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NOTES:

- RIGID PIPES SHALL MEAN CAST OR SPUN IRON, CONCRETE OR CLAY.
- FLEXIBLE PIPES SHALL MEAN PIPES OF STEEL, PVC, OTHER PLASTIC OR DUCTILE IRON.
- CONCRETE C20/25 TO HAVE COVER = 50mm MIN. WITH A MINIMUM CEMENT CONTENT OF 280 kg/m³, MAXIMUM W/C RATIO OF 0.65 AND SLUMP CLASS S2.
- C25/30 CONCRETE TO HAVE A MINIMUM CEMENT CONTENT OF 280 kg/m³, MAXIMUM WATER/CEMENT RATIO OF 0.65 AND SLUMP CLASS S2.
- FOR DETAILS OF TRENCH REINSTATEMENT TO PIPES IN THE VICINITY OF BUILDINGS, WALLS & FOUNDATION REFER TO STRUCTURAL DRAWINGS.
- ALL PIPES WITH LESS THAN 1.2m COVER UNDER GRASSED AREAS AND FOOTPATHS TO BE SURROUNDED IN 150mm MINIMUM OF C20/25 CONCRETE.
- LEAN-MIX BACKFILL TO TRENCHES IN EXISTING ROADS, WHERE REQUIRED BY THE LOCAL AUTHORITY TO BE GRADE C20/25 CONCRETE.
- TRENCH DETAILS ARE REFERENCED FROM:
 - GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
 - TII ROAD CONSTRUCTION DETAILS
 - DOE RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS
 - BUILDING REGULATIONS
- WHERE ROCKS OR OTHER HARD TRENCH BOTTOM IS ENCOUNTERED, THE FIGURE DENOTED BY '1' IS TO BE DOUBLED.
- GRANULAR BACKFILL MATERIAL SHALL BE IN COMPLIANCE WITH CLAUSE 808 (GRANULAR MATERIAL TYPE B) OF THE TII SPECIFICATION FOR ROAD WORKS. GRANULAR BACKFILL SHOULD BE PLACED UNIFORMLY ON EITHER SIDE OF THE PIPE IN LAYERS NOT EXCEEDING 100mm. EACH LAYER BEING COMPACTED BY HAND TAMPING UNTIL THE PIPE HAS MINIMUM OF 30mm COMPACTED COVER. CARE SHOULD BE TAKEN THAT THE PROCESS OF COMPACTATION DOES NOT DISPLACE THE PIPE FROM ITS CORRECT LINE AND LEVEL. SUBSEQUENT LAYERS OF GRANULAR FILL TO BE WELL COMPACTED IN 150mm THICK LAYERS TO THE LOCAL AUTHORITY ROAD DIVISION SPECIFICATION. MECHANICAL COMPACTATION EQUIPMENT SHOULD NOT BE USED UNTIL THERE IS A MINIMUM OF 450mm COMPACTED COVER OVER THE CROWN OF THE PIPE.
- SELECTED FILL SHOULD BE FREE FROM STONES LARGER THAN 37mm, LUMPS OF CLAY OVER 75mm, TIMBER, FROZEN MATERIAL AND VEGETABLE OR FOREIGN MATTER. SELECTED FILL SHOULD BE PLACED UNIFORMLY ON EITHER SIDE OF THE PIPE IN LAYERS NOT EXCEEDING 100mm, EACH LAYER BEING COMPACTED BY HAND TAMPING UNTIL THE PIPE HAS A MINIMUM OF 150mm COMPACTED COVER. CARE SHOULD BE TAKEN THAT THE PROCESS OF COMPACTATION DOES NOT DISPLACE THE PIPE FROM ITS CORRECT LINE AND LEVEL. SUBSEQUENT SELECTED FILL CAN BE PLACED AND COMPACTED IN 150mm THICK LAYERS.
- GENERAL BACKFILL MATERIAL SUITABLE FOR BACKFILL ABOVE SELECTED FILL MATERIAL SHOULD BE FREE FROM BOULDERS, LUMPS OF CONCRETE, TIMBER AND VEGETABLE OR FOREIGN CONTAMINATED MATTER. GENERAL BACKFILL SHOULD BE PLACED IN LAYERS NOT EXCEEDING 300mm, EACH LAYER BEING WELL COMPACTED. MECHANICAL COMPACTATION EQUIPMENT SHOULD NOT BE USED UNTIL THERE IS A MINIMUM OF 450mm COMPACTED COVER OVER THE CROWN OF THE PIPE.
- TRENCH ABOVE PIPES WITH LESS THAN 750mm COVER TO BE BACKFILLED WITH C20/25 CONCRETE TO FORMATION LEVEL.
- SURFACING TO BE IN ACCORDANCE WITH THE ROAD SPECIFICATION AND, IF APPROPRIATE, LOCAL AUTHORITY REQUIREMENTS.
- WHERE CLASS 6F1 / 6F2 CAPPING MATERIAL IS PROPOSED WITHIN 500mm OF CONCRETE OR STEEL, CLASS SN IS TO BE USED INSTEAD.

NOTE:
ALL WORKS & SPECIFICATIONS TO BE UNDERTAKEN IN ACCORDANCE WITH
 • TII SPECIFICATION FOR ROADWORKS
 • GREATER DUBLIN CODE OF PRACTICE FOR DRAINAGE WORKS
 • RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS

P02	21/03/22	ISSUED FOR PLANNING	RSP	LMcL
P01	29/09/20	ISSUED FOR PRE-PLANNING	APW	BJM
rev	date	description	by	chkd.
		A - Approved		
		B - Approved with comments		
		C - Do not use		

client approval

suitability S2 - FOR INFORMATION issue purpose PLANNING

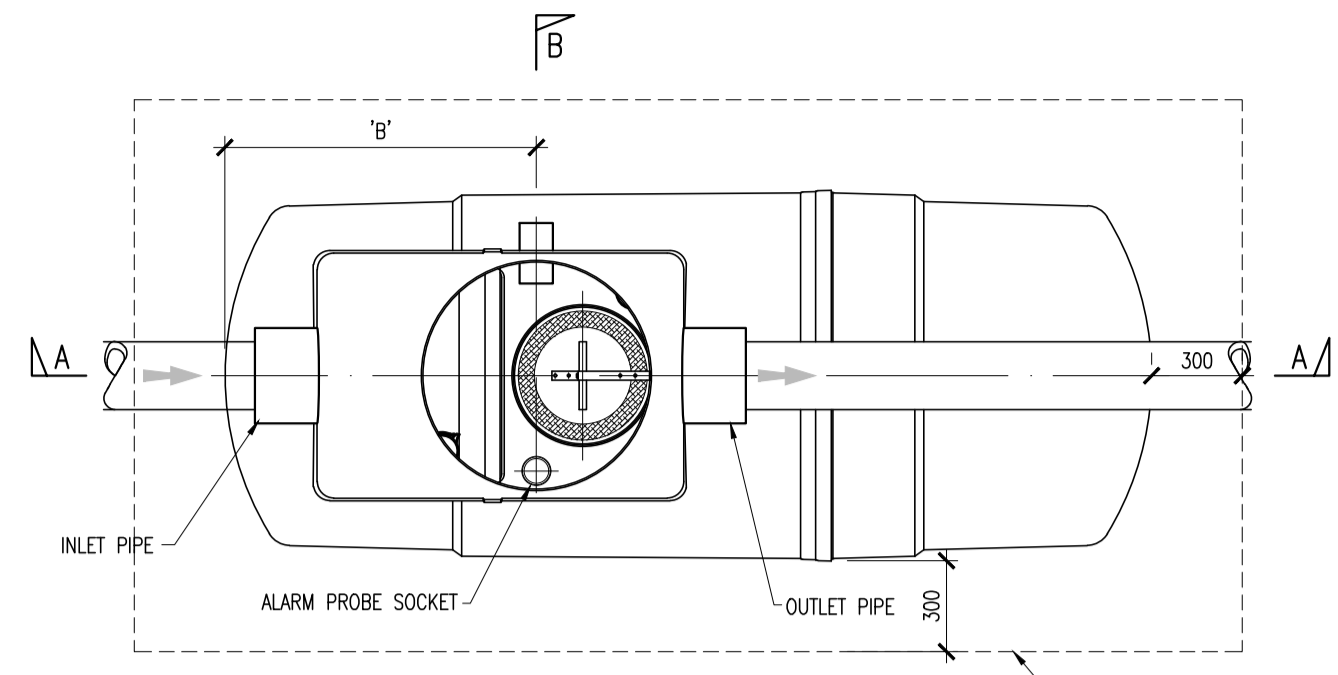
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project ref. RESIDENTIAL DEVELOPMENT AT HACKETTSTOWN, SKERRIES, CO. DUBLIN

drawing title SURFACE WATER STANDARD DETAILS - SHEET 2

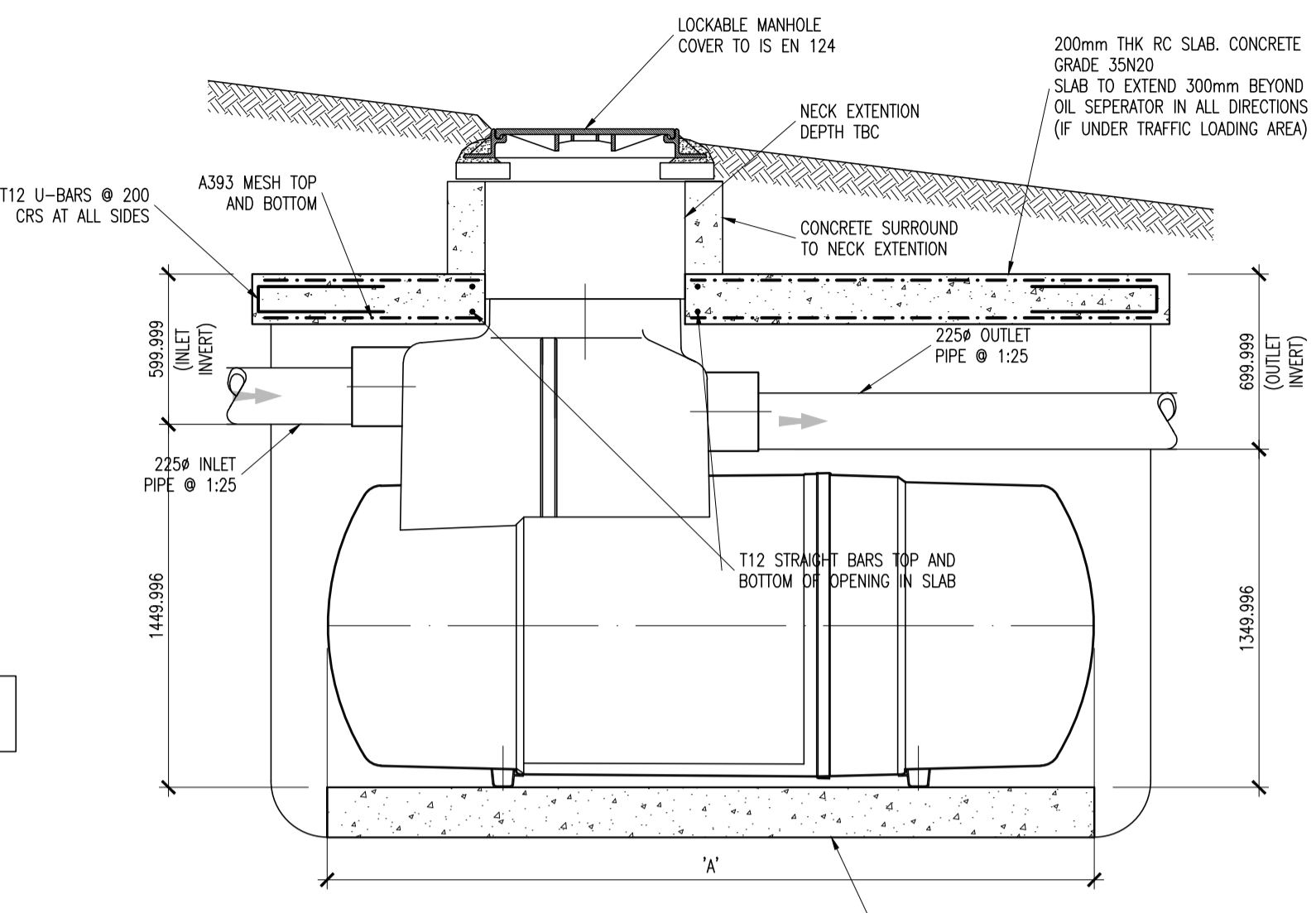
client LAND DEVELOPMENT AGENCY

designed by	author	scale	sheet size
BJM	APW	AS SHOWN	A1
drawing no.			revision
190170-DBFL-SW-SP-DR-C-5013			P02



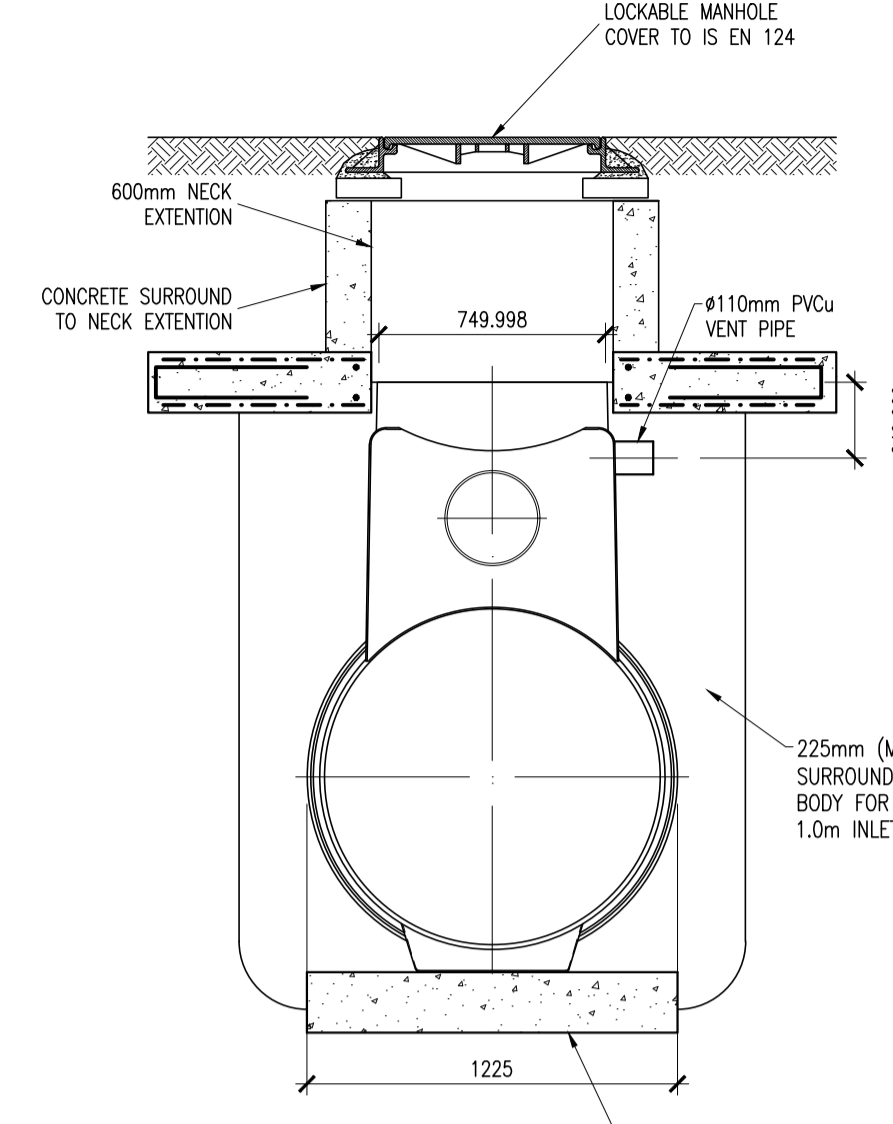
PLAN

NOTE: FOR UNIT DIMENSIONS REFER TO MANUFACTURERS BROCHURE & DETAILS

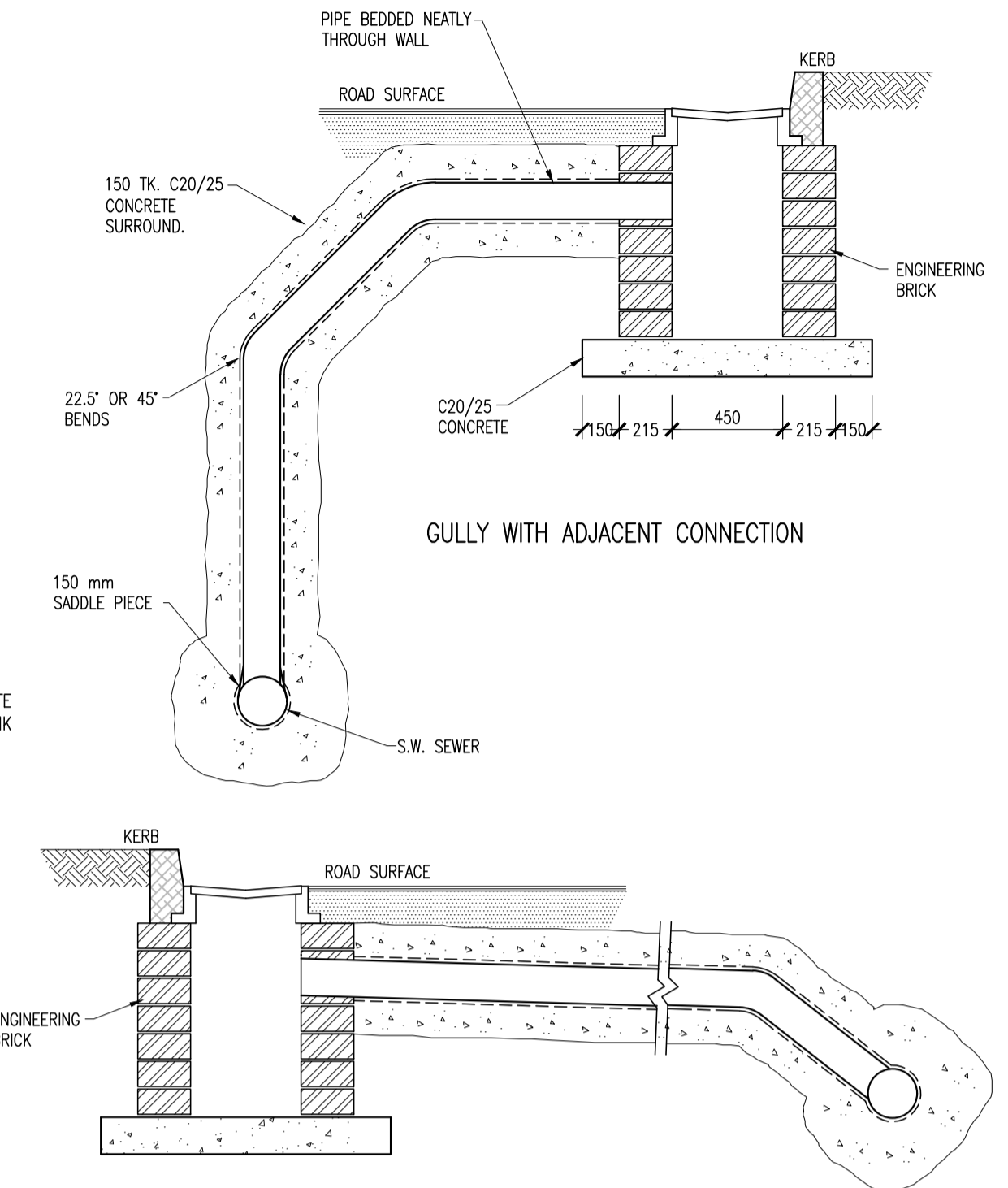


SECTION A-A

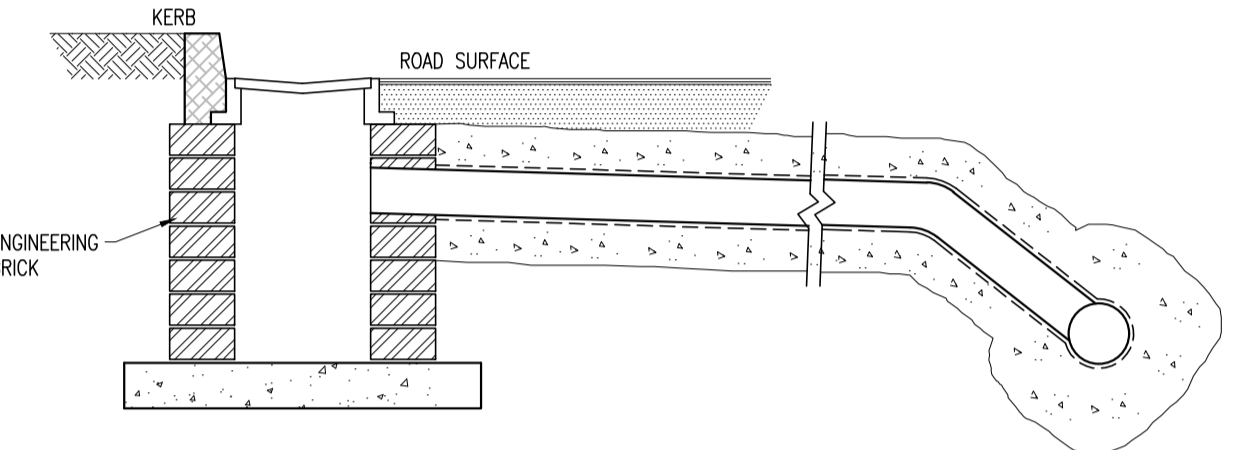
PETROL INTERCEPTOR DETAIL
SCALE 1:25



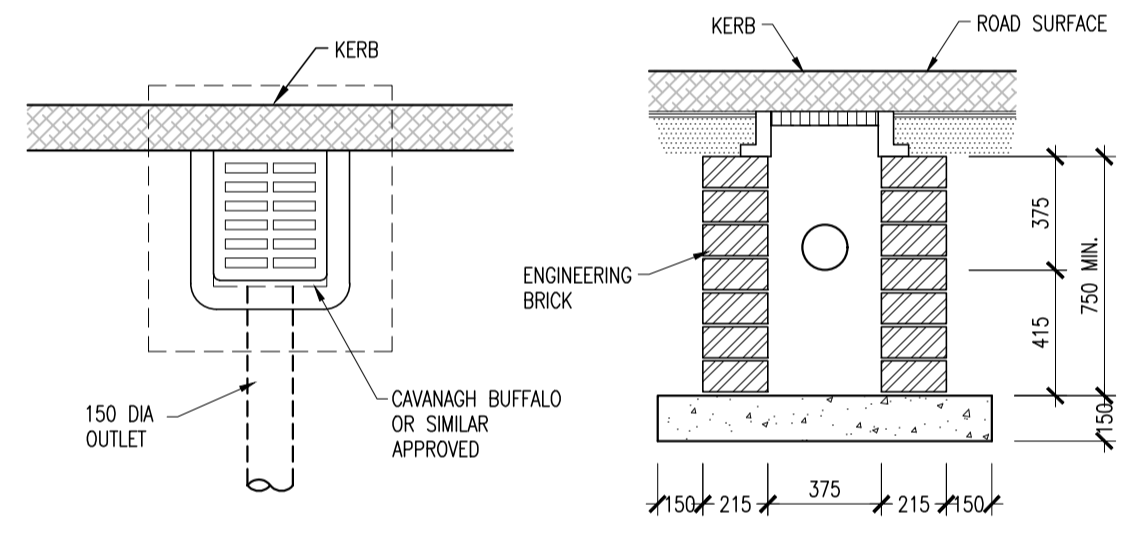
SECTION B-B



GULLY WITH ADJACENT CONNECTION



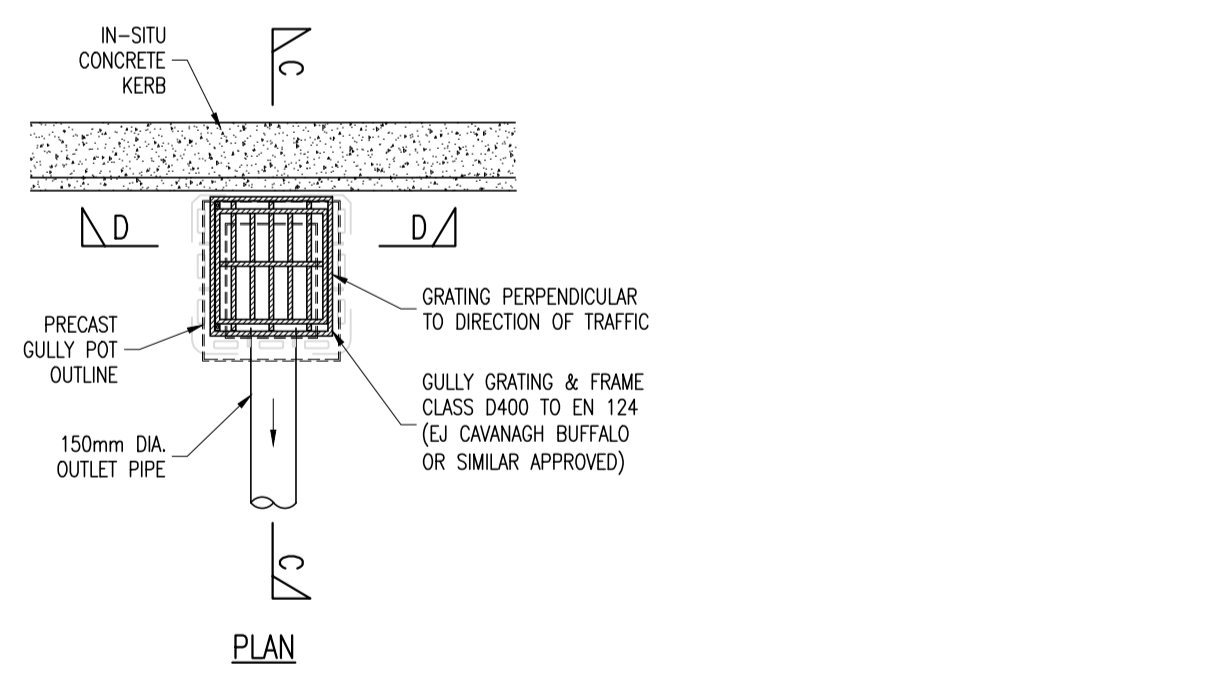
GULLY WITH CONNECTION ON OPPOSITE SIDE OF ROAD



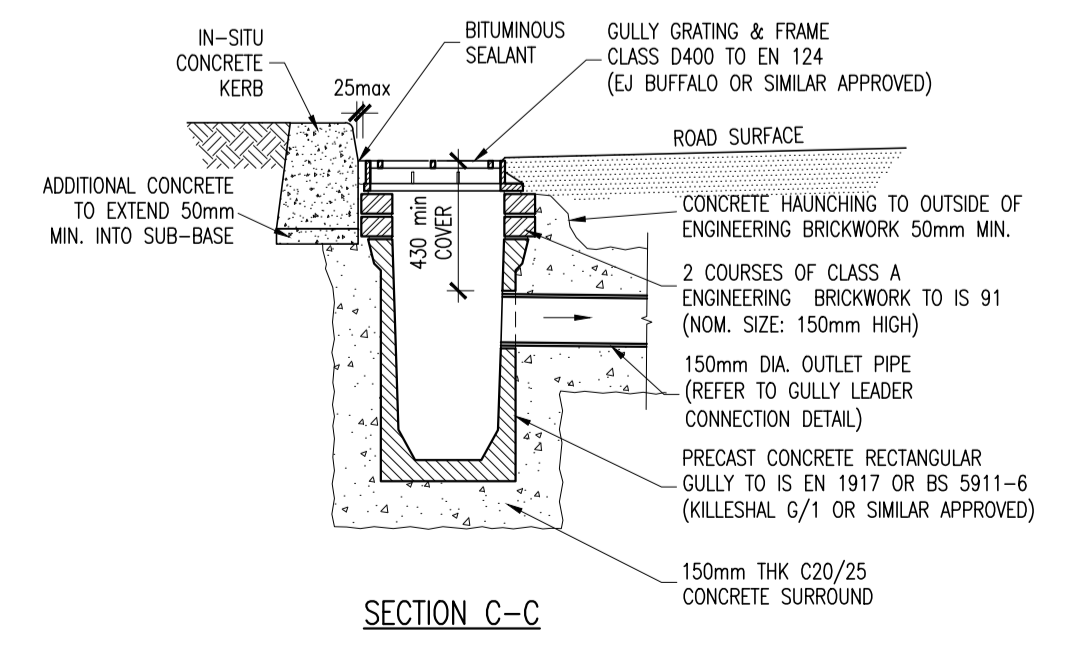
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SECTION

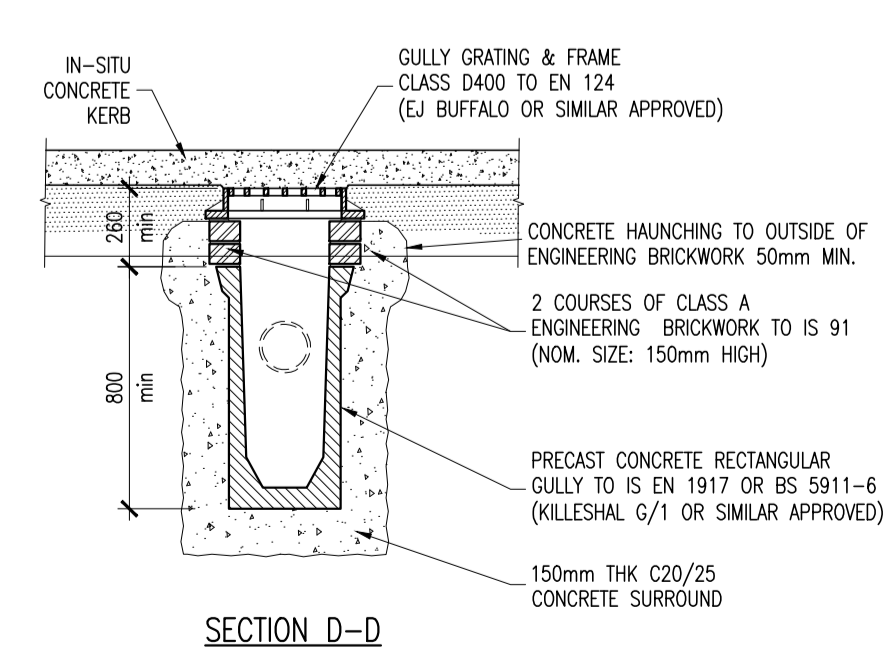
IN-SITU ROAD GULLY DETAILS



PLAN

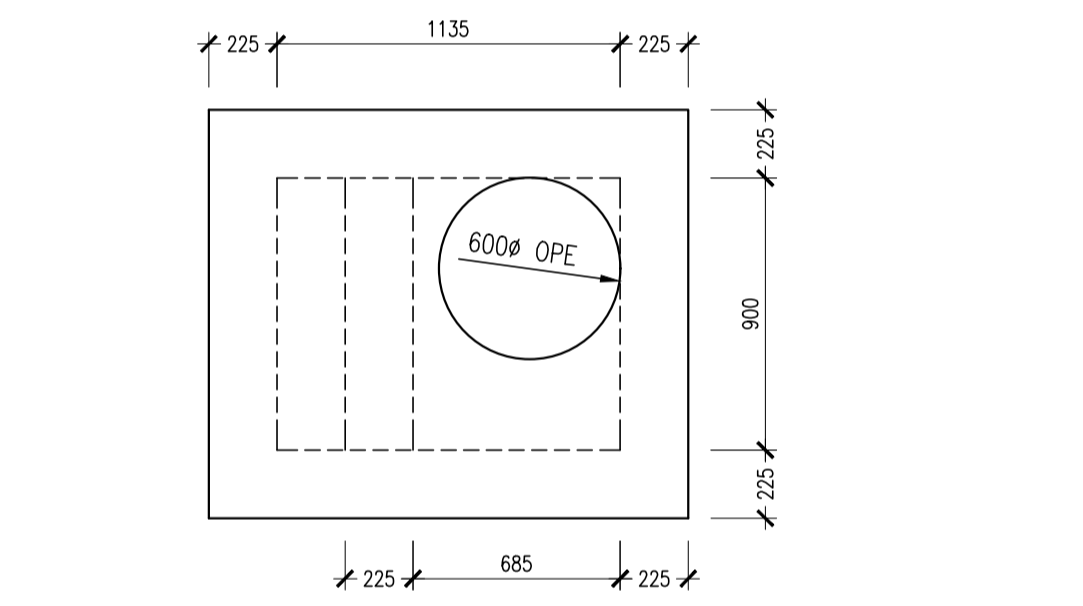


SECTION C-C



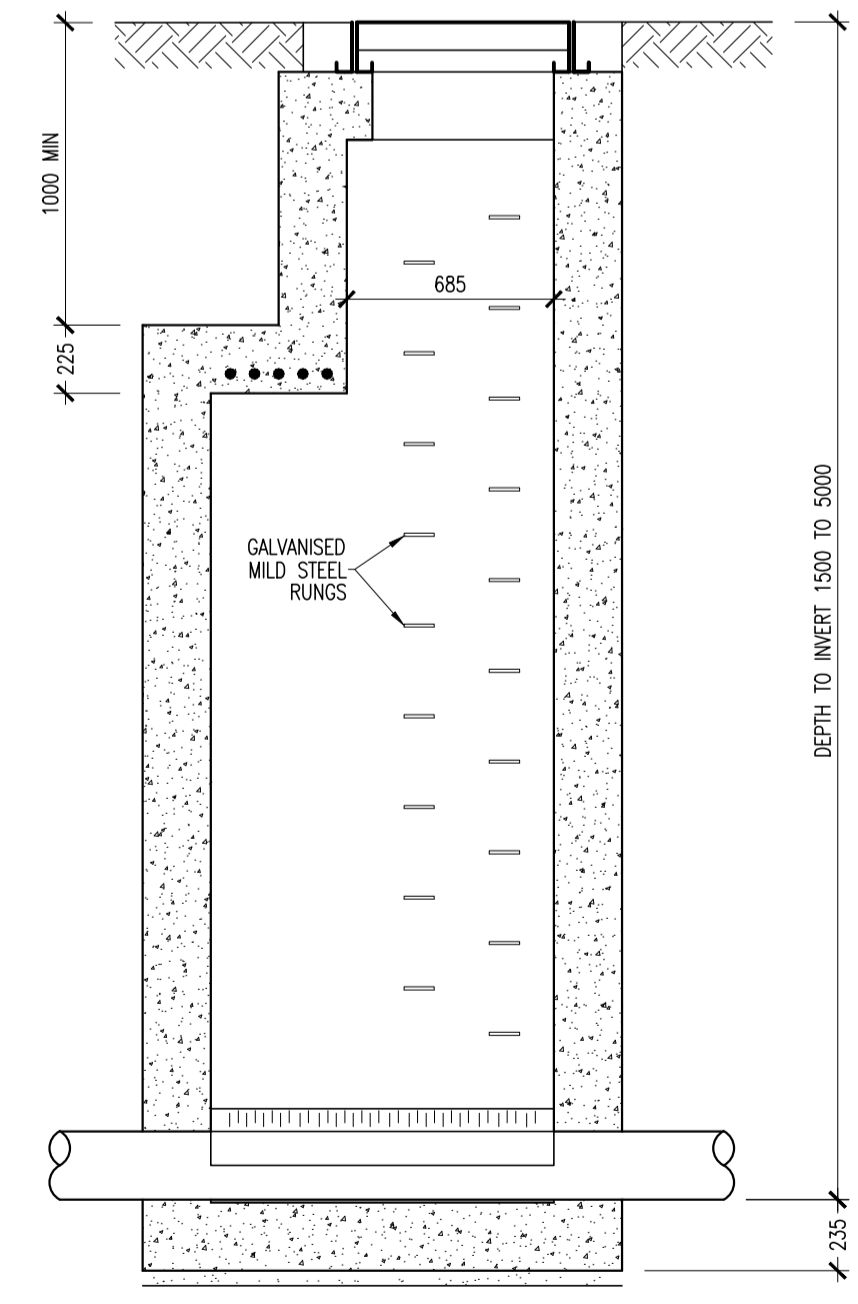
SECTION D-D

RECTANGULAR PRECAST ROAD GULLY DETAIL



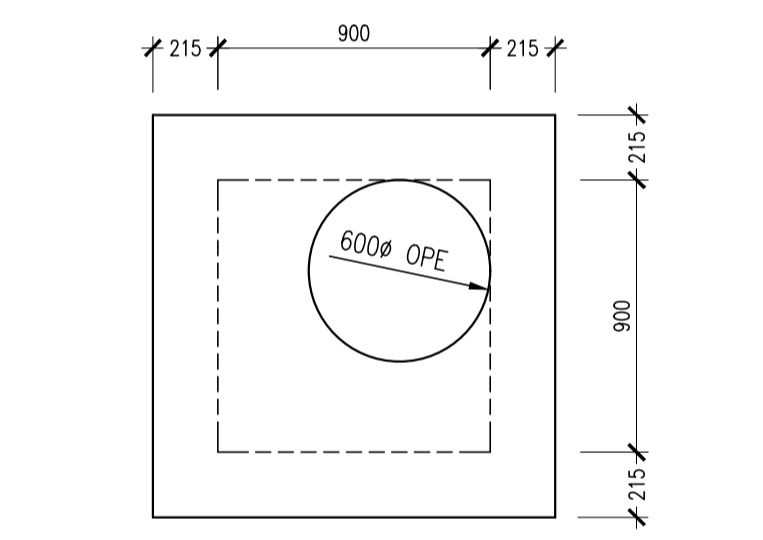
BACKDROP MANHOLE

INLET DIA.mm	H MIN.mm
225	600
300	600
375	750
450	750
525	750
600	750
750	750



DEEP MANHOLE

PRIVATE DRAINAGE
 [ALTERNATIVE IN-SITU REINFORCED CONCRETE MANHOLE DETAILS]
 (STRUCTURAL ENGINEER TO PROVIDE CONSTRUCTION DETAILS)



SHALLOW MANHOLE

