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NOTES:

ALL SERVICES PROPOSED FOR ADOPTION SHOWN ALL DETAILS TO BE IN ACCORDANCE OF THE WATER INDUSTRY ACT 1991 TO BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 6th EDITION AND THE WATER SUPPLY (WATER FITTINGS) REGULATIONS 1999 AMENDMENT REGULATIONS 2001 AND ALL RELEVANT BRITISH STANDARDS AND CODES OF PRACTICE (SECTION 4 BS8301:1985)

FOUL DRAINAGE CONNECTIONS TO BE 150mm dia. GRP OR PLASTICS TRAP c/w VISIBLE GREEN PLASTICS SHEATH. CONNECTIONS TO BE MADE WITH 150mm dia. GRP OR PLASTICS TRAP c/w PRESS SEATING. ALTERNATIVELY BRASS CROSS-STOPPERED PLUGGED.

ALL SEWERS AND LATERAL DRAINS WITHIN DOMESTIC CURTILAGE OF DWARTERS 100mm dia. UNLESS TO BE PVC-U TO BS EN 1401-1:1998 & BS 4660:2000.

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

ALL PIPES 150mm dia. OR 225mm dia. TO BE PROVIDED WITH CLASS C BEDDING. 150mm - 5mm GRAVEL SIZE AND 150MM BEYOND.

ALL PIPES 150mm dia. OR 225mm dia. TO BE PROVIDED WITH CONCRETE PROTECTION.

PRECAST CONCRETE PRODUCTS ARE BS 5911 CONCRETE TO GRADE A MINIMUM CLASS C 32.5.

ALL CONCRETE TO BE IN ACCORDANCE WITH BS 5328 AND MIX TO BE AS C20/25mm GRADE FREE WHERE REINFORCED AS 40N/20N OR AS OTHERWISE STATED.

CAST CONCRETE SHALL BE FINISHED TO PROVIDE A "HARD" SURFACE WHERE EXPOSED AND SHALL HAVE A "SMOOTH" FINISH OR AS OTHER SPECIFIED.

TYPICAL WORK SHALL BE AS LOCALLY APPROVED BY ENGINEER.

ALL MANHOLE COVERS TO BE airbrake® CLEAR OPENING IN ACCORDANCE WITH B.S. EN124 CLASS D400 AND EMBOSSED WITH

Drainage Notes

Plot 1 BENCHED CAST-IN PLOT MANHOLE
BS 5486 BENCHED COLLECTOR CAST-IN PRECAST FLOOR (LTEE), NORMALLY 450mm DEEPER EXISTING GROUND LEVEL, max 1.000m DEEP
CI 431 BENCHED EXISTING GROUND LEVEL

- 150mm Ø new F/water pipe c/w 150 - PLASTIC FIXED WATER SCREEN (Green).
- 225mm Ø new SW/FW SEWER PIPE. FOUL WATER PUMPING MAIN (Green).
- 150mm Ø new F/water pipe c/w 150 PIPE. WATER PIPELINE (Blue) (PRIVATE).
- 150mm Ø, 225mm Ø, 300mm Ø SEWERAGE WATER LINE DRAIN (PRIVATE).

- STF SOFFIT®
- MANHOLE / WATER / SEWERAGE ADAPTOR
- PRE-POLYPROPYLENE ACCESS CHAMBER TYPE 1 (PRIVATE) - FOUL
- POLYPROPYLENE MINI ACCESS CHAMBER TYPE 1 (PRIVATE) - FOUL
- PRE-POLYPROPYLENE ACCESS CHAMBER TYPE 1 (PRIVATE) - SURFACE WATER
- 1200mm Ø PRECAST CONCRETE MANHOLE (PRIVATE) - FOUL
- 1200mm Ø PRECAST CONCRETE MANHOLE (PRIVATE) - SURFACE WATER
- RECTANGULAR UNITS - LARGE GENERAL PURPOSE PRE-FORMED RECEIVING & INSPECTION CHAMBER (SEE DRAWING)

PRE-POLYPROPYLENE ACCESS CHAMBERS (TYPE 1) TO BE DESIGN OF TO A Class B125
ALL CHAMBER COVERS AND FRAMES TO BE DUCTILE IRON TO BS EN 124 CLASS D400 WITH SEATING BELL LOCATE.
ALL CHAMBER WITHIN CARRIAGEWAYS AREAS, INSPRACE AND PARTS BUILT TO BE FITTED WITH BS EN 124 CLASS D 400 CERTIFIED.
ALL CHAMBERS WITHIN VEHICULAR AFFORDED AREAS TO BE FITTED WITH BS EN 124 CLASS D 400 CERTIFIED. OTHER PROPERTIES WITH 150mm DEEP C/W CONCRETE COLLAR.
WHERE CHAMBERS ARE WITHIN 1.0m OF ANY BUILDING AND THE DEPARTURE LEVEL OF THE CHAMBERS IS MORE THAN 600mm BELOW BUILDING FOUNDATIONS, ALL SUCH CHAMBERS ARE TO BE CONSTRUCTED WITH 150mm MINIMUM CONCRETE SURROUND (GRADE C20) EXTENDING BEYOND THE CHAMBER FOUNDATIONS.
DOMESTIC MANHOLE TO BE PVC-U TO BS EN 1401-1:1998 & BS 4660:2000.
150mm Ø DOMESTIC MANHOLE (see Table) THE LOOR PAN TO LETTER TRAP c/w Quad. 2 AND (surface) CHAMBER PRESS STRENGTHENED COATED.
150mm Ø DOMESTIC MANHOLE (see Table) THE LOOR PAN TO LETTER TRAP c/w GRADIENT UNLESS OTHERWISE STATED.

Point	Easting	Northing	Elevation
9000	526782.437	343828.670	2.250
9002	526795.006	343806.622	2.205
9004	526870.212	343815.387	2.241
9005	526911.243	343828.479	2.258
9006	526914.772	343898.153	2.461
9007	526924.814	343947.027	2.549
9008	526938.025	343970.103	2.171
9009	526963.781	343934.939	2.041
9010	526955.091	343898.096	2.136
9011	526883.830	343901.735	2.475
9012	526967.429	343772.336	3.228

Table 1: Summary of soakaway results

Trial pit	Fill 1 (m/s)	Fill 2 (m/s)	Fill 3 (m/s)
TP1	$1.56x10^{-4}$ m/s	$8.43x10^{-5}$ m/s	$1.50x10^{-4}$ m/s
TP2	$9.27x10^{-5}$ m/s	$7.07x10^{-5}$ m/s	$5.78x10^{-5}$ m/s
TP3	$2.41x10^{-4}$ m/s	$5.44x10^{-5}$ m/s	$2.21x10^{-5}$ m/s
TP4	$1.12x10^{-4}$ m/s	$1.88x10^{-5}$ m/s	$1.38x10^{-4}$ m/s
TP5	No infiltration	No infiltration	No infiltration
TP6	No infiltration	No infiltration	No infiltration
TP7	$4.51x10^{-5}$ m/s	$2.63x10^{-5}$ m/s	$2.29x10^{-5}$ m/s
TP8	$5.51x10^{-5}$ m/s	$5.05x10^{-5}$ m/s	$6.58x10^{-5}$ m/s
TP9	$1.20x10^{-4}$ m/s	$5.89x10^{-5}$ m/s	$3.17x10^{-5}$ m/s

sheet 11 of 11
sheet 10 of 11 | sheet 9 of 11 | sheet 8 of 11
sheet 7 of 11 | sheet 6 of 11 | sheet 5 of 11
sheet 4 of 11 | sheet 3 of 11 | sheet 2 of 11 | sheet 1 of 11

Road Widths (including channel widths)

Road No	Type	Material	Width (m)
1	2-way	Tarmac	6.00
2	1-way	Tarmac	3.50
3	1-way	Stone	3.50
4	1-way	Stone	3.50
5	1-way	Stone	3.50
6 (2)	2-way	Stone	6.00
7	1-way	Stone	3.50
8	1-way	Stone	3.50
9	1-way	Stone	3.50
10	1-way	Stone	3.50
11	1-way	Stone	3.50
12	1-way	Stone	3.50

DO NOT SCALE. USE FIGURED DIMENSIONS ONLY. CHECK ON SITE AND ALL DISCREPANCIES TO BE REPORTED TO HALL infrastructure DESIGN Ltd.

AMENDMENTS:

REF.	DESCRIPTION.	DATE.	BY.
A	Issued for Planning	04.02.20	GM
B	Updated with the adjacent Hubberts Bridge Community Centre.	19.02.21	LNH
C	Schemes PWPS moved to their requirements.	08.03.21	LNH

CLIENT:
Boston West Holiday Park Ltd

PROJECT:
Boston West Golf Centre

TITLE:
Road and Sewer Layout
sheet 1 of 11

SCALE:	DATE:	SIZE:
1:250	November 2020	A0

DRAWING No:	DRAWN BY:	CHECKED BY:
2011/04/C		

HALL INFRASTRUCTURE DESIGN LTD.
Silverdale, 116 Humberston Avenue,
Humberston, N E Lincs, DN36 4SU
Tel: 01472 814137 Mob: 07891 503179
email: hall.design@btinternet.com
web: sites.google.com/site/hallinfrastructuredesign

Boston West Hotel 2. fill:2.50

Dashed lines denote proposed 16-bed Hotel extension with bar and lounge and car parking facilities, similar to PP B/17/0302 (taken from AHR dg 6413-B003-A)

Boston West Golf Clubhouse

Proposed FWPS - to serve the new clubhouse plus clubhouse extension, hotel and hotel extension.

1.036 49.60m long Foul Water Pumping Main 125mm OD HPPE SDR11, laid at a constant gradient of 1:26 falling. Foul Pumping Main marked with non-degradable marker tape containing a trace wire terminating with 1m of wire coiled inside valve chamber. Marker tape to be provided above the rising main. The marker tape should include a tracer wire that is terminated at the valve chamber and outfall manhole in such a way as to facilitate the easy connection of a location signal generator.

1.037 88.40m long Foul Water Pumping Main 125mm OD HPPE SDR11, laid at a constant gradient of 1:500 rising. Foul Pumping Main marked with non-degradable marker tape containing a trace wire terminating with 1m of wire coiled inside valve chamber. Marker tape to be provided above the rising main. The marker tape should include a tracer wire that is terminated at the valve chamber and outfall manhole in such a way as to facilitate the easy connection of a location signal generator.

Pond

Endos

Greenside

West View

Langham House

Gilholme

Hubberts Bridge Community Centre

Hubberts Bridge FWPS

El Sub Sta

LANGRICK ROAD

Dram

3.1m

north