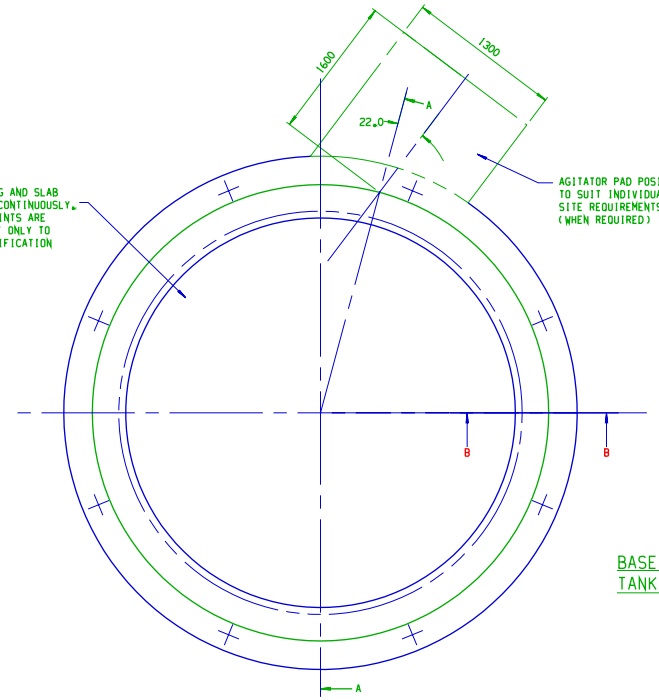
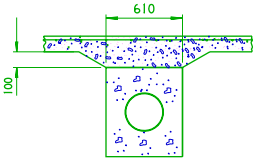
permstore tank 90/15 G OWEN llwydiarth,pontfadog llangollen ,ll20 7ag

PART No 537059 SHT 1 OF 2 — DRAWING SCALE (mm) — CAD DRAWING - NO MANUAL ALTERATIONS PERMITTED — DO NOT SCALE — REMOVE SHARP EDGES — IF IN DOUBT ASK — WELD METHOD MUST ENSURE MINIMUM DISTORTION

NOMINAL TANK DIA. 'A' / ft		31	34	36	39	42	45	48	50	53	56	59	62	64	67	70	73	76	78	81	84	87	90	92	95	98
NO. OF SHEETS PER RING		11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
TANK DIA. 'A' METRES		9.393	10.247	11.100	11.954	12.808	13.662	14.516	15.370	16.224	17.078	17.931	18.785	19.639	20.493	21.347	22.201	23.055	23.909	24.762	25.616	26.470	27.324	28.178	29.032	29.886
ANCHOR BOLTS	NO. OFF	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70
	PCD / m	9.573	10.427	11.280	12.134	12.988	13.842	14.696	15.550	16.404	17.258	18.111	18.965	19.819	20.673	21.527	22.381	23.235	24.089	24.942	25.796	26.650	27.504	28.358	29.212	30.066
	CHORD / m	1.362	1.361	1.360	1.359	1.358	1.357	1.356	1.355	1.355	1.354	1.353	1.353	1.353	1.352	1.352	1.351	1.351	1.351	1.350	1.350	1.350	1.350	1.349	1.349	1.349
FOOTINGS I/D 'D' / m		8.933	9.787	10.640	11.494	12.348	13.202	14.056	14.910	15.764	16.618	17.471	18.325	19.179	20.033	20.887	21.741	22.595	23.449	24.302	25.156	26.010	26.864	27.718	28.572	29.426
FOOTINGS O/D 'E' / m		9.853	10.707	11.560	12.414	13.268	14.122	14.976	15.830	16.684	17.538	18.391	19.245	20.099	20.953	21.807	22.661	23.515	24.369	25.222	26.076	26.930	27.784	28.638	29.492	30.346
GRANULAR FILL VOLUME / m³		9.4	11.3	13.4	15.6	18.0	20.6	23.3	26.9	29.3	32.6	36.0	39.6	43.3	47.3	51.4	55.7	60.2	64.8	69.6	74.6	79.7	85.1	90.6	96.2	102.1
FOOTINGS CONCRETE VOL. / m³		4.5	4.9	5.3	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.6	9.0	9.4	9.8	10.2	10.6	11.0	11.4	11.9	12.3	12.7	13.1	13.5	13.9	14.3
BASE CONCRETE VOLUME / m³		9.6	11.3	13.2	15.2	17.3	19.6	22.1	24.6	27.4	30.2	33.3	36.4	39.7	43.1	46.7	50.5	54.3	58.3	62.5	66.8	71.2	75.8	81.0	85.4	90.5
TOTAL CONCRETE VOLUME / m³		14.2	16.2	18.5	20.9	23.4	26.1	29.0	32.0	35.1	38.4	41.8	45.4	49.1	52.9	56.9	61.0	65.3	69.7	74.3	79.0	83.9	88.9	94.0	99.3	104.7
AREA OF CONCRETE BASE / m²		76.3	90.1	105.0	121.1	138.3	156.7	176.2	196.9	218.7	241.6	265.7	290.9	317.3	344.9	373.5	403.4	434.3	466.5	499.7	534.1	569.6	606.3	644.2	683.2	723.3
A193 MESH (BASE)		8	10	12	16	16	20	20	24	24	28	28	32	36	40	44	48	48	56	60	64	64	68	76	80	84
A393 MESH (FTINGS CONCRETE)		2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5	6	6	6

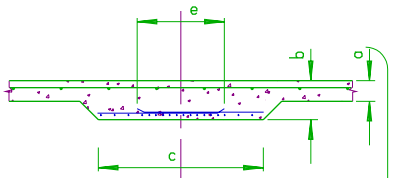
NOTE: MESH SIZE = 4.8M x 2.4M





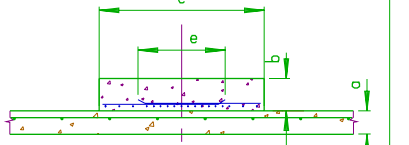
PIPE TRENCH DETAIL

SECTION THROUGH PIPE TRENCH (WHERE INCLUDED) SHOWING LOCALLY STRENGTHENED FLOOR. SUBJECT OT LOCAL CONDITIONS

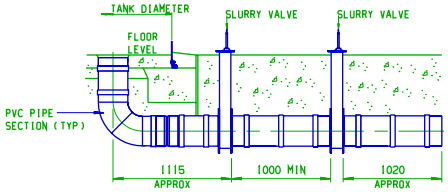


TYPICAL SECTION THROUGH NEW BASE (THICKENING TO UNDERSIDE) TO ACCOMMODATE THE LOADS IMPOSED BY THE CENTRE POLE ASSUMING THE FUTURE INSTALLATION OF A PERMASTORE SUPPLIED PVC COVER

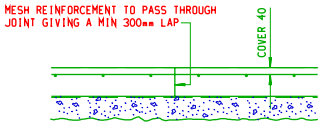
(18) FOR DIMENSION DETAILS SEE SHT 2



TYPICAL SECTION THROUGH EXISTING BASE (THICKENING SUPERIMPOSED) TO ACCOMMODATE THE LOADS IMPOSED BY THE CENTRE POLE ASSUMING THE FUTURE INSTALLATION OF A PERMASTORE SUPPLIED PVC COVER

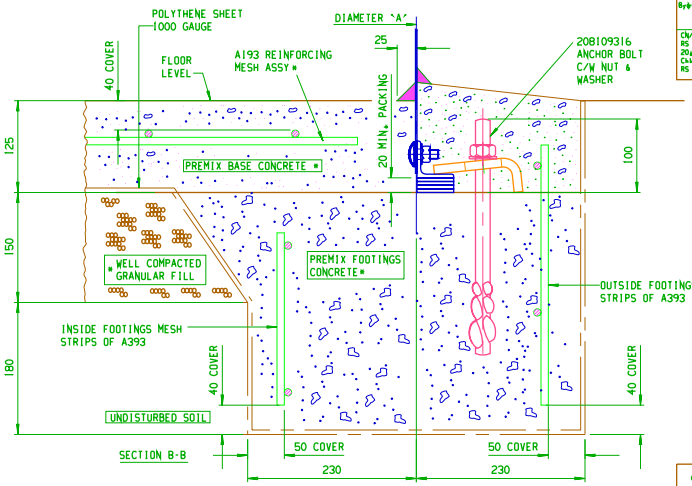


OUTLET PIPE SECTION DETAIL

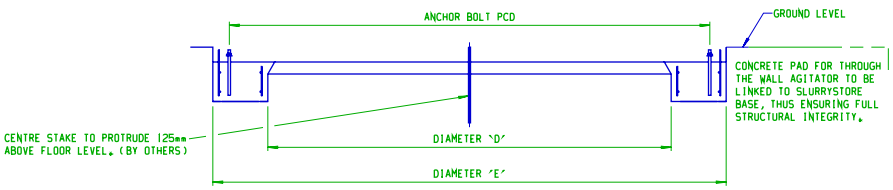


VIEW 'C' - CONSTRUCTION JOINT

BASE LAID WITH FIRST TANK RING IN POSITION

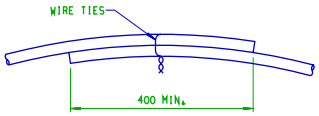


NOTE: SEE TABLE FOR ITEMS MARKED THUS *



SECTION A-A

NOTES:
1. TOLERANCE OF BASE FLATNESS TO 15mm.
2. A BASE CONSTRUCTED TO THESE GUIDELINES WILL COMPLY WITH BS 5502 PART 50 1989.
3. CONCRETE VOLUMES WITHIN THE ADJACENT CHART HAVE BEEN CALCULATED ASSUMING THE EXACT DIMENSIONS DEFINED ON THIS DRAWING. THIS INFORMATION IS PROVIDED AS A GUIDE ONLY AND MUST BE RE-EVALUATED IN ACCORDANCE WITH LOCAL GROUND CONDITIONS AT THE TIME OF CONSTRUCTION.
4. ESSENTIAL INFORMATION REGARDING THE SELECTION OF THE SITE, EXCAVATIONS, FOOTINGS AND CONSTRUCTION ARE DETAILED ON SHEET 2 OF THIS DRAWING.



TYPICAL FOOTINGS MESH JOINT

FOOTINGS MESHES TO BE BENT TO APPROXIMATE DIAMETER REQUIRED ON SITE, AND WIRED TOGETHER AS SHOWN.

CN No & DATE	REVISION	ISS No
24/4122 19.1.96 PJS	REDRAWN ON CAD CONCRETE VOLUMES RECALCULATED	4
24/4210 4.5.95	AGITATOR PAD ADDED KCR	5
24/4493 8.3.96 KCR	LEVELLING ROD QTY'S HALVED. CHORD LENGTHS MODIFIED TO SUIT	6
24/5124 2.4.98 KCR	TOLERANCE AND BS NOTES ADDED	7
24/5316 KCR 26.7.98	LEVELLING RODS DELETED SEALER STRIP DELETED MASTIC FILLET REPOSITIONED WEDGE DELETED	8
24/5332 KCR 30.9.98	NOTE 3 ADDED CONSTRUCTION JOINT RE-ADDED BASE CONCRETE AND TOTAL VOLUMES MODIFIED	9
24/5405 W.W. 16.12.98	PART Nos. REMOVED. MESH DETAILS AND CONCRETE BASE ASSY PT. NUMBERS REMOVED FROM TABLE. MESH SIZE AND Nos. OFF ADDED.	10
24/6635 07/12/01 W.P.	SCHEDULE AMENDED TO SUIT SERIES 1400.	11
CN/7318 PCD 5.10.03	40 COVER WAS 30 FOR BASE REINFORCING. INNER FOOTINGS MESH ADDED.	12
CN/7723 I.R.E. 15.2.05	CONCRETE BASE AREA CORRECTED	13
CN/7802 I.R.E. 22.4.5	MESH SPEC WAS A193	14
CN/7806 I.R.E. 26/4/5	NOTE 4 ADDED	15
CN/7981 JSTY 8/12/05	HEX BOLT REPLACED BY STORE BOLT	16
JH 3.1.06 CN/7993	USAGE DESCRIPTION REVISED. OUTLET PIPE DETAIL ADDED.	17
CN 8377 SJH 13.03.07	P.V.C COVER DETAILS ADDED	18
CN/8719 GLS 17.09.08	ENLARGED BASE SECTION UPDATED.	19
CN/8817 WJR 24/02/09 Checked By: RJS	BASE SECTION DIMENSIONS UPDATED. RANGE WAS 11'-6.2" CHART AMENDED FOR NEW RANGE.	20
CN/8837 WJR 24/02/09 Checked By: RJS	MESH PANEL SPECIFICATION REVISED.	21
CN/9428 RS 20.3.12 Chkd by RS	FOOTINGS MESH REVISED AT HAUNCH	22

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TOLERANCES - UNLESS OTHERWISE STATED - LINEAR (EXCEPT STOCK SIZES & DRILLED HOLES): NO DECIMALS ± 1mm; 1 DECIMAL ± 0.5mm; 2 DECIMALS ± 0.25mm; 3 DECIMALS ± 0.05mm; ANGULAR ± ½ DEG

DRAWN	PJS	DATE	7 Dec 2001	MATERIAL	--
SCALE	NTS	CHECKED	PHp	MATERIAL SPEC	--
ISSUED	--	EXP No	--	FINISH	--

THIRD ANGLE PROJECTION

PERMASTORE® TANKS & SILOS
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Fax (01379) 870530

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DESCRIPTION: CONCRETE BASE ASSEMBLY 31'-98" DIAMETER

USAGE: SUITABLE FOR SLURRY TANKS NOT EXCEEDING 8.5 METRES (6 RINGS) IN HEIGHT

REF: --

PART No 537059 SHT 1 OF 2