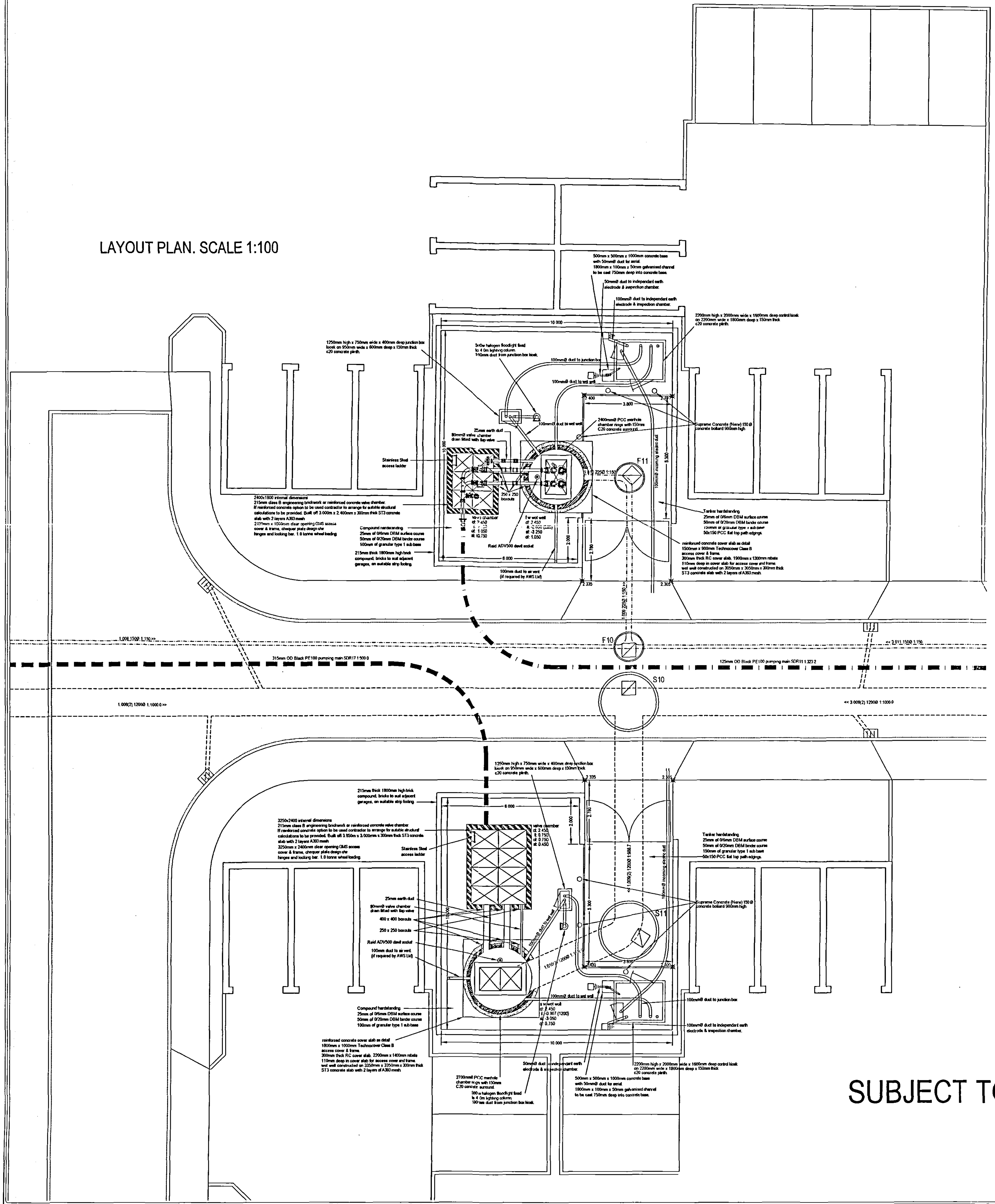
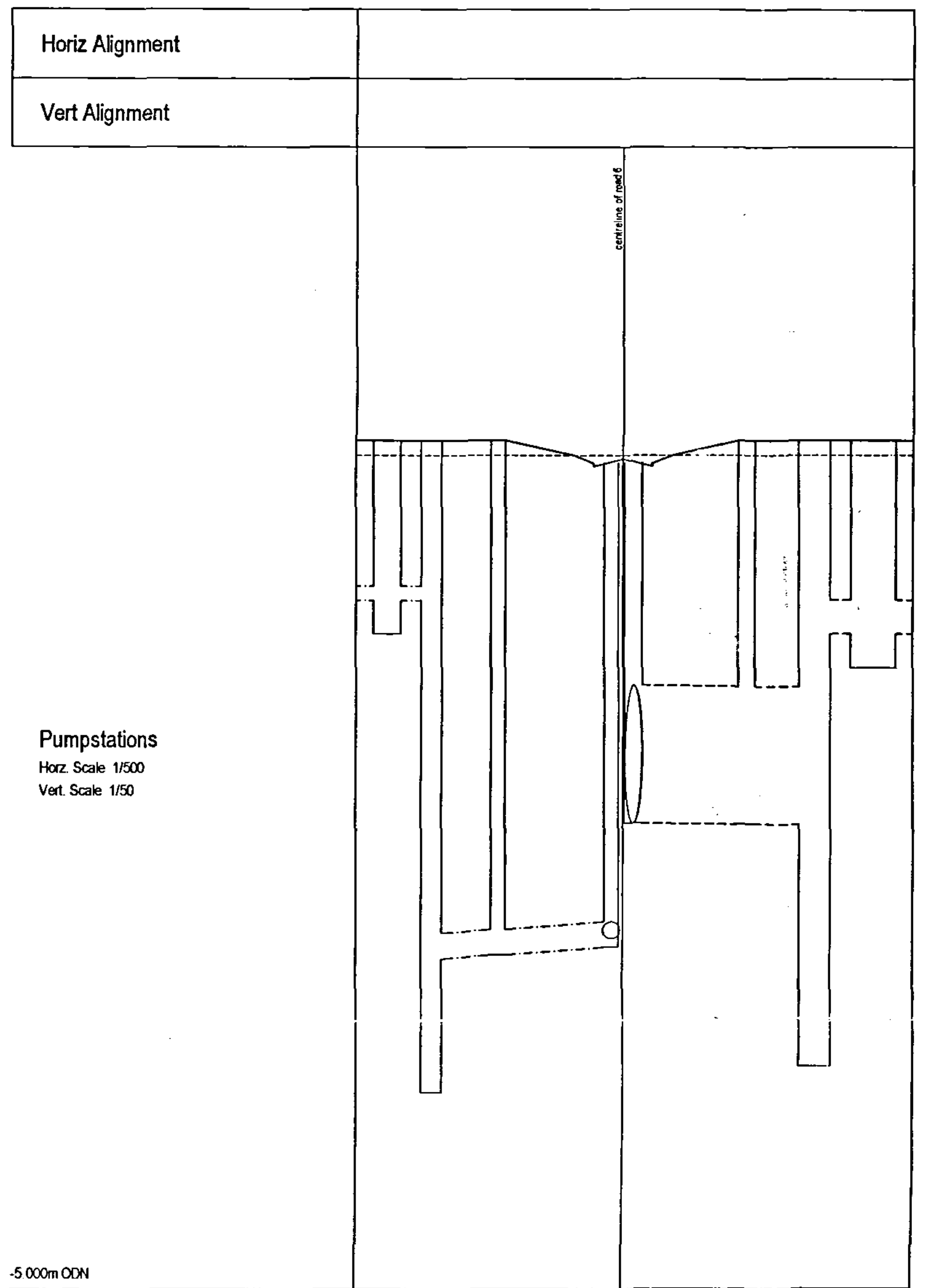
SUBJECT TO PUMP CONTRACTORS DETAILED M&E PROPOSALS

LAYOUT PLAN. SCALE 1:100


500mm x 500mm x 1000mm concrete base with 50mmØ duct for aerial.
1800mm x 100mm x 50mm galvanised channel to be cast 750mm deep into concrete base.
50mmØ duct to independant earth electrode & inspection chamber.
100mmØ duct to independant earth electrode & inspection chamber.
2200mm high x 2000mm wide x 1600mm deep control kiosk on 2200mm wide x 1800mm deep x 150mm thick c20 concrete plinth.
1250mm high x 750mm wide x 400mm deep junction box kiosk on 950mm wide x 600mm deep x 150mm thick c20 concrete plinth.
500w halogen floodlight fixed to 4.0m lighting column. 100mm duct from junction box kiosk.
100mmØ duct to junction box
100mmØ duct to wet well
10 000
2 400
3.800
2400mmØ PCC manhole chamber rings with 150mm C20 concrete surround
Supreme Concrete (Nene) 150 Ø concrete bollard 900mm high
25mm earth duct
80mmØ valve chamber drain fitted with flap valve
Stainless Steel access ladder
250 x 250 boxouts
F11
225Ø 1:150
100mmØ incoming electric duct
5.300
2400x1800 internal dimensions
215mm class B engineering brickwork or reinforced concrete valve chamber. If reinforced concrete option to be used contractor to arrange for suitable structural calculations to be provided. Built off 3.000m x 2.400mm x 300mm thick ST3 concrete slab with 2 layers A393 mesh
2400mm x 1800mm clear opening GMS access cover & frame, chequer plate design c/w hinges and locking bar. 1.0 tonne wheel loading.
valve chamber
cl: 2.450
il: 1.050
cl: 1.050
sl: 0.750
f w wet well
cl: 2.450
sl: -3.250
cl: 1.050
Compound hardstanding
25mm of 0/6mm DBM surface course
50mm of 0/20mm DBM binder course
100mm of granular type 1 sub base
215mm thick 1800mm high brick compound, bricks to suit adjacent garages, on suitable strip footing.
Reid ADV500 davit socket
6.000
2.000
2.780
100mm duct to air vent. (if required by AWS Ltd)
Tanker hardstanding
25mm of 0/6mm DBM surface course
50mm of 0/20mm DBM binder course
150mm of granular type 1 sub base
50x150 PCC flat top path edgings.
reinforced concrete cover slab as detail
1500mm x 900mm Technocover Class B access cover & frame.
300mm thick RC cover slab. 1900mm x 1300mm rebate 110mm deep in cover slab for access cover and frame.
wet well constructed on 3050mm x 3050mm x 300mm thick ST3 concrete slab with 2 layers of A393 mesh.
2.335
2.305
1.009 225Ø 1:150
F10
315mm OD Black PE100 pumping main SDR17 1:500 0
125mm OD Black PE100 pumping main SDR11 1:323 2
S10
S11
3250x2400 internal dimensions
215mm class B engineering brickwork or reinforced concrete valve chamber. If reinforced concrete option to be used contractor to arrange for suitable structural calculations to be provided. Built off 3.850m x 3.000mm x 300mm thick ST3 concrete slab with 2 layers A393 mesh
3250mm x 2400mm clear opening GMS access cover & frame, chequer plate design c/w hinges and locking bar. 1.0 tonne wheel loading.
valve chamber
cl: 2.450
il: 0.750
cl: 0.750
sl: 0.450
1.009(2) 1200Ø 1:988.7
400 x 400 boxouts
1.010(2) 1200Ø
s w wet well
cl: 2.450
il: -0.907 (1200)
sl: -3.050
cl: 0.750
10.000
2700mmØ PCC manhole chamber rings with 150mm C20 concrete surround.
reinforced concrete cover slab as detail
1800mm x 1000mm Technocover Class B access cover & frame.
300mm thick RC cover slab. 2200mm x 1400mm rebate 110mm deep in cover slab for access cover and frame.
wet well constructed on 3350mm x 3350mm x 300mm thick ST3 concrete slab with 2 layers of A393 mesh



-5.000m ODN

Ex Ground Level	2.32
Prop Road Level	2.450 2.324 2.252 2.227 2.290 2.227 2.252 2.324 2.450
Foul Manhole	v chamber wet well F11 F10
Pipe Details	2400x1800 1800 225 1:150 3.15 1200 225 1:150 7.36 1200
Cover Level	2.450 2.450 2.370 2.260
Invert Level	1.050 outlet -3.279 sump -2.050 inlet -2.029 -1.980 -1.905
Storm Manhole	S10 S11 wet well v chamber
Pipe Details	2400 1200 1:988.7 9.89 2400 1200 1:176.0 5.88 2700 3250x2400
Cover Level	2.260 2.450 2.450 2.450
Invert Level	-0.892 -0.902 -0.907 inlet -3.050 sump 0.750 outlet
Chainage	-23.180 -4.300 -2.500 0.000 2.500 4.300 25.320

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NOTES:

ALL SEWERS TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROCEDURES AND SPECIFICATIONS OF SEWERS FOR ADOPTION 5TH EDITION (JULY 2001), ADDITIONS AND DELETIONS TO SEWERS FOR ADOPTION 5TH EDITION (NOVEMBER 2001) AND THE COMBINED ADDENDUM (JULY 2003).

STORM BRANCH CONNECTIONS TO BE 150mm dia. LAID NO STEEPER THAN 1:5 AND NO FLATTER THAN 1:150.

GULLY CONNECTIONS TO BE 150mm dia. LAID NO FLATTER THAN 1:175.

FOUL BRANCH CONNECTIONS TO BE 150mm dia. LAID NO STEEPER THAN 1:5 AND NO FLATTER THAN 1:150.

ALL PIPEWORK TO BE LAID SOFFIT TO SOFFIT UNLESS OTHERWISE STATED.

ALL PIPES 300mmØ & GREATER WITH COVER EXCEEDING 1.2m TO BE STRENGTH CLASS 120 TO BS5911-1:2002 WITH CLASS S BEDDING (20mm - 5mm GRAVEL BED AND SURROUND).
ALL CLAY PIPES 150mmØ & 225mmØ DITTO TO BE EXTRA STRENGTH WITH CLASS S BEDDING (14mm - 5mm GRAVEL BED AND SURROUND).
ALL PIPES 300mmØ & GREATER WITH COVER LESS THAN 1.2m TO BE STRENGTH CLASS 120 TO BS5911-1:2002 WITH CONCRETE PROTECTION.
ALL CLAY PIPES 150mmØ & 225mmØ DITTO TO BE EXTRA STRENGTH WITH CONCRETE PROTECTION.

PRECAST CONCRETE PRODUCTS AND IN-SITU CONCRETE TO CONTAIN A MINIMUM CLASS 3 S.R.C.

STRUCTURAL CONCRETE TO BE IN ACCORDANCE WITH BS 5328 AND NOT TO BE LESS THAN GRADE FND2 WHEN REINFORCED AND GEN3 IN ALL OTHER SITUATIONS.

CAST CONCRETE SHALL BE FINISHED TO PRODUCE A "FAIR" SURFACE WHERE EXPOSED AND SHALL HAVE A "ROUGH" FINISH IN ALL OTHER SITUATIONS. (FINISHES AS DEFINED IN CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY - 5TH EDITION).

STEELWORK SHALL BE IN ACCORDANCE WITH BS4483.

ALL MANHOLE COVERS TO BE 600x600 CLEAR OPENING IN ACCORDANCE WITH B.S. EN124 CLASS D400 AND EMBOSSED FW OR SW AS APPROPRIATE.

MANHOLES ON SEWERS 600mm DIAMETER AND GREATER TO BE FITTED WITH SAFETY CHAINS TO AWS DRG SD/S/05.

○ DENOTES GULLY POSITION ON LONG SECTION.

SHDC
PLANNING & DEVELOPMENT
15 MAY 2006
Ref. 0676/06

DO NOT SCALE. USE FIGURED DIMENSIONS ONLY. CHECK ON SITE AND ALL DISCREPANCIES TO BE REPORTED TO GBM CIVILS - DESIGN & BUILD.

AMENDMENTS:

REF.	DESCRIPTION.	DATE.	BY.
A	AMENDED FOLLOWING REPLAN AND AWS COMMENTS	20.02.06	GWH

GBM CIVILS
21 FEB 2006
PRELIMINARY ISSUE

CLIENT:
BROADGATE HOMES LTD

PROJECT:
THE HAYFIELDS
WYGATE PARK
SPALDING

TITLE:
PUMP STATION GENERAL ARRANGEMENTS

SCALE: AS SHOWN

DATE: OCTOBER 2005

DRAWING No: 0507/06-A

DRAWN BY:

CHECKED BY: I.W

DETERMINED PLAN

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