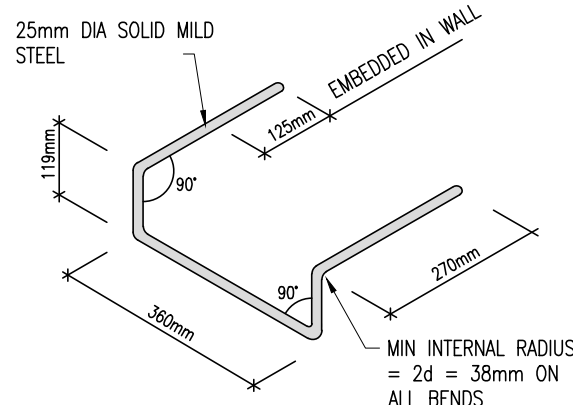
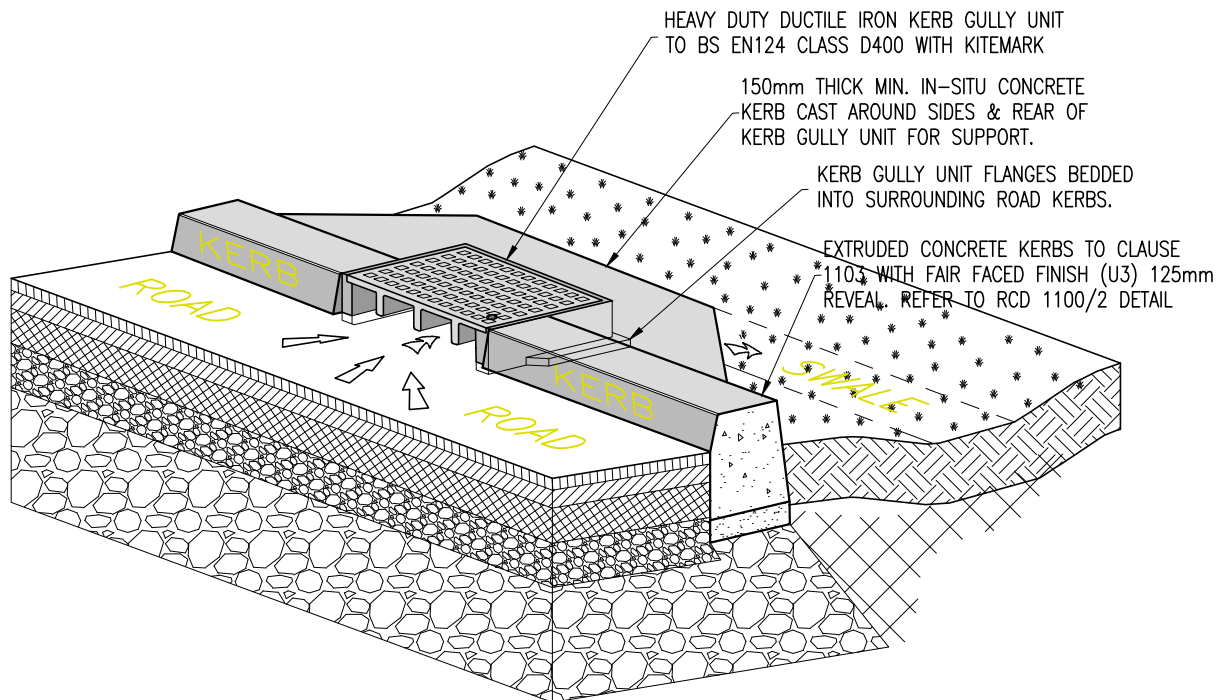




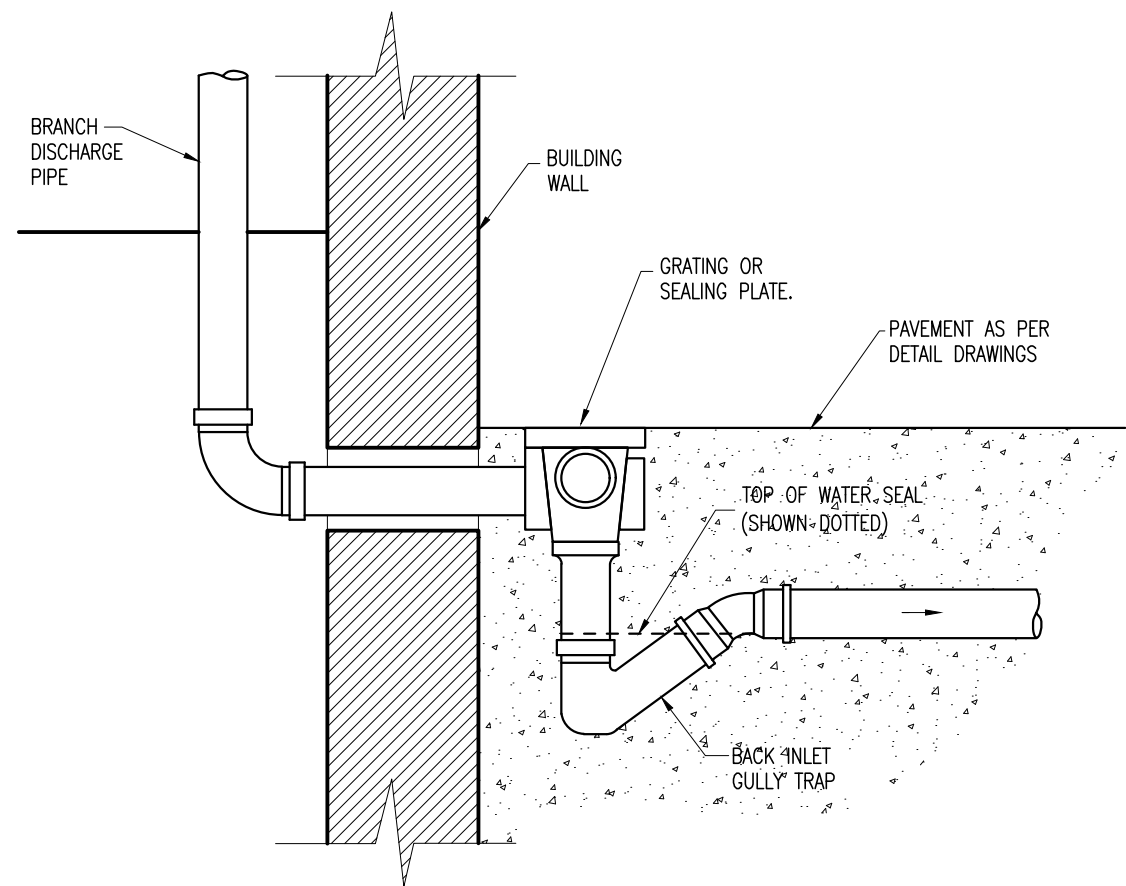
STANDARD RUNG
HOT DIP GALVANIZED.
(IRON STEPS NOT PERMITTED)

DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	CHAMBER SECTION DIAMETER (mm)		
	1m - 3m	DEPTH TO SOFFIT 3m - 6m	6m - 12m
LESS THAN 375	1050	1050	1500
<600	1200	1200	1500
<675	1350	1350	1500
<750	1350	1500	1500
<900	1500	1500	1500
<1200	2100	2100	2100

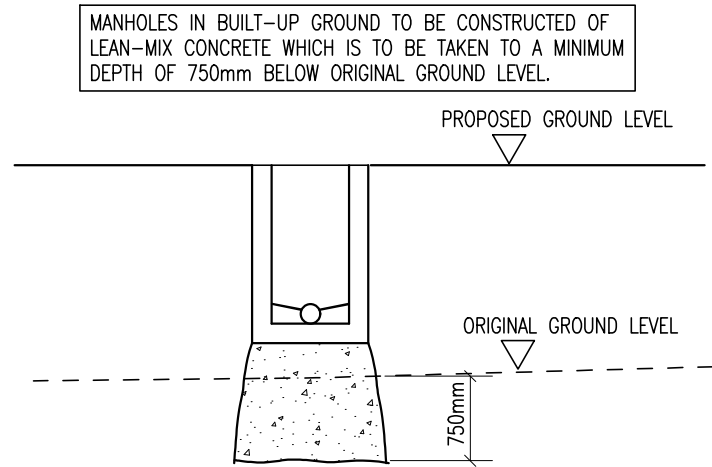
TABLE 1



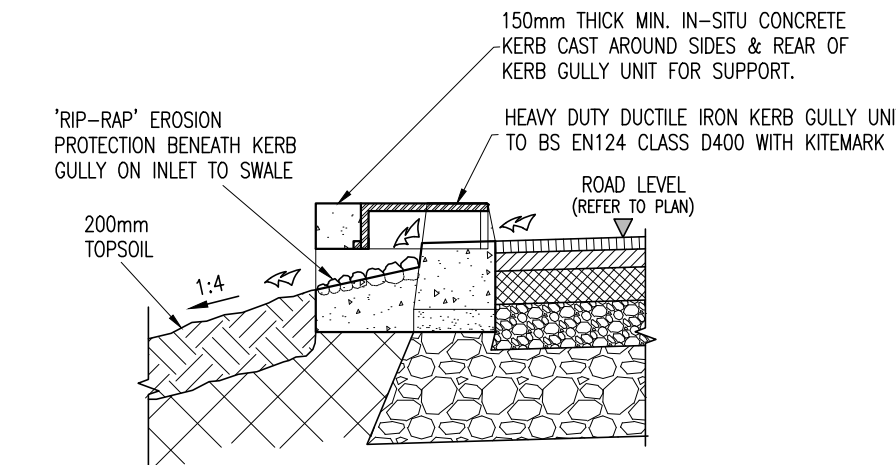
LATERAL INLET KERB GULLY SCHEMATIC
[FOR ROAD DRAINAGE]
SCALE: NTS



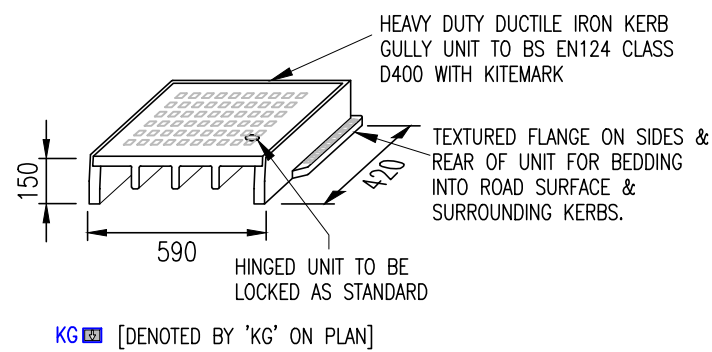
BACK INLET GULLY TRAP
FOR FOUL CONNECTIONS



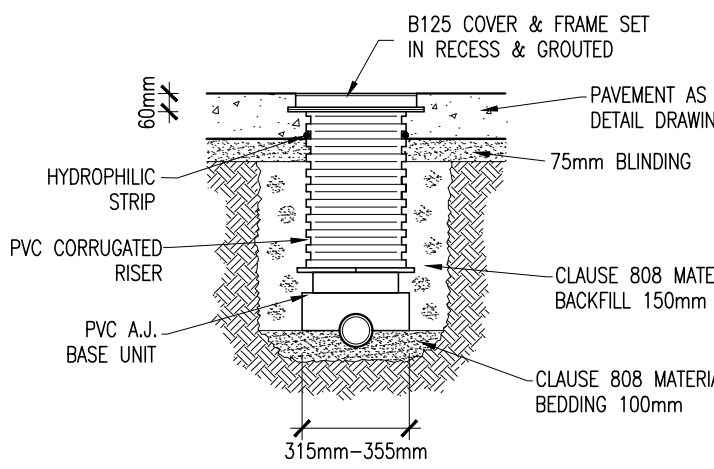
DRAINS IN BUILT-UP GROUND



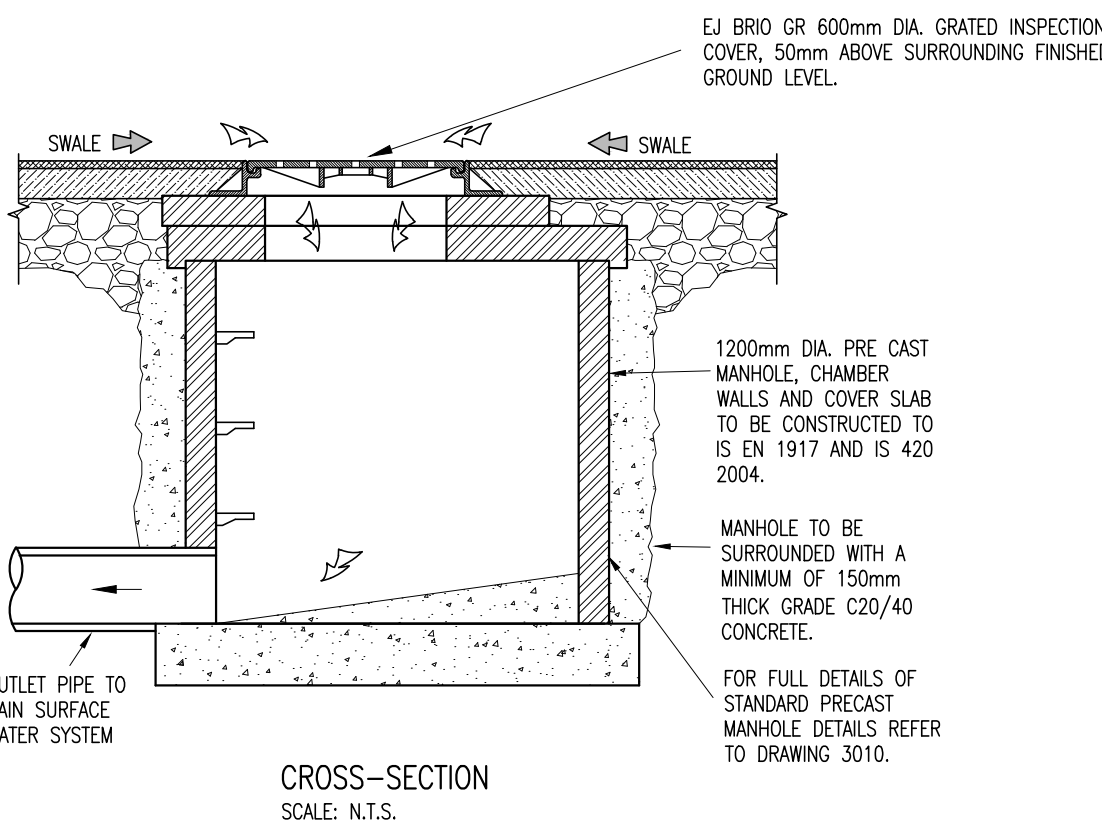
LATERAL INLET KERB GULLY TO SWALE CROSS-SECTION
[FOR ROAD DRAINAGE]
SCALE: NTS



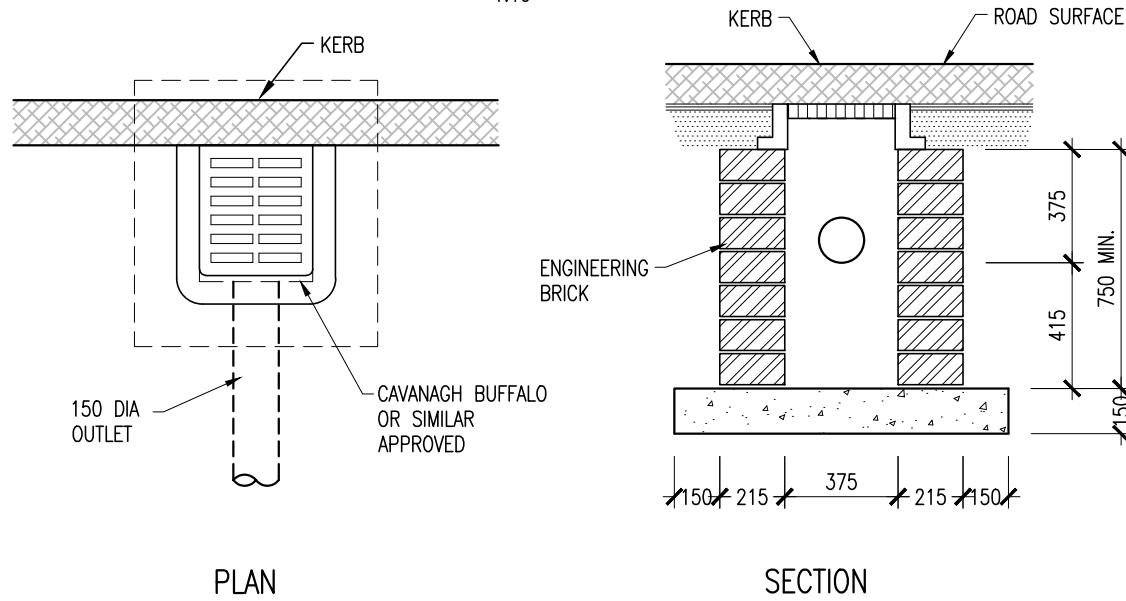
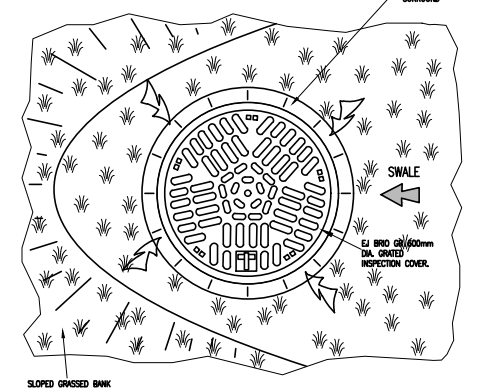
LATERAL INLET KERB GULLY DETAIL
[LOCATED ALONG KERBLINES TO ALLOW ROAD SURFACE WATER RUN-OFF INTO SWALES]
SCALE: NTS



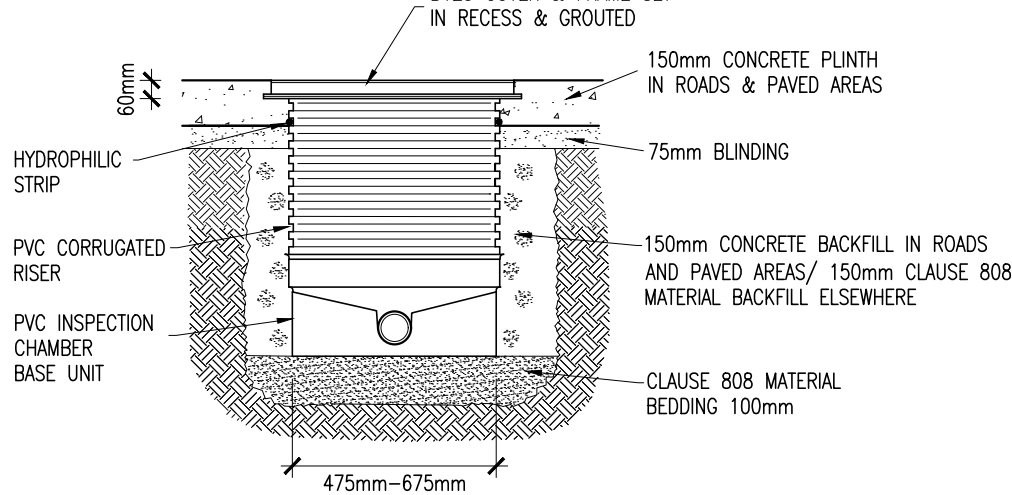
SURFACE WATER A.J. DETAIL



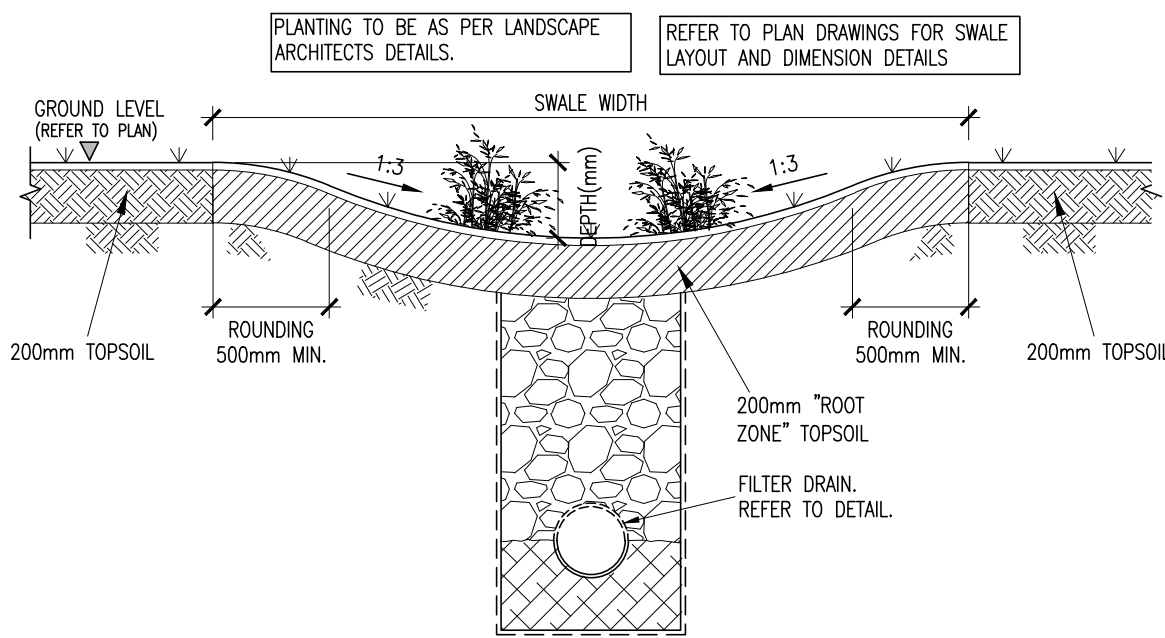
GRATED MANHOLE INLET CHAMBER
[FOR ROAD DRAINAGE]



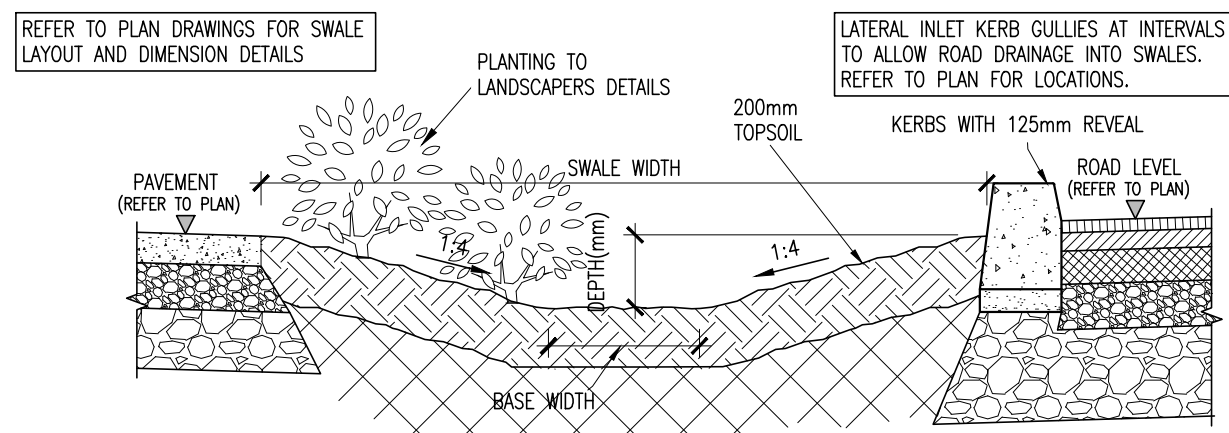
IN-SITU ROAD GULLY DETAILS



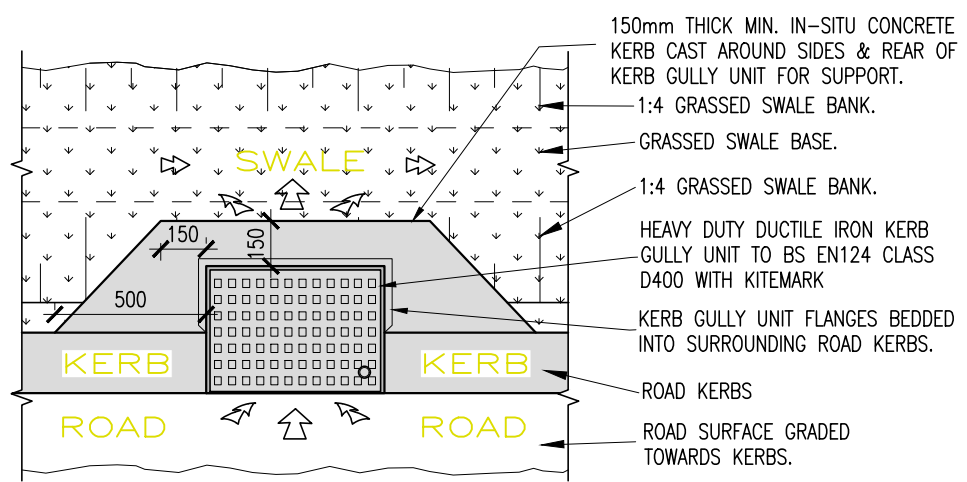
SURFACE WATER INSPECTION CHAMBER



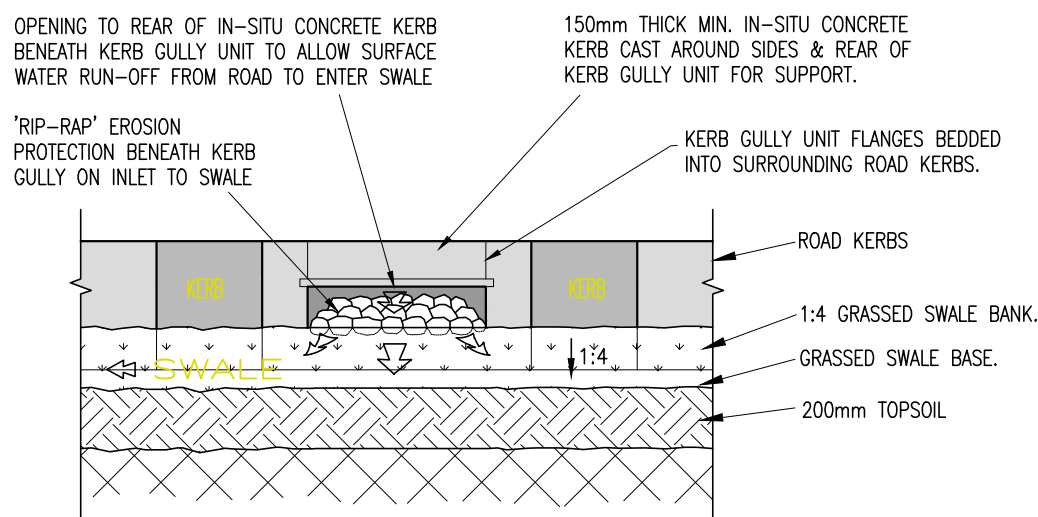
PLANTED SWALE DETAIL
SCALE: NTS



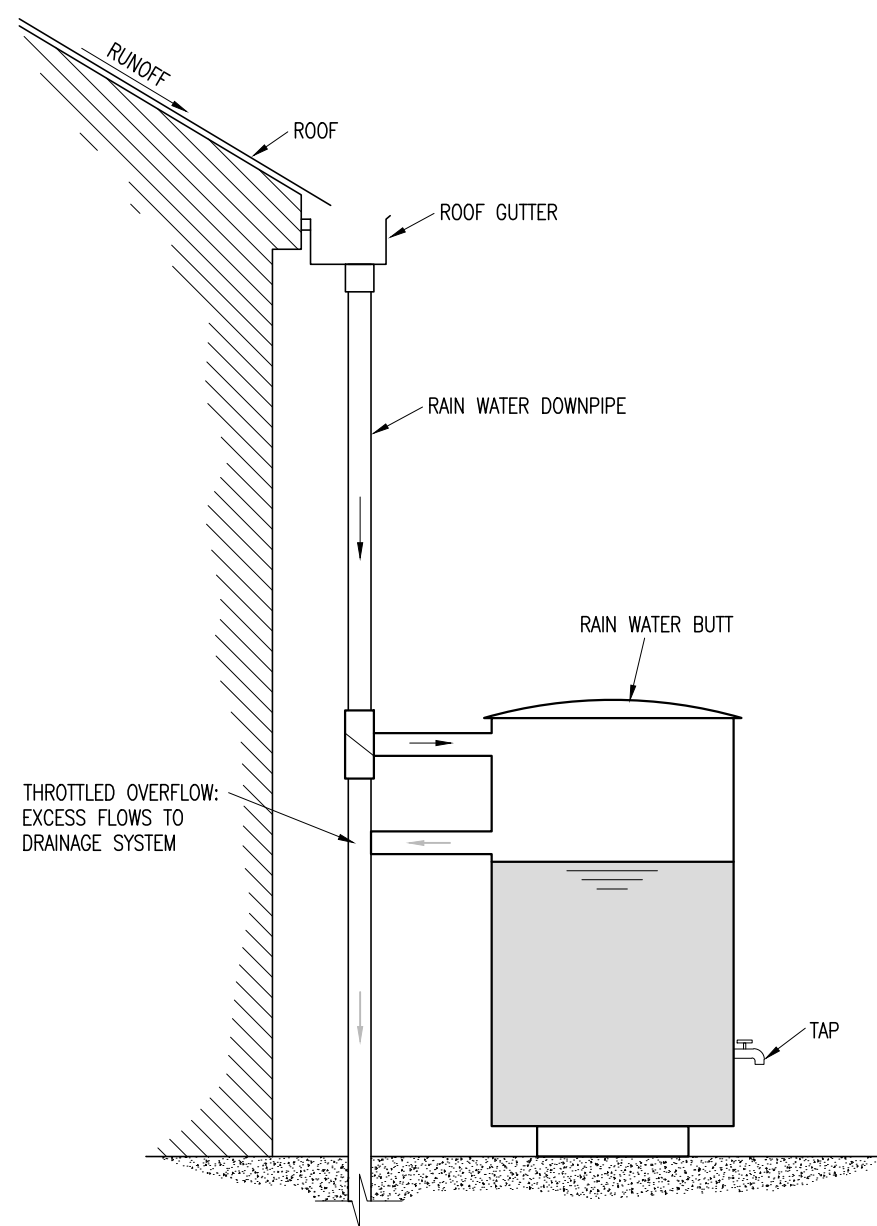
'WET' SWALE CROSS-SECTION
[FOR ROAD DRAINAGE]
SCALE: NTS



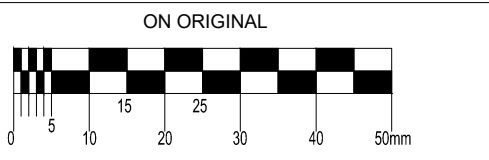
LATERAL INLET KERB GULLY PLAN
[FOR ROAD DRAINAGE]
SCALE: NTS



LATERAL INLET KERB GULLY - REAR ELEVATION
[FOR ROAD DRAINAGE]
SCALE: NTS



TYPICAL WATER BUTT DETAIL
SCALE: NTS



ON ORIGINAL
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NO CHANGES OF WHATSOEVER NATURE ARE TO BE MADE TO ANY DETAILS SET OUT OR CONTAINED IN ANY DBFL SPECIFICATIONS OR DRAWINGS UNLESS THE EXPRESS CONSENT HAS BEEN OBTAINED IN ADVANCE, IN WRITING, FROM DBFL.

NOTES:

1. RIGID PIPES SHALL MEAN CAST OR SPUN IRON, CONCRETE OR CLAY.
2. FLEXIBLE PIPES SHALL MEAN PIPES OF STEEL, PVC, OTHER PLASTIC OR DUCTILE IRON.
3. CONCRETE C20/25 TO HAVE COVER = 50mm MIN. WITH A MINIMUM CEMENT CONTENT OF 260 kg/m³, MAXIMUM W/C RATIO OF 0.65 AND SLUMP CLASS S2.
4. C25/30 CONCRETE TO HAVE A MINIMUM CEMENT CONTENT OF 280kg/m³, MAXIMUM WATER/CEMENT RATIO OF 0.65 AND SLUMP CLASS S2.
5. FOR DETAILS OF TRENCH REINSTATEMENT TO PIPES IN THE VICINITY OF BUILDINGS, WALLS & FOUNDATION, REFER TO STRUCTURAL DRAWINGS.
6. ALL PIPES WITH LESS THAN 1.2m COVER UNDER GRASSED AREAS AND FOOTPATHS TO BE SURROUNDED IN 150mm MINIMUM OF C20/25 CONCRETE.
7. LEAN-MIX BACKFILL TO TRENCHES IN EXISTING ROADS, WHERE REQUIRED BY THE LOCAL AUTHORITY TO BE GRADE C20/25 CONCRETE.
8. 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
9. WHERE ROCKS OR OTHER HARD TRENCH BOTTOM IS ENCOUNTERED, THE FIGURE DENOTED BY * IS TO BE DOUBLED.
10. 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 300mm 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.
11. 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.
12. 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.
13. TRENCH ABOVE PIPES WITH LESS THAN 750mm COVER TO BE BACKFILLED WITH C20/25 CONCRETE TO FORMATION LEVEL.
14. SURFACING TO BE IN ACCORDANCE WITH THE ROAD SPECIFICATION AND, IF APPROPRIATE, LOCAL AUTHORITY REQUIREMENTS.
15. WHERE CLASS 6F1 / 6F2 CAPPING MATERIAL IS PROPOSED WITHIN 500mm OF CONCRETE OR STEEL, CLASS 6N IS TO BE USED INSTEAD.

NOTE:
ALL WORKS & SPECIFICATIONS TO BE UNDERTAKEN IN ACCORDANCE WITH
• TII SPECIFICATION FOR ROADWORKS
• RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS

NOTE:
FOR WATERMAIN DETAILS REFER TO IRISH WATER CONNECTION AGREEMENT & IRISH WATER 'WASTEWATER INFRASTRUCTURE STANDARD DETAILS' & CODE OF PRACTICE

NOTE:
FOR DETAILS OF FOUL SEWER MANHOLES REFER TO IRISH WATER CONNECTION AGREEMENT & IRISH WATER 'WASTEWATER INFRASTRUCTURE STANDARD DETAILS' & CODE OF PRACTICE

P02	05/04/22	PLANNING SUBMISSION	MWM	VGE
P01	28/03/22	FOR PLANNING	MWM	VE
rev	date	description	by	chkd.
		A - Approved		
		B - Approved with comments		
		C - Do not use		

client approval

suitability S2 - INFORMATION issue purpose PLANNING

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project ref.

HEADFORD ROAD HOUSING, GALWAY

drawing title
SURFACE WATER STANDARD DETAILS-SHEET 3

client
GALWAY CITY COUNCIL

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