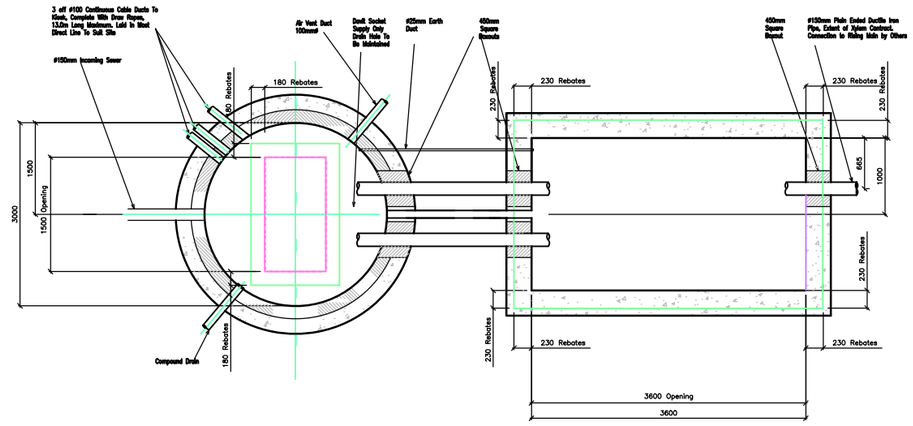
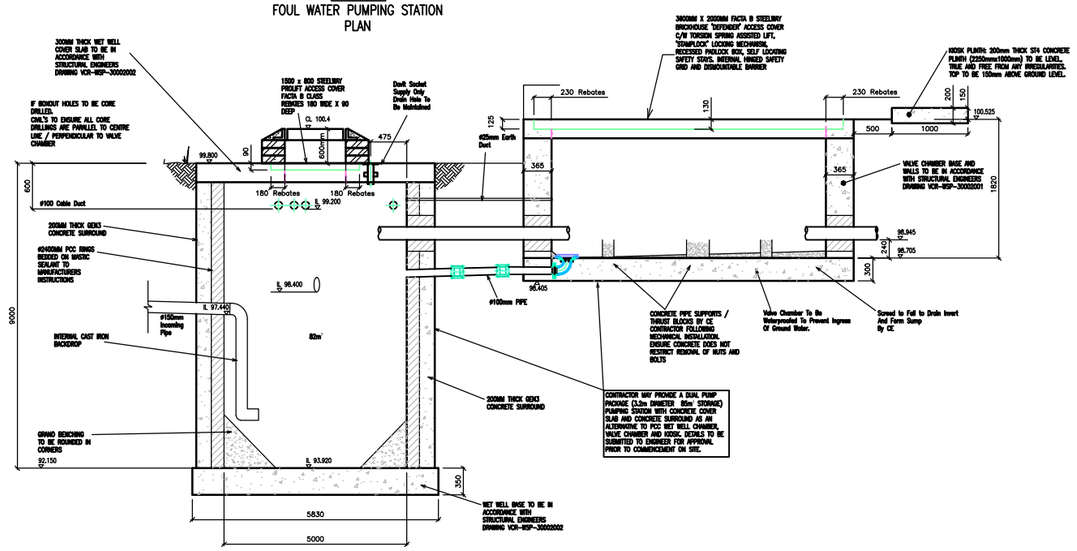
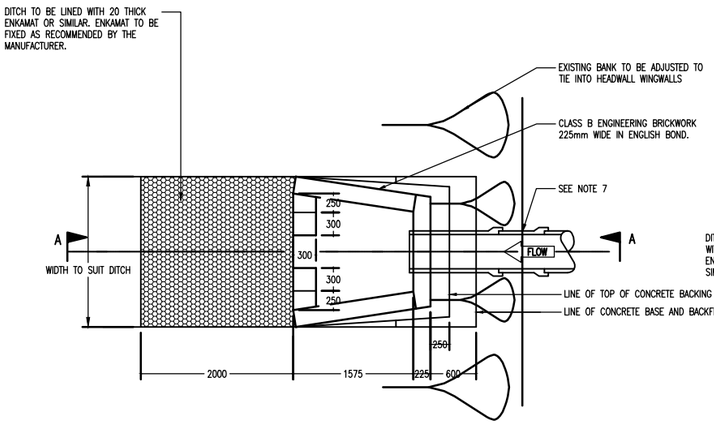


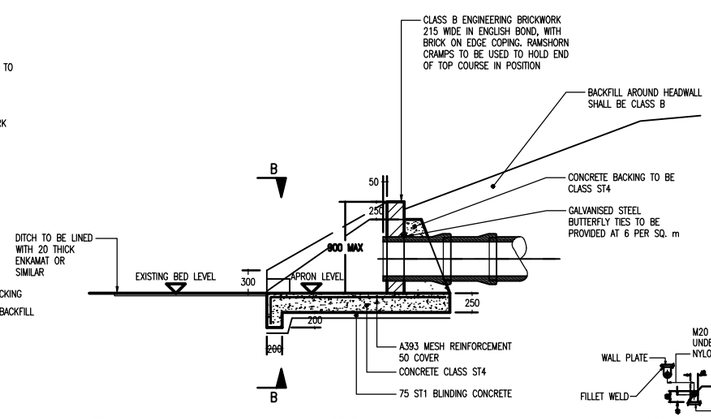
DETAIL 11
FOUL WATER PUMPING STATION
PLAN



SECTION

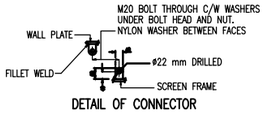


PLAN

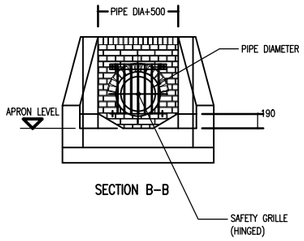


SECTION A–A

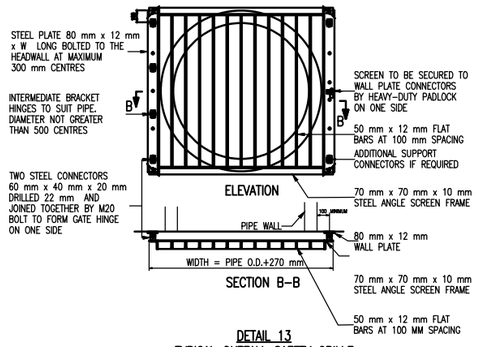
DETAIL 12
HEADWALL DETAIL TYPE 2
OUTFALL TO EXISTING DITCH



DETAIL OF CONNECTOR



SECTION B–B



DETAIL 13
TYPICAL OUTFALL SAFETY GRILLE
ARRANGEMENT DETAIL

DO NOT SCALE

NOTES:

1. ALL LEVELS ARE IN METRES AT 34.0m ABOVE ORDNANCE DATUM.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE DRAINAGE STRATEGY DRAWING 3775-WSP-00-ZZ-DR-CE-1002.
3. ALL WORKS TO BE IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF THE SPECIFICATION DOCUMENT SEWERS FOR ADOPTION 6TH EDITION. THE CLAUSE NUMBERS REFERED BELOW RELATE TO THE SPECIFICATION ABOVE UNLESS STATED OTHERWISE.
4. MANHOLE COVERS AND FRAMES SHALL COMPLY WITH BS EN 124, BS7903 AND CLAUSE E2.32
5. MANHOLE FRAMES SHALL BE SET LEVEL, BEDDED AND HAUNCHED TO CL E8.7
6. MANHOLE FRAME SHALL BE SEATED ON AT LEAST TWO COURSES OF CLASS B ENGINEERING BRICKS TO CL E8.7
7. FOR ROCKER PIPE DETAILS REFER TO CLAUSE E8.6.2
8. STEP IRONS COMPLYING WITH BS EN 14396 AND CLAUSE E2.37
9. PIPE BEDDING CLASSIFICATIONS ARE DERIVED FROM T.R.R.L DOCUMENT 'SIMPLIFIED TABLED OF EXTERNAL LOADS ON BURIED PIPELINES'.
10. ENSURE ALL MANHOLE JOINTS AND EYELET RINGS ARE COMPLETELY SEALED TO PREVENT GROUNDWATER INGRESS.
11. HEADWALL MORTAR TO CLAUSE 2404.
12. BACKFILL AROUND HEADWALL SHALL BE CLASS 6N WITH MIN ϕ'=35°. BACKFILLING NOT TO COMMENCE UNTIL WALL HAS ACHIEVED 28 DAY STRENGTH.
13. MILD STEEL FABRICATION FOR THE SAFETY GRILLE TO BE HOT DIP GALVANISED TO BS EN 1461.
14. THE DEPTH OF FOUNDATIONS FOR ALL STRUCTURES SHALL BE IN ACCORDANCE WITH NHBC STANDARDS, CHAPTER 4.2 (2011) BUILDING NEAR TREES.
15. SEE DRAINAGE LAYOUT DRAWINGS FOR LOCATIONS OF BACKDROPS, FLOW CONTROL CHAMBERS, AND APRON AND INVERT LEVELS.
16. IF FIRST PIPE BEYOND JUNCTION IS ENCASED IN CONCRETE A FLEXIBLE BOARD SHALL BE INSERTED AND THE CONCRETE PIPE SURROUND CONTINUED UP TO THE JOINT WITH ROCKER PIPE.
17. PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 AND BS EN 13598-2 OR HAVING EQUIVALENT INDEPENDANT APPROVAL.
18. WHERE THE ACCESS CHAMBER IS IN THE HIGHWAY THE HIGHWAY AUTHORITY CAN HAVE SPECIFIC REQUIREMENTS.
19. BOND BREAK TO BE PROVIDED BETWEEN CONCRETE COLLAR AND SHAFT TO PREVENT FRAME AND COLLAR BEARING ONTO SHAFT.
20. JOINTS BETWEEN BASE AND SHAFT AND SHAFT COMPONENTS TO BE FITTED WITH WATERTIGHT SEALS.
21. BASE UNIT TO HAVE ALL CONNECTIONS OF PIPES OF 150mm dia OR LARGER SOFFIT TO SOFFIT AND SMALLER BRANCH CONNECTIONS TO HAVE INVERT 50mm ABOVE THE MAIN RUN.
22. ENKAMAT BANK PROTECTION TO BE INSTALLED WITH DTICH HEADWALL TO MANUFACTURERS RECOMMENDATIONS. ENKAMAT IS MANUFACTURED BY MMG.
23. A FLEXIBLE JOINT SHALL BE PROVIDED AS CLOSE AS POSSIBLE TO THE HEADWALL IN THE FORM OF A ROCKER PIPE. FOR OUTFALL PIPE DIAMETERS UP TO 600 AND 750, THE EFFECTIVE LENGTH OF ROCKER PIPES ARE TO BE 600 AND 1000 RESPECTIVELY.
24. BRICKWORK SHALL BE FLEMISH BOND IN CLASS B ENGINEERING BRICKS TO BS 3921 LAID ON DESIGNATION (i) MORTAR TO CLAUSE 2404.
25. SCHEDULED DIMENSIONS TO BE ADJUSTED AS DIRECTED BY THE ENGINEER ON SITE.
26. MILD STEEL HANDRAIL 1100 HIGH FIXED TO BRICKWORK AS RECOMMENDED BY MANUFACTURER. HANDRAIL TO BE COATED WITH AN ALL WEATHER COATING (COATING TO MANUFACTURERS RECOMMENDATIONS).

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	04/09/2018	MM	WET WELL UPDATED	MP	MP
P02	01/02/2018	MM	KIOSK PLINTH ADDED. NOTES 1 REVISED. WET WELL INCOMING PIPE IL AMENDED.	AJG	MP
P01	15/12/2017	MJH	FIRST ISSUE	AJG	MP

DRAWING STATUS: S2 - FOR INFORMATION

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CLIENT: ATLAS HOTELS GROUP

ARCHITECT: NORR

SITE/PROJECT: HOLIDAY INN EXPRESS BICESTER GATEWAY

TITLE: DRAINAGE CONSTRUCTION DETAILS SHEET 2 OF 2

SCALE @ A1:	CHECKED:	APPROVED:
NTS	AJG	MB

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70033775	MM	MM	September 18

DRAWING No: 3775-WSP-00-ZZ-DR-CE-1006 REV: P03

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File name: UK.WSPGROUP.CONCENTRAL.DATA\PROJECTS\70033775\00\70033775-BICESTER GATEWAY HOTEL\02 WIP\DRAWINGS\3775-WSP-00-ZZ-DR-CE-1006.DWG, printed on 05 September 2018 14:40:20, by Beaumont, Mark