

250 THICK REINFORCED CONCRETE ROOF SLAB

1500x900 HINGED AND LOCKING ACCESS COVER AND FRAME. ALL TO SOUTHERN WATER REQUIREMENTS

2400x1800 HINGED AND LOCKING ACCESS COVER AND FRAME. ALL TO SOUTHERN WATER REQUIREMENTS

GL 2.30

GL 2.30

1200 $\varnothing$  PC MANHOLE (REF: S12). REFER DWG 6707-6250 FOR DETAILS

150 $\varnothing$  PENSTOCK WITH NON-RISING TEE KEY OPERATED SPINDLE

CONCRETE BACKING FOR PENSTOCK FIXING

150 $\varnothing$  FOUL INLET PIPE

IL -0.495

MH. F12

2100 DIAMETER

WET WELL

250 THICK REINFORCED CONCRETE BASE ON 75 CONCRETE BLINDING

VALVE CHAMBER

CHECK VALVE

GATE VALVES

0.955

100 $\varnothing$  UPVC DRAIN PIPE

0.755

0.805

0.705

100 $\varnothing$  FLAP VALVE

GRAVITY DRAIN TO WET WELL

PRECAST CONCRETE CHAMBER SECTIONS

PUMP GUIDE RAILS

SUBMERSIBLE SEWAGE PUMPS

STOP LEVEL -2.248

ASSIST LEVEL -1.338

HIGH LEVEL ALARM LEVEL -1.045

START LEVEL -1.630

500

0.545

MINIMUM 200 MM GRADE GEN3 CONCRETE SURROUND

BENCHING 60' MINIMUM SLOPE

250 THICK REINFORCED CONCRETE BASE ON 75 CONCRETE BLINDING

2.36

85.900

2.34

0.505

200 $\varnothing$

67 ID.

COVER PLATE

LOCATION PEGS

270

ADAPTABLE FOUL WATER PUMPING STATION:  
PUMPS AND CONTROLS, ETC. AS EDICARE PUMPS OR SIMILAR. INCLUDE FOR STANDBY + DUTY PUMPS, 0.985m HEAD, 8.35 l/s FLOW, 156m OF 90 $\varnothing$  (O/D) MDPE PUMPING MAIN, 3 PHASE SUPPLY, AND CONTROL PANEL, ETC. ALL INSTALLED TO SOUTHERN WATER ADAPTABLE STANDARDS AND MANUFACTURERS RECOMMENDATIONS AND DETAILS.

STORAGE REQUIRED FOR PUMPING STATION:

PROPOSED FLOW RATE =  $8.35 \text{ L/s}$ , STORAGE REQUIRED FOR 1 HOUR PEAK FLOW =  $8.35 \times 60 \times 60 = 30.06\text{m}^3$

HIGHEST CONNECTED DRAIN LATERAL IN = 1.500 (TBC)

LOW LEVEL WET WELL ALARM = -1.045 (TBC)

VOLUME IN WET WELL =  $(1.500 - (-1.045)) \times 1.05 \times 1.05 \times 3.142 = 8.82\text{m}^3$

VOLUME IN MH2, F4, F3, F5, F6, F8, F9, F10, F11, F11A, F12 =  $14.37\text{m}^3$

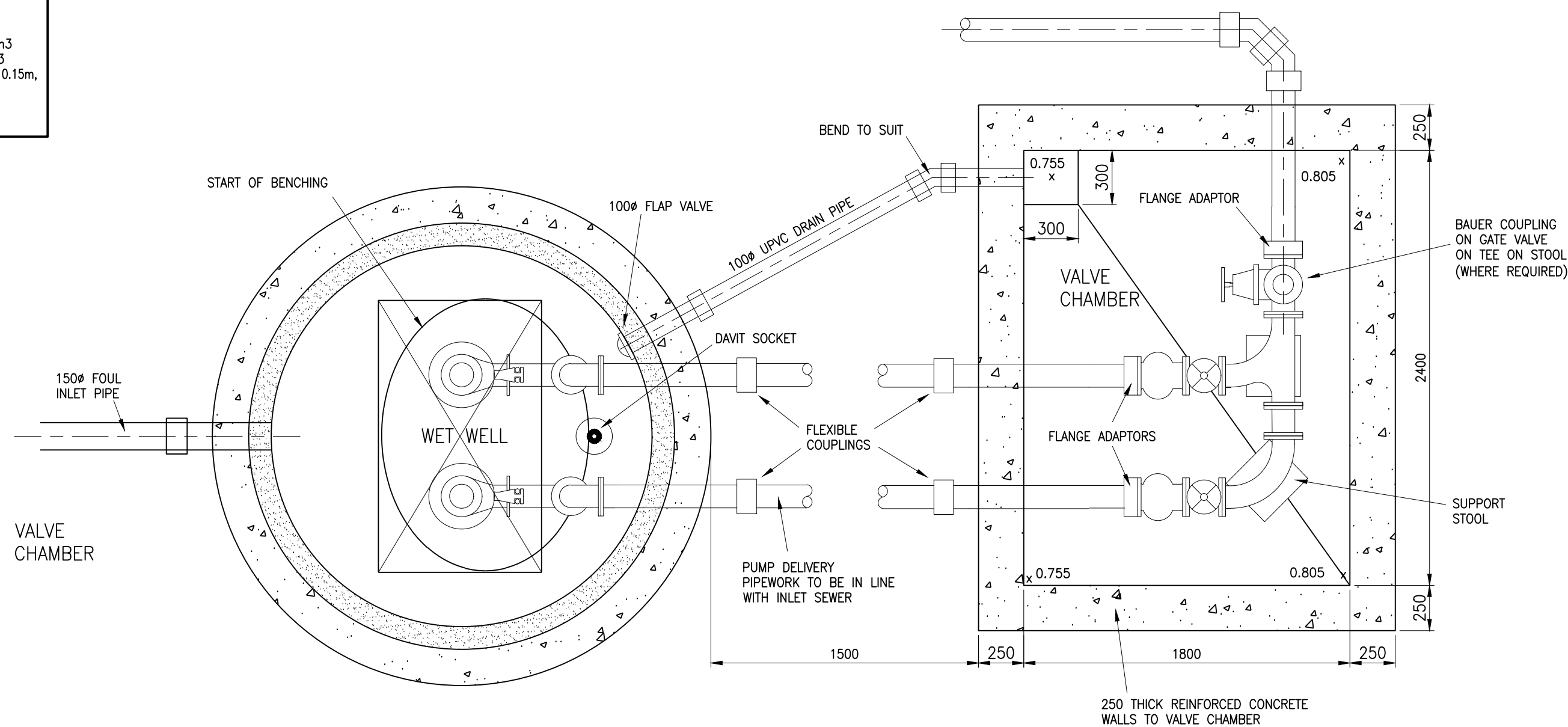
STORAGE WITHIN ADJACENT PIPING, SEWER PIPE LENGTH 493m2, PIPE DIAMETER 0.15m,

STORAGE  $(14.37 \times 0.42 \times 0.75 \times 0.75 \times 93) = 8.82\text{m}^3$

TOTAL STORAGE PROVIDED =  $8.82 + 14.37 + 8.71 = 31.9\text{m}^3 \times 30.06\text{m}^3$

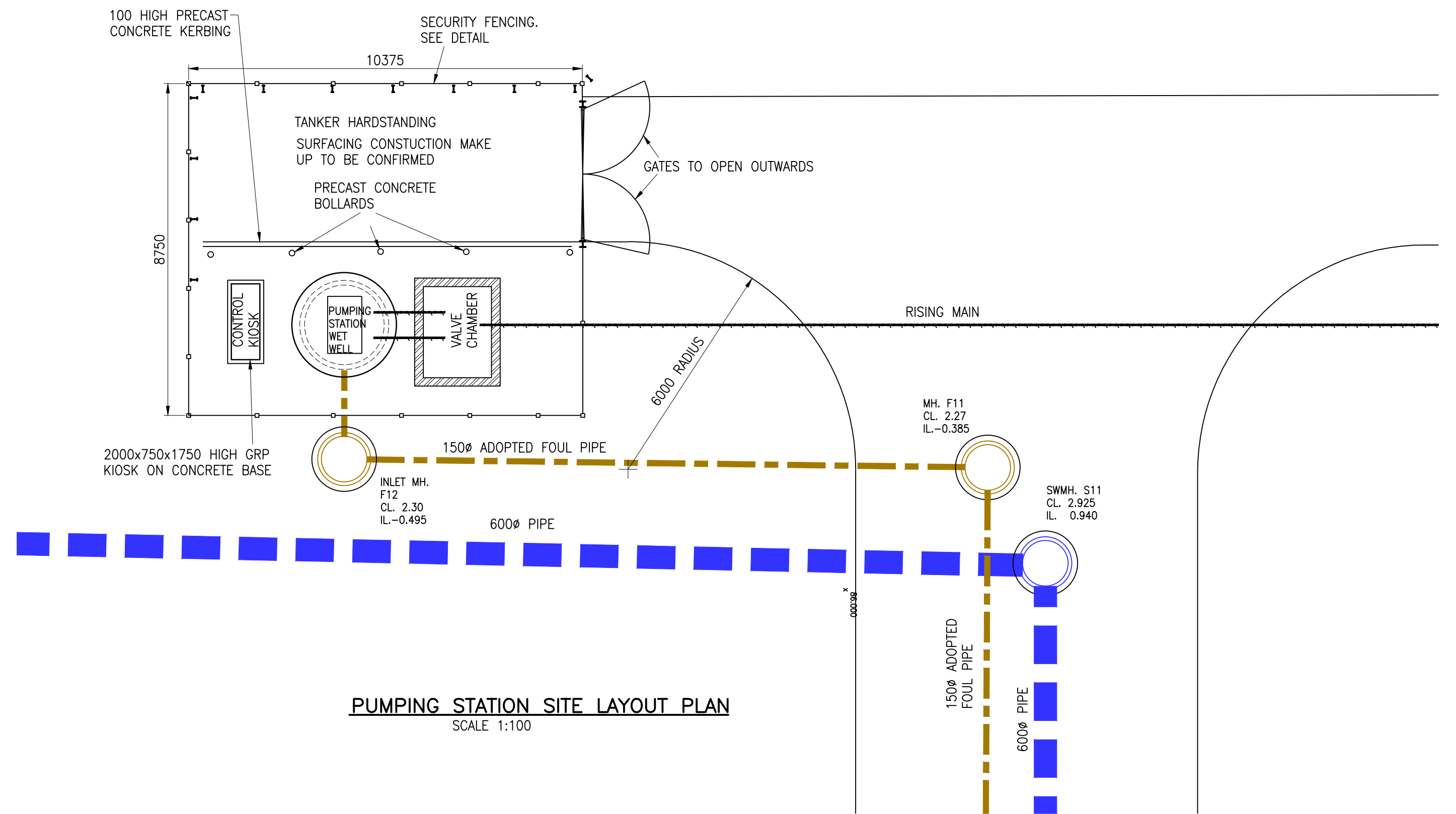
THEREFORE STORAGE PROVIDED IS ADEQUATE

### DETAIL-500KG DAVIT SOCKET

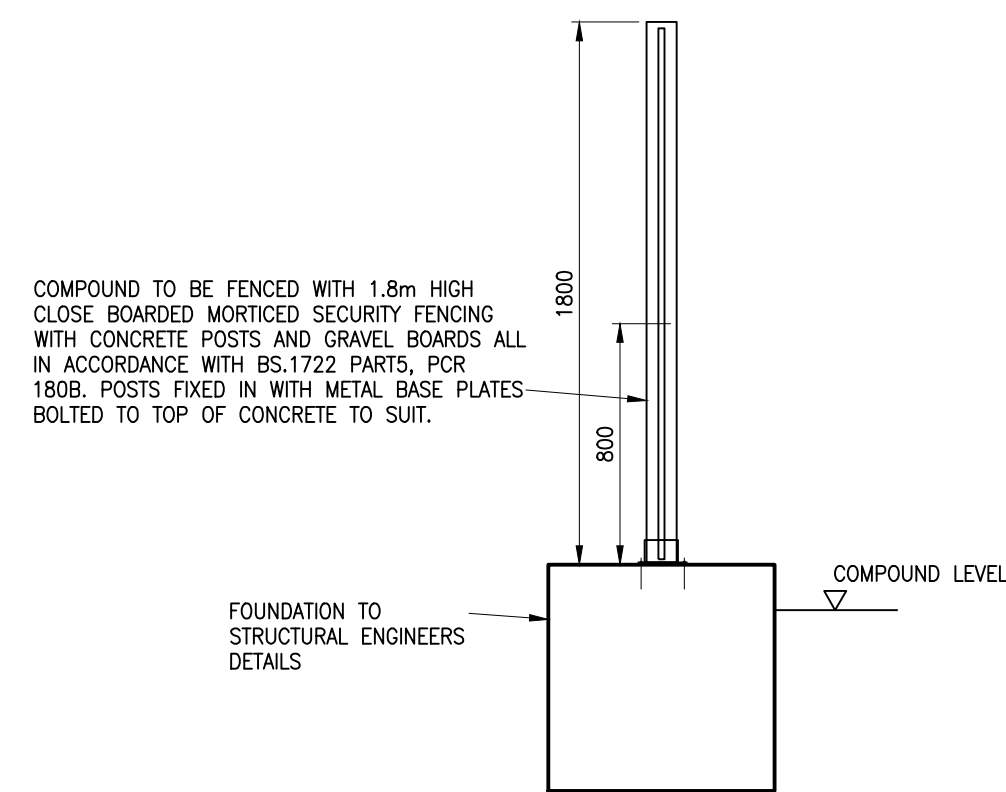


## PUMPING STATION AND VALVE CHAMBER DETAILS

NOTE:  
THE PUMPING STATION WET WELL, VALVE CHAMBER AND SITE LAYOUT  
TO BE DESIGNED IN ACCORDANCE WITH SEWERS FOR ADOPTION (7th  
EDITION) AND TO SOUTHERN WATERS REQUIREMENTS



PUMPING STATION SITE LAYOUT PLAN  
SCALE 1:100



VEHICLE CONTAINMENT  
BARRIER SECURITY  
FENCING DETAIL

SCALE 1:25

|     |                   |  |     |     |          |
|-----|-------------------|--|-----|-----|----------|
| P1  | ISSUED FOR TENDER |  | DO  | KN  | 04.01.19 |
| Rev | Description       |  | Rev | Chk | Date     |

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|                |                                    |
|----------------|------------------------------------|
| Client:        | LANDLINK ESTATES                   |
| Architect:     | MOUNTFORD PIGOTT                   |
| Project:       | SALTBOX SITE<br>BOGNOR REGIS       |
| Drawing Title: | PHASE 1<br>PUMPING STATION DETAILS |

|        |            |         |             |        |
|--------|------------|---------|-------------|--------|
| Drawn: | Chkd/Appd: | Date:   | Sheet Size: | Scale: |
| DO     | KN         | NOV '18 | A1          | N.T.S  |

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| KSA Project Number: | Sub: | Revision: |
| 6090                | D2   | P1        |

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|-----------------------------------|-------------|-------|--------|-------|-------|---------|
| Project:                          | Originator: | Zone: | Level: | Type: | Role: | Number: |
| SBX- KSA- Z0 - XX - DR - C - 6254 |             |       |        |       |       |         |