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NOTES:

ALL SEWERS PROPOSED FOR ADOPTION UNDER A SECTION 104 AGREEMENT OF THE WATER INDUSTRY ACT 1991 TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS AND SPECIFICATIONS OF SEWERAGE SECTOR GUIDANCE (SSG) V2.1 (UNE 2022) AND DESIGN AND CONSTRUCTION GUIDANCE (DCG) V2.2 (UNE 2022).
PRIVATE FOUL DRAINS CONNECTIONS TO BE 150mm dia. LAID NO FLATTER THAN 1:60 WHERE SERVING 5 PLOTS OR LESS AND 150mm dia. LAID NO FLATTER THAN 1:150 WHERE SERVING 19 PLOTS OR MORE. (UNLESS OTHERWISE STATED).
ALL SEWERS AND LATERAL DRAINS WITHIN DOMESTIC CURTILAGE OF DWARFTER 100mm AND 150mm TO BE EITHER CLAY PIPES EXTRA STRENGTH OR PVC-U TO BS EN 1401-1:1996 & BS 4660:2000.
ALL PRIVATE DRAINS CONNECTIONS WITHIN ADOPTED HIGHWAY TO BE CLAY PIPES EXTRA STRENGTH.
ALL PIPEWORK TO BE LAID AND BEDDED TO SAFETY UNLESS OTHERWISE STATED.
ALL HIGHWAY DRAINAGE PIPES TO BE POLYPIPE HIGHGRAIN FULLY PERFORATED (IN FILTER STRIPS AND INFILTRATION SWALES) OR POLYPIPE HIGHGRAIN SOLID (IN ROAD CROSSING LOCATIONS AND THROUGH PUBLIC OPEN SPACE) WITH CLASS S BEDDING (10mm - 5mm GRAVEL RED & SERRIBOND UNLESS DENOTED OTHERWISE). CONCRETE PROTECTION PROVIDED WHERE THE PIPE DOES NOT FORM PART OF A FILTER STRUCTURE AND COVER IS LESS THAN 1.2m.
ALL CLAY PIPES 150mmØ TO BE EXTRA STRENGTH WITH CONCRETE PROTECTION.
PRECAST CONCRETE PRODUCTS AND IN-SITU CONCRETE TO CONFORM A MINIMUM CLASS 1 S.R.C.
STRUCTURAL CONCRETE TO BE IN ACCORDANCE WITH BS 5328 AND NOT TO BE LESS THAN GRADE FM20 WHEN REINFORCED AND GEN3 IN ALL OTHER SITUATIONS.
EAST CONCRETE SHALL BE FINISHED TO PRODUCE A "FAIR" SURFACE WHERE EXPOSED AND SHALL HAVE A "ROUGH" FINISH IN ALL OTHER SITUATIONS. (UNLESS AS DEFINED IN CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY - 5TH EDITION).
STEEL WORK SHALL BE IN ACCORDANCE WITH BS4483.
ALL MANHOLE COVERS TO BE 600x600 CLEAR OPENING (UNLESS STATED OTHERWISE ON MANHOLE SCHEDULE or TYPE C MANHOLES) IN ACCORDANCE WITH B.S. EN124 CLASS B125 AND EMBOSSED FW OR SW AS APPROPRIATE.
THE SPECIFICATION IN ALL RESPECTS SHALL BE IN ACCORDANCE WITH THE CURRENT DEVELOPMENT ROAD AND SUSTAINABLE DRAINAGE SPECIFICATION AND CONSTRUCTION PUBLICATION IN FORCE IN THE COUNTY AT THE TIME OF CONSTRUCTION.
THE MINIMUM LONGITUDINAL FALL FOR HIGHWAYS, WITHOUT CHANNEL BLOCKS SHALL BE 1 in 150, AND WITH CHANNEL BLOCKS 1 in 250.
SEE CLAUSE 16.1.9 OF THE DEVELOPMENT ROAD AND SUSTAINABLE DRAINAGE SPECIFICATION AND CONSTRUCTION. IN ADDITION, ENSURE THAT THE FIRST SECTION OF ANY SIDE ROAD FALLS AWAY FROM THE MAIN TO WHICH IT IS CONNECTING, IF GENERAL TOPOGRAPHY REQUIRES IT TO RISE, THIS CHANGE OF DIRECTION SHOULD TAKE PLACE AFTER THE FIRST SET OF GULLIES. THIS IS TO ENSURE A VALUE CHANNEL WITH ASSOCIATED DRAINAGE PROBLEMS IS NOT CREATED IN THE BELLMOUTH OF JUNCTIONS.
GENERAL DETERIORATION OF THE EXISTING HIGHWAY / FOOTWAY / VERGES CREATED THROUGH CONSTRUCTION OF THE NEW SECTION 38 DEVELOPMENT WILL BE REINSTATED TO THE DEVELOPMENT ROAD AND SUSTAINABLE DRAINAGE SPECIFICATION AND CONSTRUCTIONS AT THE DEVELOPERS OWN COST AT THE AGREEMENT OF THE INSPECTING HIGHWAY AND FLOOD AUTHORITY OFFICER.
NO PRIVATE SURFACE WATER SHALL DISCHARGE ON TO THE ADOPTABLE HIGHWAY.
NO PRIVATE STRUCTURAL FEATURES SHALL OVERHANG THE ADOPTABLE HIGHWAY.
NO PRIVATE RETAINING WALLS EXCEEDING 1.37m SHALL BE WITHIN 3.66m OF THE HIGHWAY BOUNDARY.
ALL SIGNS AND LINE MARKINGS ARE TO BE AGREED WITH THE SENIOR HIGHWAYS OFFICER PRIOR TO CONSTRUCTION.
BT CHAMBERS AND ANGLIAN WATER METERS ARE NOT TO BE LOCATED WITHIN PEDESTRIAN CROSSING POINTS OR VEHICLE ACCESSES.
ALL PARTS OF THE DEVELOPMENT OUTSIDE HIGHWAY ADOPTED AREAS AND PRIVATE PLOT CURTILAGE ARE TO BE MAINTAINED BY THE RESIDENT MANAGEMENT COMPANY.

Domestic Curtilage Drainage Notes

Plot 1 DENOTES PLOT NUMBER
3.500 DENOTES SUGGESTED FINISHED FLOOR LEVEL
(3.35) DENOTES EXISTING GROUND LEVEL

- FW SEWER (S104) - DIA. GRAD & MATERIAL AS LAYOUT (PERFORATED PIPES).
- FW SEWER (S104) - DIA. GRAD & MATERIAL AS LAYOUT (SOLID PIPES).
- FW SEWER (S104) - 150mm Ø min 1:150 or 225mm Ø min 1:225) (10+ PLOTS).
- FW PUMPING MAIN (S104) - 90mm HD HPPE SDR17 1:100.
- COLVERTED DRAIN - DIA. GRAD & MATERIAL AS LAYOUT (PERFORATED PIPES).
- COLVERTED DRAIN - DIA. GRAD & MATERIAL AS LAYOUT (SOLID PIPES).
- 150mm Ø gully connection (CLAY PIPES) HIGHWAY DRAINAGE (S38)
- 100mm Ø min 1:60) 150mm Ø min 1:150) SW HOUSE DRAIN (PRIVATE).
- 100mm Ø min 1:60) 150mm Ø min 1:150) FW HOUSE DRAIN (PRIVATE).

- RAINWATER PIPE ADAPTOR
- SVP ADAPTOR
- WASH BASIN / BATH / SHOWER ADAPTOR
- WC ADAPTOR
- BACK INLET GULLY
- HOSE BIB
- SOURCE CONTROL OUTLET WITH SILT TRAP AS DETAIL.
- SKEILETON HIGH PERFORMANCE DIFFUSER CONDUIT / OUTLET INSPECTION CHAMBER AS DETAIL.
- POLYPROPYLENE 900M ACCESS CHAMBER (PRIVATE) - STORM
- POLYPROPYLENE ACCESS CHAMBER (PRIVATE) - FOUL
- POLYPROPYLENE 900M ACCESS CHAMBER (PRIVATE) - FOUL
- DOMESTIC CURTILAGE PERMEABLE PAVED DRIVEWAY LEVELS TO BE SET SO AS TO PROMOTE FLOWS WITHIN THE SUB BASE RESERVOIR LAYER FROM SOURCE CONTROL OUTLETS TOWARDS DIFFUSER UNIT.
- PEDESTRIAN CROSSING POINT WITH TACTILE PAVING
- UNDER-DRAINED BIOAGESIVE SWALE WITH PERFORATED PIPES, DIA, GRAD & MATERIAL AS LAYOUT. GRASSED SWALE ELEMENT (TYP 3.00M MIN) TO BE ADOPTED BY LCC UNDER SECTION 38 AGREEMENT PERFORATED PIPES TO BE ADOPTED BY AWS LTD UNDER SECTION 104 AGREEMENT.

IMPORTANT NOTE:- WHERE THE LAYOUT SHOWS A PIPE LINKING TWO OR MORE SWALE SECTIONS CROSSING UNDER AN ADOPTABLE ROAD OR ADOPTABLE ACCESS A TRADITIONAL NON-PERFORATED PIPE SHALL BE USED WITH MATERIALS AS SHOWN ON THE LAYOUT. THE SECTION BENEATH THE ADOPTABLE ROAD OR INDIVIDUAL ACCESS IS TO BE PROVIDED WITH A 150mm THICK C25/30 CONCRETE PROTECTION DUE TO THE SHALLOW NATURE OF UNDER DRAINED SWALES.

BENDING OF PLASTIC PIPES IS NOW NO LONGER PERMITTED BY AWS LTD. CURVATURE ALIGNMENT TO BE ACHIEVED BY THE USE OF PROPRIETARY BEND UNITS AND SHORT LENGTHS OF STRAIGHT PIPE TO ACHIEVE THE REQUIRED CURVATURE ALIGNMENT WITHIN THE LIMITS OF THE FILTER DRAIN TRENCH. CONTRACTORS CONTRACTED TO PRODUCE PIPE LINE SCHEDULES FOR APPROVAL TO DEMONSTRATE HOW THIS IS TO BE ACHIEVED ON A SITE SPECIFIC AND PIPE RUN SPECIFIC BASIS.

POLYPROPYLENE ACCESS CHAMBERS (TYPE 1) TO BE EITHER UP TO 3.0m DEEP.
POLYPROPYLENE ACCESS CHAMBERS (TYPE 4) TO BE EITHER UP TO 2.0m DEEP SEEKING MAX 1 PLOT).
ALL CHAMBERS ON SEWERS AND LATERALS WITHIN GARDEN AREAS, FOOTPATHS AND DRIVEWAYS TO BE FITTED WITH BS EN 124 GRADE B125 COVERS.
CHAMBERS WITHIN PARKING CONSTRAINTS TO BE FITTED WITH BS EN 124 GRADE D 400 COVERS.
CHAMBERS WITHIN FOOTWAYS, DRIVEWAYS AND PARKING CONSTRAINTS TO BE PROVIDED WITH 150mm DEEP C20 CONCRETE COLLAR.
WHERE CHAMBERS ARE WITHIN 1.2m OF ANY BUILDING, AND THE INVERT LEVEL OF THE CHAMBER IS MORE THAN 600mm DEEP ENSURE BUILDING FOUNDATION IS LOCALLY DEEPENED SO THAT BOTTOM OF FOUNDATION IS 150mm BELOW CHAMBER INVERT LEVEL.
DOMESTIC DRAINAGE TO BE HPPE OR CLAY.
150mm Ø DOMESTIC DRAINAGE (and 150Ø) TO BE LAID NO FLATTER THAN 1:60 GRADIENT.
150mm Ø DOMESTIC DRAINAGE (and 150Ø) TO BE LAID NO FLATTER THAN 1:150 GRADIENT.

- Proposed 5 metre galvanised T/S lighting column c/w column root protections to 42a (LCC)
  spec. Column to have vertically mounted 60dia Augeco EVH 1 LUMEn 3000K CLO Lantern.
  Lantern to have 2-pin NEMA socket c/w Wastes 84404 35/1/8 hot Part Night (OFF: 0000-0600)
  photocell. Lantern inclination to be 0°.

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	Numerous client requested site layout amendments.	04.04.23	GWB
B	Updated after pump submission, ready for submission.	20.07.23	GWB
C	Amended following LCC comments 11.08.23	16.08.23	GWB
D	Street lighting note amended.	18.12.23	GWB

CLIENT:
Cyden Homes Ltd

PROJECT:
Tytton Lane East
Wyberton
Boston

TITLE:
Impermeable Areas

SCALE:	DATE:	SIZE:
1:500	February 2023	A1

DRAWING No:	DRAWN BY:	CHECKED BY:
2001/08-D		

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