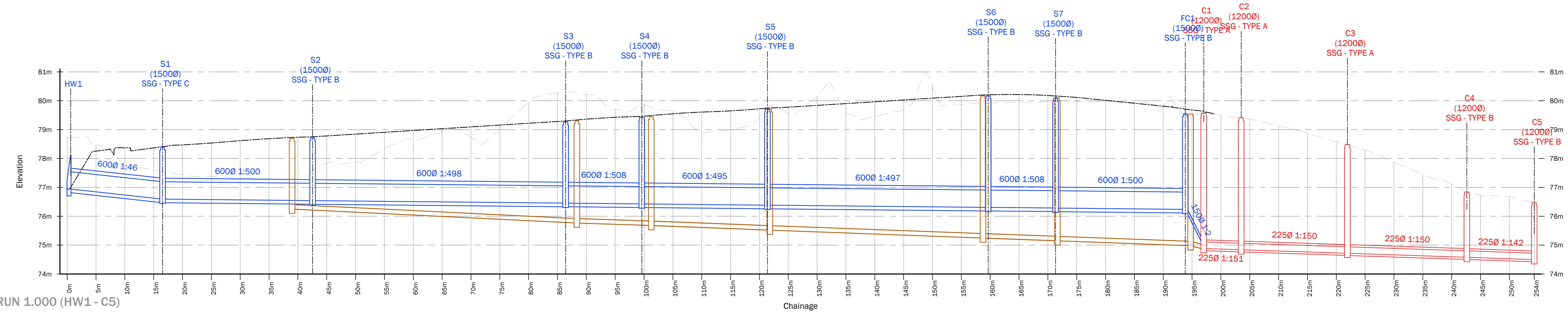
1:100 1 2 3 4 5 6 7

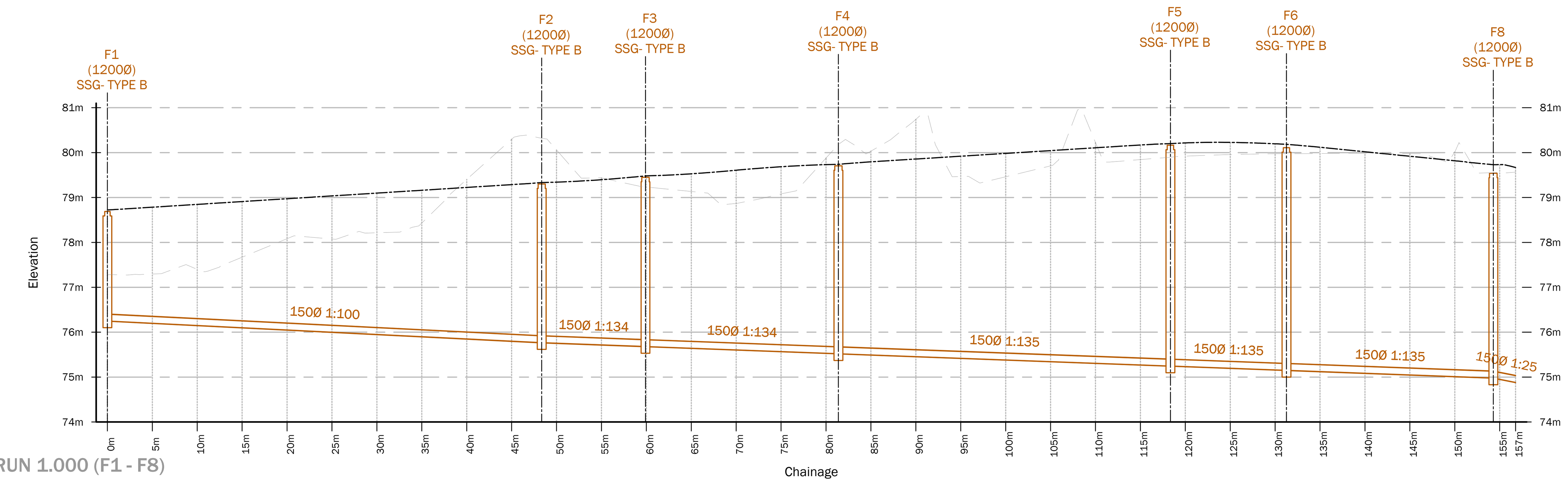
1:500 10 20 30



SW RUN 1.000 (HW1 - C5)

EXISTING LEVELS	FINISHED LEVELS
76.940	76.940
78.256	78.256
78.369	78.369
78.368	78.368
78.470	78.470
78.537	78.537
78.616	78.616
78.686	78.686
78.735	78.735
78.782	78.782
78.844	78.844
78.907	78.907
78.969	78.969
79.032	79.032
79.094	79.094
79.157	79.157
79.219	79.219
79.282	79.282
79.362	79.362
79.426	79.426
79.463	79.463
79.549	79.549
79.608	79.608
79.649	79.649
79.721	79.721
79.777	79.777
79.839	79.839
79.902	79.902
79.964	79.964
80.027	80.027
80.089	80.089
80.152	80.152
80.208	80.208
80.214	80.214
80.181	80.181
80.114	80.114
80.015	80.015
79.913	79.913
79.812	79.812
79.683	79.683

STORM PIPE DETAILS	Upstream IL	Downstream IL	Length @ gradient	STORM PIPE MATERIAL
C2 S1.000 600∅	76.940	76.593	15.9m @ 1:45.87	Circular Reinforced Concrete Cover Min--0.7 / Max-1.1 Type S Bed & Surround
C2 S1.001 600∅	76.593	76.541	26.0m @ 1:500.00	Circular Reinforced Concrete Cover Min-1.1 / Max-1.5 Type S Bed & Surround
C2 S1.002 600∅	76.541	76.453	43.9m @ 1:498.49	Circular Reinforced Concrete Cover Min-1.5 / Max-2.1 Type S Bed & Surround
C2 S1.003 600∅	76.453	76.427	13.2m @ 1:508.19	Circular Reinforced Concrete Cover Min-2.1 / Max-2.3 Type S Bed & Surround
C2 S1.004 600∅	76.427	76.383	21.8m @ 1:494.90	Circular Reinforced Concrete Cover Min-2.3 / Max-2.6 Type S Bed & Surround
C2 S1.005 600∅	76.383	76.306	38.3m @ 1:496.98	Circular Reinforced Concrete Cover Min-2.6 / Max-3.2 Type S Bed & Surround
C2 S1.006 600∅	76.307	76.284	11.7m @ 1:507.87	Circular Reinforced Concrete Cover Min-3.2 / Max-3.2 Type S Bed & Surround
C2 S1.007 600∅	76.283	76.238	22.5m @ 1:499.62	Circular Reinforced Concrete Cover Min-2.7 / Max-3.2 Type S Bed & Surround
C2 S1.008 150∅	76.238	74.957	3.2m @ 1:2[illegible]	Circular PVC Cover Min-3.3 / Max-4.5 Type S Bed & Surround
C2 C1.000 225∅	74.882	74.839	[illegible]m @ 1:150.83	Circular Reinforced Concrete Cover Min-4.4 / Max-4.4 Type S Bed & Surround
C2 C1.001 225∅	74.839	74.716	18.4m @ 1:149.72	Circular Reinforced Concrete Cover Min-0.0 / Max-0.0 Type S Bed & Surround
C2 C1.002 225∅	74.716	74.578	20.7m @ 1:150.03	Circular Reinforced Concrete Cover Min-0.0 / Max-0.0 Type S Bed & Surround
C2 C1.003 225∅	74.578	74.496	11.7m @ 1:142.49	Circular Reinforced Concrete Cover Min-0.0 / Max-0.0 Type S Bed & Surround



FW RUN 1.000 (F1 - F8)

EXISTING LEVELS	FINISHED LEVELS
78.723	78.723
78.784	78.784
78.847	78.847
78.910	78.910
78.972	78.972
79.035	79.035
79.098	79.098
79.161	79.161
79.224	79.224
79.287	79.287
79.342	79.342
79.397	79.397
79.481	79.481
79.528	79.528
79.608	79.608
79.685	79.685
79.732	79.732
79.794	79.794
79.857	79.857
79.920	79.920
79.982	79.982
80.045	80.045
80.107	80.107
80.169	80.169
80.216	80.216
80.227	80.227
80.196	80.196
80.119	80.119
80.018	80.018
79.918	79.918
79.818	79.818
79.732	79.732
79.669	79.669

STORM PIPE DETAILS	Upstream IL	Downstream IL	Length @ gradient	STORM PIPE MATERIAL
C2 F1.000 150∅	76.250	75.767	48.3m @ 1:100.10	Circular PVC Cover Min-2.3 / Max-3.4 Type S Bed & Surround
C2 F1.001 150∅	75.767	75.681	11.6m @ 1:134.37	Circular PVC Cover Min-3.4 / Max-3.6 Type S Bed & Surround
C2 F1.002 150∅	75.681	75.521	21.5m @ 1:134.23	Circular PVC Cover Min-3.6 / Max-4.1 Type S Bed & Surround
C2 F1.003 150∅	75.521	75.247	37.0m @ 1:134.89	Circular PVC Cover Min-4.1 / Max-4.8 Type S Bed & Surround
C2 F1.004 150∅	75.247	75.151	12.9m @ 1:134.59	Circular PVC Cover Min-4.8 / Max-4.9 Type S Bed & Surround
C2 F1.005 150∅	75.151	74.980	23.0m @ 1:134.69	Circular PVC Cover Min-4.6 / Max-4.9 Type S Bed & Surround
C2 F1.006 150∅	74.980	[illegible]	2.5m @ 1:25.23	Circular PVC Cover Min-4.6 / Max-4.6 Type S Bed & Surround

DO NOT SCALE FROM THIS DRAWING

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER HBL DRAWINGS ISSUED FOR THIS PROJECT

ADOPTABLE DRAINAGE NOTES:

1. THIS DRAWING IS SUBJECT TO APPROVAL BY LOCAL AUTHORITY, BUILDING CONTROL AND / OR SEWERAGE UNDERTAKER. ANY WORKS UNDERTAKEN PRIOR TO THE GRANTING OF THESE APPROVALS IS CARRIED OUT AT AT RISK TO OTHERS.
2. PRIOR TO COMMENCING WORK ON THE DRAINAGE, ALL EXISTING DRAINS, SEWERS MANHOLES AND OUTFALLS TO REMAIN SHALL BE LOCATED, IDENTIFIED AND A CCTV CONDITION SURVEY CARRIED OUT. WHERE NECESSARY, PROTECTION TO THE EXISTING DRAINAGE INFRASTRUCTURE SHALL BE PROVIDED.
3. ALL EXISTING SEWERS AND MANHOLES ABANDONED DUE TO THE PROPOSED WORKS ARE TO BE EITHER REMOVED, AND SUITABLY BACKFILLED OR GROUTED UP.
4. ALL MANHOLE COVERS TO COMPLY WITH BS.EN.124, AND BE KITEMARKED
5. COVER LEVELS FOR MANHOLES ARE APPROXIMATE ONLY AND SHOULD BE ADJUSTED TO MATCH SURROUNDING LEVELS.
6. IN BLOCK PAVED AREAS 'INFILL' TYPE COVERS SHOULD NOT BE USED, AND FRAMES MUST BE 150MM DEEP.
7. ALL MANHOLE AND DRAINAGE COVERS SHALL COMPLY WITH BS.EN124, BS.EN13598-1 AND HA104/09.
   COVER STRENGTHS TO BE:-
   CLASS E600 IN AREAS OF HEAVY LOADING.
   CLASS D400 IN ALL TRAFFICKED AREAS (ROADS, HARD SHOULDER, PARKING AREAS AND SERVICES YARDS). MANHOLE COVERS ON FOUL ONLY SEWERS SHALL BE OF LOW LEAKAGE TYPES IN ORDER TO PREVENT EXCESSIVE SURFACE WATER INGRESS.
8. DRAINAGE PIPES 100MM Ø UNLESS STATED OTHERWISE. PIPES TO BE :- VITRIFIED CLAY TO BS EN 295 OR CONCRETE TO BS 5911 OR UPVC PIPES TO BS EN 1452 OR THERMOPLASTIC STRUCTURED WALL PIPES COMPLYING WITH WIS 4-35-01. BSI KITEMARKED. CLASS 8KM/M² NOMINAL SHORT TERM RING STIFFNESS.
9. ALL SEWER PIPES 300MM DIAMETER OR LARGER, TO BE CONCRETE PIPES, TO BS.5911, UNLESS NOTED OTHERWISE
10. ALL PIPES TO BE LAID WITH SOFFITS LEVEL, UNLESS NOTED OTHERWISE.
11. WHERE COVER TO PIPES IS LESS THAN 1200MM UNDER CARRIAGEWAY - CONCRETE BED AND SURROUND OR CONCRETE PROTECTION SLAB IS REQUIRED.
12. ALL CONCRETE TO DRAINAGE, MANHOLES BASES, SURROUNDS ETC TO BE IN ACCORDANCE WITH THE BRE SPECIAL DIGEST 1 - CONCRETE IN AGGRESSIVE GROUND. REFER TO SITE INVESTIGATION REPORT FOR SULPHATE REQUIREMENTS.
13. ALL MANHOLES, PIPE TRENCHES ETC. TO BE BACKFILLED WITH IMPORTED GRANULAR FILL TO CLASS 6F1-6F5 (CAPPING MATERIAL) TO (SHW) TABLE 6/1 & COMPACTED IN ACCORDANCE WITH TABLE 6/4.
14. ALL PIPELINES SHALL BE TESTED BOTH BEFORE AND AFTER BACKFILLING, USING EITHER AIR TEST OR WATER TEST, IN ACCORDANCE WITH BS EN 1610.
15. UPON COMPLETION OF THE DRAINAGE WORKS ALL DRAINS SHALL BE FLUSHED OUT AND CCTV SURVEYED AND SHOWN TO BE FREE OF ALL SILT AND DEBRIS AND TO HAVE NO JOINT DISPLACEMENTS OR OTHER DEFECTS. A COPY OF THE WRITTEN REPORT AND VIDEO IS TO BE FORWARDED TO THE ENGINEERS FOR COMMENT. ANY DEFECTS SHALL BE ATTRIBUTABLE TO THE CONTRACTOR FOR RECTIFICATION UNLESS INDICATED OTHERWISE BY THE CCTV REPORT AND AGREED WITH THE ENGINEERS.
16. ADOPTABLE DEMARCATION MANHOLES AND LATERAL DRAINS NEED TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT WATER UK/WRC "SEWERAGE SECTOR GUIDANCE - APPENDIX C".
17. ALL WORKS TO SEWERS/MANHOLES BEING OFFERED FOR ADOPTION OR ON EXISTING PUBLIC SEWERS SHOULD BE IN ACCORDANCE WITH "SEWERAGE SECTOR GUIDANCE - APPENDIX C" AND THE ADOPTING WATER AUTHORITIES RECOMMENDATIONS.

REV.	DATE	DRAWN	DESCRIPTION	CHKD	APPRD
P02	06.03.26	SP	ISSUED FOR TECHNICAL APPROVAL	AC	RJ
P01	06.11.25	AC	ISSUED FOR TENDER	RJ	RJ

STATUS DESCRIPTION: FOR TECHNICAL APPROVAL — STATUS: S4

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PROJECT: WOOLLEY COLLIERY

DRAWING TITLE: SECTION 104 DRAINAGE LONGSECTIONS SOUTH CATCHMENT SURFACE AND FOUL WATER

CLIENT: MJ GLEESON

HBL REF.	DATE	SCALE(S)	
10701	H - 1:500 V - 1:100	OCT 25	A1

DRAWN	CHECKED	APPROVED
AC	RJ	RJ

DRAWING No. 10701-HBL-XX-XX-DR-C-5513 — REV. P02