

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Drawing Number TRA/3210/LA/42946

DO NOT SCALE - IF IN DOUBT ASK

THIRD ANGLE PROJECTION UNLESS OTHERWISE STATED

Table 1: De-watering Borehole Installation Summary

(m bgl)	BH1	BH2	BH3	BH4	BH5
Top of gravel pack	3.0	3.0	3.0	3.0	2.5
Top of screen	3.0	3.0	3.0	4.0	3.0
Top of fractured rock	5.5	5.0	Not identified	Not identified	5.5
Top of competent rock	6.0	6.0	6.0	5.0	Not identified*
Pump intake	6.2	6.2	6.2	6.2	6.2
Base of screen and borehole	7.5	7.5	7.5	7.5	6.2

Table 2: Hourly Average Flow Rate Observed

Summary October 23 to October 24	Abstraction Rate m3/hr
Winter Average	5.7
Summer Average	3.2

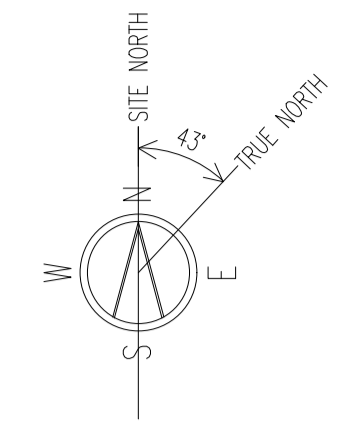
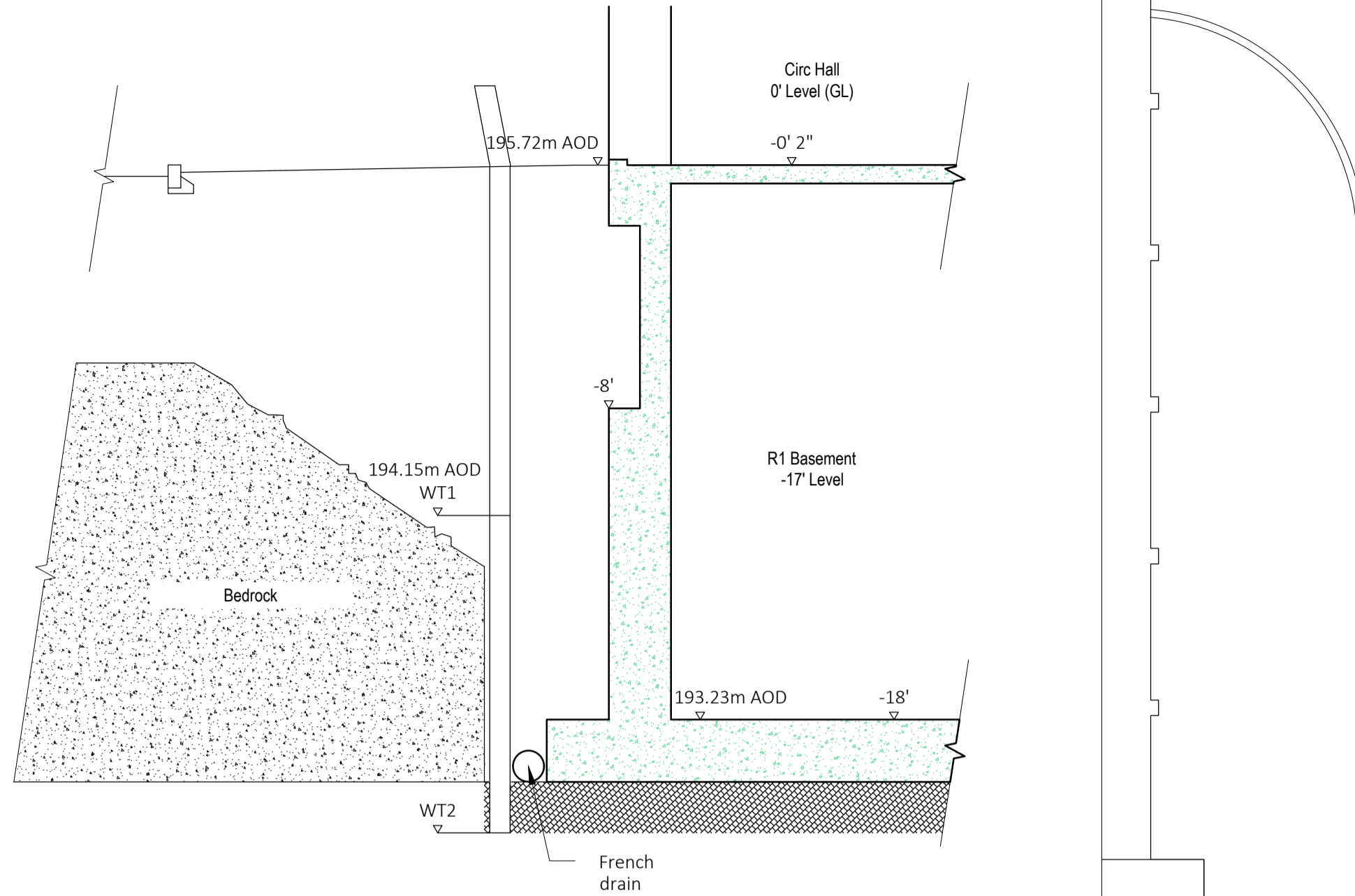
**KEY**

WT1 WATER TABLE PRE DE-WATERING

WT2 WATER TABLE DURING DE-WATERING

DE-WATERING PIPEWORK & FLOW DIRECTION

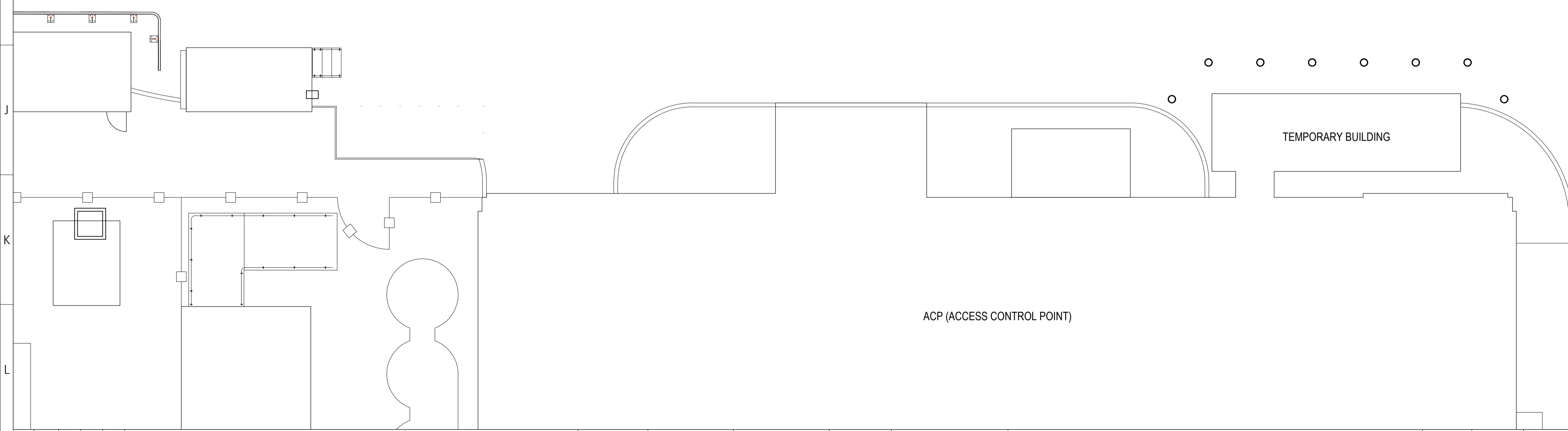
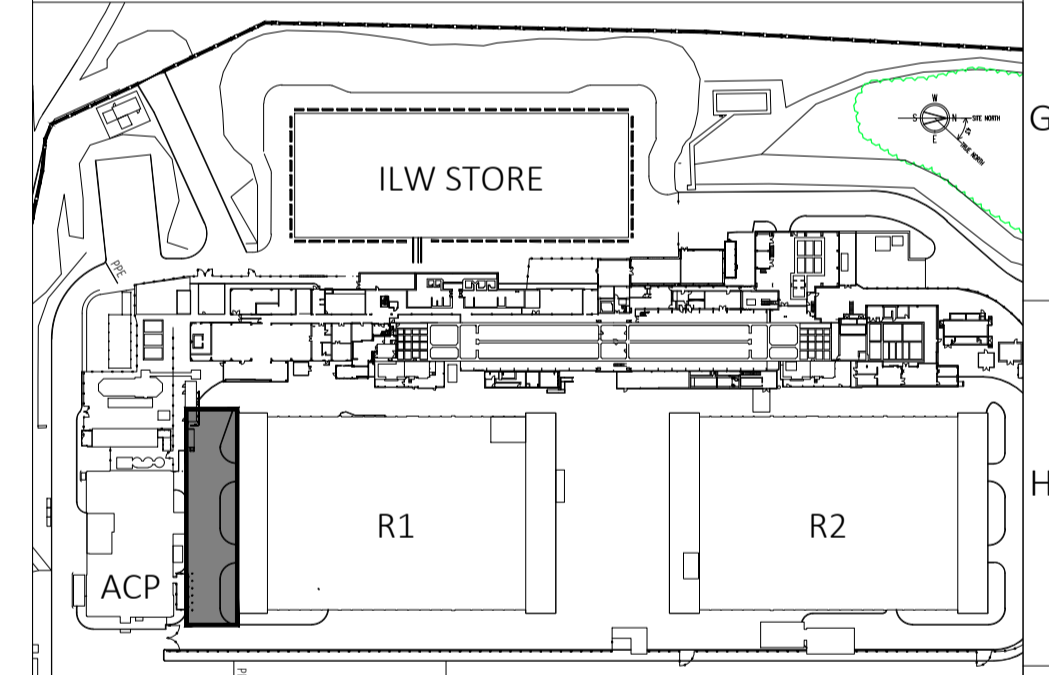
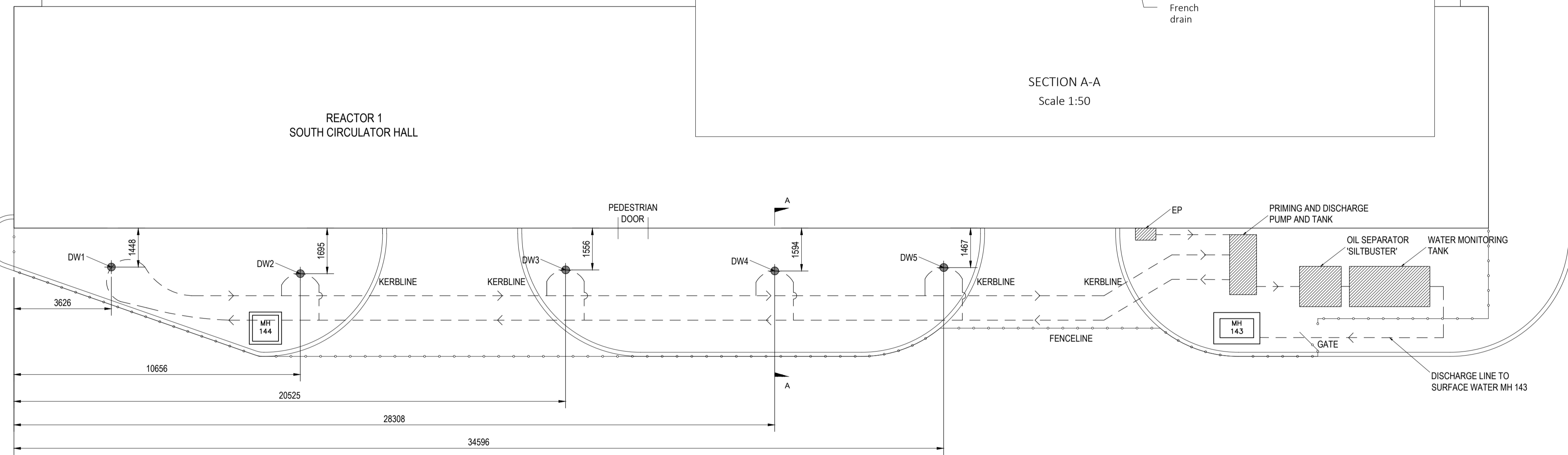
DE-WATERING WELL POINT



- NOTES:**
- ALL DIMENSIONS ARE IN MM.
  - POSITION OF WELL POINTS AND APPARATUS IS AS-BUILT.
  - DRAWING TO BE READ IN CONJUNCTION WITH THE SOUTH DE-WATERING SYSTEM LAYOUT PROCESS DIAGRAM (TRA/3210/PD/46147).

- DE-WATERING SYSTEM:**
- FIVE DE-WATERING WELLS INSTALLED EVENLY ALONG THE BASEMENT CUT FOR REACTOR 1 SOUTH BASEMENT WALL.
  - WELLS OPERATE BY IN WELL VENTURI EJECTOR HEAD, DEPTHS STARTED AS 'PUMP INTAKE' LEVEL IN TABLE 1. TABLE 1 DIMENSIONS ARE DEPTHS IN M FROM GROUND LEVEL.
  - INJECTOR SUPPLY WATER - (DEMCO HDPE 110MM X SDR11 WATER PIPE) FROM PRIMING TANK VIA ELECTRIC PUMP (LOWARA PLM90B14/322 E3).
  - TRANSFER PUMP FOR DISCHARGE - (DEMCO HDPE 90MM X SDR11 WATER PIPE) FROM PRIMING TANK TO SILTBUSTER (LOWARA 10SV05F022T/D).
  - INTERCEPTOR TANK PRIOR TO DISCHARGE INTO MONITORING TANK. SILTBUSTER HB40 UNIT HAS A SETTLEMENT AREA OF 40M<sup>2</sup> AND AN OPERATING RANGE OF 1 TO 40M<sup>3</sup>/HOUR.
  - MONITORING TANK IS CONSTRUCTION SETTLEMENT TANK FOR FINAL VISUAL MONITORING PRIOR TO DISCHARGE.
  - DISCHARGE INTO EXISTING SURFACE WATER SYSTEM, MH143.
  - DISCHARGE RATE AS NOTED IN TABLE 2.

- WELL POINT DETAILS:**
- DETAILS OF WELLS ARE PROVIDED IN TABLE 1.
  - DIAMETER - 200MM OD.
  - SEALING MATERIAL IS BENTONITE.
  - GRAVEL IS NON-CALCAREOUS PEA GRAVEL.



Modifications

Modifications	HMW	SR	TS
01			

FIRST ISSUE.

Current Issue	Signature	Name	Date	Scope of Verification
Drawn by:	<i>H.M. Williams</i>	H.M. WILLIAMS	08-04-25	FUNCTIONALITY
Verified by:	<i>S. Richards</i>	S. RICHARDS	08-04-25	
Approved by:		T. SLAVEN	08-04-25	
Issue:	01	Drawing Status	Q.A. Grade	Classification
Date:		ISSUED	3	OFFICIAL

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ORIGINAL DRAWING SIZE A1  
CREATED IN AUTOCAD  
Scale 1:100  
DRAWING TO BS8888  
MIN. TEXT HEIGHT 2.5mm  
ALL DIMENSIONS ARE mm UNLESS OTHERWISE STATED

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Location TRAWSFYNYDD Project Number L28413

Title SOUTH DE-WATERING SYSTEM LAYOUT AS BUILT

Drawing Number TRA/3210/LA/42946 Issue 01