

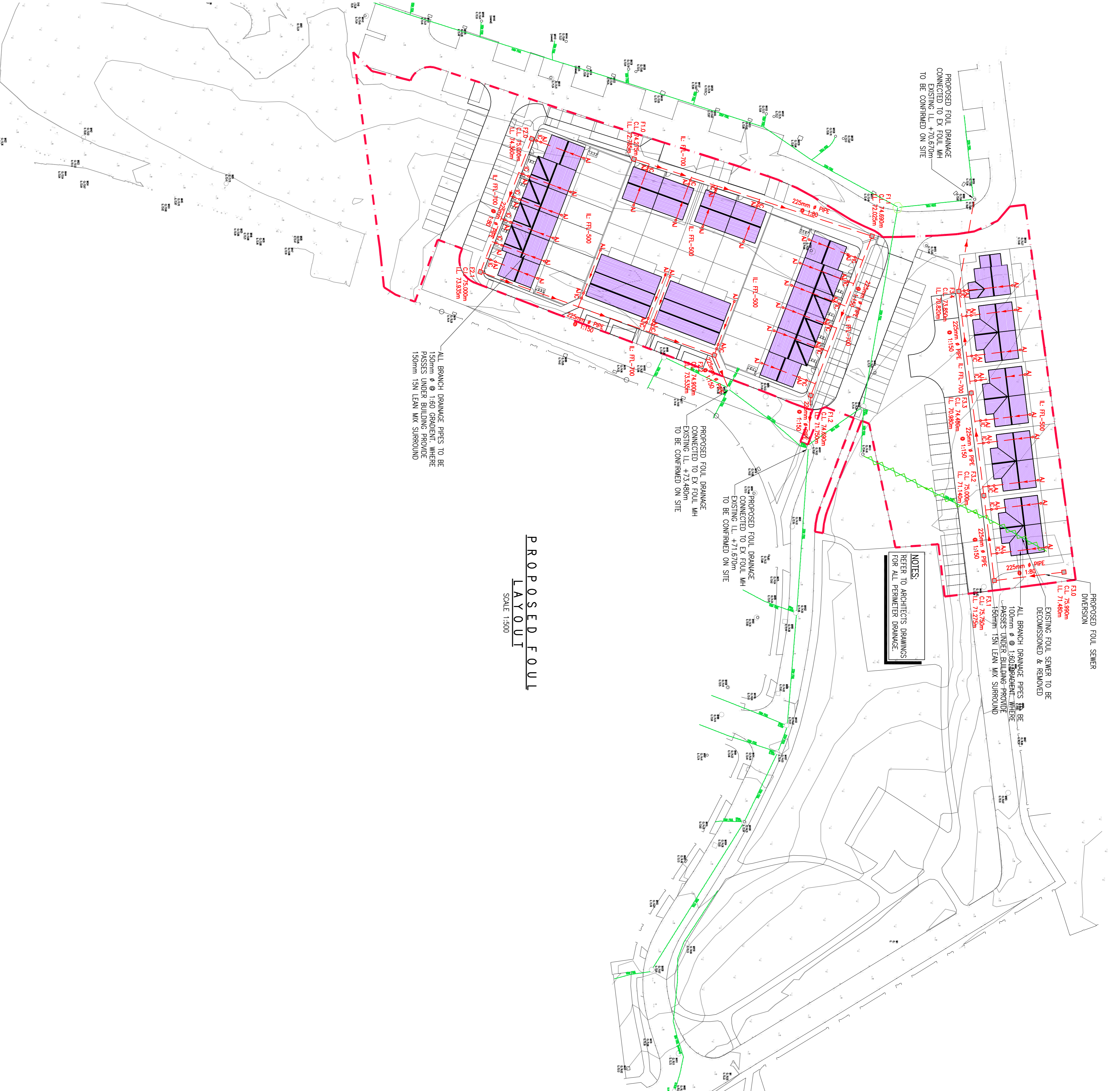
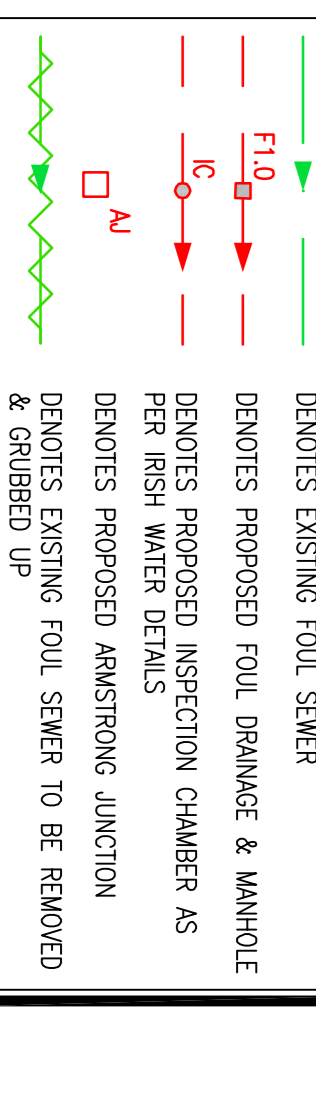
GENERAL DRAINAGE NOTES:

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL LEVELS ARE IN METRES ABOVE DATUM UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR MUST CONTACT THE RELEVANT AUTHORITIES PRIOR TO CONSTRUCTION WORK, & SATISFY HIMSELF IN RESPECT TO THE LOCATION OF ALL EXISTING SERVICES.
4. ALL PIPE DIAMETERS ARE NORMAL.
5. ALL SEWER & DRAIN PIPES ARE CLASS 'C' UPVC UNLESS OTHERWISE STATED.
6. ALL BEDDING TO SEWERS IS CLASS 'B' UNLESS OTHERWISE NOTED.
7. 600mm MAX. LENGTH ROCKER PIPES ARE TO BE PROVIDED ON SEWER WHERE:
 - (A) A PIPE ENTERS A MANHOLE OR PUMPING STATION.
 - (B) A PIPE LEAVES A MANHOLE.
 - (C) A PIPE ENTERS CONCRETE ENCASMENT.
 - (D) A PIPE LEAVES CONCRETE ENCASMENT.
 - (E) ANY OTHER LOCATION AS DIRECTED BY THE ENGINEER.
8. ALL SEWER ROCKER PIPES ARE TO BE FORMED BY CUTTING & TRIMMING A LENGTH OF SPROUT & SOCKET PIPE TO FORM A SPROUT AT THE CUT END, THEREBY FORMING SPROUT & SOCKET JOINTS AT BOTH ENDS OF THE ROCKER PIPE.
9. WHERE SEWER PIPES OR RISING MAINS CONNECT TO EXISTING MANHOLES, THE CONTRACTOR IS REQUIRED TO:
 - (A) CONTACT THE RELEVANT AUTHORITIES PRIOR TO COMMENCING WORK.
 - (B) MAKE GOOD THE EXISTING CHAMBER WALL AT THE PROPOSED POINT OF PENETRATION & ADJUST THE EXISTING BENCHING TO THE SATISFACTION OF THE ENGINEER.
 - (C) MAKE GOOD THE EXISTING ROAD TO ITS ORIGINAL SPECIFICATION AS APPROVED BY THE ENGINEER.
10. WHERE SEWER PIPES, RISING MAINS OR ROAD GULLY DRAINS CROSS EXISTING ROADS, THE CONTRACTOR IS REQUIRED TO:
 - (A) CONTACT THE RELEVANT AUTHORITIES PRIOR TO COMMENCING WORK.
 - (B) MAKE GOOD THE EXISTING ROAD TO ITS ORIGINAL SPECIFICATION AS APPROVED BY THE ENGINEER.
11. MINIMUM FALLS INDICATED ON DRAINAGE PIPES, LEVELS TO BE REVERSED IF MANHOLE LOCATIONS ARE MODIFIED BY CONTRACTOR.
12. CONCRETE PROTECTION TO BE PROVIDED AROUND ALL PIPES UNO.
13. ALL BRANCH & PERIMETER DRAINAGE ARE TO BE DETAILED BY ARCHITECT.
14. PROPRIETARY ACCESS JUNCTIONS TO BE USED AT DEPTHS OF 600mm OR LESS.
15. 450x450mm INSPECTION CHAMBERS TO BE USED AT DEPTHS OF 600-1000mm.
16. MANHOLES TO BE USED AT DEPTHS OVER 1000mm.
17. ROAD GULLIES TO BE PROVIDED SO THAT MAX AREA CONTRIBUTING TO A SINGLE GULLEY IS 180sqm.
18. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS FOR HOUSING AREAS, DEPARTMENT OF THE ENVIRONMENT.
19. ALL FOUL MANHOLE BAYS TO BE PRECAST CONCRETE PRE-BENCHED OFF SITE.

TESTING OF SEWERS:

1. FOUL & SURFACE WATER SEWERS TO BE TESTED EITHER BY WATER OR AIR TEST. IF THE AIR TEST IS CARRIED OUT & THE RESULTS SHOW A FAILURE THEN A WATER TEST SHALL BE SUBSEQUENTLY CARRIED OUT TO DETERMINE ACCEPTANCE OR REJECTION.
2. WATER TESTS CARRIED OUT SHALL BE TESTED IN UNDER A HEAD OF WATER IN ACCORDANCE WITH BS 8301 1995, & CARRIED OUT FOR A MINIMUM OF 30 MINUTES.
3. THE CONTRACTOR IS TO ENGAGE AN ENGINEER WITH PROFESSIONAL INDEMNITY INSURANCE TO SUPERVISE ALL AIR/WATER TESTS ON MAINS BEFORE BACKFILLING.
4. ON COMPLETION OF ALL SEWERS DRAINS & GULLIES, ALL SEWERS SHALL BE FLUSHED OUT & LEFT FREE FROM DEFECT & OBSTRUCTION & SUBSEQUENTLY A CCTV SURVEY SHALL BE CARRIED OUT BY AN INDEPENDENT CONTRACTOR OF THE AS BUILT DRAINAGE. THE CCTV SURVEY SHALL INCLUDE A REPORT & DVD & SHALL BE SUBMITTED TO THE ENGINEER & ARCHITECT PRIOR TO PRACTICAL COMPLETION.
5. ON COMPLETION OF ALL SEWERS, DRAINS & GULLIES AN AS-BUILT SURVEY MUST BE SUBMITTED INCLUDING LOCATION OF MANHOLES RELATIVE TO THE BUILDING OUTLINE, COVER, INVERT LEVELS & PIPE DIAMETERS TO THE ENGINEER & ARCHITECT FOR THEIR REVIEW PRIOR TO PRACTICAL COMPLETION.

FOUL DRAINAGE LEGEND:



PROPOSED FOUL LAYOUT
SCALE 1:500

NOTES:
REFER TO ARCHITECT'S DRAWINGS FOR ALL PERIMETER DRAINAGE

PROPOSED FOUL DRAINAGE CONNECTED TO EX FOUL MH EXISTING TL +70.670m TO BE CONFIRMED ON SITE

PROPOSED FOUL DRAINAGE CONNECTED TO EX FOUL MH EXISTING TL +73.480m TO BE CONFIRMED ON SITE

ALL BRANCH DRAINAGE PIPES TO BE 150mm DIA 150mm LEAN MIX SURROUND WHERE PASSED UNDER BUILDING

PROPOSED FOUL SEWER DIVERSION
EXISTING FOUL SEWER TO BE DECOMMISSIONED & REMOVED
ALL BRANCH DRAINAGE PIPES TO BE 100mm DIA @ 1:50 GRADIENT WHERE PASSED UNDER BUILDING-PROVIDE 150mm 15N LEAN MIX SURROUND

NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S SERVICE ENGINEERS DRAWINGS & SPECIFICATIONS.
2. ALL LEVELS ARE STRUCTURAL UNLESS NOTED OTHERWISE.
3. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT BUILDING REGULATIONS.
4. DO NOT SCALE - WORK TO FIGURE DIMENSIONS ONLY.

QUALITY ENGINEERS IRELAND
cpd ACCREDITED COMPANY

Rev	Date	Description	Drawn	Checked	Approved
01	24.11.17	PROGRESS ISSUE	CP	PT	NR
02	12.01.18	PART 8 ISSUE	CP	PT	NR

Client	Project Name
KILDARE COUNTY COUNCIL	SOCIAL HOUSING UNITS CASTLEFIN, SALINS, CO. KILDARE

Issue	Scale
PART 8 ISSUE	A1 - 1:500 / A3 - 1:1000

Project No.	Revision No.	Sheet
16KK042	C-010	PL1

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