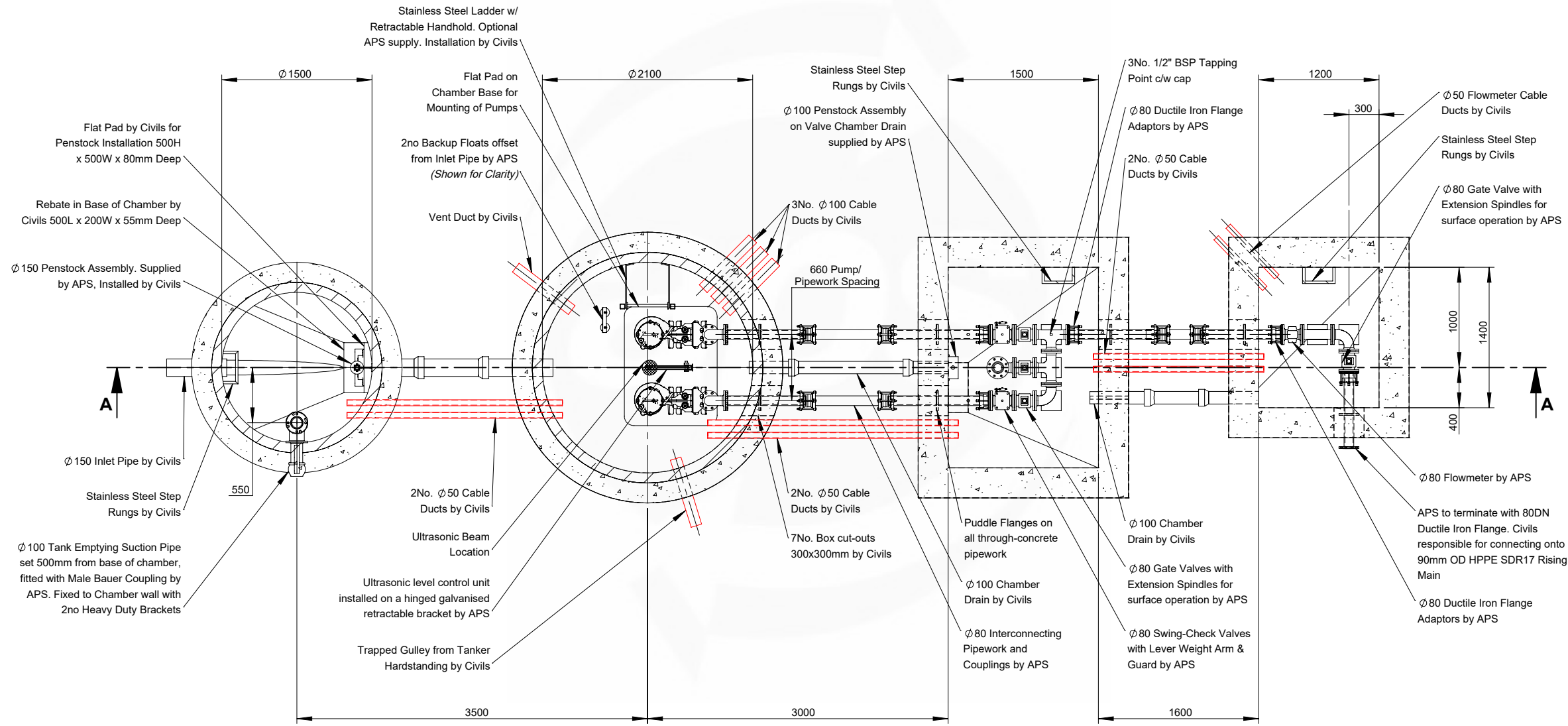


SECTIONAL PLAN VIEW



Approved by:

Date:

Signed:

This drawing is confidential and must not be reproduced, copied or passed to a third party without the written permission from **All Pump Solutions**

Notes

1. All works to be carried out in accordance with Design and Construction Guidance.

2. All dimensions in mm unless otherwise stated.

3. All civils works to be completed by civil contractor.

4. Box outs to be filled and made good by civil contractor once pipework has been installed.

5. Benching to be completed by Civils after APS installation.

6. Cable ducts to be installed by civil contractor complete with draw-cords. Specific sizes shown within drawing detail.

7. Cable ducts to be sealed with 'Rise' sealant by APS.

8. All structural calculations to be completed by structural engineer. APS have no involvement with the design of wet well cover and base slab.

9. Flow calculations based on 90mm OD HPPE SDR17 Rising Main subject to conformation by STW

10. Pump chamber considered as ST Zone BZ.

11. To be read in conjunction with drawings STD1018-02 and STD1019-01.

12. The pumping station is not susceptible to flooding during the 1:30 year return storm period and all electrical equipment is either water resistant or positioned above the 1:200 year return storm period.

13. All fittings are to be stainless steel.

14. The compound and tanker hard standing will be a brushed concrete finish.

15. The pumps are to be labelled 'Pump1' & 'Pump2'.

16. Duplicate pump set information plate will be installed to the control kiosk door adjacent to the panel.

17. The lifting equipment will be load tested and LEAP tagged prior to formal adoption of the station.

18. The Davit Sockets will be fitted with a flush cover plate.

19. A label will be fitted to the front of the control panel indicating the NICEIC test date and information.

20. The bottom flange of the control and storage kiosks will be sealed with a waterproof non setting mastic seal.

21. T-Bar penstock key will be left on site within the storage kiosk.

22. The rising main will be pressure tested by others prior to the formal adoption of the station.

23. All extraneous metal work is to be equipotentially bonded with safety electrical earth 'do not remove' labels fitted.

24. The cable hooks are to be stainless steel.

25. Kiosk doors being fitted with cylinder type locks.

26. Vandal proof stainless steel hinges with self latching stays and shoot bolts will be used for the kiosks.

27. Safety signs will be installed inside the control kiosk (Eg 'What to do in the event of an electrical shock').

28. All chamber covers will be bolted down by others.

29. All drains/ducts will be cut back flush with chamber walls by Civils.

30. Compound will be cleared and weeds removed, prior to adoption by Civils.

31. All earthing cables will be installed with an 'Electrical earth – Do not remove' note.

32. Civils to use Expansion Joints every 6m.

33. There should be a minimum of 15m horizontal clearance between Pump Station and nearest habitable building.

34. STW to confirm pipework sizes upon pump selection.

D	Invert Level Updated	23/11/2022	GR
C	Compound Layout Updated	29/09/2022	GR
B	Pump Selection updated. Step Rungs added to IC	11/11/2021	CW
A	Drawing for Approval	11/10/2021	CW

Issue: Description: Date: Auth:



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Fax: 01743452050

Email: sales@allpumpsolutions.com

all pump solutions

FLUID EXPERTISE

Title: Adoptable Foul Water Pumping Station to Severn Trent Water Addendum
Sectional Plan View

Contract: Old Gloucester Road, Cheltenham

Contractor: Infrastructure CS Ltd

Consulting Engineer:

Works Order Number: WO7110

Size: A3	Scale: 1:50	Drawn: CW	Checked: DH	Approved: DH
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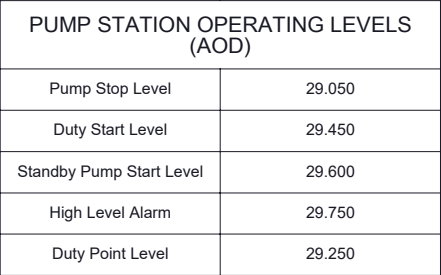
Drawing Number: EQ4515-150789-100

Date: 11/10/2021

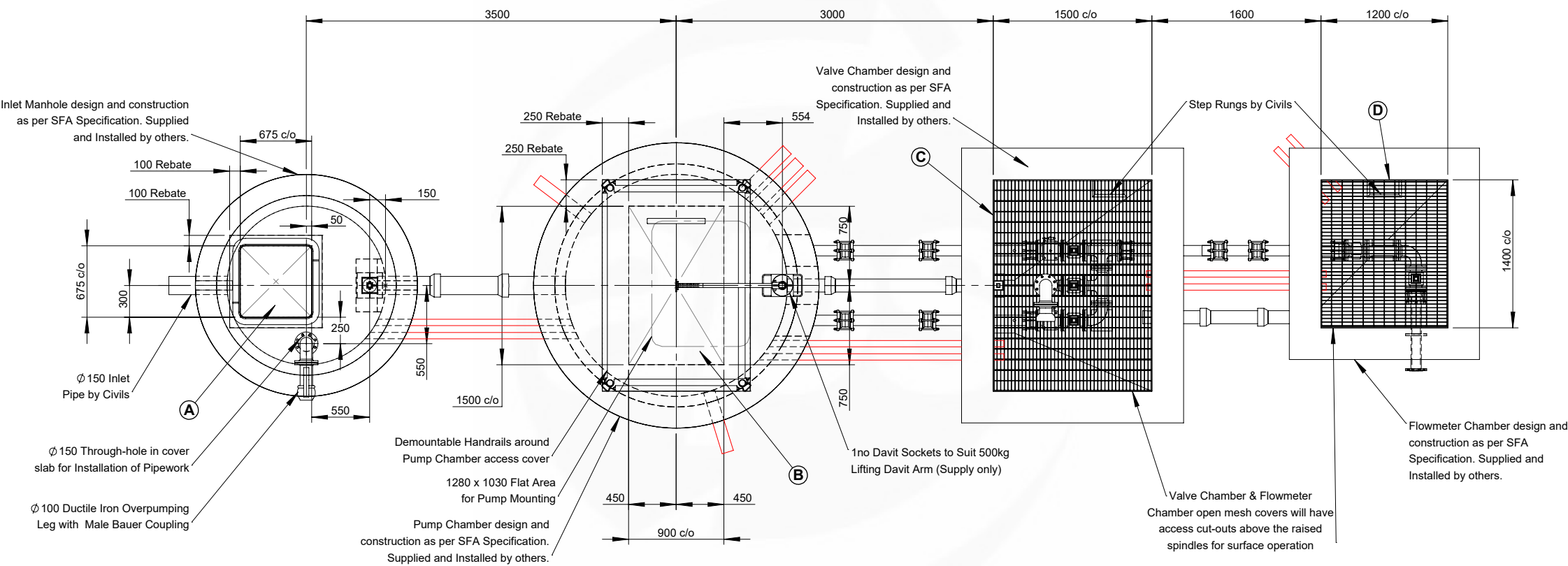
Internal Reference: EQ4515

Issue: D

Approved by:				
Date:		Signed:		
This drawing is confidential and must not be reproduced, copied or passed to a third party without the written permission from All Pump Solutions				
Notes				
1. All works to be carried out in accordance with Design and Construction Guidance. 2. All dimensions in mm unless otherwise stated. 3. All civils works to be completed by civil contractor. 4. Box outs to be filled and made good by civil contractor once pipework has been installed. 5. Benching to be completed by Civils after APS installation. 6. Cable ducts to be installed by civil contractor complete with draw-cords. Specific sizes shown within drawing detail. 7. Cable ducts to be sealed with 'Rise' sealant by APS. 8. All structural calculations to be completed by structural engineer. APS have no involvement with the design of wet well cover and base slab. 9. Flow calculations based on 90mm OD HPPE SDR17 Rising Main subject to conformation by STW 10. Pump chamber considered as ST Zone BZ. 11. To be read in conjunction with drawings STD1018-02 and STD1019-01. 12. The pumping station is not susceptible to flooding during the 1:30 year return storm period and all electrical equipment is either water resistant or positioned above the 1:200 year return storm period. 13. All fittings are to be stainless steel. 14. The compound and tanker hard standing will be a brushed concrete finish. 15. The pumps are to be labelled 'Pump1' & 'Pump2'. 16. Duplicate pump set information plate will be installed to the control kiosk door adjacent to the panel. 17. The lifting equipment will be load tested and LEAP tagged prior to formal adoption of the station. 18. The Davit Sockets will be fitted with a flush cover plate. 19. A label will be fitted to the front of the control panel indicating the NICEIC test date and information. 20. The bottom flange of the control and storage kiosks will be sealed with a waterproof non setting mastic seal. 21. T-Bar penstock key will be left on site within the storage kiosk. 22. The rising main will be pressure tested by others prior to the formal adoption of the station. 23. All extraneous metal work is to be equipotentially bonded with safety electrical earth 'do not remove' labels fitted. 24. The cable hooks are to be stainless steel. 25. Kiosk doors being fitted with cylinder type locks. 26. Vandal proof stainless steel hinges with self latching stays and shoot bolts will be used for the kiosks. 27. Safety signs will be installed inside the control kiosk (Eg 'What to do in the event of an electrical shock'). 28. All chamber covers will be bolted down by others. 29. All drains/ducts will be cut back flush with chamber walls by Civils. 30. Compound will be cleared and weeds removed, prior to adoption by Civils. 31. All earthing cables will be installed with an 'Electrical earth – Do not remove' note. 32. Civils to use Expansion Joints every 6m. 33. There should be a minimum of 15m horizontal clearance between Pump Station and nearest habitable building. 34. STW to confirm pipework sizes upon pump selection.				
D	Invert Level Updated	23/11/2022	GR	
C	Compound Layout Updated	29/09/2022	GR	
B	Pump Selection updated. Step Rungs added to IC	11/11/2021	CW	
A	Drawing for Approval	11/10/2021	CW	
Issue: Description:		Date:	Auth:	
Tel: 01743465463 Fax: 01743452050 Email: sales@allpumpsolutions.com				
Title: Adoptable Foul Water Pumping Station to Severn Trent Water Addendum <i>Elevation Section View</i>				
Contract: Old Gloucester Road, Cheltenham				
Contractor: Infrastructure CS Ltd				
Consulting Engineer:				
Works Order Number: WO7110				
Size:	Scale:	Drawn:	Checked:	Approved:
A3	1:50	CW	DH	DH
Drawing Number: EQ4515-150789-200			Date: 11/10/2021	
Internal Reference: EQ4515				Issue: D



COVER DETAIL



COVER	CHAMBER	DESCRIPTION
COVER A	Inlet Chamber	1 No. Inlet Chamber 675mm x 675mm D400 Ductile Iron Solid Access Cover and Frame (Double Triangle)
COVER B	Pump Chamber / Wet Well	1 No. Pump Chamber 1500mm x 900mm stamp-lock defender access cover, mild steel hinged access cover and frame, 'stamp-lock' unique locking mechanism, torsion spring assistance for compliance to manual handling guidelines, internal miller door type safety grids- stw spaces, grids are removable by undoing bolts if required, demountable safety barrier, rubber sealed frame, facta class c loading, post galvanised to bs en 1461.
COVER C	Valve Chamber	1 No. Valve Chamber 2000mm x 1500mm galvanised mild steel rectangular pattern open mesh chamber covers comprising 34/100 having 25x5mm load bearing bars spaced at 34mm centres with twisted transverse bars forged welded to the top surface at 100mm centres. Includes for a perimeter angle frame for fixing to existing concrete chamber and all necessary bolts, fixings etc. This type of flooring is suitable to withstand a 5kN/m2 UDL. Hot Dip Galvanised to BS EN ISO 1461.
COVER D	Flowmeter Chamber	1 No. Flow Meter Chamber 1400mm x 1200mm galvanised mild steel rectangular pattern open mesh chamber covers with hinged man access panel comprising 34/100 having 25x5mm load bearing bars spaced at 34mm centres with twisted transverse bars forged welded to the top surface at 100mm centres. Includes for a perimeter angle frame for fixing to existing concrete chamber and all necessary bolts, fixings etc. This type of flooring is suitable to withstand a 5kN/m2 UDL. Hot Dip Galvanised to BS EN ISO 1461.

Approved by:

Date:

Signed:

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Notes

1. All works to be carried out in accordance with Design and Construction Guidance.

2. All dimensions in mm unless otherwise stated.

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4. Box outs to be filled and made good by civil contractor once pipework has been installed.

5. Benching to be completed by Civils after APS installation.

6. Cable ducts to be installed by civil contractor complete with draw-cords. Specific sizes shown within drawing detail.

7. Cable ducts to be sealed with 'Rise' sealant by APS.

8. All structural calculations to be completed by structural engineer. APS have no involvement with the design of wet well cover and base slab.

9. Flow calculations based on 90mm OD HPPE SDR17 Rising Main subject to conformation by STW

10. Pump chamber considered as ST Zone BZ.

11. To be read in conjunction with drawings STD1018-02 and STD1019-01.

12. The pumping station is not susceptible to flooding during the 1:30 year return storm period and all electrical equipment is either water resistant or positioned above the 1:200 year return storm period.

13. All fittings are to be stainless steel.

14. The compound and tanker hard standing will be a brushed concrete finish.

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16. Duplicate pump set information plate will be installed to the control kiosk door adjacent to the panel.

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18. The Davit Sockets will be fitted with a flush cover plate.

19. A label will be fitted to the front of the control panel indicating the NICEIC test date and information.

20. The bottom flange of the control and storage kiosks will be sealed with a waterproof non setting mastic seal.

21. T-Bar penstock key will be left on site within the storage kiosk.

22. The rising main will be pressure tested by others prior to the formal adoption of the station.

23. All extraneous metal work is to be equipotentially bonded with safety electrical earth 'do not remove' labels fitted.

24. The cable hooks are to be stainless steel.

25. Kiosk doors being fitted with cylinder type locks.

26. Vandal proof stainless steel hinges with self latching stays and shoot bolts will be used for the kiosks.

27. Safety signs will be installed inside the control kiosk (Eg 'What to do in the event of an electrical shock').

28. All chamber covers will be bolted down by others.

29. All drains/ducts will be cut back flush with chamber walls by Civils.

30. Compound will be cleared and weeds removed, prior to adoption by Civils.

31. All earthing cables will be installed with an 'Electrical earth – Do not remove' note.

32. Civils to use Expansion Joints every 6m.

33. There should be a minimum of 15m horizontal clearance between Pump Station and nearest habitable building.

34. STW to confirm pipework sizes upon pump selection.

D	Invert Level Updated	23/11/2022	GR
C	Compound Layout Updated	29/09/2022	GR
B	Pump Selection updated. Step Rungs added to IC	11/11/2021	CW
A	Drawing for Approval	11/10/2021	CW

Issue: Description: Date: Auth:



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all pump solutions

FLUID EXPERTISE

Title: **Adoptable Foul Water Pumping Station to Severn Trent Water Addendum**
Cover Detail

Contract: **Old Gloucester Road, Cheltenham**

Contractor: **Infrastructure CS Ltd**

Consulting Engineer:

Works Order Number: **WO7110**

Size:	Scale:	Drawn:	Checked:	Approved:
A3	1:50	CW	DH	DH

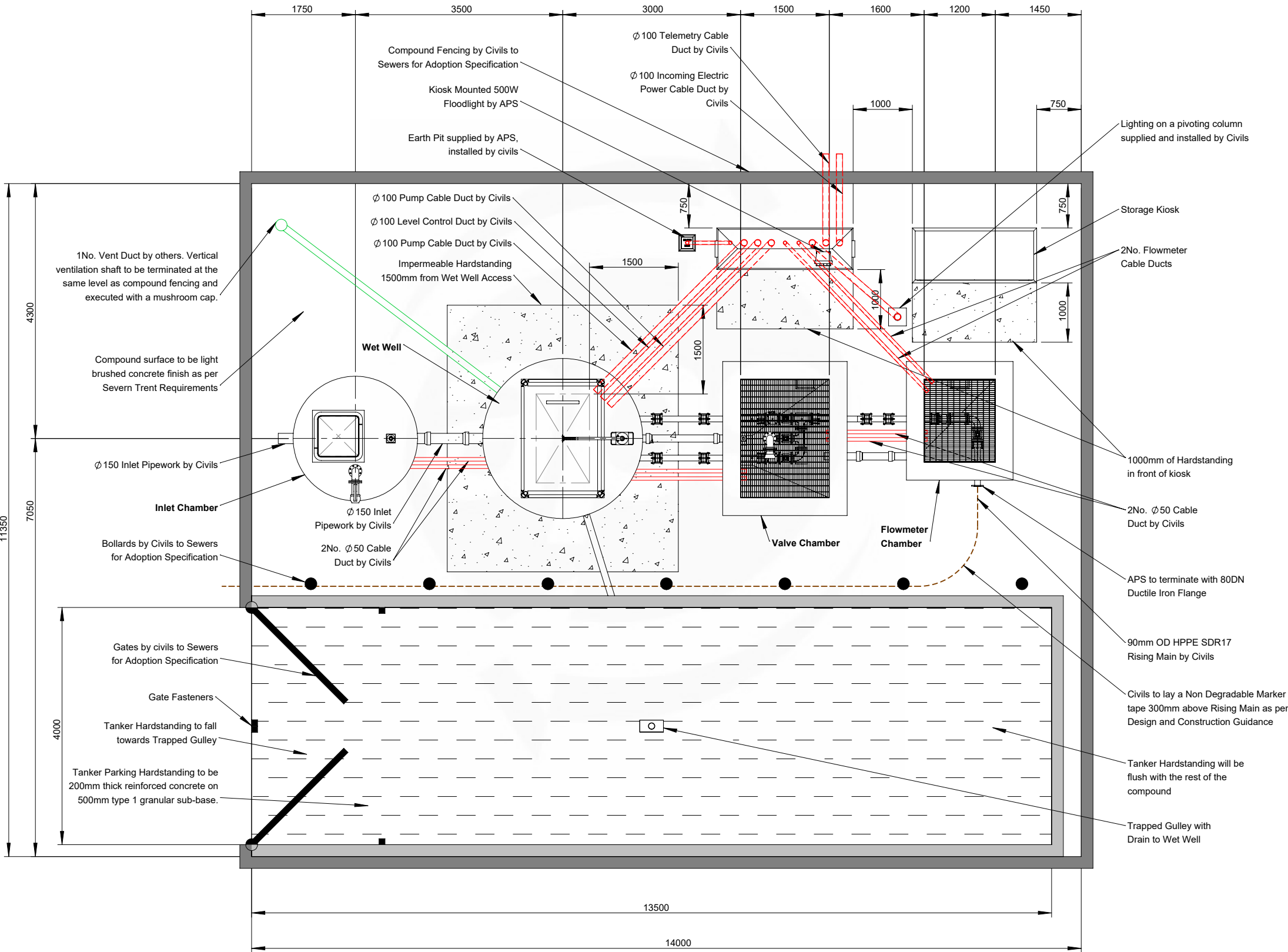
Drawing Number: **EQ4515-150789-300**

Date: **11/10/2021**

Internal Reference: **EQ4515**

Issue: **D**

COMPOUND LAYOUT



Approved by:

Date:

Signed:

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9. Flow calculations based on 90mm OD HPPE SDR17 Rising Main subject to conformation by STW

10. Pump chamber considered as ST Zone BZ.

11. To be read in conjunction with drawings STD1018-02 and STD1019-01.

12. The pumping station is not susceptible to flooding during the 1:30 year return storm period and all electrical equipment is either water resistant or positioned above the 1:200 year return storm period.

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32. Civils to use Expansion Joints every 6m.

33. There should be a minimum of 15m horizontal clearance between Pump Station and nearest habitable building.

34. STW to confirm pipework sizes upon pump selection.

D	Invert Level Updated	23/11/2022	GR
C	Compound Layout Updated	29/09/2022	GR
B	Pump Selection updated. Step Rungs added to IC	11/11/2021	CW
A	Drawing for Approval	11/10/2021	CW

Issue:	Description:	Date:	Auth:
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FLUID EXPERTISE

Title:

Adoptable Foul Water Pumping Station to Severn Trent Water Addendum
Compound Layout

Contract:

Old Gloucester Road, Cheltenham

Contractor:

Infrastructure CS Ltd

Consulting Engineer:

Works Order Number:

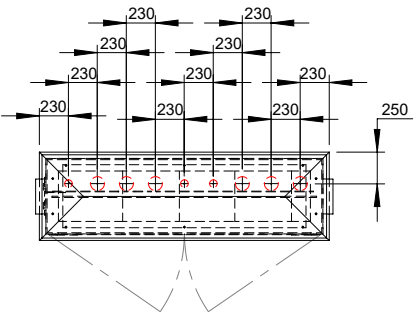
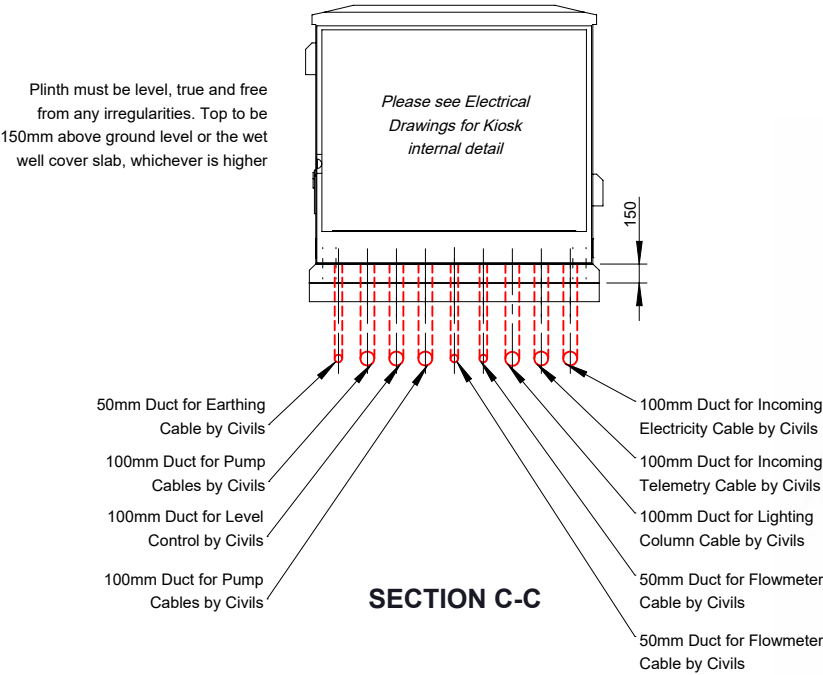
WO7110

Size:	Scale:	Drawn:	Checked:	Approved:
A3	1:75	CW	DH	DH

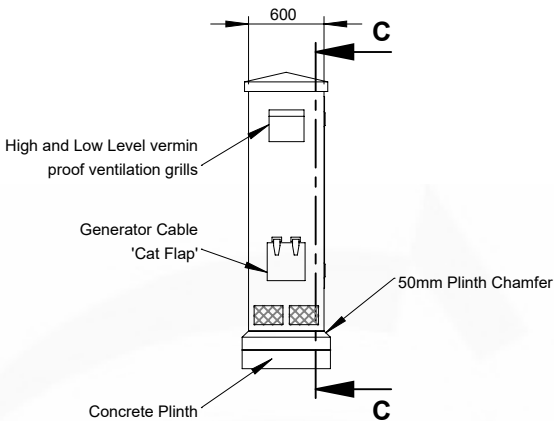
Drawing Number:	Date:
EQ4515-150789-400	11/10/2021

Internal Reference:	Issue:
EQ4515	D

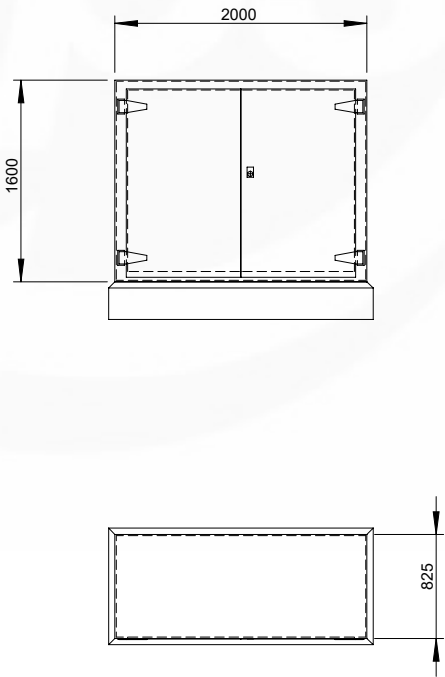
KIOSK DETAIL



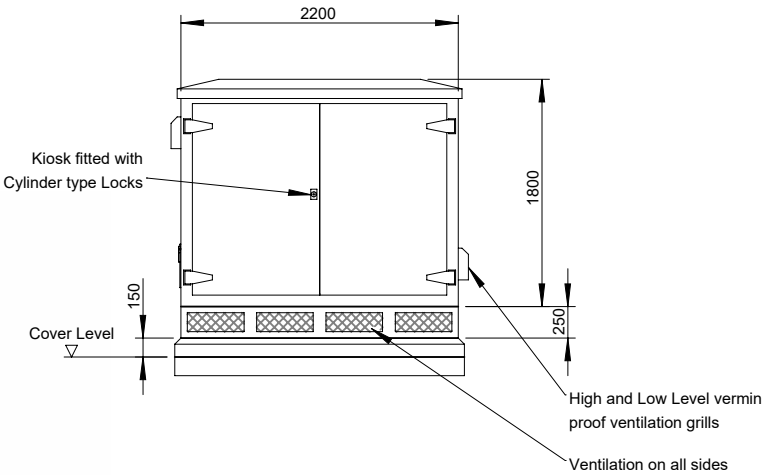
Kiosk Details	
External Colour	Green (14-C-39)
Internal Colour	White (00-E-55)
Wall & Roof Construction	GRP/18mm/GRP
Fire Resistance	BS476 Part 22- 1/2hr
External Finish	Semi-Gloss: Smooth



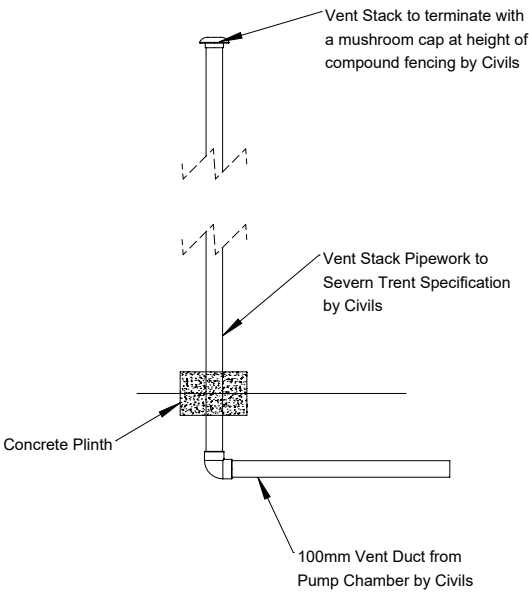
STORAGE KIOSK



Kiosk Details	
External Colour	Green (14-C-39)
Internal Colour	White (00-E-55)
Wall & Roof Construction	GRP/18mm/GRP
Fire Resistance	BS476 Part 22- 1/2hr
External Finish	Semi-Gloss: Smooth



VENT STACK



Approved by:

Date:

Signed:

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Notes

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6. Cable ducts to be installed by civil contractor complete with draw-cords. Specific sizes shown within drawing detail.
7. Cable ducts to be sealed with 'Rise' sealant by APS.
8. All structural calculations to be completed by structural engineer. APS have no involvement with the design of wet well cover and base slab.
9. Flow calculations based on 90mm OD HPPE SDR17 Rising Main subject to conformation by STW
10. Pump chamber considered as ST Zone BZ.
11. To be read in conjunction with drawings STD1018-02 and STD1019-01.
12. The pumping station is not susceptible to flooding during the 1:30 year return storm period and all electrical equipment is either water resistant or positioned above the 1:200 year return storm period.
13. All fittings are to be stainless steel.
14. The compound and tanker hard standing will be a brushed concrete finish.
15. The pumps are to be labelled 'Pump1' & 'Pump2'.
16. Duplicate pump set information plate will be installed to the control kiosk door adjacent to the panel.
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23. All extraneous metal work is to be equipotentially bonded with safety electrical earth 'do not remove' labels fitted.
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29. All drains/ducts will be cut back flush with chamber walls by Civils.
30. Compound will be cleared and weeds removed, prior to adoption by Civils.
31. All earthing cables will be installed with an 'Electrical earth - Do not remove' note.
32. Civils to use Expansion Joints every 6m.
33. There should be a minimum of 15m horizontal clearance between Pump Station and nearest habitable building.
34. STW to confirm pipework sizes upon pump selection.

D	Invert Level Updated	23/11/2022	GR
C	Compound Layout Updated	29/09/2022	GR
B	Pump Selection updated. Step Rungs added to IC	11/11/2021	CW
A	Drawing for Approval	11/10/2021	CW
Issue:	Description:	Date:	Auth:

 Tel: 01743465463
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all pump solutions
FLUID EXPERTISE

Title: **Adoptable Foul Water Pumping Station to Severn Trent Water Addendum Kiosk Detail**

Contract: **Old Gloucester Road, Cheltenham**

Contractor: **Infrastructure CS Ltd**

Consulting Engineer:

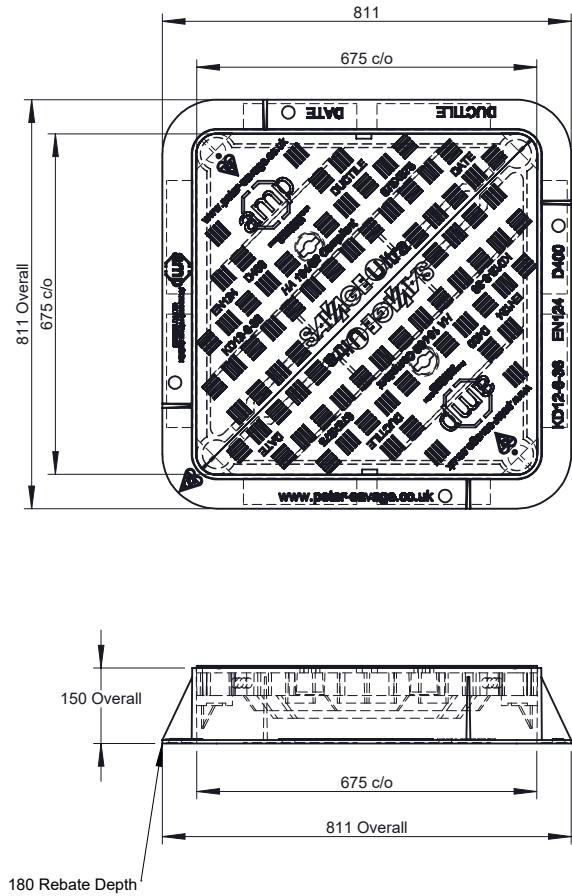
Works Order Number: **WO7110**

Size:	Scale:	Drawn:	Checked:	Approved:
A3	1:50	CW	DH	DH

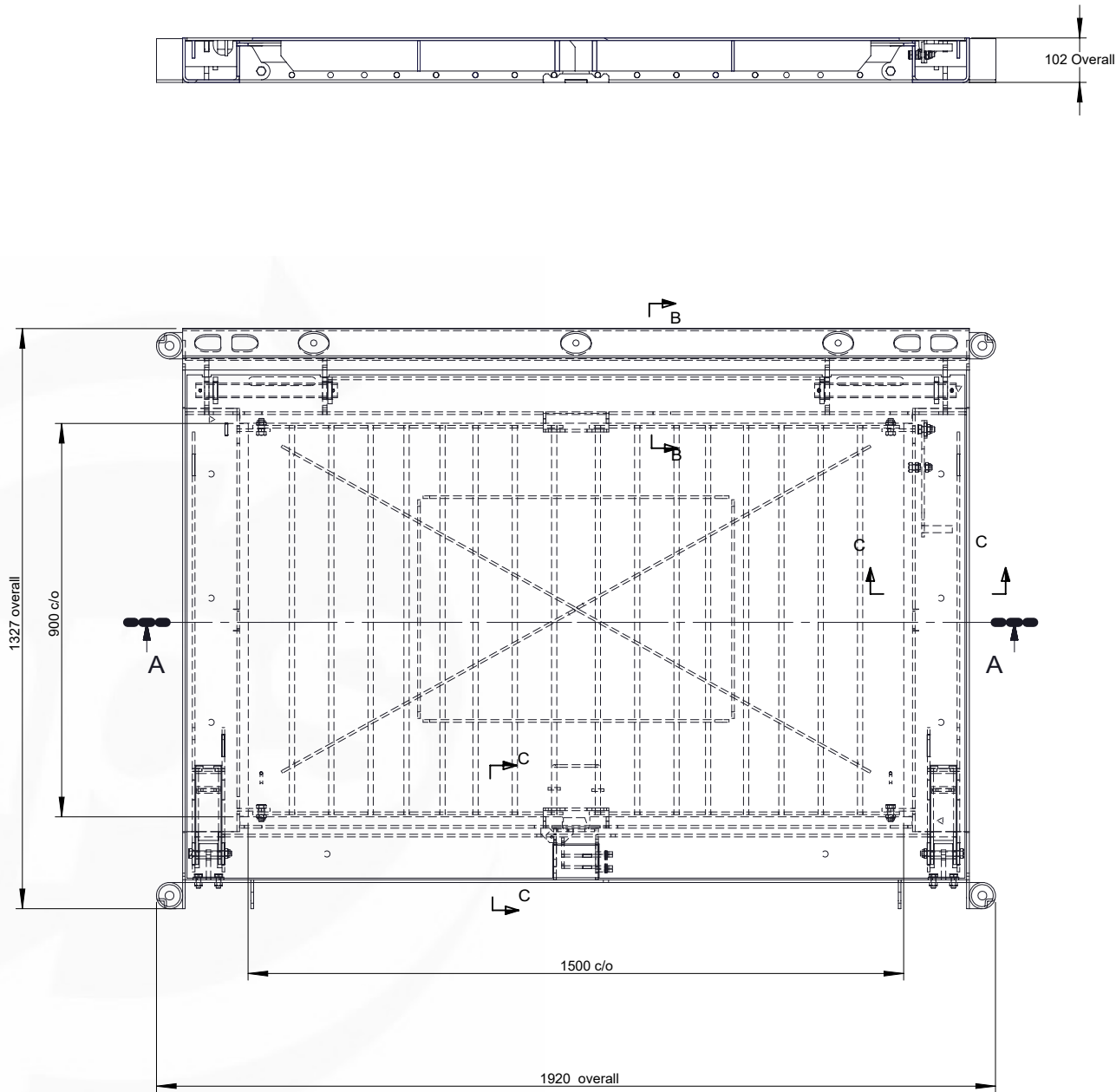
Drawing Number: **EQ4515-150789-500** Date: **11/10/2021**

Internal Reference: **EQ4515** Issue: **D**

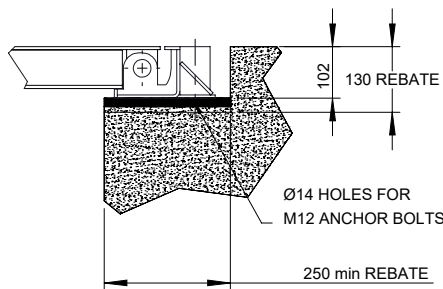
INLET CHAMBER ACCESS COVER - D400



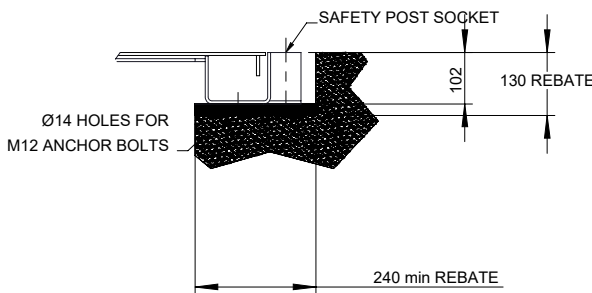
PUMP CHAMBER ACCESS COVER - FACTA C



SECTION B-B



SECTION C-C



Approved by:

Date:

Signed:

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Notes

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5. Batching to be completed by Civils after APS installation.
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8. All structural calculations to be completed by structural engineer. APS have no involvement with the design of wet well cover and base slab.
9. Flow calculations based on 90mm OD HPPE SDR17 Rising Main subject to conformation by STW
10. Pump chamber considered as ST Zone BZ.
11. To be read in conjunction with drawings STD1018-02 and STD1019-01.
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13. All fittings are to be stainless steel.
14. The compound and tanker hard standing will be a brushed concrete finish.
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16. Duplicate pump set information plate will be installed to the control kiosk door adjacent to the panel.
17. The lifting equipment will be load tested and LEAP tagged prior to formal adoption of the station.
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29. All drains/ducts will be cut back flush with chamber walls by Civils.
30. Compound will be cleared and weeds removed, prior to adoption by Civils.
31. All earthing cables will be installed with an 'Electrical earth - Do not remove' note.
32. Civils to use Expansion Joints every 6m.
33. There should be a minimum of 15m horizontal clearance between Pump Station and nearest habitable building.
34. STW to confirm pipework sizes upon pump selection.

D	Invert Level Updated	23/11/2022	GR
C	Compound Layout Updated	29/09/2022	GR
B	Pump Selection updated. Step Rungs added to IC	11/11/2021	CW
A	Drawing for Approval	11/10/2021	CW

Issue: Description:

Date:

Auth:



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Fax: 01743452050
Email: sales@allpumpsolutions.com

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FLUID EXPERTISE

Title:

Adoptable Foul Water Pumping Station to Severn Trent Water Addendum
Access Covers

Contract:

Old Gloucester Road, Cheltenham

Contractor:

Infrastructure CS Ltd

Consulting Engineer:

Works Order Number:

WO7110

Size:

A3

Scale:

1:15

Drawn:

CW

Checked:

DH

Approved:

DH

Drawing Number:

EQ4515-150789-600

Date:

11/10/2021

Internal Reference:

EQ4515

Issue:

D