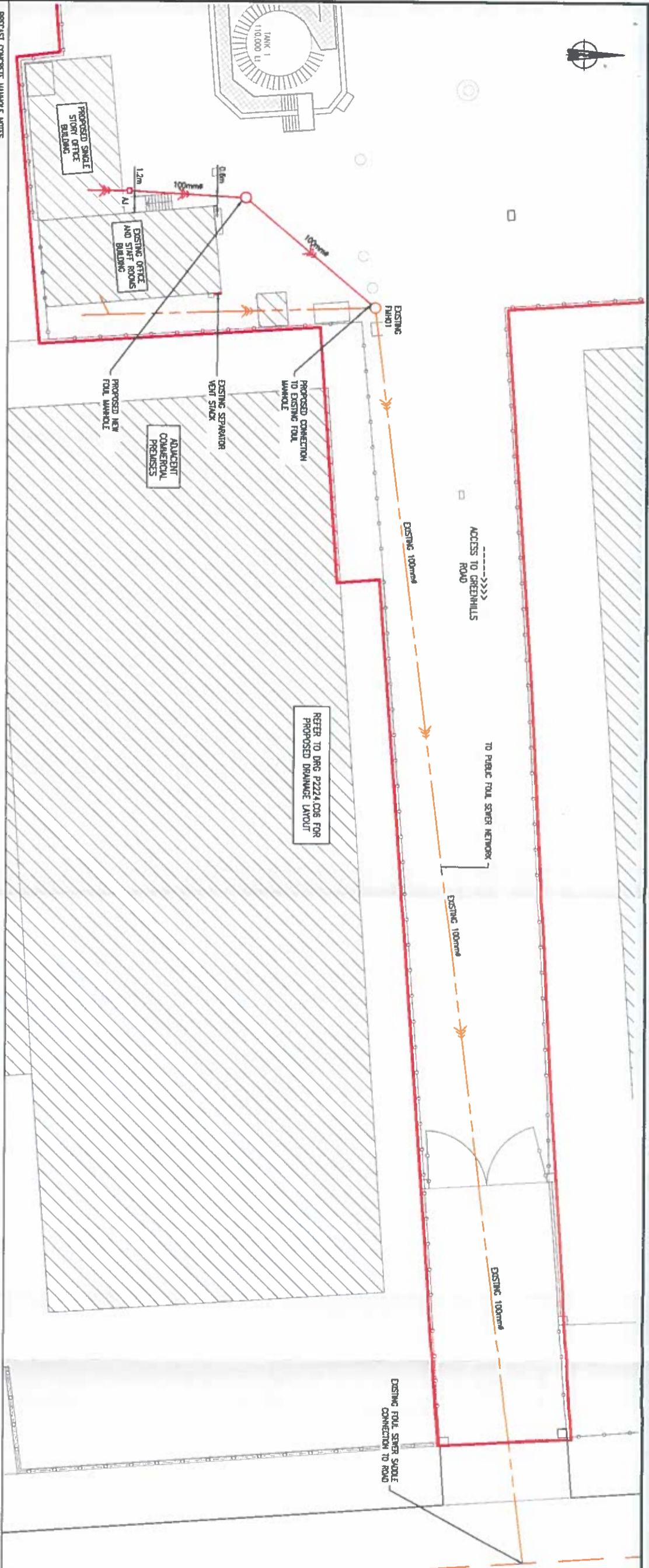
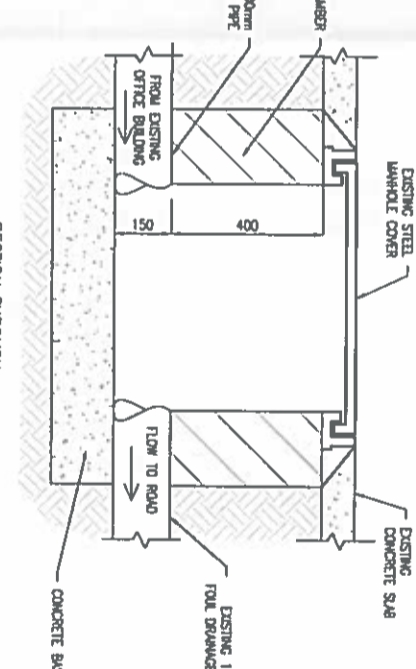
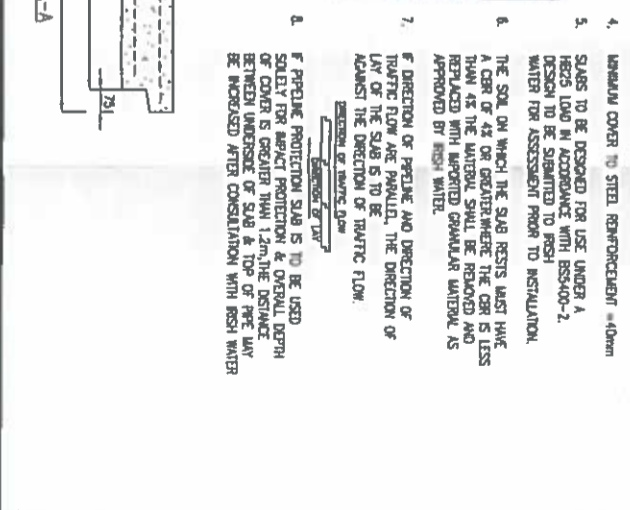
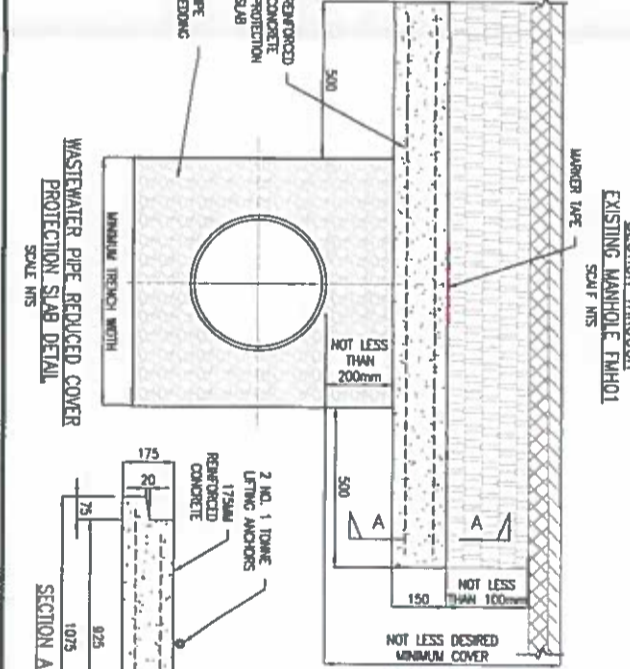
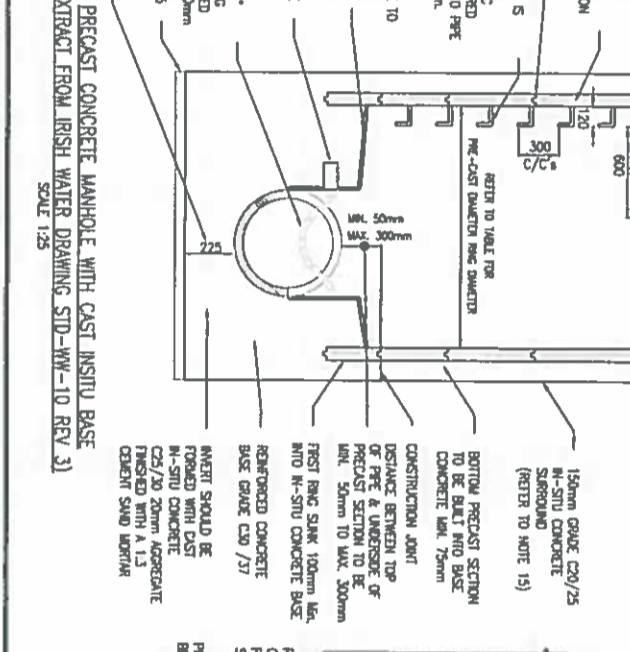
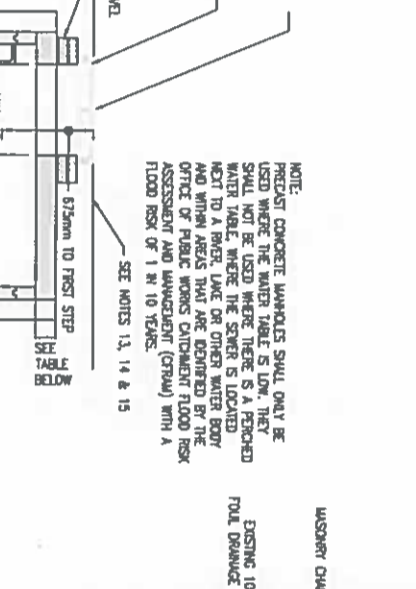
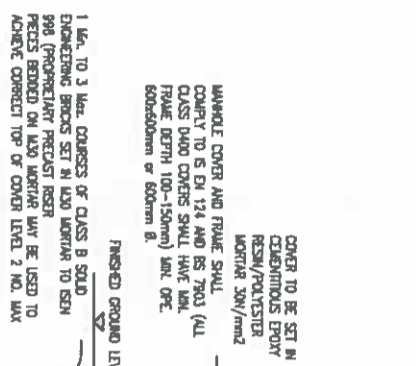


NOTES:
 THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION WITHOUT THE APPROVAL OF THE ARCHITECT.
 ALL WORK TO COMPLY WITH THE CURRENT BUILDING REGULATIONS.
 DO NOT SCALE.
 1. DRAINAGE SAFETY RELAND LICENSE No. AR 091272
 2. DRAINAGE SAFETY RELAND / GOVERNMENT OF IRELAND



PRECAST CONCRETE MANHOLE NOTES
 (EXTRACT FROM IRISH WATER WASTEWATER DETAILS STD.-WW-10 REV. 2)

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. PRE-CAST MANHOLES UNITS: COMPLYING WITH REQUIREMENTS OF S EN 1917 AND S 420.
3. HATCHER MANHOLE BASES REQUIRED FOR SENSERS IN EXCESS OF 5m DEEP WHERE THE SIZE IS GREATER THAN THE STANDARD MINIMUM SIZE.
4. APPROVED PRE-CAST CONCRETE BASES MAY BE USED INCORPORATING CHANGING REINFORCING FCS SUBJECT TO RISH WATER REVIEW AND COMPLYING WITH SEN 1719 AND S 420.
5. STRUCTURAL DESIGN AND REINFORCEMENT DETAILS TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO RISH WATER FOR REVIEW.
6. MANHOLES GREATER THAN 5m IN DEPTH WILL REQUIRE A DETAILED STRUCTURAL DESIGN AND BE SUBJECT TO RISH WATER REVIEW.
7. MANHOLE ROOST SHALL CONSIST OF A RE-INFORCED CONCRETE SLAB OF M-SHU CONCRETE, C30/37, WITH A MINIMUM THICKNESS OF 225mm DESIGNED TO CARRY ALL LIVE AND DEAD LOADS. ALTERNATIVELY, APPROVED PRE-CAST CONCRETE ROOST SLABS MAY BE USED SUBJECT TO RISH WATER REVIEW AND COMPLIANCE WITH S EN 1917.
8. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO REVIEW BY RISH WATER.
9. 200mm ALL AROUND x 100mm DEEP: C20/25 CONCRETE PLAIN COMPLETE WITH BALL NOSE FINISH AND TO BE PROVIDED COMPLETE WITH LAD STEEL REINFORCEMENT LINK AROUND COVERS IN GREEN AREAS.
10. ALL CHANGERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANY FOUNDATION REVISIONS BE REQUIRED THEY SHALL BE SUBJECT TO REVIEW BY RISH WATER.
11. ALL CONCRETE TO BE IN ACCORDANCE WITH S EN 206 : 2013.
12. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY REQUIREMENTS.
13. NEW ROAD REINSTATEMENT & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS.
14. EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF 'GUIDELINES FOR MANHOLE OPENINGS IN PUBLIC ROADS' BY THE DEPT. OF TRANSPORT, TOURISM & SPORT, OR TRANSPORT INFRASTRUCTURE RELEVANT REQUIREMENTS.
15. F DEPTH FROM GROUND TO PIPE SLOTT IS GREATER THAN 6m DEEP: A SITE SPECIFIC ENGINEERED SOLUTION FOR ACCESS SHALL BE PROVIDED.
16. PROPRIETARY WATERPROOF JOINT SYSTEMS WITH A WALL THICKNESS > 75mm, & A WATER TIGHT JOINT SYSTEM, MAY BE USED WITHOUT CONCRETE SURROUND, SUBJECT TO THE GROUND WATER LEVEL AT THE MANHOLE BEING LOW, & SUBJECT TO REVIEW BY RISH WATER.
17. THE INTERNAL MANHOLE DIAMETERS SHOWN IN THE TABLE BELOW ARE MINIMUM DIMENSIONS AND WILL INCREASE DEPENDING ON THE NUMBER SWM/CSM/FINISH TO SUIT FLOW OF WALES AND OUTLET.



WASTEWATER TRENCH PROTECTION SLAB NOTES AS PER IRISH WATER STD.-WW-08 REV. 1

1. FOR ANY SLABBING WORKS TO BE CARRIED OUT WITHIN THE SCOPE OF THE PERMITS, A METHOD STATEMENT IS TO BE SUBMITTED FOR REVIEW BY RISH WATER.
2. MANHOLE TAP TO BE PLACED ABOVE THE SLAB AND ALONG THE DIRECTION OF THE PERMITS.
3. CONCRETE TO BE GRADE C30 / 35.
4. MANHOLE COVER TO STEEL REINFORCEMENT = 40mm.
5. SLABS TO BE DESIGNED FOR USE UNDER A DESIGN LOAD IN ACCORDANCE WITH BS5400-2.
6. THE SOIL ON WHICH THE SLAB RESTS MUST HAVE A CBR OF 4% OR GREATER. WHERE THE CBR IS LESS THAN 4% THE MATERIAL SHALL BE REMOVED AND REPLACED WITH APPROVED GRANULAR MATERIAL AS APPROVED BY RISH WATER.
7. F DEPTH OF PERMITS AND DIRECTION OF LIVE FOR THE PERMITS, THE DIRECTION OF LIVE FOR THE SLAB IS TO BE AGAINST THE DIRECTION OF PERMITS FLOW.
8. F PRELIMINARY PROTECTION SLAB IS TO BE USED TO PROTECT THE PERMITS AND OVERALL DEPTH OF COVER IS GREATER THAN 1.2m, THE DISTANCE BETWEEN UNDERSIDE OF SLAB & TOP OF PIPE MAY BE INCREASED AFTER CONSULTATION WITH RISH WATER.

McArdle Doyle
 Chartered Engineers
 Architectural Services
 & Project Managers

24 GREENHILLS RD,
 TALLAGHT, CO. DUBLIN

JONES OIL

FUEL DEPOT
 24 GREENHILLS RD,
 TALLAGHT, CO. DUBLIN

PROPOSED FOUL DRAINAGE LAYOUT & DETAILS

Date	20/12/22	Drawn	GP	Checked	JF	Approved	JF
Scale	at A1	Drawing Number	P2224.C16	Sheet	PL	Rev.	-