

File name: W:\20000-29999\29128 - Mill Lane - Whitburn (P2-129)\Drawings\Civils\29128-HYD-XX-XX-DR-C-1000 Proposed Drainage Layout Plan.dwg

Engineering & External Works Key

Adoptable Drainage

Proposed adoptable Foul sewer and manhole

Proposed adoptable Storm sewer and manhole

Proposed adoptable Combined sewer and manhole

All adoptable drainage to be installed in accordance with the relevant edition of Sewers For Adoption and any regional water authority variations.

Existing public Foul sewer and manhole

Existing public Storm sewer and manhole

Existing public Combined sewer and manhole

Proposed road gully & connecting pipe work. 1500 pipe unless noted otherwise.

Public Sewer Easements

Existing Public Sewer Easement Width to be Confirmed

Proposed Public Sewer Easement Width to be Confirmed

Sewer Abandonments

Foul Sewer Abandonment Sewer to be Grouted / Grubbed Up

Storm Sewer Abandonment Sewer to be Grouted / Grubbed Up

Combined Sewer Abandonment Sewer to be Grouted / Grubbed Up

Retaining walls, steps & external works

Retaining wall (retained height shown). (edge protection required over 600mm H)

Flag On Edge. Maximum retained height 0.4m. Not to be constructed supporting driveways or highways

Tanking to specialist details

Engineering / Facing Brickwork to be shown below FFL

Steps to paths - 300mm Going 150mm Rise (Handrails required to heights over 600mm)

Proposed Finished Floor Level

Proposed Engineered Batter / Embankment. (1:3 Grad Max unless notes otherwise)

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MANHOLE C2 CONSTRUCTED IN EXISTING PUBLIC COMBINED SEWER. LOCATION AND DEPTH OF ALL EXISTING SERVICES TO BE CONFIRMED PRIOR TO COMMENCEMENT OF WORKS

HYDROBRAKE FLOW CONTROL UNIT INSTALLED IN MANHOLE S06(HB) FLOW RESTRICTED TO MAXIMUM 3.2 l/s WITH 1.5m HEAD REF CTL-SHE-0075-3000-1500-3000

DOWNSTREAM DEFENDER PROVIDED AT S07(DD) TO PREVENT TREATMENT OF SURFACE WATER RUN OFF FROM THE SITE

NOTES

1. ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT WATER DESIGN AND CONSTRUCTION GUIDANCE FOR FOUL AND SURFACE WATER SEWERS OFFERED FOR ADOPTION AND THE ADOPTING WATER AUTHORITY/SEWERAGE AGENCY REQUIREMENTS AND SPECIFICATIONS.

2. ALL PRIVATE DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH CURRENT BUILDING REGULATIONS.

3. CONTRACTOR TO ESTABLISH POSITION SIZE AND DEPTH OF ALL EXISTING SEWERS AND SERVICES PRIOR TO COMMENCEMENT ON SITE.

4. THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT SUPPORT, AND TEMPORARY AND PERMANENT DIVERSION WORKS, AS NECESSARY TO ALL EXISTING SERVICES.

5. THE CONTRACTOR SHALL ALLOW FOR ALL TRAFFIC MANAGEMENT IN CONNECTION WITH ROAD AND SEWER WORKS.

6. THE CONTRACTOR SHALL ALLOW FOR KEEPING SEWER TRENCHES AND EXCAVATIONS AS DRY AS PRACTICABLE BY PUMPING FROM TEMPORARY SUMPS AND DEWATERING AS APPROPRIATE. THE POINT AND METHOD OF DISCHARGE TO BE AGREED WITH THE DRAINAGE AUTHORITY.

7. PIPES UP TO AND INCLUDING 300mmØ TO BE UNPLASTICISED PVC. PIPES 375mmØ AND GREATER TO BE CONCRETE CLASS H.

8. ALL PIPEWORK TO BE 100mm DIAMETER UNLESS NOTED OTHERWISE.

9. INSITU AND PRECAST CONCRETE UNITS SHALL HAVE SULPHATE RESISTING PORTLAND CEMENT TO BS 4027, UNLESS AGREED OTHERWISE WITH THE ADOPTING AUTHORITY.

10. PRECAST CONCRETE PRODUCTS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS 5911 AND BE KITEMARKED. CONCRETE PIPES TO BE CLASS H UNLESS NOTED OTHERWISE.

11. MANHOLE COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN124, HAVE MINIMUM 675 x 675 CLEAR OPENINGS WITH 150 DEEP FRAMES UNLESS OTHERWISE SPECIFIED. MANHOLE COVERS AND FRAMES TO BE OF A NON-ROCKING DESIGN WITHOUT CUSHION INSERTS AND BE KITEMARKED. LOAD CLASS D400 IN VEHICULAR TRAFFICKED AREAS AND LOAD CLASS B125 IN FOOTWAYS AND PEDESTRIAN AREAS.

12. GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN124 AND BE OF A NON-ROCKING DESIGN WITH CAPTIVE HINGE ACCESS AND BE KITEMARKED. LOAD CLASS D400 FOR ROADS REGULARLY CARRYING FAST MOVING HEAVY VEHICLES. CLASS C250 TO BE USED IN LESSER TRAFFICKED AREAS eg. ESTATE ROADS, CUL-DE-SACS, RESIDENTIAL CAR PARKING AREAS ETC.

13. CLASS 2 BEDDING DETAIL SHALL BE PROVIDED WHERE COVER TO THE PIPE BARREL IS LESS THAN 1.2m IN VEHICULAR TRAFFICKED AREAS AND 0.9m ELSEWHERE. TO ALL ROAD GULLY CONNECTIONS AND WITHIN AREAS OF DEEP ROOTING VEGETATION.

14. WHERE CLASS 2 TRENCH BEDDING DETAIL IS USED, THE CONCRETE BED AND SURROUND SHALL BE DISCONTINUED AT EACH PIPE JOINT OVER THE FULL CROSS SECTION BY MEANS OF A SHAPED COMPRESSIBLE FILLER.

15. BACKFILLING AND REINSTATEMENT TO TRENCHES IN PUBLIC HIGHWAYS SHALL BE TYPE 1 GRANULAR MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE ADOPTING AUTHORITY, OR, IN THE ABSENCE OF SUCH, IN ACCORDANCE WITH THE REQUIREMENTS OF "THE STREET WORKS REGULATIONS 1992" AND RELEVANT PROVISIONS OF H.A.U.C. "SPECIFICATION FOR THE REINSTATEMENT OF OPENINGS IN HIGHWAYS" JUNE 1992, BOTH UNDER SECTION 71 OF THE NEW ROADS AND STREET WORKS ACT 1991.

16. ALL ROAD GULLIES ARE TO BE TRAPPED GULLIES. ALL GULLY LEADS TO BE 150mm DIAMETER. ALL ROAD GULLIES & LEADS TO BE CLEARED OF DEBRIS UPON COMPLETION OF WORKS.

17. ALL REDUNDANT EXISTING DRAINAGE TO BE GRUBBED UP OR GROUTED. ANY EXISTING LIVE DRAINAGE SHOULD BE REPORTED TO THE ENGINEER AND RECONNECTED.

18. THE CONTRACTOR MUST ENSURE THAT ANY OF THE EXISTING DRAINAGE WHICH IS LIVE IS KEPT CLEAR OF DEBRIS AND SHOULD ALLOW FOR JETTING THROUGH THE NEW & EXISTING DRAINAGE UPON COMPLETION.

19. CONTRACTOR TO TAKE MEASURES TO PROTECT HIS OPERATIVES WITH RESPECT TO THE PRESENCE OF GAS IN SEWER TRENCHES AND MANHOLES THROUGH THE USE OF GAS MONITORING EQUIPMENT AND BREATHING APPARATUS AS REQUIRED.

20. CONTRACTOR TO APPLY FOR SEWER PERMITS AND ROAD OPENING PERMITS AS NECESSARY FROM THE APPROPRIATE AUTHORITIES, PRIOR TO COMMENCING WORKS.

SUBJECT TO THE APPROVAL OF ALL RELEVANT AUTHORITIES

P07	LAYOUT UPDATED. PLOT 1 AMENDED	23/05/24	MP	--	--
P06	ROAD 1 AND PLOTS 17-21 AMENDED	19/01/24	MP	--	--
P05	LAYOUT UPDATED. SUB STN REMOVED	12/01/24	MP	--	--
P04	PLOTS 1-4 & 29-31 AMENDED. CO1, S07, S08 AND P04 RELOCATED	20/12/23	MP	--	--
P03	FFL PLOT 26 AMENDED. FIRST OFF MANHOLE DETAILS ADDED	23/11/23	MP	--	--
P02	LAYOUT UPDATED. RETAINING AMENDED TO PLOTS 3,10,29&30	28/09/23	MP	--	--
P01	INITIAL ISSUE	15/09/23	MP	--	--
Rev.	Revision Notes	Date	Drawn By	Checked	Approved

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CLIENT

LOVELL

PROJECT
MILL LANE
WHITBURN

TITLE
PROPOSED DRAINAGE
LAYOUT PLAN

HYDROCK PROJECT NO.	SCALE @ A1	
C-29128	1:250	
STATUS DESCRIPTION	SUITABLE FOR INFORMATION	STATUS
		S2
DRAWING NO.	29128-HYD-XX-XX-DR-C-1000	REVISION
		P07