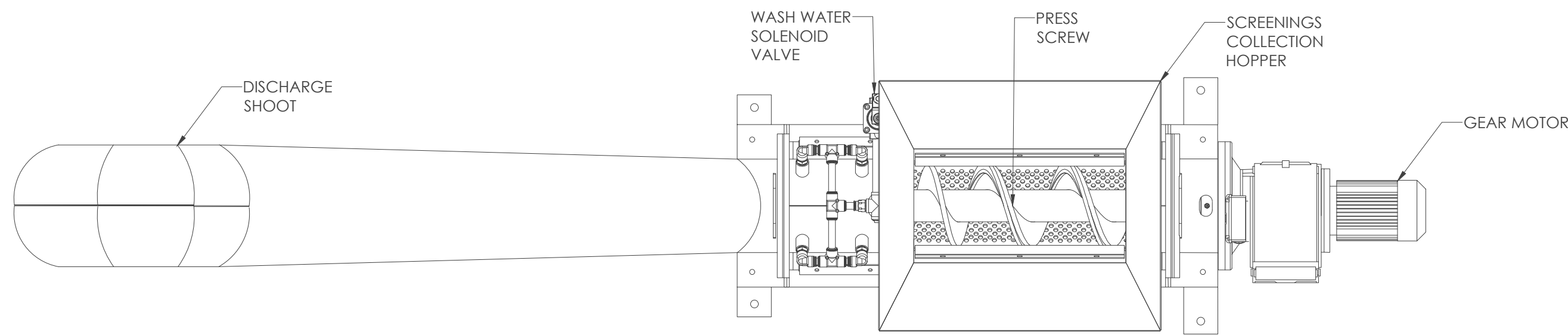


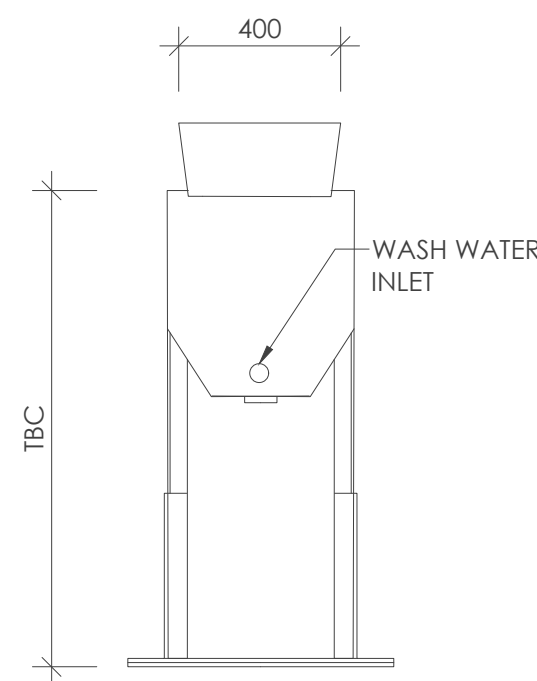
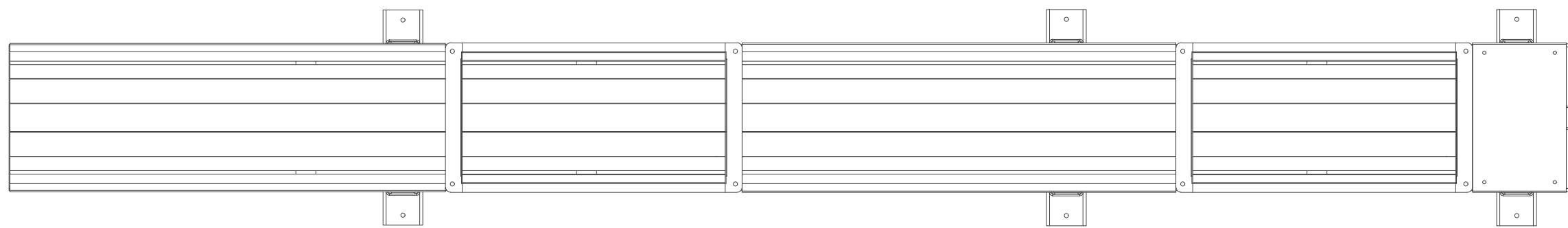
IMPACT SCREW COMPACTOR  
SCALE 1:10



IMPACT SCREW COMPACTOR  
SCALE 1:10



HYDRO-CONVEYOR  
SCALE 1:10



HYDRO-CONVEYOR  
SCALE 1:10

IMPACT SCREW COMPACTOR	
SPECIFICATION	DESCRIPTION & DIMENSIONS (mm)
MATERIAL TO BE COMPACTED	SCREENING WASTE
WET INLET CAPACITY (m³/hour)	3
DRY DISCHARGE CAPACITY (m³/hour)	1,5
DISCHARGE POINT HEIGHT (m)	1500 TBC
INLET POINT HEIGHT (m)	900 TBC
BODY MATERIAL	304 SS
SCREW DIAMETER	245
SCREW MATERIAL	304 SS
DISCHARGE TUBE INCLINATION	45°
DISCHARGE TUBE LENGTH	1500 TBC
WASH WATER FLOW REQUIRED	100 L/min
WASH WATER PRESSURE REQUIRED	6 BAR

HYDRO-CONVEYOR	
SPECIFICATION	DESCRIPTIONS & DIMENSIONS (mm)
CONVEYOR LENGHT	± 2500
INLET HEIGHT FROM FLOOR	1200 TBC
CONVEYOR BODY WIDTH	200
TROUGH DEPTH	200
LINER MATERIAL	10mm UHDPPE WITH WEAR INDICATION
TYPE OF WASTE CONVEYED	SCREENING WASTE
ESTIMATE FEED CAPACITY	1m³ / hr
TROUGH MATERIAL	304 SS

INFORMATION REQUIRED FROM MANUFACTURER PRIOR TO ENGINEER'S APPROVAL	
COMPACTOR	
SPECIFICATION	DESCRIPTIONS & DIMENSIONS (mm)
COMPACTOR TYPE	TBA
MOTOR / GEARBOX	TBA
WEIGHT OF UNIT	TBA
WASH SYSTEM	TBA

FUNCTIONAL DETAIL	
THE HYDRO-CONVEYOR IS A U-TROUGH SYSTEM DESIGNED TO TRANSPORT SCREENING WASTE FROM MECHANICAL SCREENS TO THE WASH COMPACTOR. WASH WATER IS INJECTED THROUGH THE CONVEYOR AT HIGH PRESSURE (AROUND 4 BAR). SCREENINGS DISCHARGED INTO THE CONVEYOR ARE MOVED TO A WASH CHAMBER LOCATED ABOVE A COMPACTION SCREW. A MECHANICAL MIXER WITHIN THE WASH CHAMBER LIQUEFIES THE ORGANICS WITH HIGH PRESSURE WASH WATER (AROUND 6 BAR). FACILITATING THEIR REMOVAL. AFTER WASHING, THE SCREENINGS ARE CONVEYED AND COMPACTED, REDUCING THEIR LIQUID CONTENT TO APPROXIMATELY 50% BY MASS. THE CLEANED SCREENINGS ARE THEN DISCHARGED INTO A SKIP BIN.	

NOTES:

LOCAL MUNICIPALITY: MAP



SPONSOR & REGULATOR: DWS



ISSUED FOR TENDER

0 100 MILLIMETRES ON ORIGINAL DRAWING 50

A BEFORE CONTRACT COMMENCES  
A AFTER CONSTRUCTION CONTRACT HAS COMMENCED

Nr.	DATE	AMENDMENTS

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CLIENT / IMPLEMENTING AGENT



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PROJECT  
TSHIAME WWTW REFURBISHMENT

DRAWING DESCRIPTION  
HYDRO-CONVEYOR AND IMPACT SCREW COMPACTOR INSTALLATION DETAILS

DRAWING NO.	REVISION
10909001-6003	T1

DESIGNED:	AK	CHECKED:	ECSA PR No: 20130658
DRAWN:	EMT	SCALE:	AS SHOWN A1
APPROVED:	ECSA PR No: 20130658	INCEPTION DATE:	SEPT'24
FILE PATH:	SHAREPOINT / BLOEMFONTEIN - 10909001 TSHIAME		
	WWTW / 04 DOC PROC / 04 DRAW		



VIRTUAL  
CONSULTING ENGINEERS

ISSUED FOR TENDER