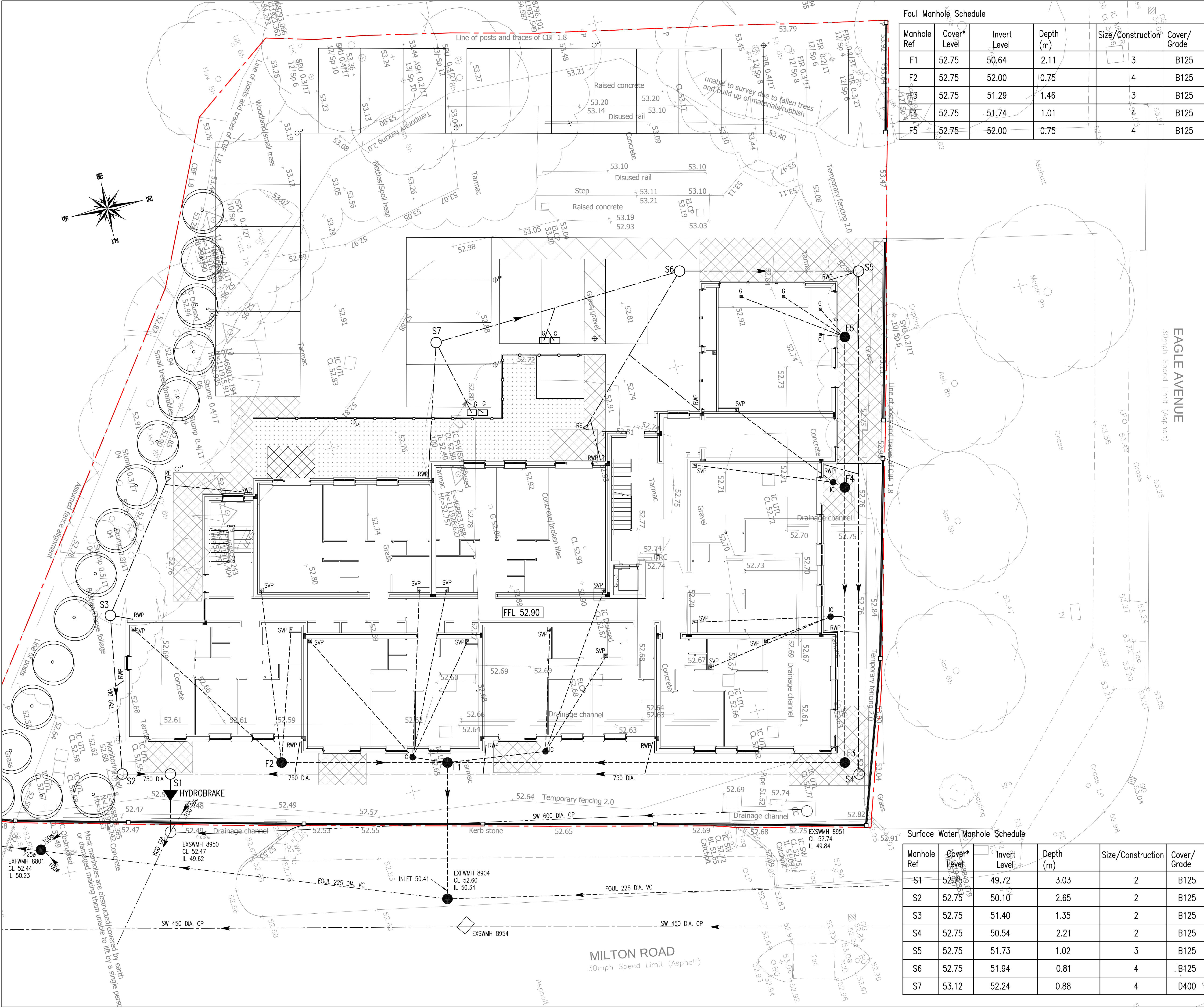




Foul Manhole Schedule

Manhole Ref	Cover* Level	Invert Level	Depth (m)	Size/Construction	Cover/Grade
F1	52.75	50.64	2.11	3	B125
F2	52.75	52.00	0.75	4	B125
F3	52.75	51.29	1.46	3	B125
F4	52.75	51.74	1.01	4	B125
F5	52.75	52.00	0.75	4	B125

NOTES:

- THIS DRAWING IS COPYRIGHT AND SHOULD NOT BE REPRODUCED WITHOUT APPROVAL.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH THE ARCHITECTS DRAWINGS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF BOTH PARTIES IMMEDIATELY.
 - ANY DIMENSIONS/LEVELS INDICATED 'ref.' REFER TO ASSUMED/EXISTING DIMENSIONS WHICH ARE TO BE SITE CHECKED PRIOR TO THE COMMENCEMENT OF ANY WORK.
- DRAINAGE NOTES:**
- INVERT LEVELS AND POSITIONS OF EXISTING DRAINS /CHAMBERS /SEWERS WHERE NEW CONNECTIONS ARE TO BE MADE MUST BE CHECKED AND CONFIRMED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS.
 - ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY, ENVIRONMENT AGENCY AND IN CONJUNCTION WITH ALL RELEVANT BRITISH STANDARDS, CODES OF PRACTICE AND 'SEWERS FOR ADOPTION' AS APPROPRIATE.
 - ALL DRAINAGE SHALL COMPLY WITH THE TYPICAL DETAILS AND THE REQUIREMENTS OF BS EN 752.
 - REFER TO MANHOLE SCHEDULE OR DRAWINGS FOR MANHOLE TYPES, SIZE, DEPTHS AND SPECIFIC REQUIREMENTS.
 - FOR SETTING OUT DIMENSIONS OF SVP'S, RWP'S ETC. REFER TO ARCHITECT'S DRAWINGS.
 - ALL PIPES UP TO 300mm DIAMETER TO BE VITRIFIED CLAY, EXTRA STRENGTH TO BS EN 295 OR BS 65 WITH PLAIN ENDED SLEEVED OR SOCKETED FLEXIBLE JOINTS. ALL PIPES OF 375mm DIAMETER AND OVER, TO BE SULPHATE RESISTING CONCRETE CLASS M WITH SOCKETED FLEXIBLE JOINTS.
 - INVERTS OF INCOMING BRANCHES SHALL BE AT SPRINGING LEVEL TO THE MAIN PIPE AND FORMED GENERALLY USING CHANNEL PIPES AND SLIPPER BENDS, CUT TO SUIT.
 - ALL GULLY AND DRAINAGE CHANNEL CONNECTIONS SHALL BE 150mm DIAMETER AND TRAPPED UNLESS OTHERWISE SPECIFIED.
 - ALL FOUL AND RWP CONNECTIONS SHALL BE 100MM DIAMETER UNLESS OTHERWISE SPECIFIED.
 - ALL PRE-CAST CONCRETE UNITS IN THE DRAINAGE WORKS SHALL BE MANUFACTURED USING SULPHATE RESISTING CEMENT.
 - MANHOLE COVERS AND FRAMES SHALL BE TO BS EN 124 AND KITEMARKED. COVER AND FRAMES SHALL BE HEAVY DUTY D400 IN CARRIAGEWAYS AND VEHICULAR AREAS AND MEDIUM DUTY B125 IN FOOTWAYS AND SOFT LANDSCAPING. IN BLOCK PAVED AREAS COVERS SHALL BE RECESSED FABRICATED STEEL.
 - REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF MANHOLES AND DRAINS CONSTRUCTED WITHIN FLOOR SLABS AND FOUNDATIONS.
 - COVER LEVELS ARE TO BE ADJUSTED LOCALLY TO SUIT FINISHED GROUND LEVELS.
 - HEALTH & SAFETY: THE WORKS SHALL BE CARRIED OUT BY SPECIALIST COMPETENT AND EXPERIENCED CONTRACTORS WHO ARE MEMBERS OF A RECOGNISED NATIONAL ORGANISATION.
 - OPERATIVES SHALL HAVE RECEIVED FULL AND APPROPRIATE TRAINING FOR THE OPERATION THEY ARE TO UNDERTAKE. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH ALL PERTINENT HEALTH AND SAFETY REGULATIONS.
 - PIPES TO BE LAID TO A MINIMUM GRADIENT OF 1:60 UNLESS NOTED OTHERWISE.
 - ALL BRICK MANHOLES SHALL BE BUILT IN 225mm THICK CLASS B BRICKWORK LAID IN ENGLISH BOND WITH CLASS 1 CEMENT MORTAR, SULPHATE RESISTING TO BS 4027.

- EXISTING SOFT SPOTS OR SOFT MATERIAL FOUND BELOW THE BOTTOM OF EXCAVATION SHALL BE REMOVED AS DIRECTED BY THE ENGINEER TO A MINIMUM DEPTH OF 500mm, THE VOID THUS FORMED TO BE FILLED WITH WELL COMPACTED TYPE 1 MATERIAL OR COMPACTED TYPE A GRANULAR BEDDING MATERIAL WITH TERRAM 1000 MEMBRANE ADJUSTED TO SUIT NEW FORMATION LEVEL.

KEY:

	FOUL WATER MANHOLE/DRAINAGE 150mm ø
	SURFACE WATER MANHOLE/DRAINAGE 150mm ø MIN
	RAINWATER PIPE (100MM ø)
	SOIL & VENT PIPE (100MM ø)
	RODDING EYE. (100MM ø)
	ROAD GULLY (150MM ø)
	INSPECTION CHAMBER
	HYDROBRAKE 1.123 litres/second

REFER TO HDL DRGS. ST20-ST30 FOR STANDARD CONSTRUCTION DETAILS

TENDER

Surface Water Manhole Schedule

Manhole Ref	Cover* Level	Invert Level	Depth (m)	Size/Construction	Cover/Grade
S1	52.75	49.72	3.03	2	B125
S2	52.75	50.10	2.65	2	B125
S3	52.75	51.40	1.35	2	B125
S4	52.75	50.54	2.21	2	B125
S5	52.75	51.73	1.02	3	B125
S6	52.75	51.94	0.81	4	B125
S7	53.12	52.24	0.88	4	D400

T1 FOR TENDER		HDL/09.14	HDL/09.14	HDL/09.14
Version	Amendment	Revised by and date	Checked by and date	Approved by and date
ORIGINAL DRAWING SIZE - A1		X-REFS: .		
CAD REF.		. . .		

HAMIL DAVIES LIMITED
Consulting Civil and Structural Engineers

Client: FOREMAN HOMES LTD
Project: MILTON ROAD, COWPLAIN
Drawing Title: DRAINAGE LAYOUT

Purpose: TENDER	Drawn HDL: .	Scale: 1:100 @ A1
Issuing Office: SWANMORE	Designed: .	Drawn: .
Telephone: 01489 893 596	Drawn Number: 14-2374-500	Version: T1