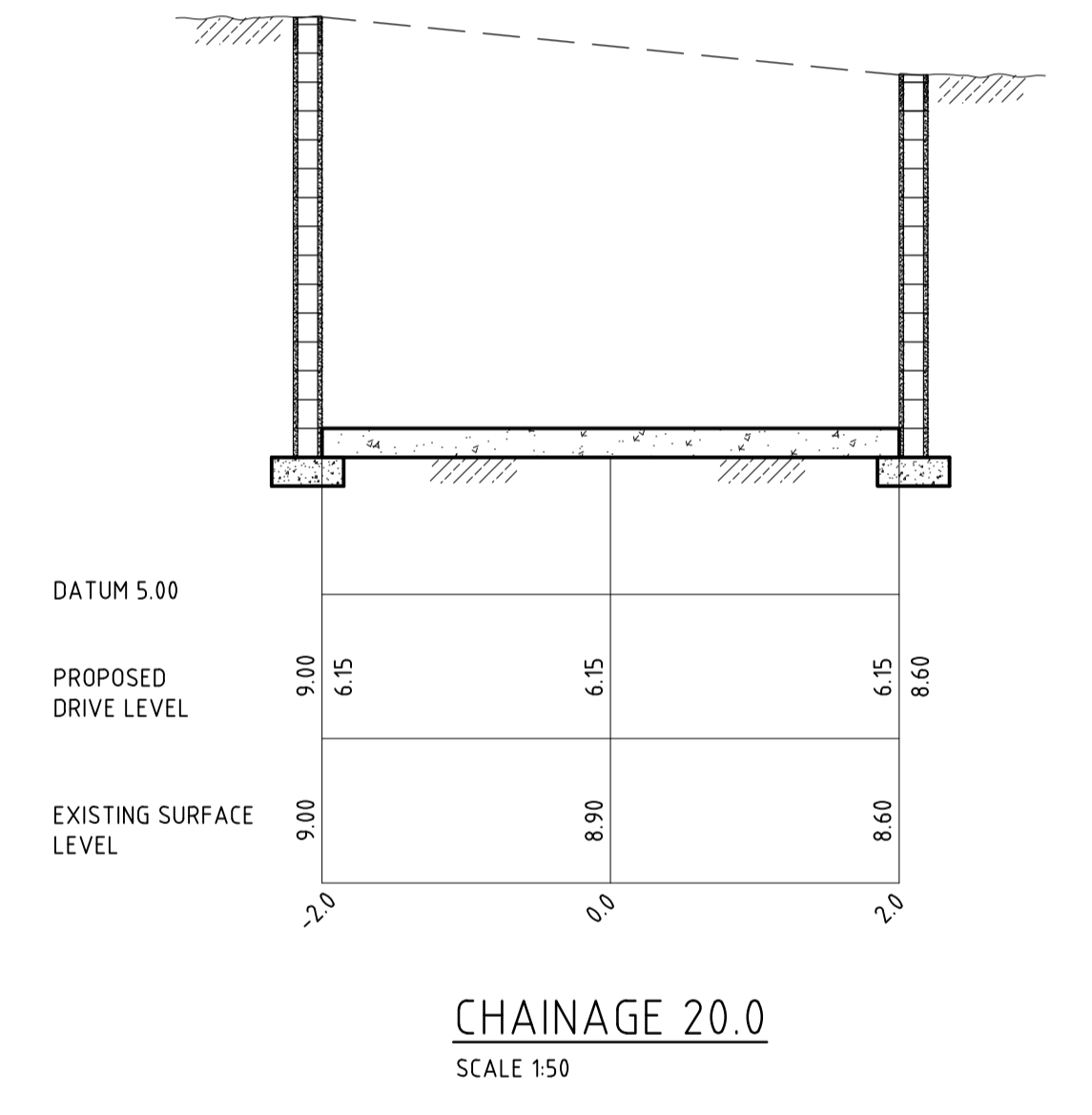
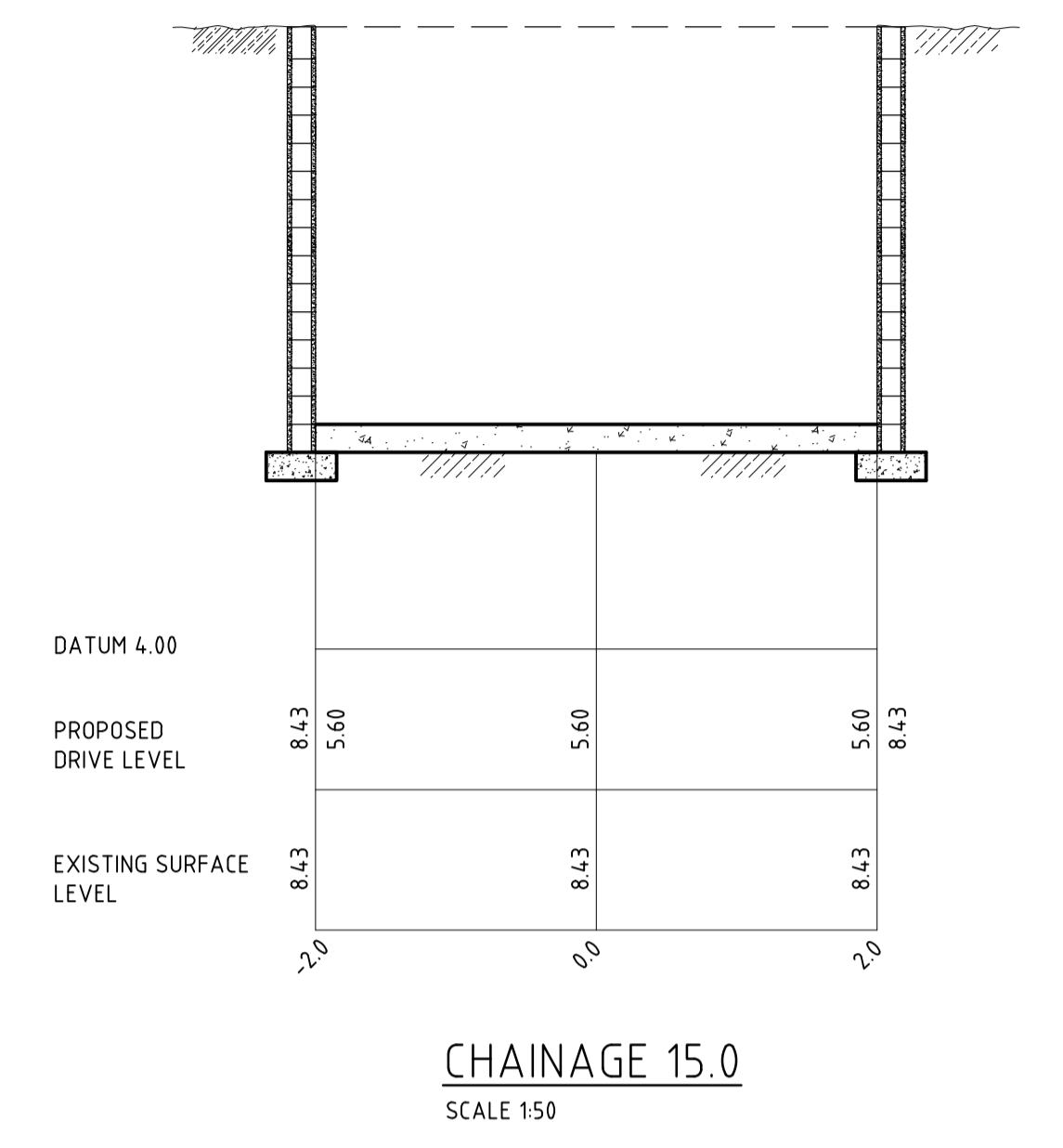
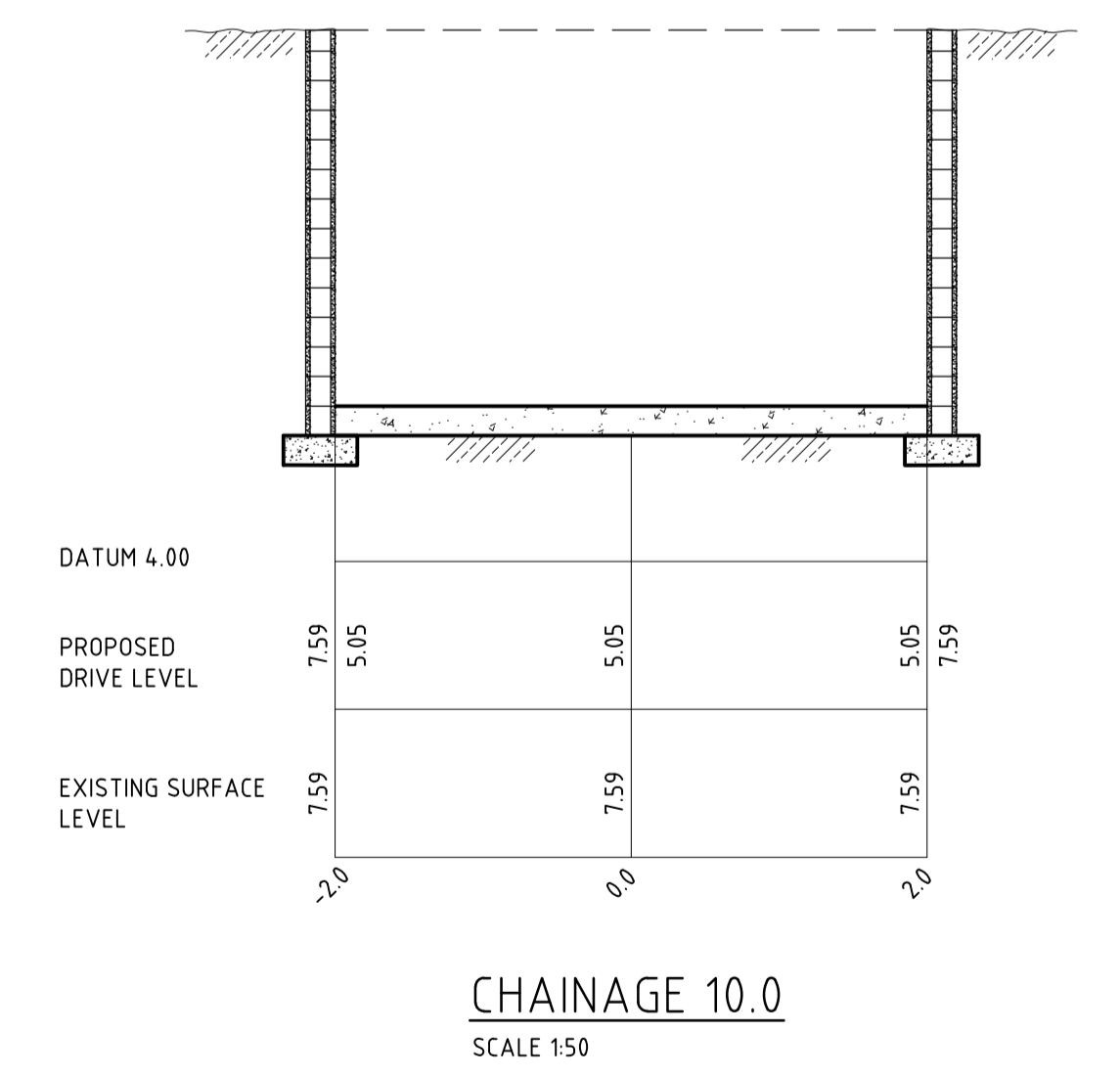
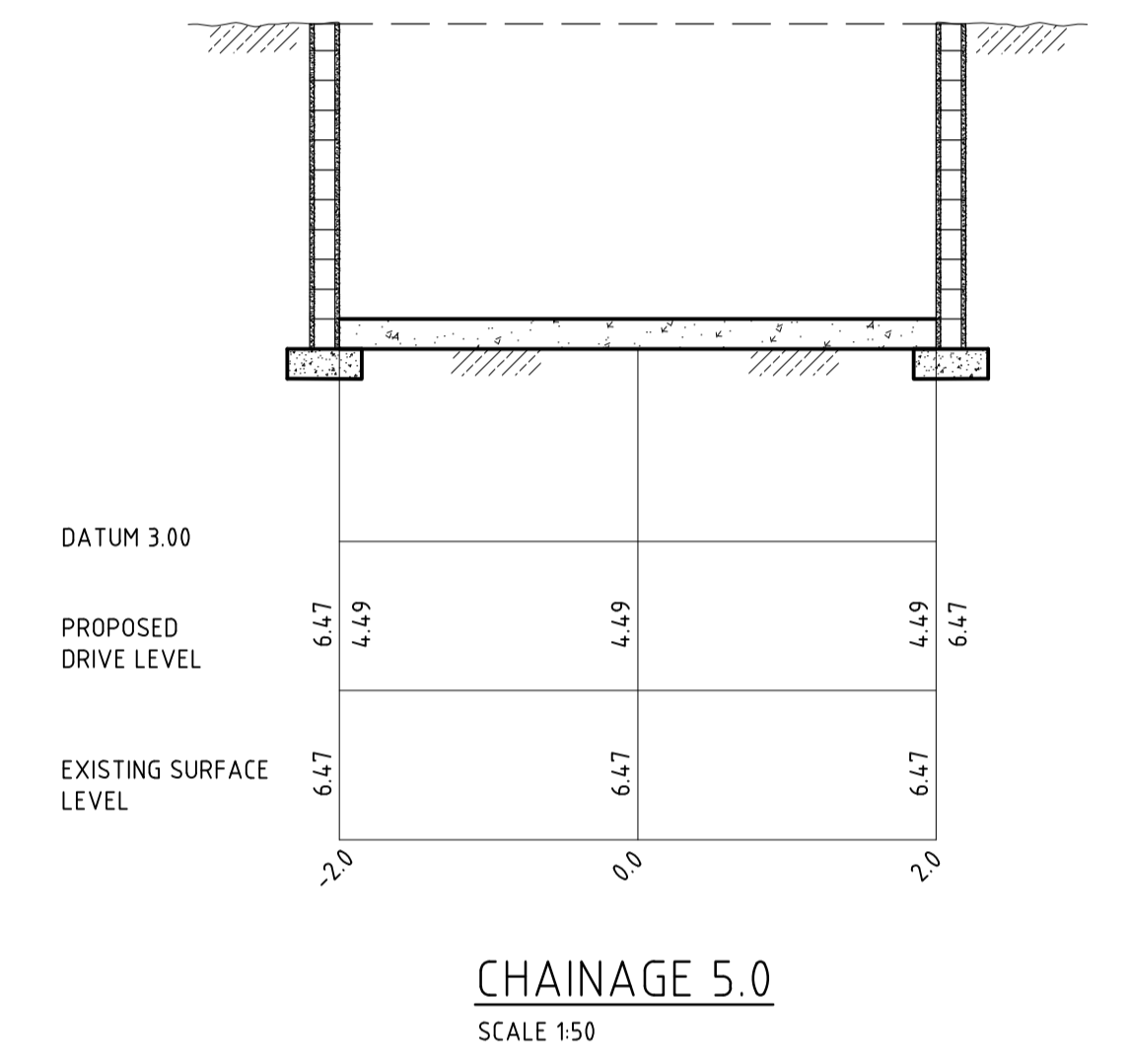
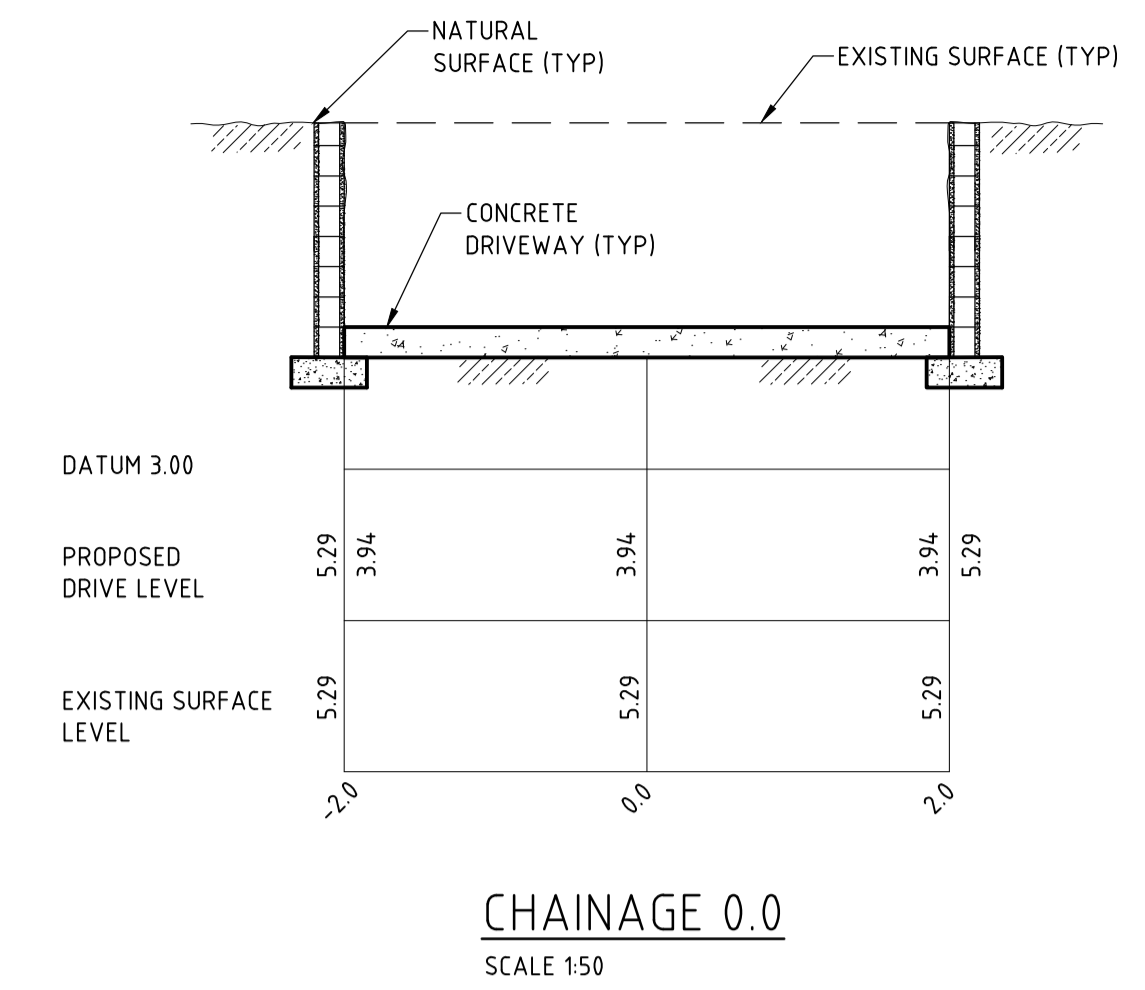
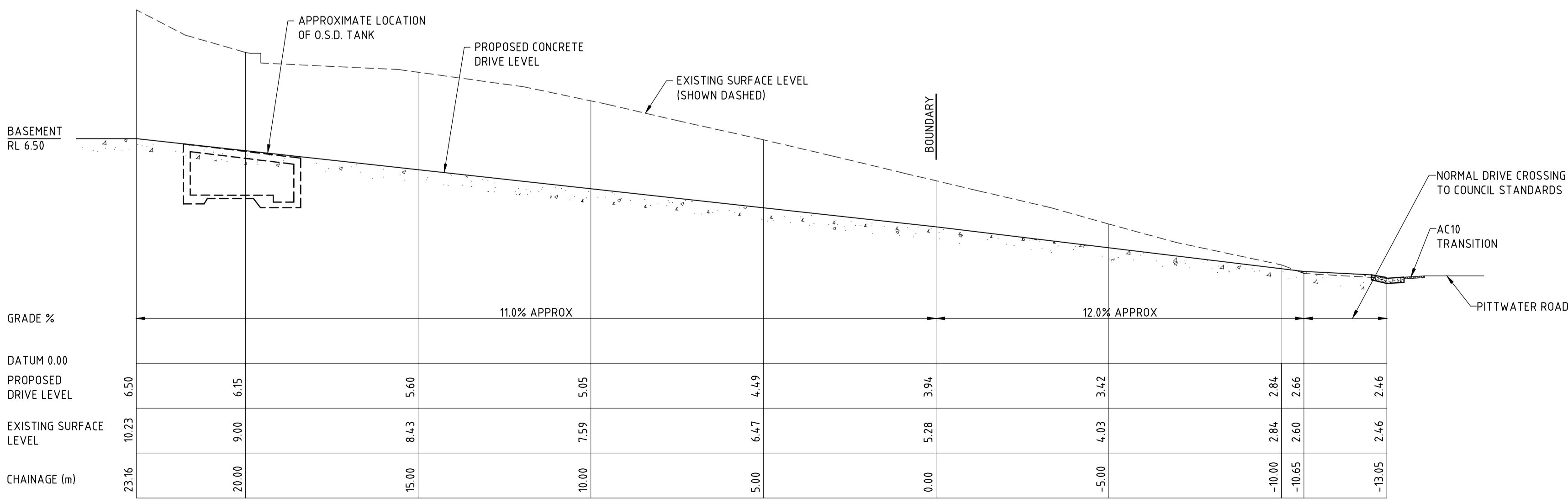


PITTWATER ROAD

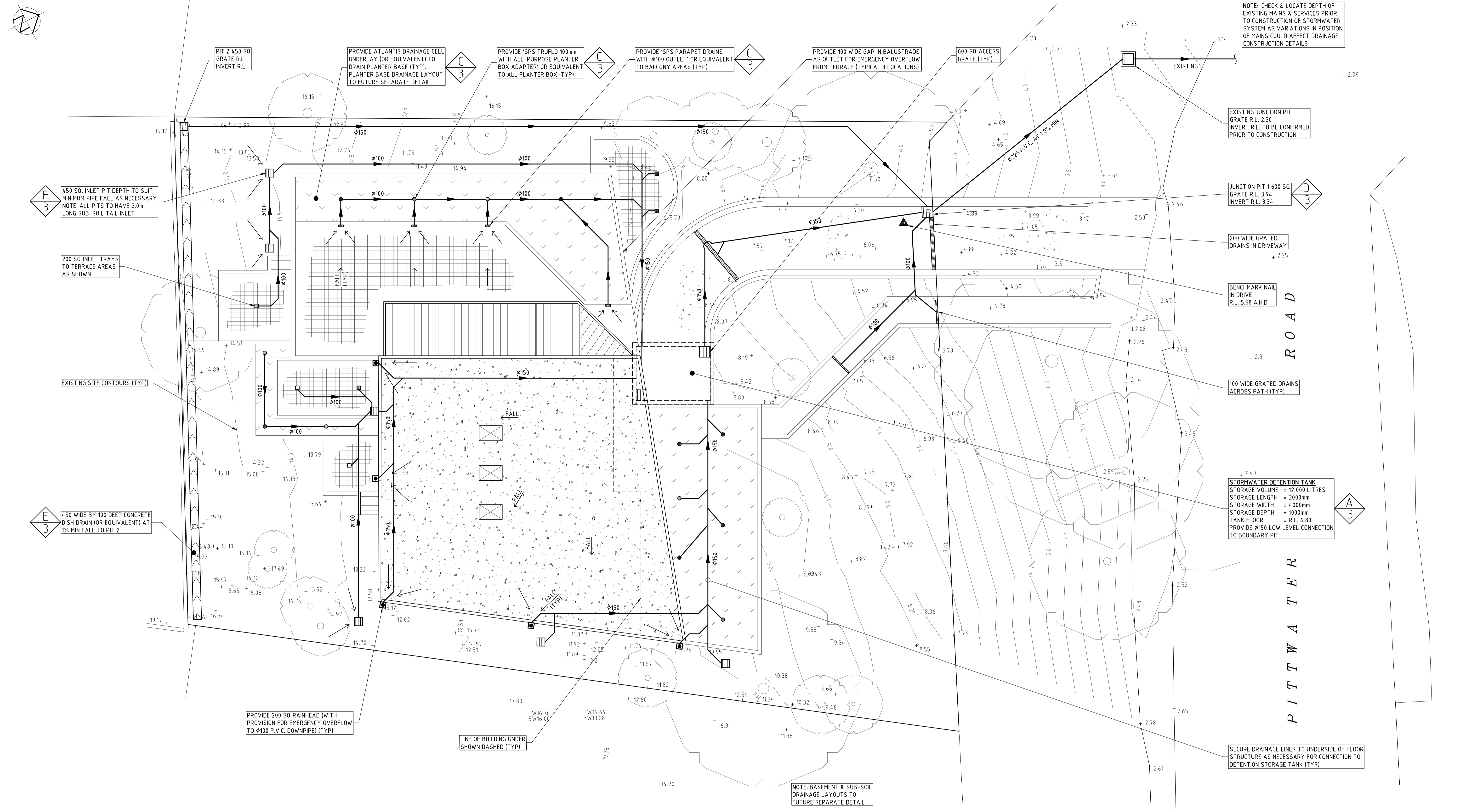


ISSUE DATE	REVISION

TITLE <b>DRIVEWAY PLAN AND DETAILS</b> 1955 PITTWATER ROAD, BAYVIEW			
DRAWN AWW	DATE 30 JANUARY 2019	CHECKED <i>[Signature]</i>	SCALE @ A1 1:100 1:50
<small>BE Civil (Hons) MIE Aust.</small>			

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DRAWING NO. SHEET -1



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

EXISTING JUNCTION PIT  
GRATE R.L. 2.30  
INVERT R.L. TO BE CONFIRMED  
PRIOR TO CONSTRUCTION

JUNCTION PIT 1600 SQ  
GRATE R.L. 3.94  
INVERT R.L. 3.34

200 WIDE GRATED  
DRAINS IN DRIVEWAY

BENCHMARK NAIL  
IN DRIVE  
R.L. 5.68 A.H.D.

100 WIDE GRATED DRAINS  
ACROSS PATH (TYP)

STORMWATER DETENTION TANK  
STORAGE VOLUME = 12,000 LITRES  
STORAGE LENGTH = 3000mm  
STORAGE WIDTH = 4000mm  
STORAGE DEPTH = 1000mm  
TANK FLOOR = R.L. 4.80  
PROVIDE Ø150 LOW LEVEL CONNECTION  
TO BOUNDARY PIT

SECURE DRAINAGE LINES TO UNDERSIDE OF FLOOR  
STRUCTURE AS NECESSARY FOR CONNECTION TO  
DETENTION STORAGE TANK (TYP)

**SITE DRAINAGE PLAN**  
SCALE 1:100

- 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 450 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 400mm 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.
- OSQ SYSTEM DESIGN DATA**
- SITE DATA**
- SITE AREA = 1296.57 m<sup>2</sup>  
DEVELOPED IMPERVIOUS AREA = 542.80 m<sup>2</sup> (41.86%)
- PERMISSIBLE SITE DISCHARGES (STATE-OF-NATURE)**
- 5 YR ARI = 36 l/s  
100 YR ARI = 77 l/s
- DEVELOPED SITE FLOWS**
- 5 YR ARI = 29 l/s  
100 YR ARI = 51 l/s
- DETENTION SYSTEM DATA**
- AREA DRAINING TO THE DETENTION TANK = 74.8 m<sup>2</sup>  
PROPOSED 100YR T.W.L. = R.L. 5.60  
SSR = 12.0 m<sup>3</sup>  
ORIFICE DIAM = 120 mm

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DRAWN MDB	DATE 30 JANUARY 2019	CHECKED <i>[Signature]</i> BE Civil (Hons) MIE Aust.	SCALE @ A1 1:100

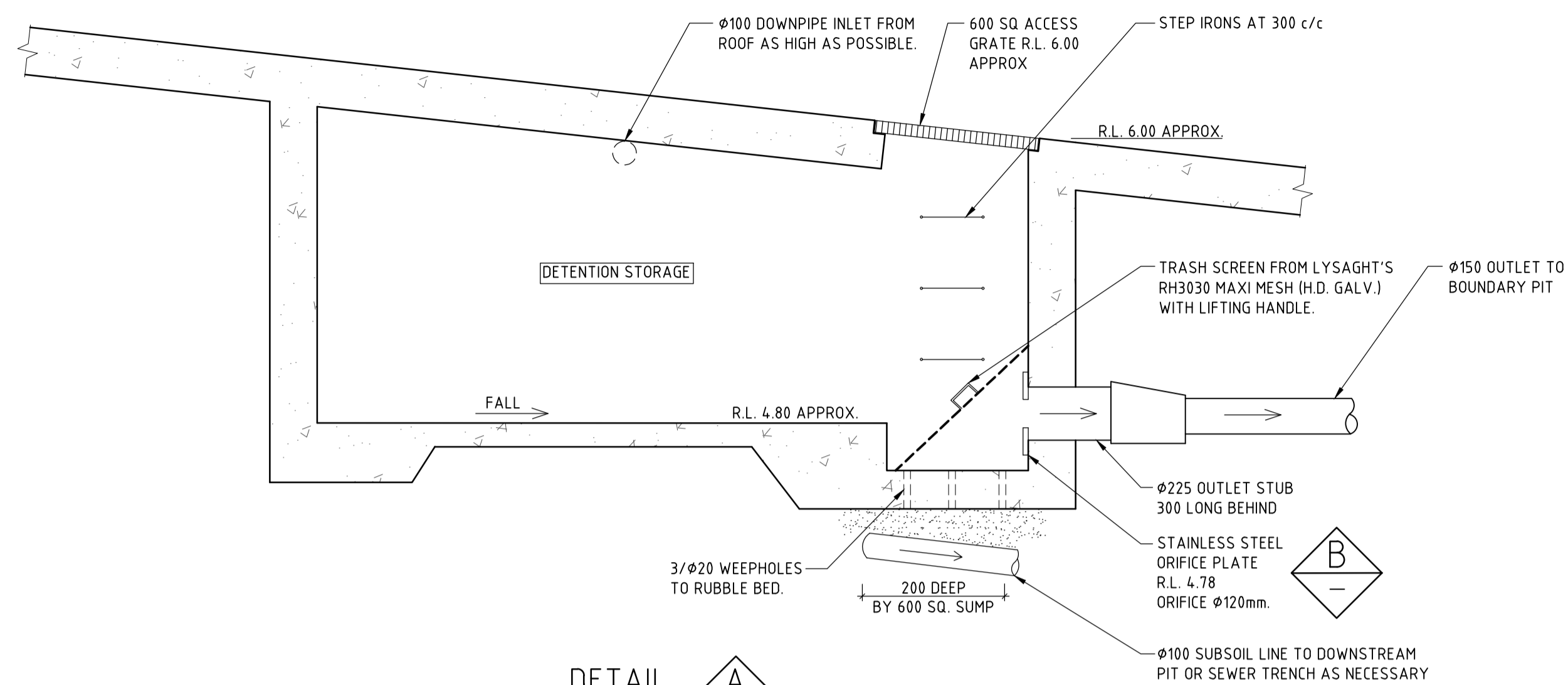
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**SHEET - 2**

**STORMWATER SYSTEM DESIGN DATA**

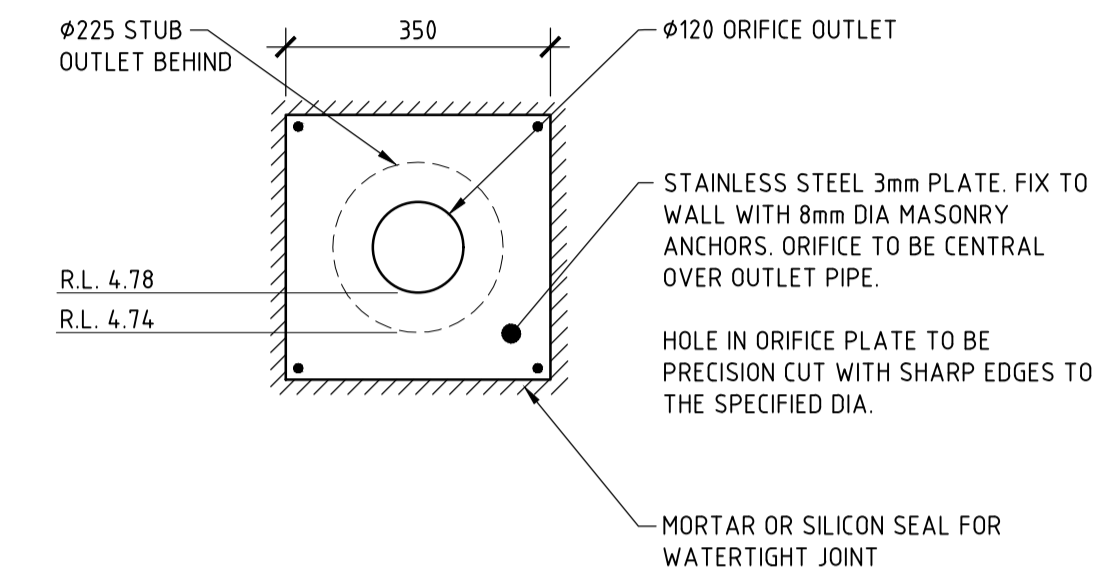
**SITE DATA**

SITE AREA = 1296.57 m<sup>2</sup> (100%)  
PROPOSED IMPERVIOUS AREA = 542.80 m<sup>2</sup> (41.86%)  
PROPOSED LANDSCAPED AREA = 753.77 m<sup>2</sup> (58.14%)  
EXISTING IMPERVIOUS AREA = 485.54 m<sup>2</sup> (37.45%)  
EXISTING LANDSCAPED AREA = 811.03 m<sup>2</sup> (62.55%)



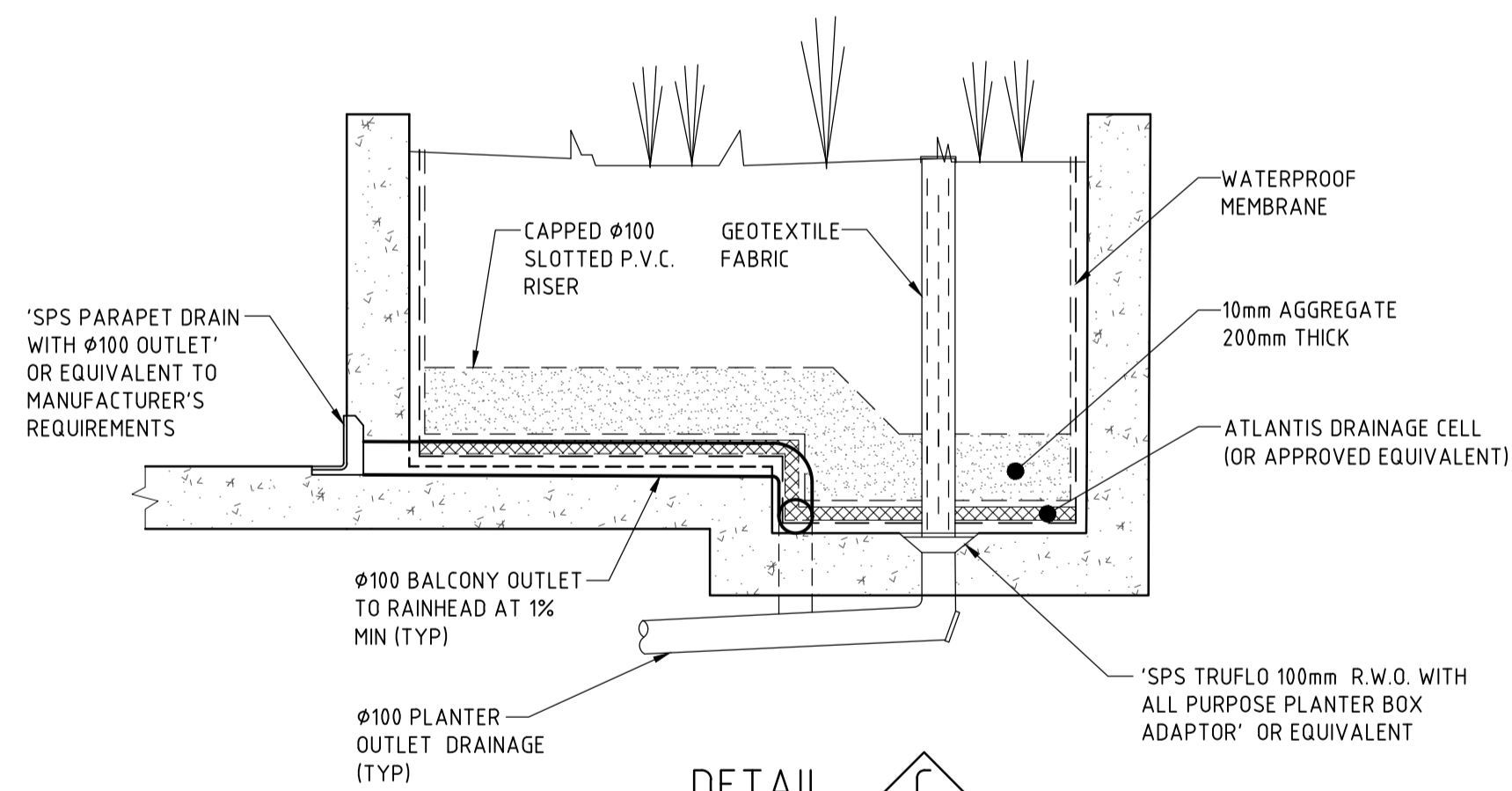
**DETAIL A**  
 SCALE 1:20

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



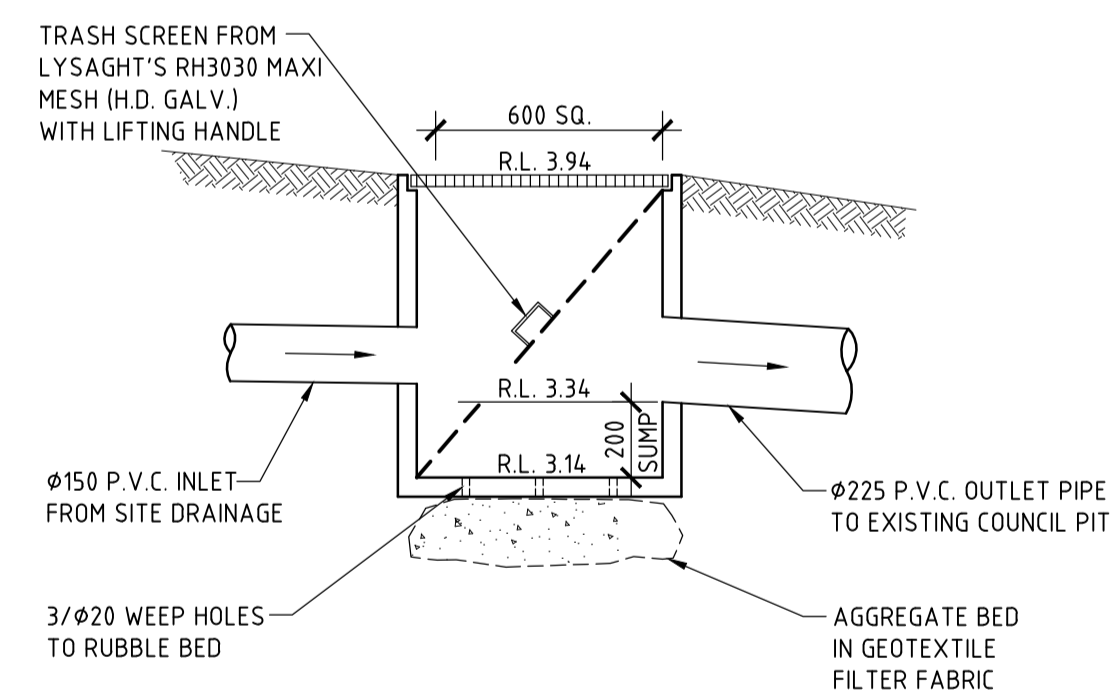
**DETAIL B**  
 SCALE 1:10

ORIFICE PLATE DETAIL



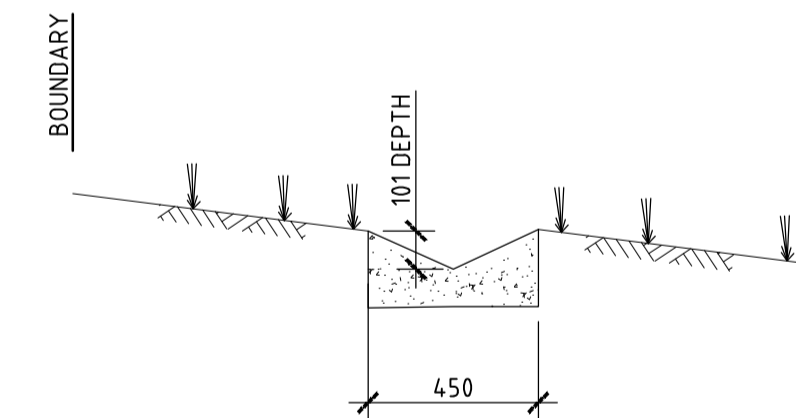
**DETAIL C**  
 SCALE 1:20

SHOWING TYPICAL PLANTER BOX DETAIL



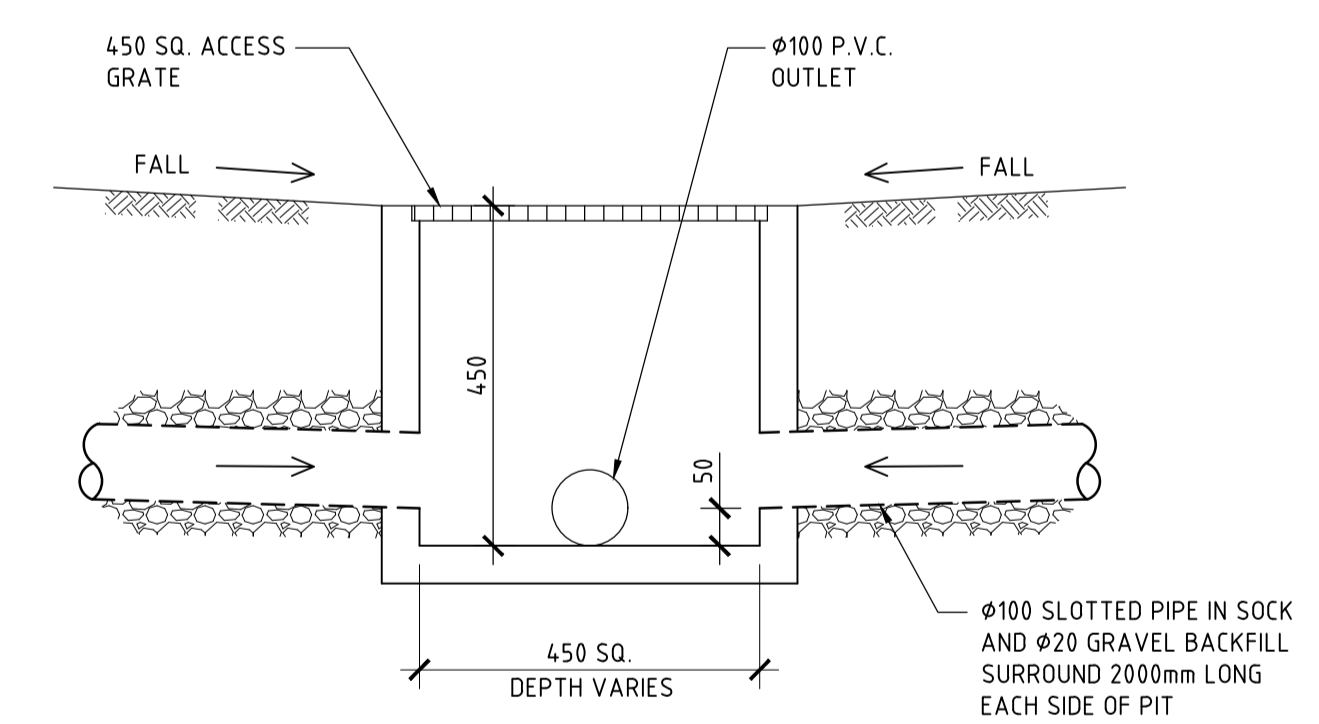
**DETAIL D**  
 SCALE 1:20

TYPICAL POLLUTION CONTROL PIT DETAIL



**DETAIL E**  
 SCALE 1:20

TYPICAL CONCRETE LINED DISH DRAIN DETAIL (OR EQUIVALENT) ¼% MIN. FALL TO PIT 2



**DETAIL F**  
 SCALE 1:10

TYPICAL SURFACE INLET PIT DETAIL

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<b>DRAWN</b> MDB	<b>DATE</b> 30 JANUARY 2019	<b>CHECKED</b>  BE Civil (Hons) MIE Aust.	<b>SCALE @ A1</b> 1:100 1:20 1:10

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**SHEET -3**