

STORMWATER DETENTION TANK
TANK VOLUME = 25,000 LITRES
STORAGE LENGTH = 5000mm
STORAGE WIDTH = 5000mm
STORAGE DEPTH = 1000mm
TANK DEPTH = 1200mm
TANK FLOOR = R.L. 39.68
PROVIDE Ø150 HIGH LEVEL OUTLET

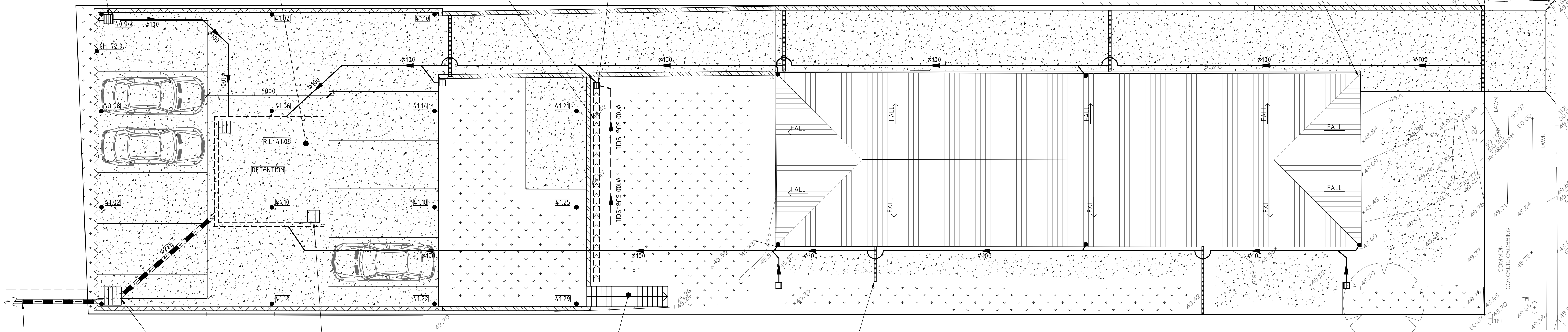
450 SQ INLET PIT
GRATE R.L. = 40.94
INVERT R.L. = 40.64

PROVIDE 300 WIDE CATCH DRAIN
TO INTERCEPT FLOWS UPSTREAM
OF PROPOSED PARKING BAY.

300 SQ. BY 300 DEEP INLET PIT
NOTE: ALL PITS TO HAVE 2.0m
LONG SUB-SOIL TAIL INLET

PROVIDE Ø100
DOWNPIPE (TYP)

150 WIDE GRATED DRAIN
ACROSS DRIVE (TYP)



Ø225 OUTLET THROUGH PROPOSED
DRAINAGE EASEMENT TO DISCHARGE
TO QUEENSLIFF ROAD

PROPOSED 900 SQ
JUNCTION PIT WITH
REMOVABLE GRATE
GRATE R.L. = 40.50
INVERT R.L. = 39.30

600 SQ REMOVABLE ACCESS
GRATE EACH CORNER (TYP)

INDICATIVE POSITION OF PROPOSED STAIRS
TO ALLOW FOR PEDESTRIAN ACCESS
BETWEEN DWELLING AND PARKING BAY.

100 WIDE GRATED
DRAIN (TYP)

NOTE: PLUMBER TO PERFORM WATER TESTING OF EXISTING
PIPED SYSTEM TO DETERMINE CAPACITY AND STATE OF
REPAIR. PLUMBER TO INSPECT & REPAIR DAMAGED SECTIONS
OF EXISTING PIPE (INCLUDING DOWNPIPES) AS NECESSARY OR
PROVIDE NEW DRAINAGE LINES WHERE NECESSARY SUBJECT
TO THE APPROVAL BY THE SUPERVISING ENGINEER.

NOTE: CHECK & LOCATE DEPTH OF
EXISTING MAINS & SERVICES PRIOR
TO CONSTRUCTION OF STORMWATER
SYSTEM AS VARIATIONS IN POSITION
OF MAINS COULD AFFECT DRAINAGE
CONSTRUCTION DETAILS

DRAINAGE NOTES

- + DENOTES EXISTING GROUND LEVEL
- FALL STORMWATER PIPES AT 1% MIN. UNLESS OTHERWISE NOTED.
- SUB-SOIL DRAINAGE TO BE CONNECTED TO THE SITE DRAINAGE SYSTEM AS NECESSARY.
- SURFACE GRATES 300 SQ. UNLESS OTHERWISE NOTED.
- ALL STORMWATER PIPES TO HAVE SOLVENT CEMENT WATERTIGHT JOINTS.
- CHECK & LOCATE DEPTH OF EXISTING MAINS & SERVICES PRIOR TO CONSTRUCTION OF STORMWATER SYSTEM AS VARIATIONS IN POSITION OF MAINS COULD AFFECT DRAINAGE CONSTRUCTION DETAILS.
- INSPECTIONS MUST BE UNDERTAKEN BY THIS OFFICE (BY PRIOR ARRANGEMENT WITH ENGINEER) DURING CONSTRUCTION TO ENABLE FULL CERTIFICATION UPON COMPLETION OF WORKS.
- ALL CONSTRUCTION OF COUNCIL DRAINAGE WORKS TO COMPLY WITH COUNCIL STANDARD.
- REMOVE REDUNDANT DRAINAGE PITS AND SEAL PIPES.
- PIT BENCHING TO BE HALF THE OUTGOING PIPE DIAMETER. CONCRETE FOR BENCHING TO BE 20 MPa MASS CONCRETE.
- APPROVED PRE-CAST PITS MAY BE USED.
- ALL PIPES TO BE LAID ON COMPACTED FINE CRUSHED ROCK OR SAND BEDDING 75mm THICK & PIPES BACKFILLED WITH COMPACTED SAND TO 300mm ABOVE TOP OF PIPE, ELSE ATTACHED TO UNDERSIDE OF STRUCTURE AT 600mm c/c AS NECESSARY
- PIPE ROUTES SHOWN ARE INDICATIVE ONLY AND SHOULD BE AS NECESSARY ACCORDING TO SITE CONDITIONS. TREE POSITIONS ETC. CONFIRM SIGNIFICANT CHANGES IN PIPES SYSTEM DETAILS WITH SUPERVISING ENGINEER PRIOR TO COMMENCEMENT OF DRAINAGE CONSTRUCTION WORKS.
- CONTRACTOR SHALL ENSURE THAT SERVICES TO BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED. CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS WHERE REQUIRED. ONCE WORKS ARE COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL TEMPORARY SERVICES AND MAKE GOOD ALL DISTURBED AREAS.
- STORMWATER SYSTEM REQUIRES SIGNIFICANT MAINTENANCE DUE TO POTENTIAL HIGH POLLUTANT LOAD. FILTERS AND POLLUTANT TRAPS SHOULD BE CHECKED AFTER LARGE STORM EVENTS AND CLEANED EVERY 6 MONTHS.
- PLUMBING AND DRAINAGE WORKS TO COMPLY WITH AS-3500, THE NATIONAL DRAINAGE & PLUMBING CODE.
- WHERE POSSIBLE DRAINAGE LINES SHALL BE LAID IN AREAS PREVIOUSLY DISTURBED BY OTHER SITE WORKS AND FOLLOW TOPOGRAPHICAL FEATURES TO REDUCE IMPACT AND AVOID TREE ROOTS
- THIS STORMWATER MANAGEMENT PLAN HAS BEEN PREPARED FOR D.A. SUBMISSION TO COUNCIL AND DOES NOT NECESSARILY CONTAIN ALL APPROPRIATE INFORMATION TO ENABLE FOR ISSUE TO PLUMBER/BUILDER FOR CONSTRUCTION. CONTACT TAYLOR CONSULTING FOR MORE INFORMATION.

STORMWATER SYSTEM DESIGN DATA

SITE DATA

SITE AREA = 1052 m² (100%)
EXISTING IMPERVIOUS AREA = 715 m² (68%)
PROPOSED IMPERVIOUS AREA = 808 m² (77%)

OSD SYSTEM DESIGN DATA

SITE DATA

SITE AREA = 1052 m²
MODELLED IMPERVIOUS AREA = 808 m²

EXISTING SITE FLOWS

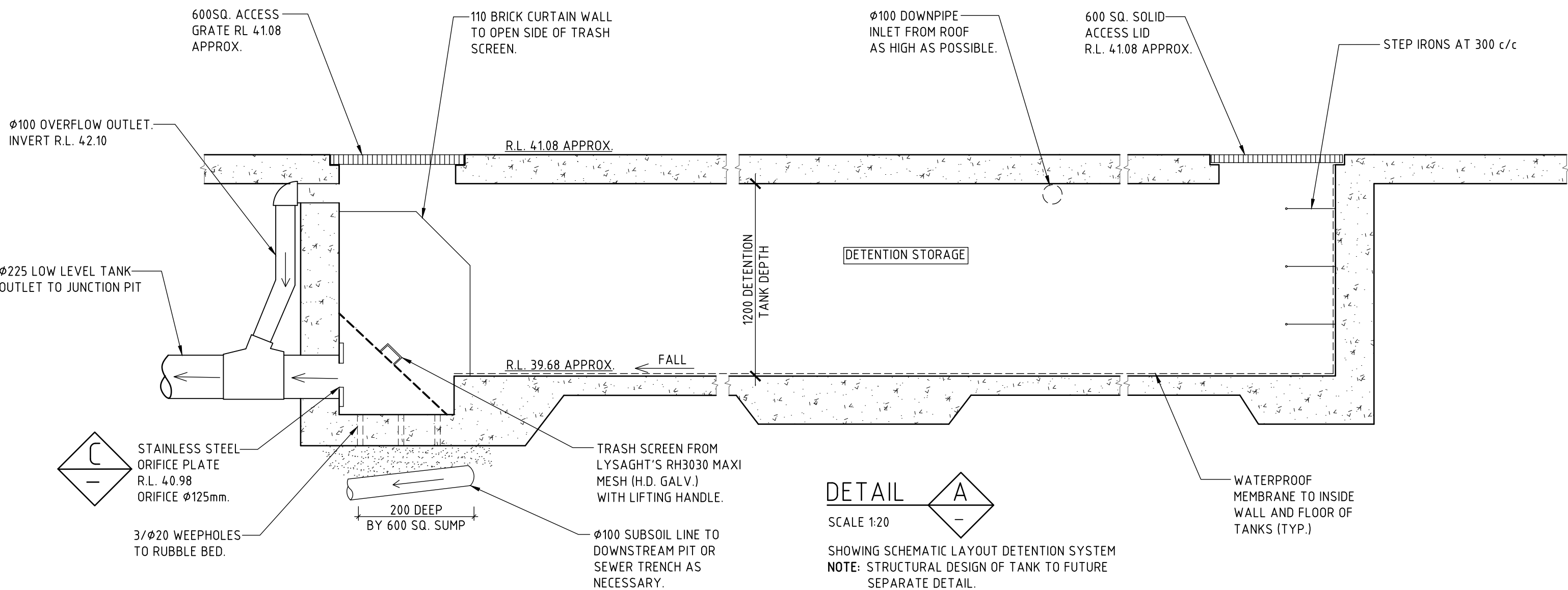
5 YR ARI = 31 l/s
100 YR ARI = 58 l/s

DEVELOPED SITE FLOWS

5 YR ARI = 22 l/s
100 YR ARI = 31 l/s

DETENTION SYSTEM DATA

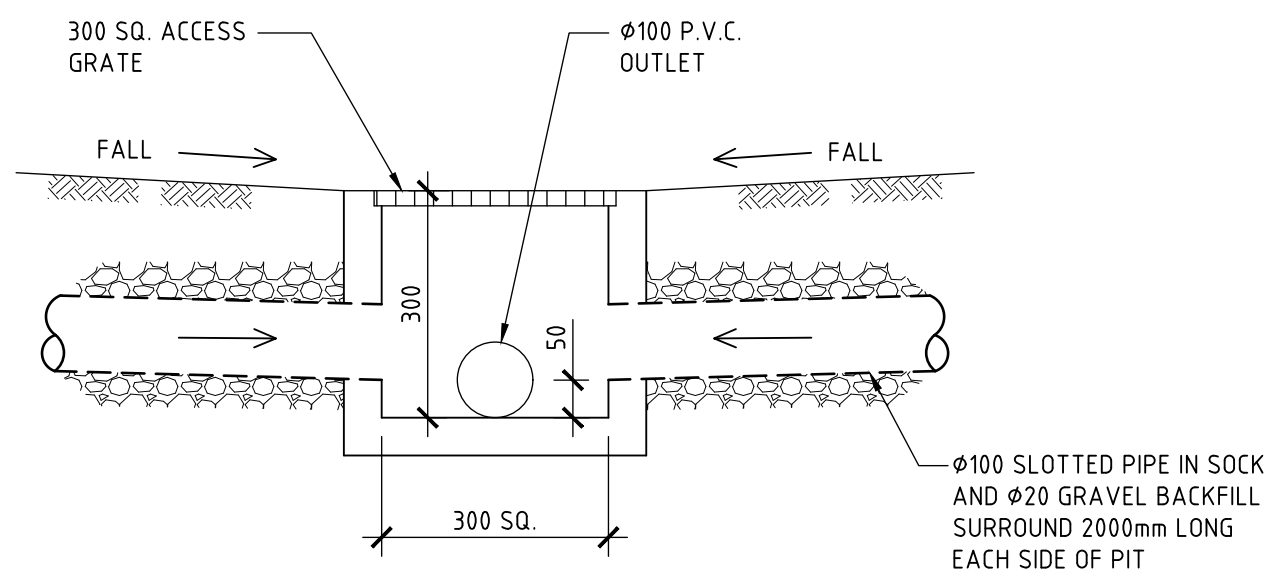
AREA DRAINING TO THE TANK = 1052 m²
ORIFICE DIAM = 125 mm
SSR = 25.00 m



DETAIL A

SCALE 1:20

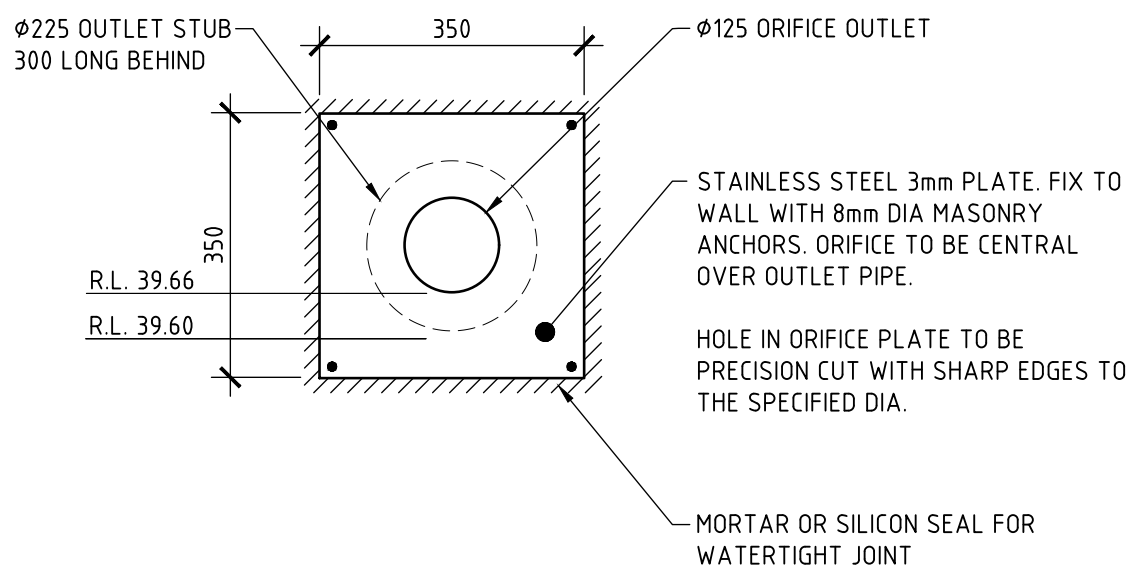
SHOWING SCHEMATIC LAYOUT DETENTION SYSTEM
NOTE: STRUCTURAL DESIGN OF TANK TO FUTURE
SEPARATE DETAIL.



DETAIL B

SCALE 1:10

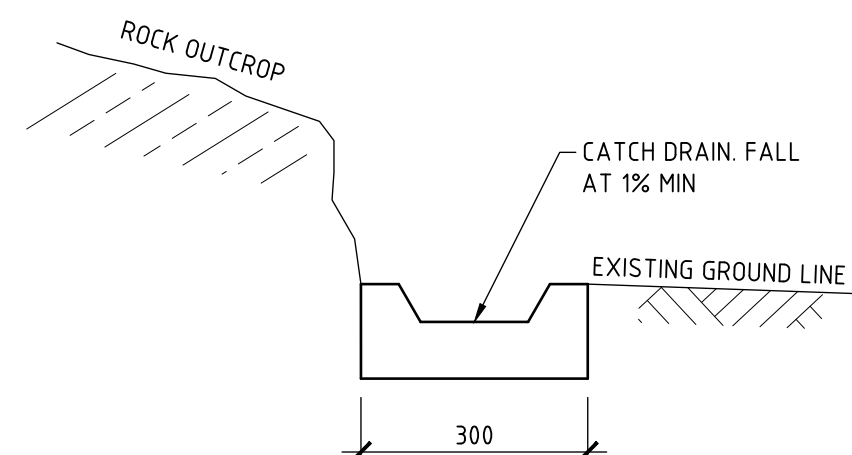
TYPICAL SURFACE INLET PIT DETAIL



DETAIL C

SCALE 1:10

ORIFICE PLATE DETAIL



DETAIL D

SCALE 1:10

ISSUE DATE	REVISION
10 AUGUST 2021	STORMWATER MANAGEMENT PLAN FOR DA SUBMISSION ONLY
15 OCTOBER 2021	STORMWATER MANAGEMENT PLAN FOR DA SUBMISSION ONLY
15 NOVEMBER 2021	STORMWATER MANAGEMENT PLAN FOR DA SUBMISSION ONLY

TITLE			
STORMWATER MANAGEMENT PLAN 40 CROWN ROAD, QUEENSLIFF			
DRAWN	DATE	CHECKED	SCALE
RDCB	2 AUGUST 2021	BE Civil (Hons) MIE Aust.	1:100 1:20 1:10

STORMWATER SYSTEM DESIGN DATA

SITE DATA

SITE AREA = 1052 m² (100%)
PROPOSED IMPERVIOUS AREA = 808 m² (77%)
PROPOSED LANDSCAPED AREA = 244 m² (23%)
EXISTING IMPERVIOUS AREA = 715 m² (68%)
EXISTING LANDSCAPED AREA = 337 m² (32%)

TAYLOR
CONSULTING
CIVIL & STRUCTURAL ENGINEERS

REVISION
SHEET -4/A