

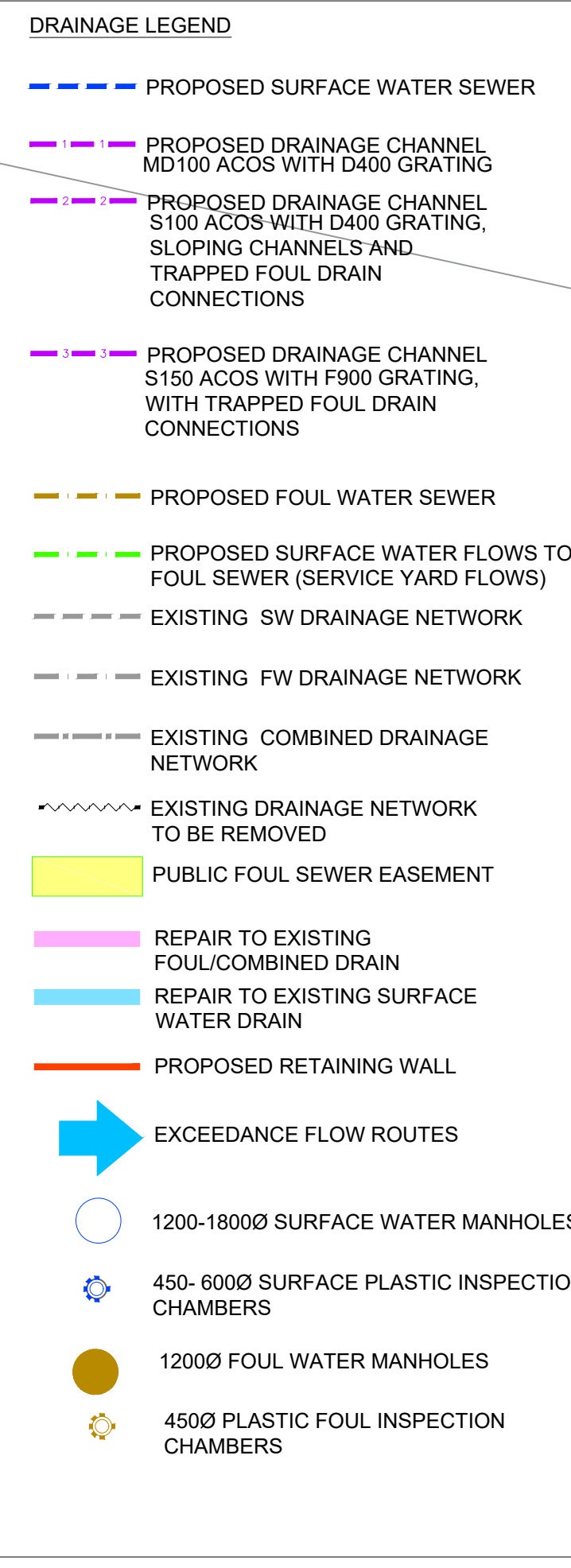
F05 Site outfall via indirect connection for Area C - Yard & Internal Drainage network F1.000 - to Existing Foul Sewer. 5281m2 @ free discharge.

EXMH33 Site outfall for Area A to Existing Private Drain. 1962m2 @ free discharge.

S10 Flow Control Manhole to replace Existing08 Site outfall for Area B - to Bradman Road 4230m2 Peak Discharge Rate 73 l/s (60% of Existing 122 l/s rate for 1 in 100y storm events)



- NOTES:
1. SURFACE WATER RUNOFF FROM THE YARD TO DRAIN INTO FOUL WATER SEWER DUE TO POTENTIAL RISKS OF POLLUTANTS AND INFECTIOUS MATERIAL.
 2. SURFACE WATER RUNOFF FROM THE ROOF AREAS WILL DRAIN INTO THE SURFACE WATER DRAINAGE NETWORK.
 3. POOR CONDITION PIPES MAY REQUIRE REPLACEMENT.
 4. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE SITE INVESTIGATION REPORT. BEFORE WORK COMMENCES THE CONTRACTOR SHOULD CONSULT THE ENGINEER AND THE SITE REPORT REGARDING ANY CONTAMINATION ISSUES. ALL NECESSARY HEALTH AND SAFETY MEASURES TO BE TAKEN.
 5. BEFORE WORK COMMENCES, THE CONTRACTOR SHALL LIAISE WITH ALL STATUTORY AUTHORITIES TO DETERMINE THE EXACT LOCATION OF ALL APPARATUS AND TAKE ALL PRECAUTIONS DEEMED NECESSARY TO LOCATE, PROTECT AND WHERE NECESSARY INSERT BULK EQUIPMENT.
 6. THIS DRAWING IS SUBJECT TO APPROVAL BY LOCAL AUTHORITY, BUILDING CONTROL, SEWERAGE UNDERTAKER AND THE ENVIRONMENT AGENCY. ANY WORKS UNDERTAKEN PRIOR TO THE GRANTING OF THESE APPROVALS IS CARRIED OUT AT RISK TO OTHERS.
 7. SHOULD ANY SURPLUS EXCAVATED MATERIAL REQUIRE DISPOSAL OFF SITE, IT SHOULD BE TAKEN TO A SUITABLY LICENSED LANDFILL SITE.
 8. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND LEVELS ON SITE.
 9. SETTING OUT TO BE CONFIRMED BY THE ARCHITECT.
 10. ALL EXISTING SEWERS AND MANHOLES TO BE ABANDONED DUE TO THE PROPOSED WORKS ARE TO BE EITHER REMOVED, AND SUITABLY BACKFILLED OR GROUTED UP.
 11. ALL DRAINAGE WORKS TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS PART H AND BS EN 752.
 12. ALL EXISTING DRAINAGE LEVELS, DIAMETERS & LOCATIONS NEED TO BE CHECKED ON SITE PRIOR TO ANY DRAINAGE WORKS, AND ANY DISCREPANCIES NEED TO BE REPORTED BACK TO THE ENGINEER.
 13. COVER LEVELS FOR MANHOLES ARE APPROXIMATE ONLY AND SHOULD BE ADJUSTED TO MATCH SURROUNDING LEVELS.
 14. ALL MANHOLE AND DRAINAGE COVERS SHALL COMPLY WITH BS EN 124. MANHOLE COVERS WITH BLACK PAVED AREA AND BUILDINGS SHALL BE RECESSED. COVER STRENGTHS TO BE:
 - CLASS E500 IN AREAS OF HEAVY LOADING
 - CLASS D400 IN HEAVY TRAFFICED AREAS (ROADS, SERVICES YARDS)
 15. DRAINAGE PIPES 150mm UNLESS STATED OTHERWISE.
 16. ALL PIPES TO BE LAID WITH SLOPES LEVEL, UNLESS NOTED OTHERWISE.
 17. WHERE COVER TO PIPES IS LESS THAN 1200mm CONCRETE BED AND SURROUND OR CONCRETE PROTECTION SLAB IS REQUIRED.
 18. IF A TRENCH IS WITHIN 1m OF A BUILDING IT SHALL BE FILLED WITH CONCRETE UP TO THE LOWEST LEVEL OF THE ADJACENT FOUNDATION. IF A TRENCH IS GREATER THAN 1m FROM A BUILDING THE TRENCH SHALL BE FILLED WITH CONCRETE UP TO A LEVEL BELOW THE BUILDING EQUAL TO THE DISTANCE FROM THE BUILDING LESS 150mm.
 19. VENTILATION SHALL BE PROVIDED AT THE HEAD OF THE FOUL DRAINAGE RUNS.
 20. FOR SETTING OUT OF SWP AND RWP, SEE ARCHITECTS LAYOUT.
 21. THRESHOLD DRAINAGE IS REQUIRED WHERE LEVELS FALL TOWARDS A BUILDING ENTRANCE. ARCHITECT TO CONFIRM IF NOT REQUIRED.
 22. ROAD GULLIES SHALL BE TRAPPED 400 x 300mm DEEP WITH CLASS D400 FRAME AND GRATING TO BS EN 124.
 23. 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.
 24. ALL MANHOLES, PIPE TRENCHES ETC TO BE BACKFILLED WITH IMPORTED GRANULAR FILL TO CLASS SF-655 (CARPARK MATERIAL) TO (S100) TABLE E1 & COMPACTED IN ACCORDANCE WITH TABLE 64.
 25. ALL PIPELINES SHALL BE TESTED BOTH BEFORE AND AFTER BACKFILLING, USING EITHER AIR TEST OR WATER TEST, IN ACCORDANCE WITH BS EN 1010.



NO	DESCRIPTION	BY	DATE
05	Attenuation tank relocated, foul F3.000 and drainage channel added	TP	23/1/22
04	Drainage networks updated to suit revised impermeable areas plan. Flow control chamber and attenuation tank added	TP	20/1/22
03	Surface manholes 307, 309A, 311 Repositioned. Foul manhole 107 repositioned. F01a added. F03a repositioned. Sloping ACO fall directions added. Sloping ACO detail added to lower internal floor area. Notes in Red boxes added to assist planning review.	WW	02/11/21
02	Internal foul drainage completely revised. Indicative weigh pits & laterals added. Indicative bin wash added. Internal aco layout completely revised. F07 now penstock manhole. Outline areas added.	WW	24/09/22

DATE	TENDER
17/02/22	SRCL Ltd
DATE	SRCL, KNOWSLEY, MERSEYSIDE
17/02/22	DETAILED DRAINAGE STRATEGY