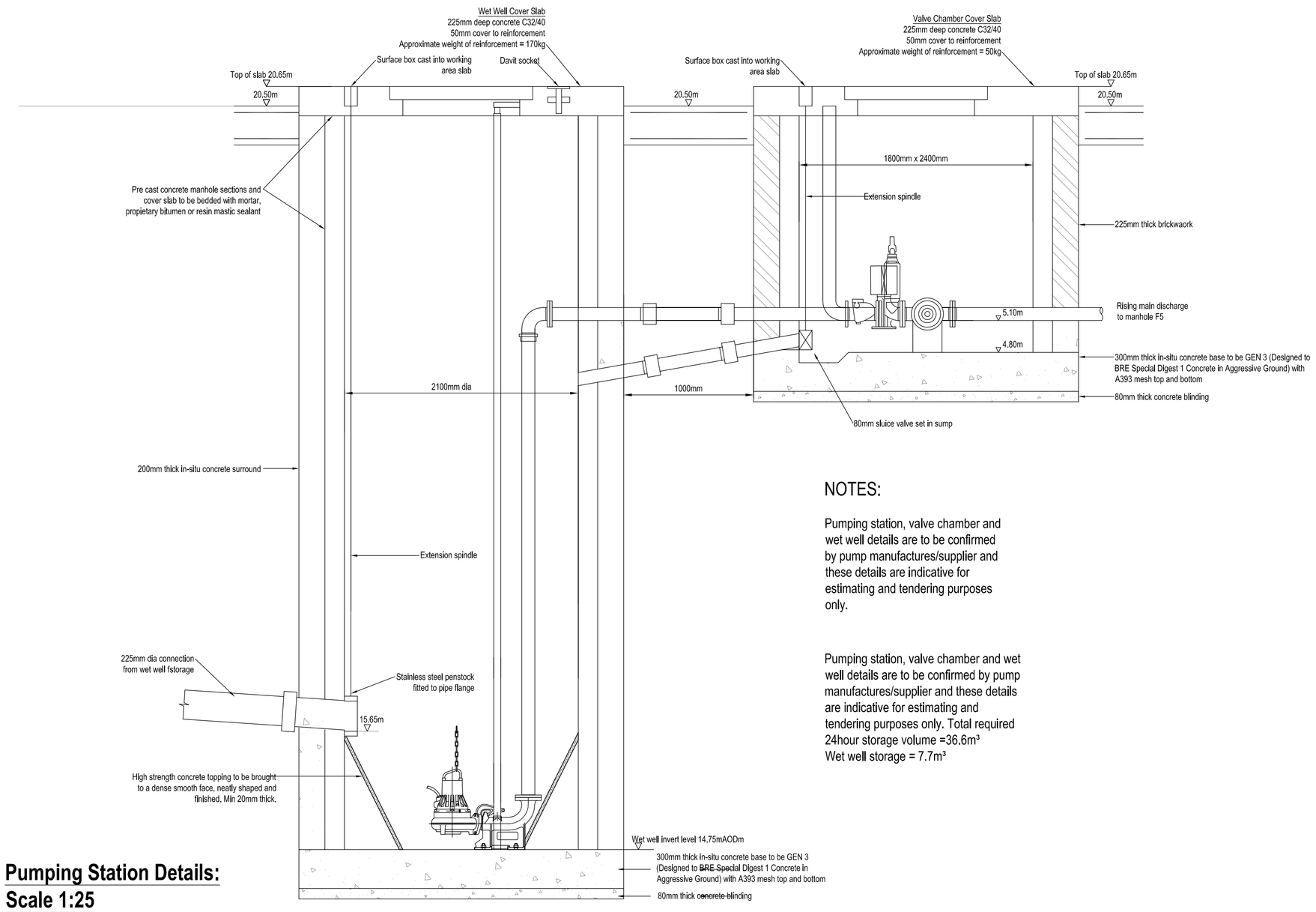
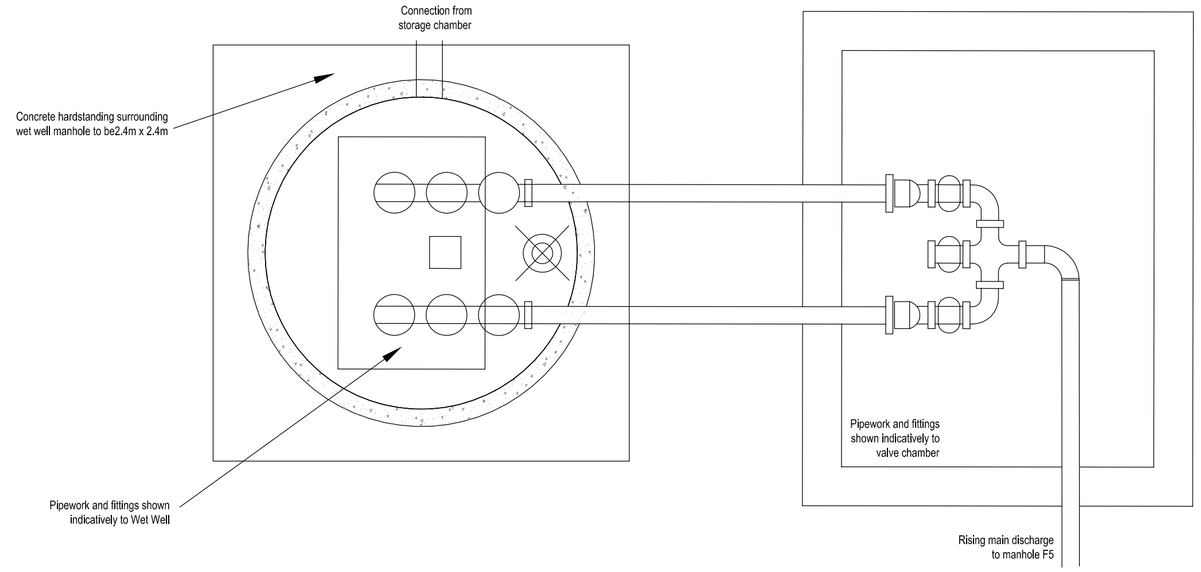


Pumping Station Details: Scale 1:25

NOTES:

Pumping station, valve chamber and wet well details are to be confirmed by pump manufactures/supplier and these details are indicative for estimating and tendering purposes only.

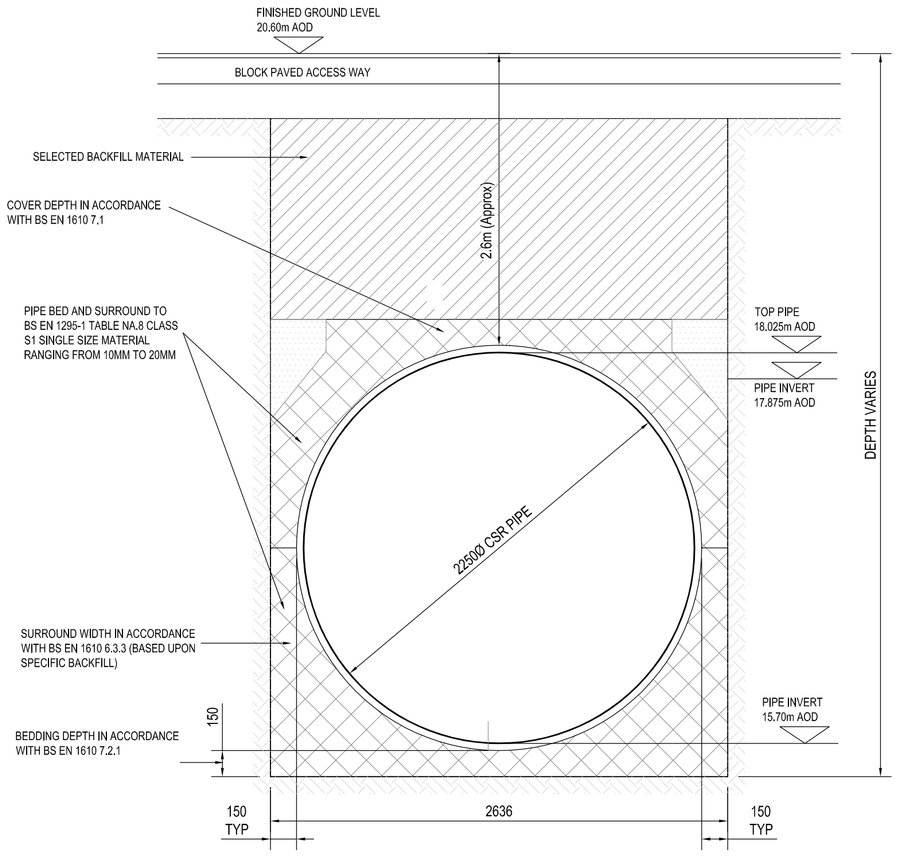
Pumping station, valve chamber and wet well details are to be confirmed by pump manufactures/supplier and these details are indicative for estimating and tendering purposes only. Total required 24hour storage volume =36.6m³
Wet well storage = 7.7m³



COMPOUND LAYOUT PLAN SCALE 1:50

AQUA SPIRE 2.25 Dia STORAGE PIPE

Bed and Surround Details for Trafficked Areas



NOTE:

1. FOR DETAILS OF TRADITIONAL MANHOLE CONSTRUCTION REFER TO SEWERS FOR ADOPTION .
2. ALL DIMENSIONS ARE NOMINAL AND IN MILLIMETERS
3. PLEASE REFER TO AQUASPIRA PIPE INSTALLATION GUIDE FOR DETAILED INFORMATION ON PIPE INSTALLATION

BEDDING NOTES:

1. ALL DIMENSIONS ARE NOMINAL AND IN MILLIMETERS
2. PROCESSED GRANULAR MATERIALS TO INCLUDE AGGREGATES TO BS 882, AIR-COOLED BLAST FURNACE SLAG TO BS 1047 AND LIGHTWEIGHT AGGREGATES TO BS 3797.
3. ALL TEMPORARY ENABLING WORKS ARE BY OTHERS
4. PROJECT ENGINEERS TO CONFIRM THE BACKFILL DETAILS ARE APPROPRIATE FOR THE SITE GROUND CONDITIONS AND LOADING CRITERIA.
5. DURING CONSTRUCTION, PART HA40/01 SECTION 2.3 RECOMMENDS MINIMUM 1m COVER FOR PIPES SUBJECT TO CONSTRUCTION TRAFFIC LOADING
6. RECLAIMED AND SITE WON MATERIAL TO BE REVIEWED AND APPROVED BY MAIN PROJECT ENGINEER PRIOR TO USE AS BACKFILL.
7. WHERE MINIMUM COVER DEPTHS SHOWN CANNOT BE ACHIEVED, A REINFORCED CONCRETE PROTECTION SLAB IS REQUIRED. FOR DETAILS PLEASE SEE 'Your Questions Answered' IN THE TECHNICAL SECTION OF OUR WEBSITE-www.aquaspira.com

FLOTATION

PIPES ABOVE 1500Ø MAY REQUIRE MORE THAN 900mm COVER. PLEASE REFER TO THE HYDRAULIC PAGE IN THE 'TECHNICAL' SECTION OF OUR WEBSITE-www.aquaspira.com

OVERALL LENGTH OF STORAGE -

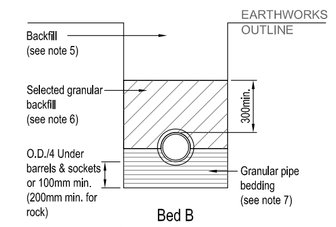
8.0m

VOLUME OF STORAGE IN AQUA SPIRE -

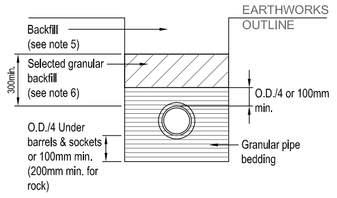
31.7m³

BACKFILL TO BE IN ACCORDANCE WITH 'SPECIFICATION FOR HIGHWAY WORKS' VOLUME 1, CLAUSE 6/2 AND SHW CLAUSE 503.3.(i)

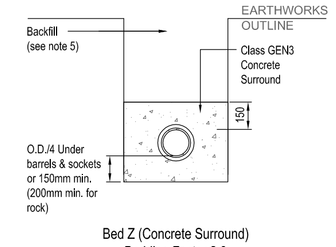
'Aqua Spire' Storage Pipe Details: Scale 1:25



Bed B
Bedding Factor 1.9



Bed S
Bedding Factor 2.2

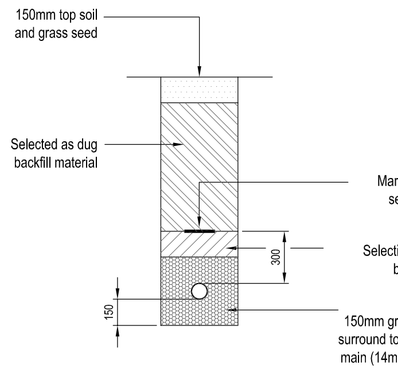


Bed Z (Concrete Surround)
Bedding Factor 2.9

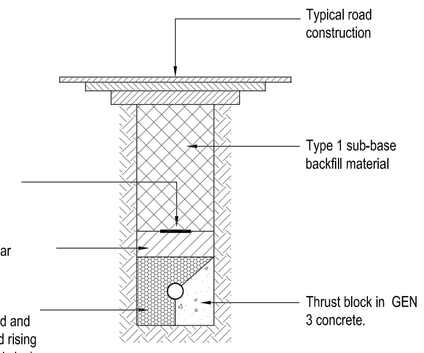
All bedding classes requiring concrete shall have a 12mm expansion joint constructed for the full width and depth of the concrete and shall be placed at pipe joints not more than 5.0 metres apart

BEDDING NOTES:

1. All pipes shall be laid in trenches in accordance with Part H of the building regulations.
2. All trenches shall have vertical sides for full depth. Exceptionally, with prior approval of the Engineer, trenches may be battered above a point not less than 300mm above the top of the pipe
3. All bedding classes requiring concrete shall have a 12mm expansion joint constructed for the full width and depth of the concrete and shall be placed at pipe joints not more than 5.0 metres apart
4. Reinstatement of trenches in existing carriageways shall comprise of the same materials and thicknesses to underside of wearing course as for new carriageway construction unless otherwise described in the Contract
5. Selected fill or granular fill free from stones larger than 40mm.
6. Selected fill: free from stones larger than 40mm, lumps of clay over 100mm, timber, frozen material & vegetable matter.
7. Granular Material - For rigid pipes the granular material should conform to BS EN 1610 Annex B Table B.15 and should be single size material or graded material from 5mm up to a maximum size of 10mm for 100mm pipes, 14mm for 150mm pipes, 20mm for pipes from 150mm up to 600mm Ø and 40mm pipes more than 600mm Ø. Compaction maximum 0.3 for class N or B and, 0.15 for class F.
8. All works and materials to be in accordance with Water Authorities Association "Sewers for Adoption" 7th edition
9. Bed B: To be used in areas not subjected to vehicular loadings. Where depth of cover is less than 0.5m then a protective slab or concrete blinding should be installed.
 Bed S: To be used in areas subject to traffic loading where depth of cover >0.9m.
 Bed Z: To be used in areas subject to traffic loading where depth of cover is <0.9m.



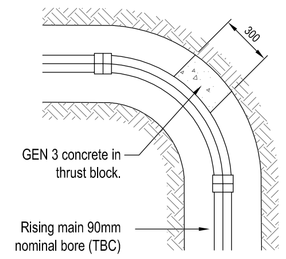
SECTION THROUGH TRENCH AT VERGE



SECTION THROUGH TRENCH AT CARRIAGEWAY

Non-degradeable marker tape incorporating a trace wire to be laid 300mm above the top of the rising main.

RISING MAIN DETAILS



PLAN OF THRUST BLOCK FOR 90° LONG RADIUS BEND

RISING MAIN DETAILS

Bedding Classes & Rising Main Details

Rev.	Date	Details	Initials
B	08.01.23	Re-issued	KN
A	18.12.22	First Issue	KN

Drawing Status: PRELIMINARY FOR TENDER

Project: GRANGE ROAD NETLEY ABBEY

Client: ELIVIA HOMES

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Drawing Title: Engineering Details Standard Construction Details

Drawn	Checked	Scales	Paper Size	Date
KN		As shown	A1	12.22
Job No.		Drawing No.		Revision
KNC2114		501-03		B

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