



- Notes:**
- All existing Highway drainage pipes are 150mmØ unless otherwise stated.
 - All dimensions are in mm unless otherwise stated.
 - CSA- Cross-sectional Area
 - All new Highway drainage pipes are 150mmØ PVC unless otherwise stated.
 - All new pipes to be connected to existing pipe in accordance to HST/500/007.
 - All new gullies to be of HCD F13 specification and connected using 150mmØ PVC pipe.
 - All excavations in the carriageway to be reinstated with HCD F1 Specification, with concrete surrounding Type 2 to within 100mm of the existing carriageway level followed by; 60mm thick AC 20 Dense BIN 40/60, 40mm thick AC 10 Dense SURF 40/60.
 - New borehole to be constructed in accordance to standard drawing HST/500/010, Orchard Way.
 - All verge reinstatements to be of HCD F1 specification with Type S bed to within 100mm of verge level followed by 100mm Top soil.
 - All new catchpits to be of standard drawings HST/500/003.
 - Trial holes to be completed prior to installation of new chambers and pipes. Trial holes to be 2m X 0.6m X 1m deep.
 - All alterations to the design to be communicated to WCS Engineer before construction.
 - Refer to Stats plans provided before commencing on any excavation works. Locate Stats plant in the vicinity of the proposed works using CAT & Genny.
 - All repaired pipes to be CCTV surveyed.
 - This drawing is to be read in conjunction with CDM form F11.2.
 - All new bagwork headwalls are to be constructed in accordance to standard drawing HST/500/008.
 - All kerb face height to be 125mm unless otherwise stated & constructed in accordance to standard drawing HST/1100/001.
 - All footway reinstatements to comprise Type 2 bed & surround with concrete backfill to within 80mm of footway level.
 - All resurfacing to be 40mm thick AC 10 Dense SURF 40/60.
 - This drawing to be read in conjunction with drawing HC G-D1600.75 - 04.

- Schedule for Boreholes, Catchpits & Interception Chambers.**
- All borehole depths to be concluded once an infiltration co-efficient of E x10-5 m/s is achieved (approx. 5-7m). Borehole to have a 225mmØ pipe penetrating into the permeable sub-strata.
 - All Catchpits, Soakaways (existing) & Interception Chambers to be fitted with D400 frame & covers.

Item	Details	Item	Details
NBS1	1.2mØ chamber, 2.5m deep. CL 100.000 IL 101.390 (225Ø) Refer to notes 7, 8, 10, 11, 21 & 22. (See also drawings HC G-D1600.75 4).	NCP1 & NCP2	Interception Chamber 2 no. Catchpits 1.8mØ chamber, 2.5m deep. CL 100.164 IL 99.773 (225Ø) Refer to notes 7, 10, 11 & 22. (See also drawings HC G-D1600.75 4)
NBS2	1.2mØ chamber, 2.5m deep. IL (150Ø) OL (150Ø) Refer to notes 8, 9, 10, 11, 21 & 22.	NCP3 & NCP4	Interception Chamber 2 no. Catchpits 1.8mØ chamber, 2.5m deep. CL 100.123 IL 99.815(225Ø) Refer to notes 7, 10, 11 & 22. (See also drawings HC G-D1600.75 4)
NCP5	1.8mØ chamber, 3m deep. IL (150Ø) OL (150Ø) Refer to notes 7, 10, 11 & 22	NCP6	1.8mØ chamber, 3m deep. IL (150Ø) OL (150Ø) Refer to notes 7, 10, 11 & 22
NCP7	1.2mØ chamber, 2.5m deep. IL (150Ø) OL (150Ø) Refer to notes 7, 10, 11 & 22	NCP8	1.2mØ chamber, 2.5m deep. IL (150Ø) OL (150Ø) Refer to notes 7, 10, 11 & 22

Key

	Existing Gully (G)		Existing ditch to be re-graded (Approx 70m)
	Manhole (MH)		Vegetation
	C/way resurfacing. See note 20		Existing PCC kerb
	New Borehole Soakaway (NBS) - 6 No.		New Catchpit (NCP) - 10 No.
	New PVC pipe (Approx 60m)		New HB2 Kerb (120m)
	New Gully (NG) - 11 No.		Bunding to be raised (Approx 60m)

1:500 @ A1
1:1000 @ A3

Note

1) Contractor to partially fill the new catch pits after completion with clean water and monitor the water level over a period of 24hr.

Revision	Amendment	Approved	Revision Date
R1	All soakaway chambers replaced with catchpits	STM	11/17
R2	Existing drainage overlaid	STM	12/17

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Designed	Approved	Approved Date
TM	STM	10/17
Drawn	Scales	
TM	1:500	

Project
**HERTFORDSHIRE COUNTY COUNCIL
DRAINAGE SCHEME 2017/2018
DRN16007**

Sheet
**ORCHARD WAY/ BROOM GROVE, KNEBWORTH
PROPOSED DRAINAGE WORKS**

Project No.
HC G-D1600.75 - 03

Sheet No.
01

Revision
R2