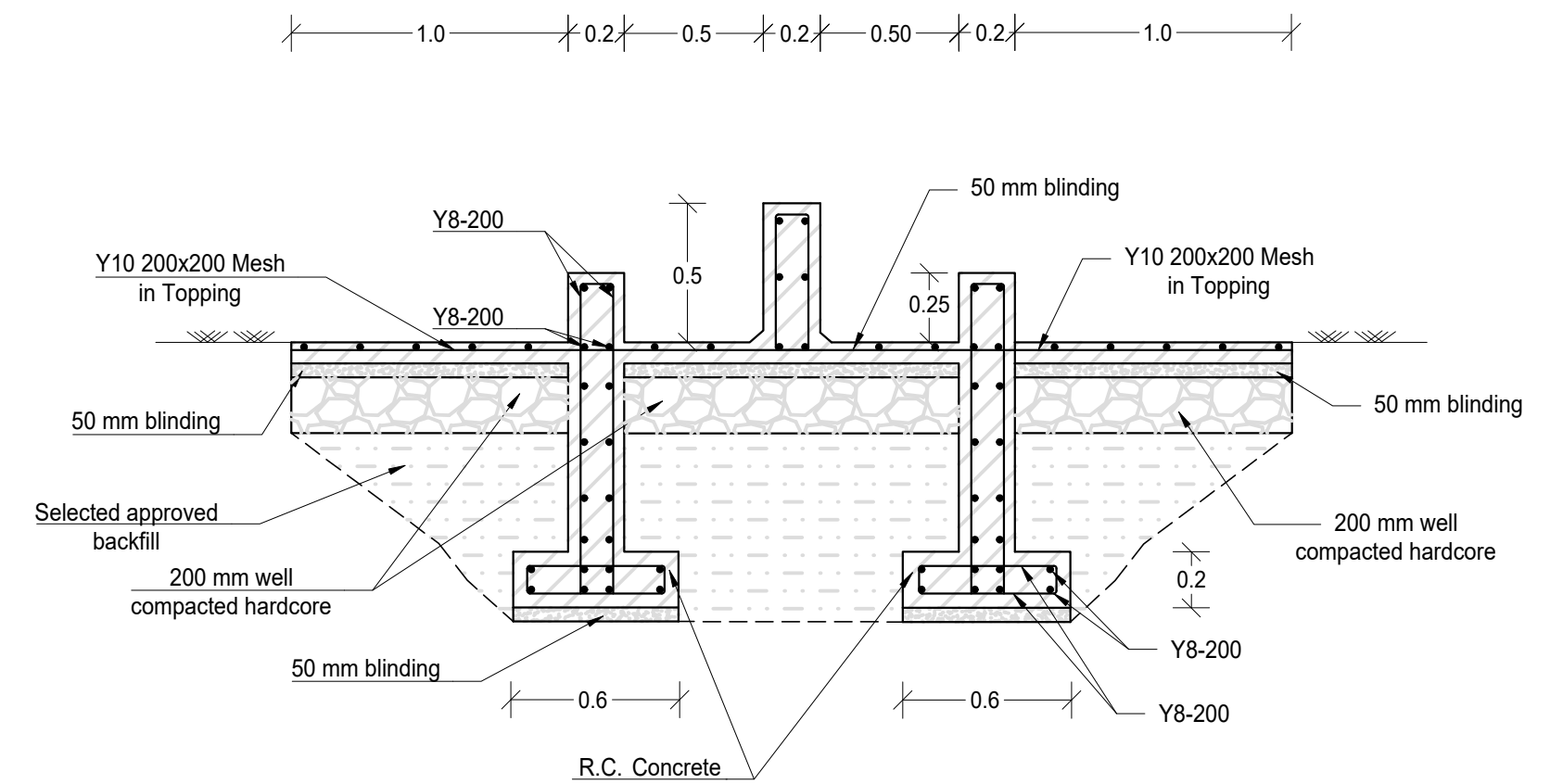
SHOATS WATER TROUGH PLAN

Scale: 1:50



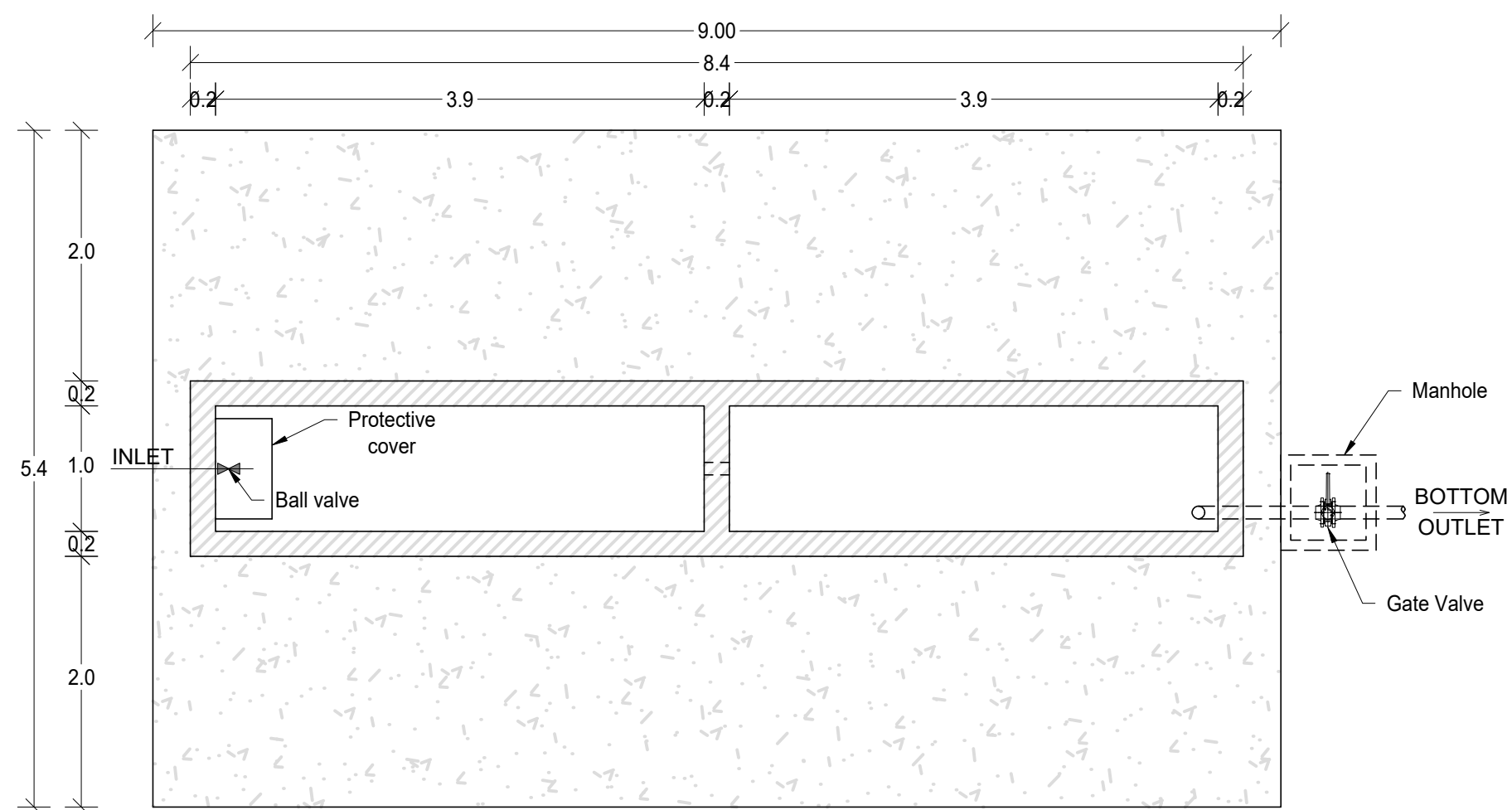
SHOATS TROUGH SECTION

Scale: 1:25



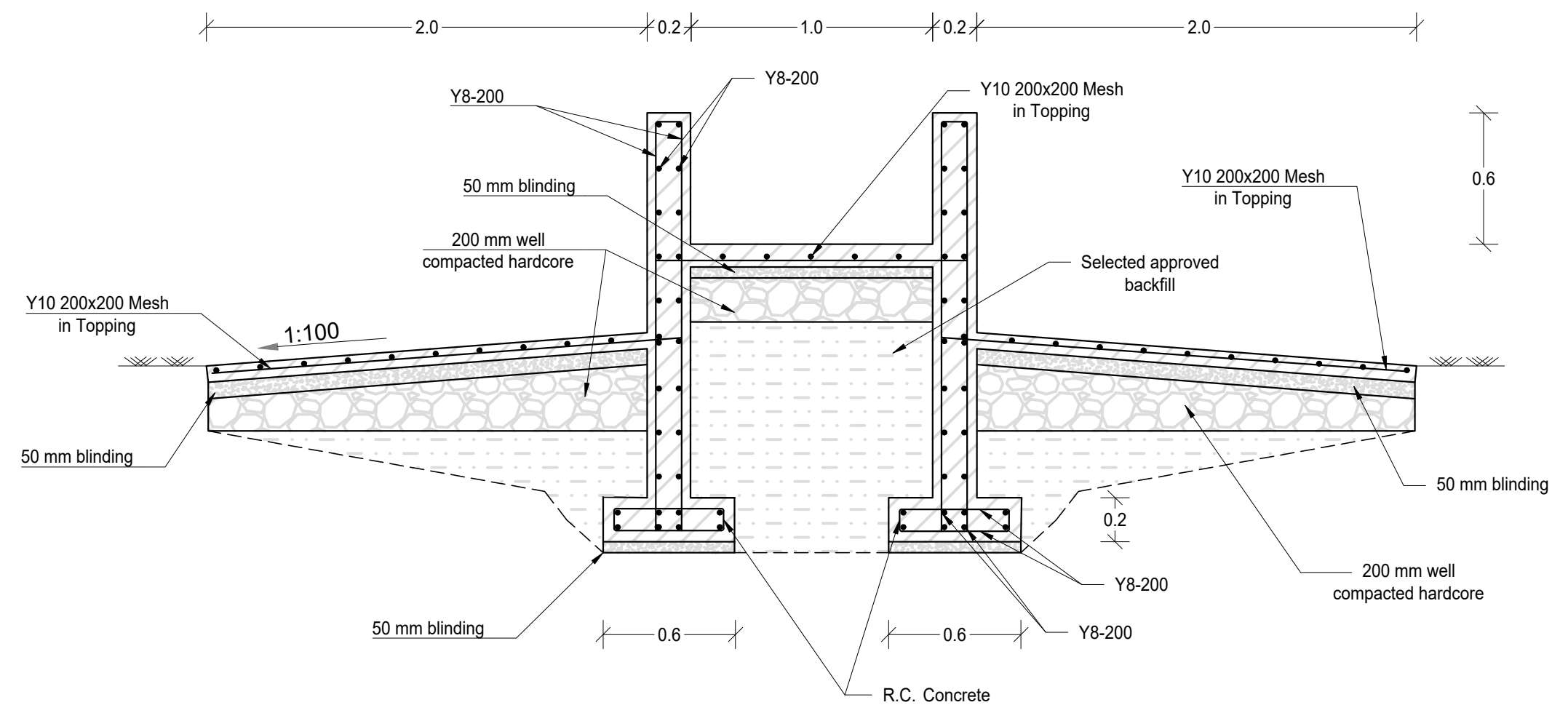
CAMEL WATER TROUGH PLAN

Scale: 1:50

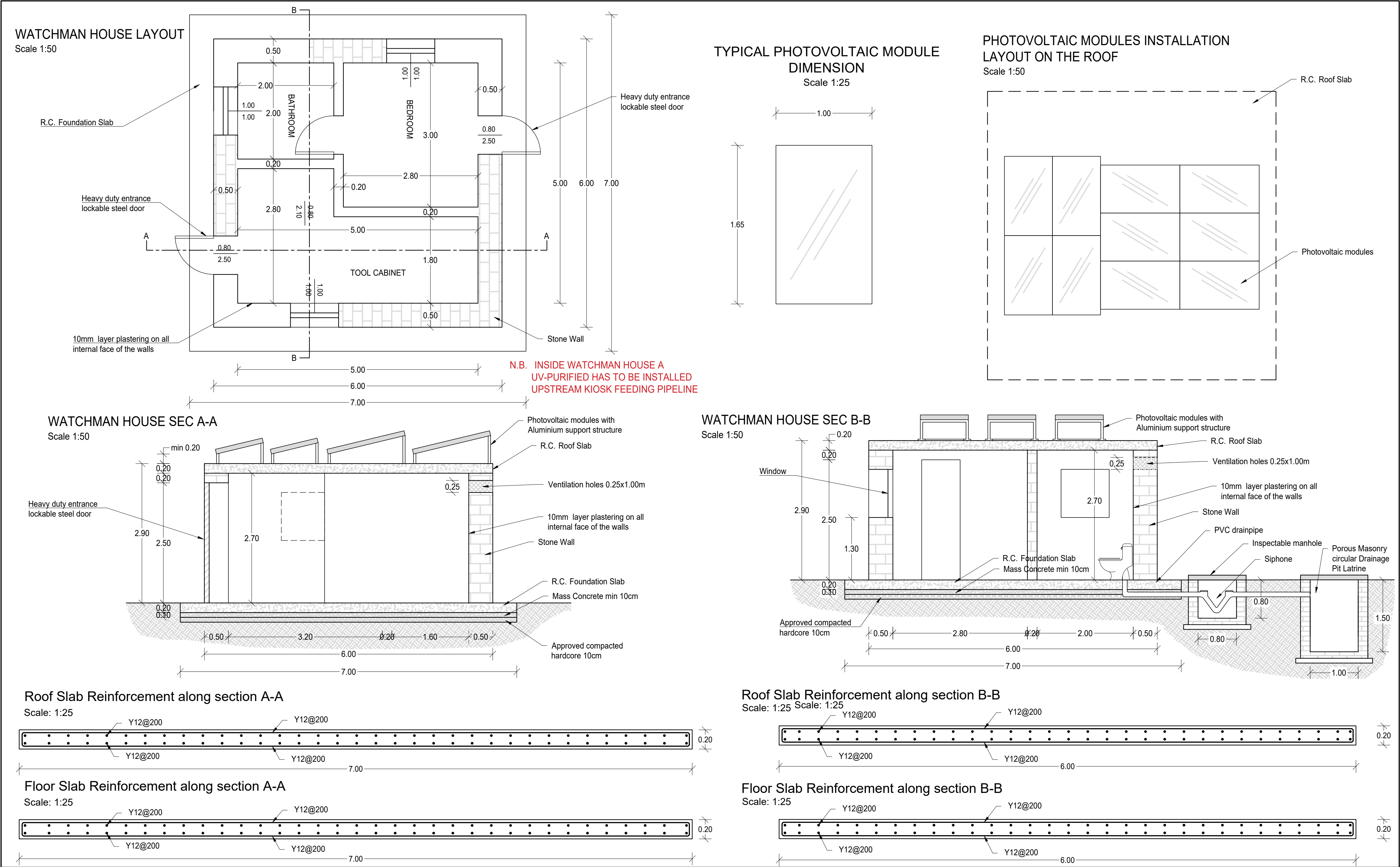


CAMEL TROUGH SECTION

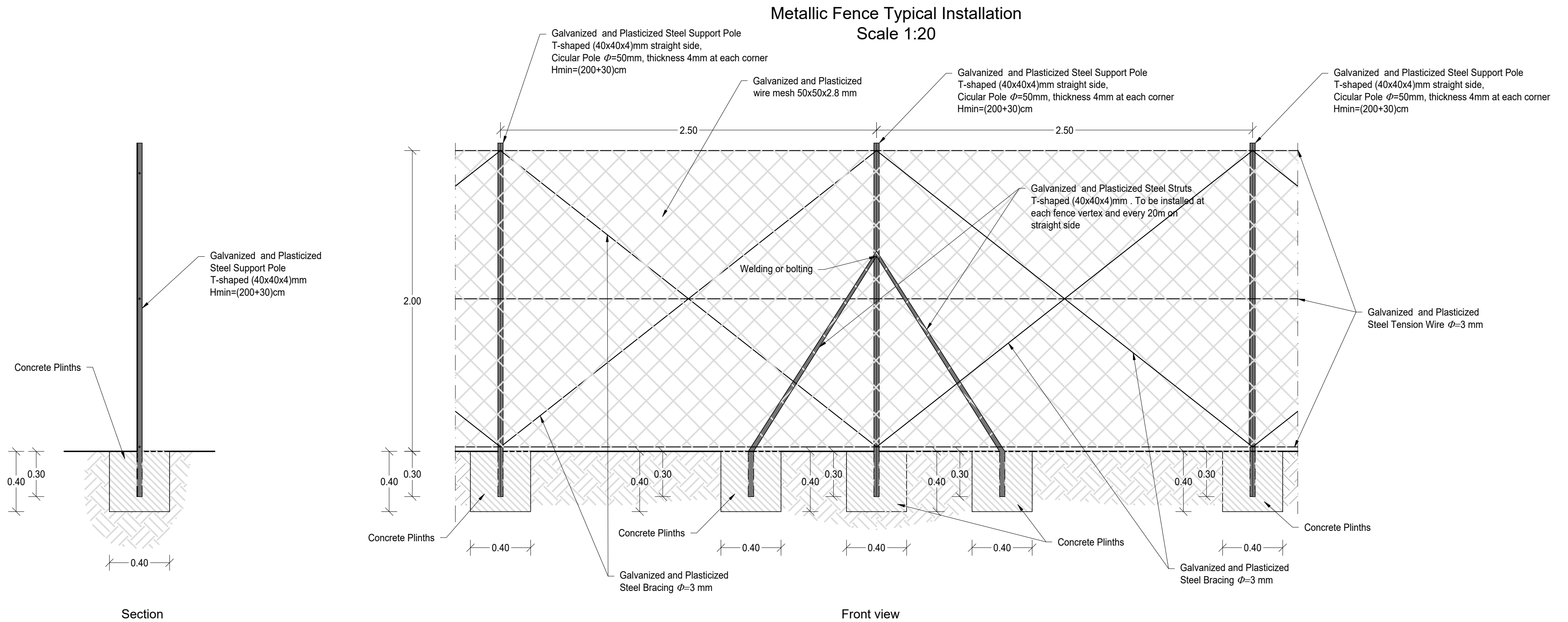
Scale: 1:25



No.	REVISION DESCRIPTION	BY	DATE	NOTES	CLIENT	CONSULTANT	Project:	Somalia Water for Rural Resilience Project 'Barwaaqo'
1	FIRST EMISSION	A.C.	DEC 2023	1.CONCRETE CLASS M25 - MIX RATIO (CEMENT:SAND:COARS AGGREGATE) 1:1:2 - MAX WATER/CEMENT RATIO = 0.45 2. MINIMUM CONCRETE COVER OF THE OF REINFORCEMENT 50mm 3. CONSTRUCTION JOINTS ARE NOT PERMITTED, THE SLABS MUST BE CAST IN ONE TIME. 4.FOR ALL PARTS OF THE REINFORCED CONCRETE STRUCTURE 28 DAY CUBE CHARACTERISTIC STRENGTH OF THE CONCRETE HAS TO BE MINIMUM 25N/mm ² ACCORDING TO CLASS M25 AND ALL REINFORCEMENT SHOULD BE OF CLASS B450C	 Federal Government of Somalia, Ministry of Planning, Investment and Economic Development	 	Site's Name:	HDPE Dam near the village of Boocame
							Drawing's Title:	Shoats & Camel Water Trough Plan and Section
							Drawing's Number:	B - 05



No.	REVISION DESCRIPTION	BY	DATE	NOTES	CLIENT	CONSULTANT	Project:	Somalia Water for Rural Resilience Project 'Barwaaqo'
1	FIRST EMISSION	A.C.	DEC 2023	1. MASONRY WALL SHALL NOT BE CONNECTED TO EITHER THE ROOF SLAB THE WALL SUPPORTING AREA OF THE FLOOR SLAB AS WELL AS THE TOP OF THE WALL SHALL BE TROWEL FINISHED AND BE PAINTED WITH THREE COATS OF BITUMINOUS PAINT. BETWEEN ROOF SLAB AND WALL A TARRED SHEATH 5mm THICK HAS TO BE PLACED 2. THE MASONRY WALL SHALL BE BUILT OF GOOD QUALITY LOCAL BUILDING STONES OR CONCRETE BLOCKS. THE SIZE OF THE STONES SHALL BE: WIDTH NOT LESS THAN 225MM RESP. 300mm; LENGTH BETWEEN 200 AND 300 mm; HEIGHT NOT MORE THAN 150 mm. THE STONES SHALL BE SOAKED IN WATER FOR 24HRS BEFORE BEING BUILT INTO THE PARTICULAR CARE MUST BE TAKEN TO FILL ALL THE JOINTS COMPLETELY WITH MORTAR.(MORTAR MIXTURE 3:1, SAND: CEMENT) 3. CONCRETE CLASS M25 (MIX RATIO 1:1:2) FOR FLOOR SLAB AND ROOF SLAB - MAX WATER/CEMENT RATIO = 0.45 4. MINIMUM CONCRETE COVER OF THE OF REINFORCEMENT 50mm 5. CONSTRUCTION JOINTS, ARE NOT PERMITTED, THE SLABS MUST BE CAST IN ONE TIME. 6. EXTERIOR SURFACE SHALL RECEIVE ONE COAT OF CEMENT WASH. 7. INTERIOR SURFACE OF THE WALLS SHALL BE PLASTERED THICKNESS 10mm WITH MORTAR MIXTURE 3:1(SAND:CEMENT) 8. FOR ALL PARTS OF THE REINFORCED CONCRETE STRUCTURE 28 DAY CUBE CHARACTERISTIC STRENGTH OF THE CONCRETE HAS TO BE 25N/mm2 ACCORDING TO CLASS M25 AND ALL REINFORCEMENT SHOULD BE OF CLASS B450C	Federal Government of Somalia, Ministry of Planning, Investment and Economic Development	 HydroNova Terre Solidali	Site's Name:	HDPE Dam near the village of Boocame
							Drawing's Title:	WatchMan House Plan and Sections
							Drawing's Number:	B - 06



No.	REVISION DESCRIPTION	BY	DATE	NOTES	CLIENT	CONSULTANT	Project:	Somalia Water for Rural Resilience Project 'Barwaaqo'
1	FIRST EMISSION	A.C.	DEC 2023	1.CONCRETE CLASS M25 - MIX RATIO (CEMENT:SAND:COARS AGGREGATE) 1:1:2 - MAX WATER/CEMENT RATIO = 0.45	 Federal Government of Somalia, Ministry of Planning, Investment and Economic Development	 INNOVATING WATER PROSPERITY	Site's Name:	HDPE Dam near the village of Boocame
							Drawing's Title:	Metallic Fence Typical Installation
							Drawing's Number:	B - 07