

REFER TO EPS SPECIFICATION PROPOSAL, REFERENCE SC0002521, 03 JANUARY 2019, FOR PROVIDING THE THE FOLLOWING:

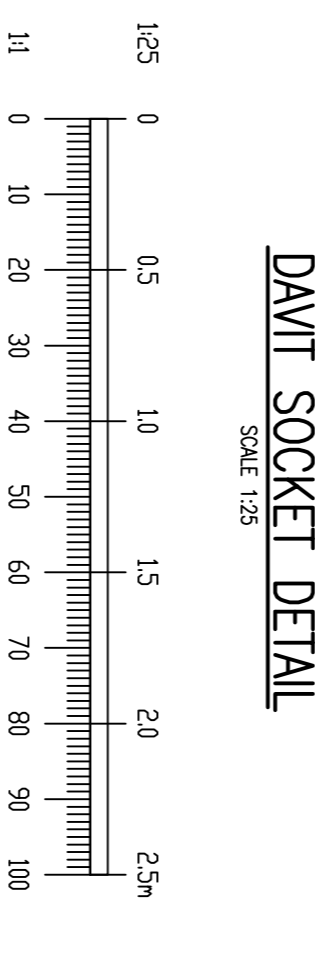
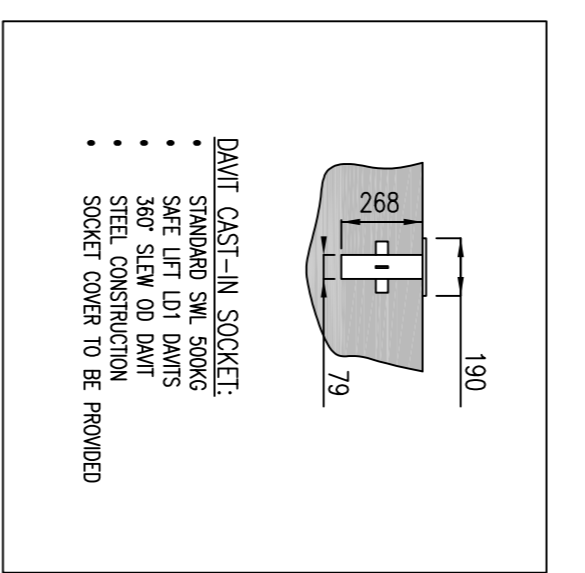
- ITEM NO. 1  
1 NO. DUTY & STANDBY SEWAGE PUMP SET - ALLOWS FOR 2 NO SUBMISSIBLE ATEX RATED VORTEX PUMPS MANUFACTURER: ZENIT VORTEX MODEL: ZUC-Y100S-3-4M-EX OUTLET: 100 MM SOLIDS: 100 MM MOTOR DETAILS: E3, 3 KW 400V/ 3 PHASE / 50 HZ / 6 AMPS
- ITEM NO. 2  
2 NO. 4" AUTO-COUPLING SETS TO ALLOW FOR EASY REMOVAL OF PUMPS FROM WETWELL FROM ABOVE. GUIDE RAILS AND STAINLESS STEEL LIFTING CHAIN WITH LIFTING D/E EVERY METER RATED TO SWL > 2 TIMES PUMP WEIGHT OR 500KG WHICHEVER IS GREATER.
- ITEM NO. 3  
1 NO. SET OF BLACK BRUNER COATED 4" DUCTILE IRON PENWORK IN WETWELL 3 NO. C/S1-FROM GATE AND 2 NO. NON-RETURN VALVES (100 MM), REMAINING TO THE NEW HPE S017/ 4" MAN.
- ITEM NO. 4  
1 NO. FORM 2 WALL MOUNTED ELECTRICAL CONTROL PANEL TO CURRENT IW SPEC. TO INCLUDE FOR DUTY / STANDBY OPERATION OF THE PUMP SET C/W AUTO CHANGEOVER ON CYCLE AND PUMP TRIP PANEL C/W 32AMP 3PHASE GENERATOR SOCKET AND 3 POSITION ISOLATOR SWITCH. MAIN MCC ENERGY MONITOR ON INCOMER, SEPARATE COMPARTMENTS FOR COMMON CONTROLS (INCL. PLC & HMI), TELEMETRY (PLC, HMI & MAIN FREE ISSUE BY IW/FINOLA CO) AND PFC.
- ITEM NO. 6  
1 NO. ULTRASONIC LEVEL CONTROL SYSTEM UNIT COMPLETE WITH XRS-5 SWMP MOUNTED EX-RATED SENSOR HEAD - CALIBRATED TO READ UP TO 8M DEEP SWMP. PANEL DOOR MOUNTED CONTROL UNIT C/W LEO SCREEN.
- ITEM NO. 7  
1 NO. DUTY MAGNETIC FLOWMETER SUITABLE FOR RAW SEWAGE - WALL MOUNTED CONTROL UNIT C/W LEO SCREEN SHOWN INSTANTIANEOUS AND TOTALISED FLOW.
- ITEM NO. 8  
1 NO. 50KG SW. PORTABLE LIFTING DAWIT & FLUSH FINISHED O/S IN SOCKET UNIT TO ALLOW FOR EASY REMOVAL OF PUMPS AND EQUIPMENT FROM WET WELL - WHEN USED IN OPERATIVES CERTIFIED BLOCK AND TACKLE SET.
- ITEM NO. 9  
LOCAL MSG MAN-FILLER AT SWMP C/W JUNCTION BOXES TO ALLOW FOR LOCAL PUMP DISCONNECT - TO INCLUDE FOR LOCAL ISOLATORS AND E-TOPS (TO ENABLE PUMP REMOVAL FROM SWMP/ SITE WITHOUT THE NEED OF AN ELECTRICIAN).
- ITEM NO. 10  
1 NO. TOWAY BAUER CONNECTOR IN VALVE CHAMBER. INCLUDES FOR 4" MALE-END BAUER HOSE CONNECTOR, DI TEE PHE C/W ISOLATION VALVE. UNIT SUITABLE FOR CONNECTION BY SLUDGE JET W/C TANKER.
- ITEM NO. 11  
1 NO. GPR CONTROL KOSK C/W ANTI-CONDENSATION HEATER AND LIGHT. DIMENSIONS: 2.5 M LONG X 2.1 M HIGH X 1.2 M DEEP. SEPARATE COMPARTMENT FOR THE FIRE-HOSE REL. WASH-HAND BASIN AND WATER HEATER.
- ITEM NO. 12  
1 NO. 6MM PERFORATED BOX OVERFLOW SCREEN WITHIN WETWELL ON TANK(S).
- ITEM NO. 13  
1 NO. SANITATION SET TO INCLUDE FIRE HOSE REEL REQUIRED FOR THE WASHING DOWN OF PUMPS, HANDWASH BASIN C/W HOT/COLD TAPS AND WATER HEATER.
- ITEM NO. 14  
1 NO. 1400 X 800MM LIFT ASSIST, MEGALY LOCKABLE SAFETY ACCESS COVER FOR THE PUMPING CHAMBER. 1 NO. 1000 X 1000MM FOR THE VALVE CHAMBER AND 1 NO. 600 X 600MM FOR THE FLOWMETER CHAMBERS. ALL COVER TO C250 LOAD RATED STANDARD.
- ITEM NO. 15  
1 NO. ISOLATION VALVE C/W EXTENSION SPINDLE TO ISOLATE THE MAIN GRANTY INLET TO THE WET WELL INSTALLED IN F5 INLET MH. UNIT C/W EXTENSION SPINDLE TO GROUND LEVEL - FINISHED WITH SURFACE MOUNTED 4" FLUSH FITTED "BISHOP'S HAT" COVERS AND CAP TORS TO SUIT HORIZONTAL KEY HAND SPINDLE. NEW FLAP VALVES ALLOWED AT RETURN FROM OVERFLOW TANK(S).
- ITEM NO. 16  
1 NO. STAINLESS STEEL 4" SWMP VENT IN WHICH THERE WILL BE SITE LIGHTING ALSO MOUNTED.
- ITEM NO. 17  
1 NO. MECHANICAL / ELECTRICAL INSTALLATION AND COMMISSIONING.
- ITEM NO. 19  
PROVISION OF ALL REQUIRED CONTRACT INSURANCES, HAS DOCUMENTATION, INDUCTIONS ON SITE, PERMITS TO WORK, PROJECT SUPERVISION, PROJECT MANAGEMENT, CLIENT LIAISON, DESIGN, APPROVALS OAKS, AS BUILT DIMS AND TRAINING.
- ITEM NO. 20  
MINIMUM OF 3-MONTH MAINTENANCE CONTRACT BY APPLICANT WITH EPS POST COMMISSIONING - TBC BY IW.
- ITEM NO. 21  
1 NO. (EPS TO INCLUDE IN TENDER) 1 NO. 1000 X 1000 X 1000MM FROM TANK STORAGE TO WET WELL TO ALLOW FOR ISOLATION OF WET WELL FROM TANK STORAGE CAPACITY WITHIN THE FOUL SEWER AND MANHOLES UPSTREAM IS NOT SUFFICIENT DUE TO STEEP GRADES. WET WELL ISOLATION PROVIDED TO GIVE SUFFICIENT TIME FOR WET WELL MAINTENANCE. IW TO COMMENT ON ACCEPTABILITY OF PROPOSAL.
- ITEM NO. 22  
ACCESS TO STORAGE TANK REQUIRED TO HAVE IT NEAR WHERE MOST LIKELY MAINTENANCE IS NEEDED. ADJACENT TO WET WELL WALL. W TO COMMENT ON ACCEPTABILITY OF PROPOSAL.

NOTES:  
1. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.  
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS.

PUMPING STATION NOTES:  
1. FOR REINFORCED CONCRETE DRAWINGS REFER TO CXXX

2. FORMATION TO TANKS TO BE TESTED PRIOR TO INSTALLATION.
3. MIN GRV VALUES OF 5% TO BE ACHIEVED FOR COMPOUND.
4. ALL FILL MATERIAL TO BE APPROVED BY ENGINEER - CLASS 6/1 COMPACTED IN LAYERS TO SPECIFICATION AS PROVIDED AT MINIMUM.
5. CONTRACTOR TO APPLY FOR BROAD CONNECTION.
6. CONTRACTOR TO APPLY FOR POWER CONNECTION.
7. CONTRACTOR TO PROVIDE PORTABLE LIFTING DAWIT SWL 500kg.
8. CONTRACTOR TO PROVIDE EXTRA PUMP AND LEAVE WITH IRISH WATER.
9. RISING MAIN TO BE 100mm Ø PE 150 SDR17 OR SIMILAR APPROVED. RISING MAIN ACROSS BRIDGE STRUCTURE OVER TOKLA TO BE DUCTILE IRON SURROUNDED IN 150mm CONCRETE AS PER IRISH WATER STD-WM-23.
10. DAWIT LIFTING ARM TO BE PROVIDED.

TOTAL VOLUME OF EFFECTIVE STORAGE AT PUMPING STATION COMPOUND OVERFLOW LEVEL AT 31.40m.	ELEMENT	VOLUME
PUMP SWMP	17.6m³	
TANK	94m³	
DRAINAGE NETWORK STORAGE PROVIDED	111.6m³	
LESS SCORED	6.5m³	
NET TOTAL STORAGE	105.1m³	



Ordnance Survey Ireland Licence No. EN 0006021 Cordance Survey Ireland (Government of Ireland).	
REV. DATE	AMENDMENT
A 01/21	REMOVED FOR FINAL SUBMISSION
REV. DATE	AMENDMENT
DRN	APPD

**Waterman Moylan**  
Engineering Consultants  
BLOCK 5, EASTPOINT BUSINESS PARK, ALTHE BRINE ROAD,  
DUBLIN D03 H9F4 IRELAND. TEL: (01) 964 8600  
Email: info@watermanmoylan.ie www.watermanmoylan.ie

**KINNEST LTD.**  
CONROY CROWE KELLY ARCHITECTS  
ALBURN, MALAHIDE, CO. DUBLIN

DESIGNED	APPROVED	DATE
MD	MD	JUN '20
LOG NO.	DRG. NO.	REVISION
12000 @ A1	19-020	A