

DRAINAGE NOTES

- D1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THESE PLANS AND THE RELEVANT AUTHORITY STANDARD DRAWINGS AND SPECIFICATIONS AND TO A STANDARD OF WORKMANSHIP APPROVED BY THAT AUTHORITY AND TO COMPLY WITH AS 3500.3 NATIONAL PLUMBING & DRAINAGE CODE, PART 3 & 5 - STORMWATER DRAINAGE.
- D2. THE CONTRACTOR SHALL PRIOR TO CONSTRUCTING ANY TRENCHES GREATER THAN 1.5M IN DEPTH NOTIFY IN WRITING TO THE RELEVANT AUTHORITY IN ACCORDANCE WITH THE PROVISIONS OF THE MINES ACT 1958 SECTION 385. A QUALIFIED PERSON MUST BE IN ATTENDANCE AT ALL TIMES DURING SUCH EXCAVATIONS.
- D3. ALL INFORMATION PROVIDED ON THESE DRAWINGS IS DIAGRAMMATIC AND INDICATIVE ONLY. THE CONTRACTOR SHALL REFER TO THE ARCHITECTS DRAWINGS FOR ALL DIMENSIONS.
- D4. THE CONTRACTOR SHALL VERIFY ALL LEVELS, DIMENSIONS AND THE LOCATION OF ALL EXISTING SERVICES ON THE SITE PRIOR TO ANY CONSTRUCTION WORKS COMMENCING. SHOULD ANY INCONSISTENCY OR DISCREPANCY OCCUR ON THESE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RESULT IN THE CONTRACTOR RECTIFYING THE WORKS AT THEIR COST.
- D5. ALL PITS ARE TO BE CONSTRUCTED TO THE STANDARDS OF THE RESPONSIBLE AUTHORITY. STEP IRONS TO BE INSTALLED AT 300MM C/C FOR PITS DEEPER THAN 1M
- D6. ALL WORKS ARE TO BE CARRIED OUT TO THE REQUIREMENTS OF THE RESPONSIBLE AUTHORITY.
- D7. ALL LEVELS AND DIMENSIONS ARE TO BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES ARE TO BE REFERRED TO THIS OFFICE FOR DECISION.
- D8. THE CONTRACTOR IS TO CONTACT ALL THE RELEVANT AUTHORITIES 48 HOURS PRIOR TO ANY EXCAVATION WORKS IN THE VICINITY OF THESE SERVICES.
- D9. ALL LEVELS ARE TO ARBITRARY DATUM ONLY
- D10. COVER TO PIPES WITHIN EASEMENT ARE DETERMINED BY INVERT LEVELS INDICATED ON PLANS. ALL UPVC PIPES TO HAVE 300MM MIN COVER WITHIN PROPERTY.
- D11. MINIMUM FALL TO 100 & 150 DIA. S.W.D.P'S TO BE 1 IN 100.
- D12. PROVIDE 100ø S.W.D.P FOR RESIDENTIAL, 150ø FOR COMMERCIAL/INDUSTRIAL. WHERE NO SIZE IS SPECIFIED FROM DOWNPIPES, WHERE NO SIZE IS SPECIFIED FROM DOWNPIPES, WITH INSPECTION OPENINGS INSPECTION OPENINGS TO BE PROVIDED ALONG MAIN LINE OF DRAIN AND AT CHANGE OF DIRECTION OF THE DRAIN FOR TESTING PURPOSES.
- D13. ALL DRAINAGE PIPES UNDER PAVEMENT AND WITHIN EASEMENTS TO BE UPVC SEWER QUALITY PIPES. U.N.O.
- D14. PROVIDE 90MM AGG. DRAINS TO BASE OF ALL CUTS CONNECTED TO STORMWATER VIA A SILT PIT.
- D15. UPVC - PIPEWORK TO BE 'SEWER QUALITY'. UPVC SOLVENT WELD JOINTED.  
RC - PIPEWORK TO BE CLASS 2 REINFORCED CONCRETE, RUBBER RING JOINTED  
FRC - PIPEWORK TO BE CLASS 2 FIBRE REINFORCED CEMENT, RUBBER RING JOINTED  
RIBLOC PE - PIPEWORK TO BE 'RIBLOC' SERIES 2000 POLYETHYLENE PIPE WITH WOUND STEEL STRIP, RUBBER RING JOINTED. SPECIFICATIONS & INSTALLATION TO BE TO MANUFACTURER'S REQUIREMENTS.
- D16. EXCAVATIONS FOR STOMWATER PIPES SHOULD NOT UNDERMINE EXISTING TREES IF EXCAVATIONS ARE IN TREE ROOT VICINITY DRILLING CONSTRUCTION METHODS SHOULD BE ADOPTED
- D17. GRATED SURFACE DRAINS TO BE PROVIDED WHERE LANDSCAPING PREVENTS RUN OFF SURFACE WATER.
- D18. BACKFILLING OF TRENCHES  
A) ALL PIPES BEDDED AND HAUNCHED AND COVERED WITH 75MM OF PACKING SAND OR WITH A MATERIAL APPROVED BY THE DRAINAGE INSPECTOR  
B) TRENCHES UNDER FOOTPATHS OR DRIVEWAYS MUST BE BACKFILLED WITH PACKING SAND. SATURATED TO THE SATISFACTION OF THE BUILDING SURVEYOR. TO PROVIDE COMPACTION CRUSHED ROCK MAY BE USED IF COMPACTION IN 150MM LAYERS TO COUNCILS SPECIFICATIONS.  
C) ALL OTHER TRENCHES SHALL BE BACKFILLED WITH A MATERIAL APPROVED BY THE BUILDING SURVEYOR.
- D19. CARE MUST BE TAKEN WHEN BREAKING INTO COUNCIL DRAINS, KERBS AND CHANNELS AND FOOTPATHS AND IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE ARE REINSTATED TO THE SATISFACTION OF THE COUNCIL . ALL REQUIRED PERMITS MUST BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS.
- D20. THE CONTRACTOR IS TO ARRANGE ALL SERVICES IN THE VICINITY OF THE WORKS TO BE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF EXCAVATION AND ALL EXCAVATION AROUND THESE SERVICES ARE TO BE EXCAVATED BY HAND AND NOT MACHINERY.
- D21. ALL DISTURBED AREAS TO BE COVERED WITH 100MM TOP SOIL AND SEEDED WITH GRASS AS DIRECTED.
- D22. NO TOPSOIL IS TO BE REMOVED FROM THE SITE.
- D23. PRIOR TO PLACEMENT OF ANY PAVEMENT MATERIAL, THE CONTRACTOR SHALL PROOF THE SUBGRADE
- D24. ALL VEHICLES CROSSING TO COMPLY WITH RELEVANT AUTHORITY SPECIFICATIONS
- D25. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. NO RESPONSIBILITY WILL BE TAKEN FOR INCORRECT OR MISLEADING INFORMATION PROVIDED BY THE CLIENT OR PERSONS ACTING ON THE CLIENT'S BEHALF FOR THE PURPOSES OF ENGINEERING DESIGN & DRAWING SPECIFICATIONS IF THESE DRAWINGS ARE USED TO OBTAIN A BUILDING PERMIT, IT IS CONSIDERED TO BE AN ACCEPTANCE BY THE CLIENT OF ALL DRAWING SPECIFICATIONS AND DETAIL AS WELL AS ALL TERMS AND CONDITIONS.
- D26. ALL SURFACES SHALL DRAIN IN THE DIRECTION SHOWN ON THE DRAWINGS. ALL SURFACES TO BE GRADED EVENLY BETWEEN SPOT LEVELS SHOWN. TAKING CARE TO MATCH ADJACENT SURFACES AND MINIMUM DEPTHS BELOW BUILDING F.F.L AS SHOWN. MINIMUM GRADES FOR SURFACE TYPES: CONCRETE OR MASONRY PAVEMENTS - 1:80, LAWNS - 1:50, GARDEN BEDS - 1:25
- D27. THESE DRAWINGS REMAIN THE PROPERTY OF SHANING AUSTRALIA PTY LTD UNTIL PAYMENT IN FULL OF ALL FEES OWED INCLUDING FUTURE WORK AND OR VARIATIONS RELATING TO THESE SERVICES PROVIDED FOR THIS PROPERTY ADDRESS.  
BUILDER/CLIENT MUST CONTACT THIS OFFICE PRIOR TO COMMENCEMENT OF CONSTRUCTION WITH ANY QUERIES OR CLARIFICATIONS OF THIS DOCUMENTATION. SHANING AUSTRALIA P/L WILL NOT TAKE RESPONSIBILITY FOR RECTIFICATION COSTS ARISING FROM MISINTERPRETATION OF THE DOCUMENTATION ISSUED. WHEN IN DOUBT, ASK

Denotes Existing Reduced Level

Denotes New Reduced Level

Denotes Downpipe

Denotes Existing Downpipe

Denotes Downpipe Spreader

Denotes Direction of pavement fall (MIN 1:40)

Denotes Inspection Opening

Denotes Grated Inlet

Denotes Drainage Pit No.

Denotes Existing Drainage Pit

Denotes Articulation Drain fall (MIN 1:200)

INVERT

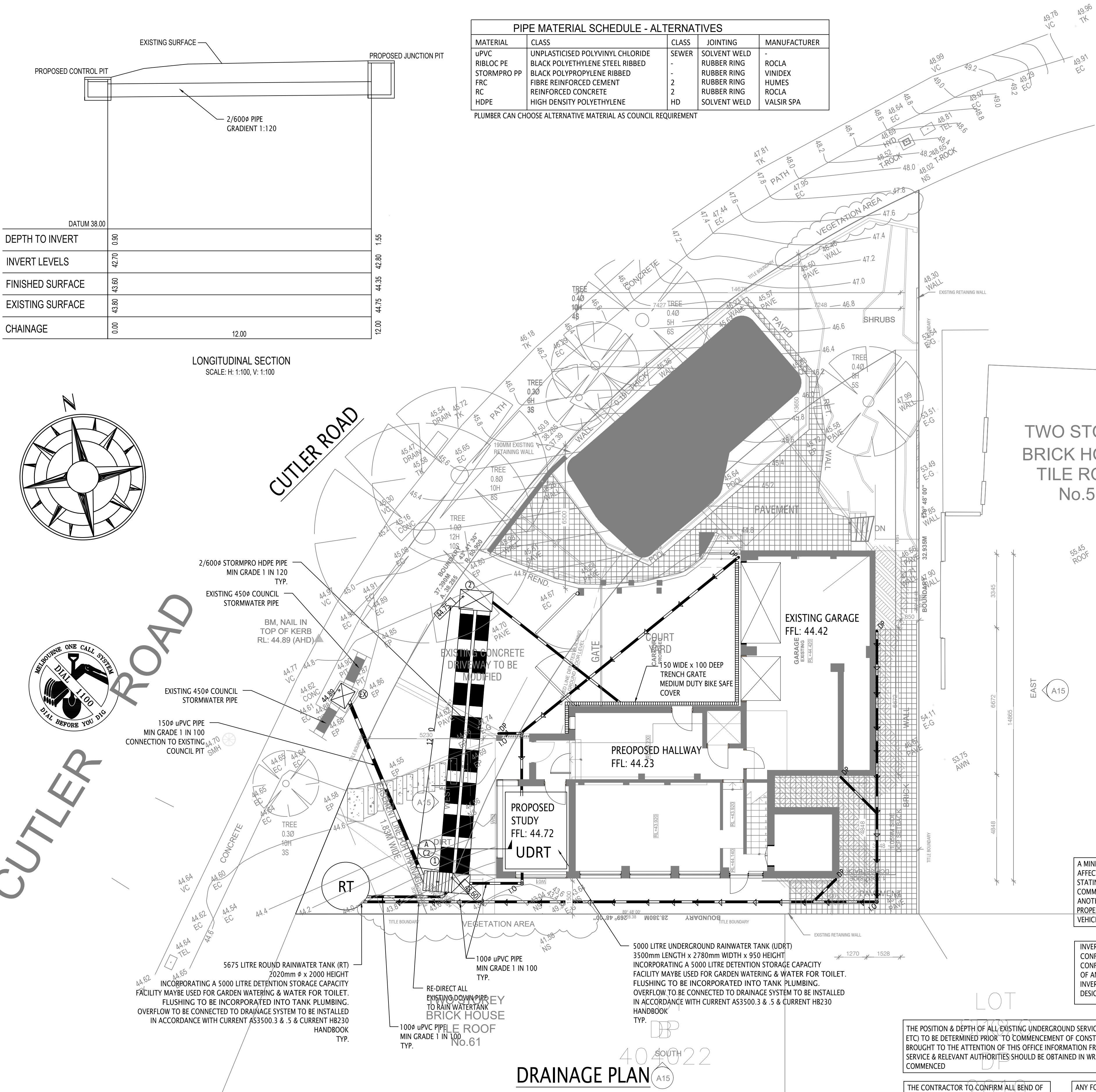
STORMWATER PIPE DIRECT TO WATERTANK

STORMWATER PIPE

- D28. THE SPECIFICATION AND INSTALLATION OF RAIN WATER TANKS MUST BE IN COMPLIANCE WITH CURRENT AS/NZS 3500.3 & 5 PLUMBING AND DRAINAGE CODE AND CURRENT HB 230 RAINWATER TANK DESIGN AND INSTALLATION HANDBOOK. GRATED DRAINAGE PIT & TRENCH GRATE COVERS MUST BE MINIMUM MILD STEEL (MS) COVERS TO MATCH STRENGTH REQUIREMENT AS SPECIFIED. CONCRETE DRAINAGE PIT COVERS MUST BE MINIMUM REINFORCED CONCRETE TO MATCH STRENGTH REQUIREMENT AS SPECIFIED. THE PIT COVER STRENGTH TO BE LD - LIGHT DUTY, MD - MEDIUM DUTY & HD - HEAVY DUTY AS SPECIFIED ON PLAN
- D29. ALL DRAWINGS AND COMPUTATIONS IN THIS SET ARE NOT VALID UNLESS ACCOMPANIED BY A CERTIFICATE OF COMPLIANCE - REG. 1507, BUILDING REGULATIONS 2017, BUILDING ACT 1993

GENERAL COUNCIL NOTES

- C1. ALL WORKMANSHIP AND MATERIALS RELATING TO WORKS IN COUNCIL ASSETS SHALL BE TO THE SATISFACTION OF THE COUNCIL/AUTHORITY AND IN ACCORDANCE WITH COUNCIL/AUTHORITY CURRENT CONSTRUCTION SPECIFICATIONS AND STANDARD DRAWINGS
- C2. THE OWNER, OPERATOR AND THEIR AGENTS SHALL AT ALL TIMES TAKE ADEQUATE PRECAUTIONS TO MAINTAIN WORKS TO THE HIGHEST SAFETY STANDARDS. PRECAUTIONS INCLUDE:  
- APPROPRIATE SIGNAGE TO AS 1743 ROAD WORKS SIGNING CODE OF PRACTICE.  
- THE PROVISION OF ADEQUATE BARRICADING OF WORKS, INCLUDING TRENCHES OF SERVICE.  
- AUTHORITIES AND ANY OTHER ROAD OPENINGS SUFFICIENT TO ENSURE PUBLIC SAFETY.
- C3. ALL RELEVANT PERMITS ARE TO BE OBTAINED FROM COUNCIL FOR WORKS WITHIN EXISTING ROAD RESERVES IN ADDITION TO THE PLANNING PERMIT. RELEVANT PERMITS ARE TO BE TAKEN OUT (E.G ROAD OPENING , STORMWATER TAPPING, VEHICLE CROSSING, ASSET PROTECTION) AND ALL SUPERVISION FEES ASSOCIATED WITH THIS C4. DEVELOPMENT ARE TO BE PAID IN ACCORD WITH THE SUBDIVISION ACT 1988 AND COUNCIL/AUTHORITY GUIDELINES.
- C5. INSPECTION OF ALL CONSTRUCTION WORKS RELATING TO COUNCIL INFRASTRUCTURE AND/OR WORKS WITHIN THE ROAD RESERVE ARE REQUIRED.
- C6. ALL WORKS UNDERTAKEN WITHIN THE ROAD RESERVE ARE TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL OR RELEVANT AUTHORITY
- C7. THE CONTRACTOR SHALL GIVE NOTICE TO SUPERINTENDENT FOR INPECTION ACCORDING TO COUNCIL SPECIFICATION OR RELEVANT AUTHORITY
- C8. DO NOT SCALE THE DRAWINGS. USE WRITTEN DIMENSIONS ONLY.



STORMWATER PIT SCHEDULE						
NO.	COVER TYPE	INTERNAL DIMENSION	COVER LEVEL	INLET	INVERT LEVEL	DEPTH (m)
EX	CONCRETE	910 x 750	44.89	42.60	42.29	2.60
1	CONCRETE / GRATED - LIGHT DUTY BIKE SAFE COVER	2100 (600/1500) x 900	43.60	(PIT 2) 42.70	42.69	0.91
2	CONCRETE - MEDIUM DUTY	900 x 1500	44.75		42.80	1.95

ALL PIT MUST BUILD AS CONCRETE

PIPE MATERIAL SCHEDULE - ALTERNATIVES				
MATERIAL	CLASS	CLASS	JOINTING	MANUFACTURER
UPVC	UNPLASTICISED POLYVINYL CHLORIDE	SEWER	SOLVENT WELD	-
RIBLOC PE	BLACK POLYETHYLENE STEEL RIBBED	-	RUBBER RING	ROCLA
STORMPRO PP	BLACK POLYPROPYLENE RIBBED	-	RUBBER RING	VINIDEX
FRC	FIBRE REINFORCED CEMENT	2	RUBBER RING	HUMES
RC	REINFORCED CONCRETE	2	RUBBER RING	ROCLA
HDPE	HIGH DENSITY POLYETHYLENE	HD	SOLVENT WELD	VALSIR SPA

PLUMBER CAN CHOOSE ALTERNATIVE MATERIAL AS COUNCIL REQUIREMENT

THE POSITION & DEPTH OF ALL EXISTING UNDERGROUND SERVICES (e.g DRAINAGE, ELEC., PHONE, SEWER, ETC) TO BE DETERMINED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND ANY DISCREPANCIES BROUGHT TO THE ATTENTION OF THIS OFFICE INFORMATION FROM '1100 DIAL BEFORE YOU DIG' SERVICE & RELEVANT AUTHORITIES SHOULD BE OBTAINED IN WRITING BEFORE ANY CONSTRUCTION IS COMMENCED

THE CONTRACTOR TO CONFIRM ALL BEND OF PROPOSED DRAINAGE TO BE CONNECTED TO NEAREST PITS AS PER LATEST AUSTRALIAN STANDARDS AS3500 AND LATEST PLUMBING CODE AUSTRALIAN STANDARDS

ALL INTERNAL DRAINAGE TO BE CONSTRUCTED AS PER AUSTRALIAN STANDARD AS3500-PART 3-2015

TRENCHES WITHIN TREE PROTECTION ZONES ARE TO BE BORED A MIN DEPTH OF 600MM UNDER PROJECT ARBORIST SUPERVISION.

REFER TO SITE PLAN FOR ALL EXISTING TREE POSITIONS. CARE SHOULD BE TAKEN DURING EXCAVATIONS TO NOT DESTABILISE OR DAMAGE EXTENSIVELY EXISTING TREE ROOT SYSTEMS

A MINIMUM OF TWO WEEKS NOTICE SHALL BE GIVEN TO ALL AFFECTED PROPERTY OWNERS AND OCCUPIERS IN WRITING STATING DRAINAGE WORKS TO BE CARRIED OUT. COMMENCEMENTS TIMES AND EXPECTED COMPLETION TIMES ANOTHER WRITTEN NOTICE SHALL BE GIVEN TO ALL AFFECTED PROPERTY OWNERS AND OCCUPIERS THE DAY BEFORE IF VEHICLE ACCESS IS TO BE DENIED DUE TO THE DRAINAGE WORKS

INVERT LEVEL AT THE DISCHARGE POINT HAS NOT BEEN CONFIRMED. CONTRACTOR/BUILDER MUST VERIFY AND CONFIRM THE INVERT LEVEL ONSITE PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORK. ANY DISCREPANCY IN THE PROVIDED INVERT LEVEL AT THE DISCHARGE POINT MUST BE REPORTED TO DESIGNER FOR REDESIGN AND RESUBMISSION TO COUNCIL.

ANY FOOTPATHS, DRIVEWAYS, KERBS, RIGHT-OF-WAY OR EXISTING FEATURES DISTURBED, BROKEN OR AFFECTED BY THE WORKS ARE TO BE REINSTATED TO THE COMPLETE SATISFACTION OF COUNCIL'S CONSTRUCTION SUPERVISOR

ALL CONCRETE TO BE SAWCUT AND BROKEN OUT TO THE NEAREST JOINT

NO TREE ROOT SHALL BE CUT WITHOUT THE SPECIFIC PERMISSION OF COUNCIL'S CONSTRUCTION SUPERVISOR



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DO NOT SCALE DRAWING

Rev	Description	Date	App
01	ISSUED FOR TENDERS	20 SEP 2018	EC
02	REVISED DRAWINGS	10 MAY 2019	EC
03	REVISED DRAWINGS	20 NOV 2020	EC

Project  
PROPOSED  
EXTENSION/ALTERATION  
59 CUTLER ROAD  
CLONTARF

Drawing Title  
DRAINAGE PLAN

Status: FOR APPROVAL

Drawing No: C1

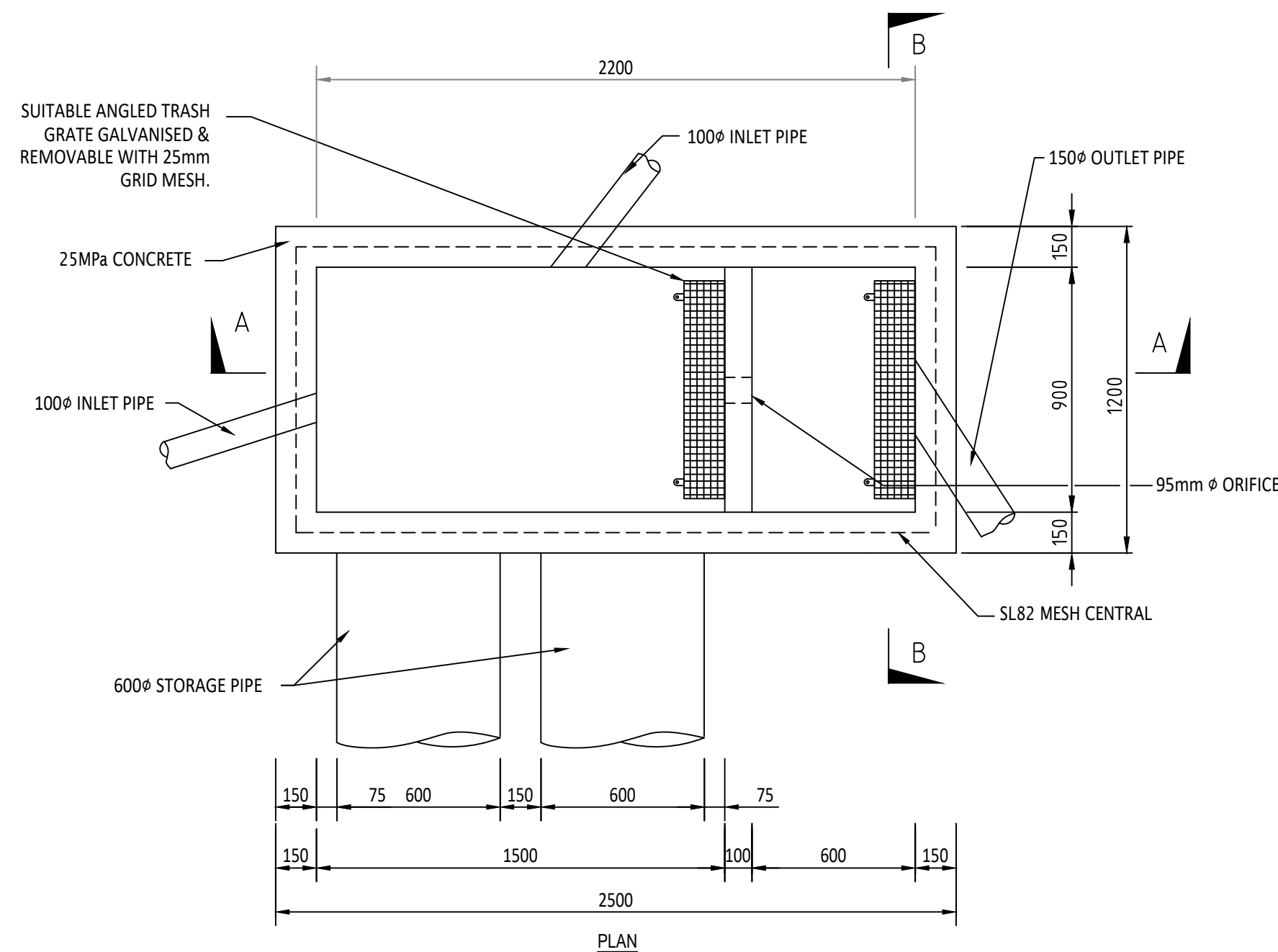
Date: MAY 2019

Design: C.C Rev: 03

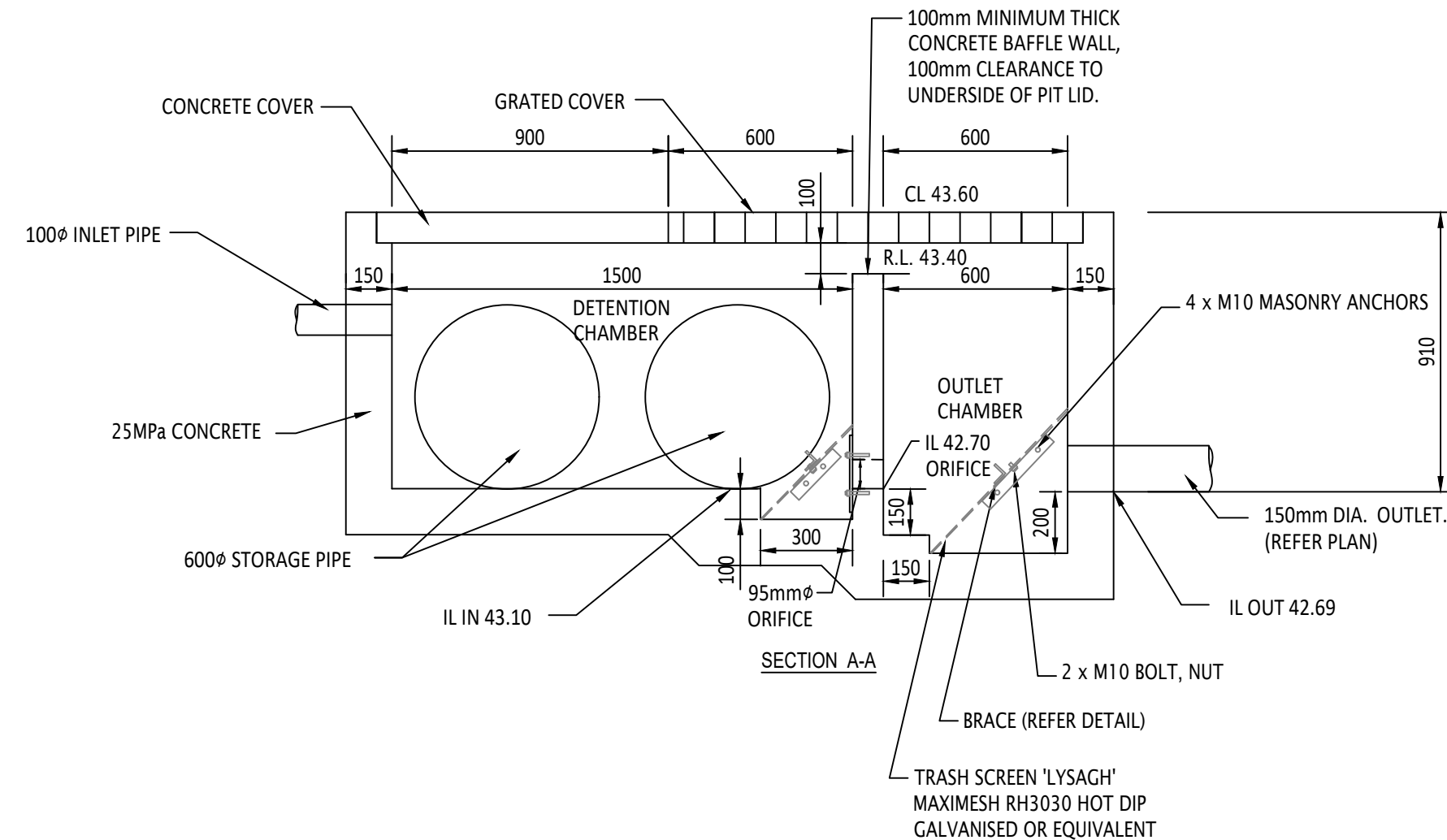
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Job No: J18020

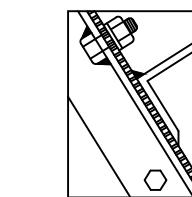




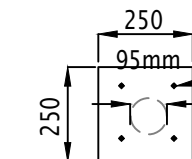
PIT P1 O.S.D. BAFFLE WALL PIT DETAILS



REFER TO WARRINGAH COUNCIL SAMPLE DRAWING  
ON-SITE DETENTION CONTROL PIT DETAILS DRAWING No. 90708

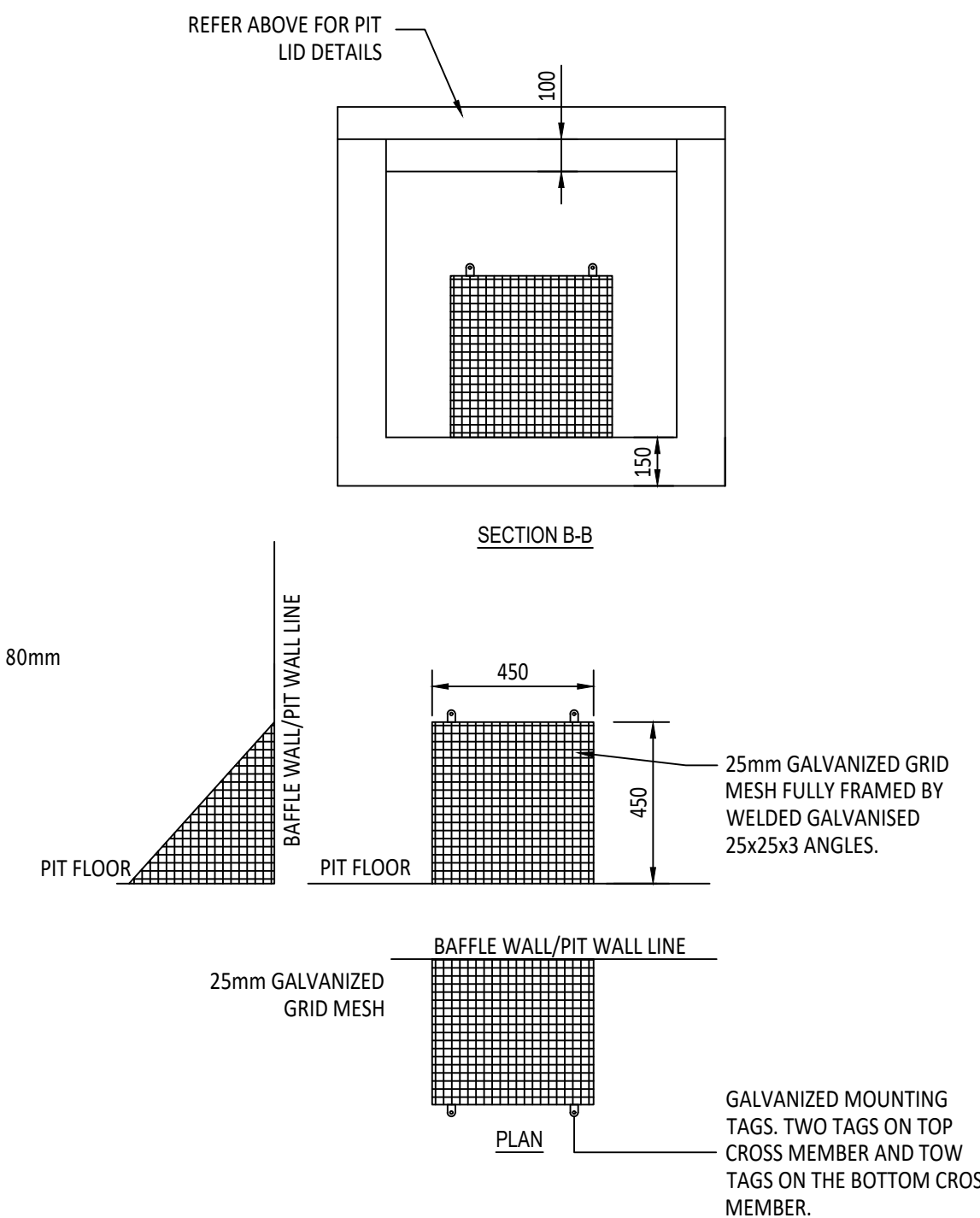


MESH FIXING DETAIL  
N.T.S.



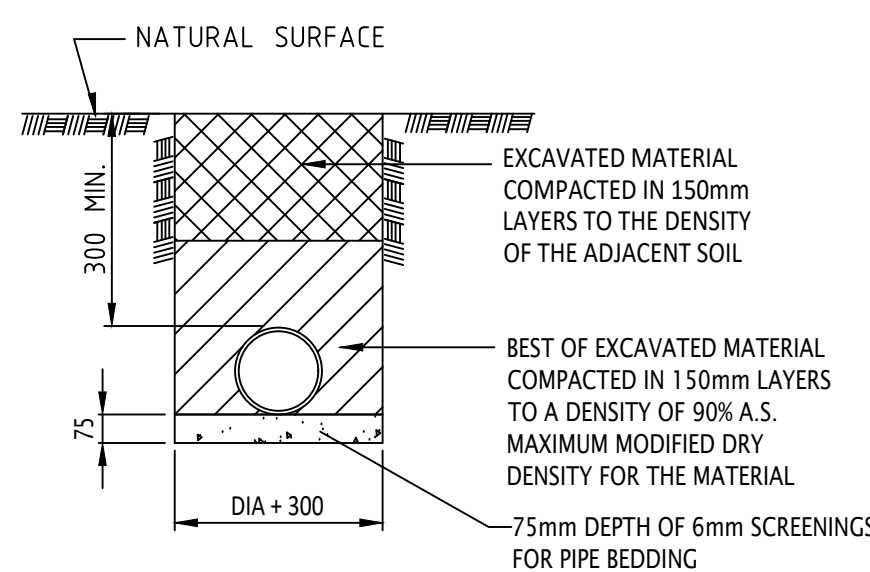
ORIFICE PLATE PLAN VIEW

250  
95mm  
4 x M10 DYNABOLTS x 80mm  
LONG OR EQUIVALENT

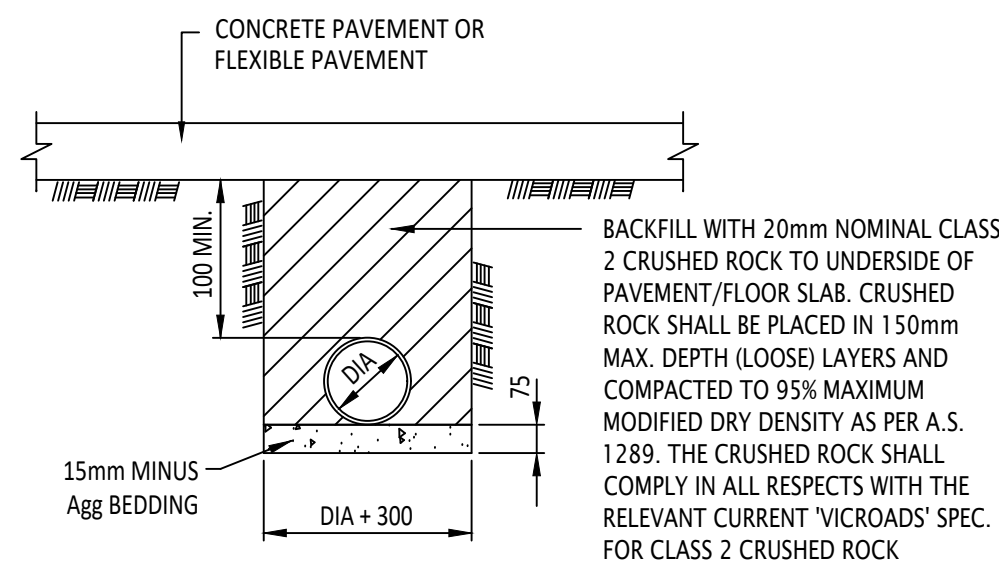


### GALVANISED TRASH GRATE NOTES:

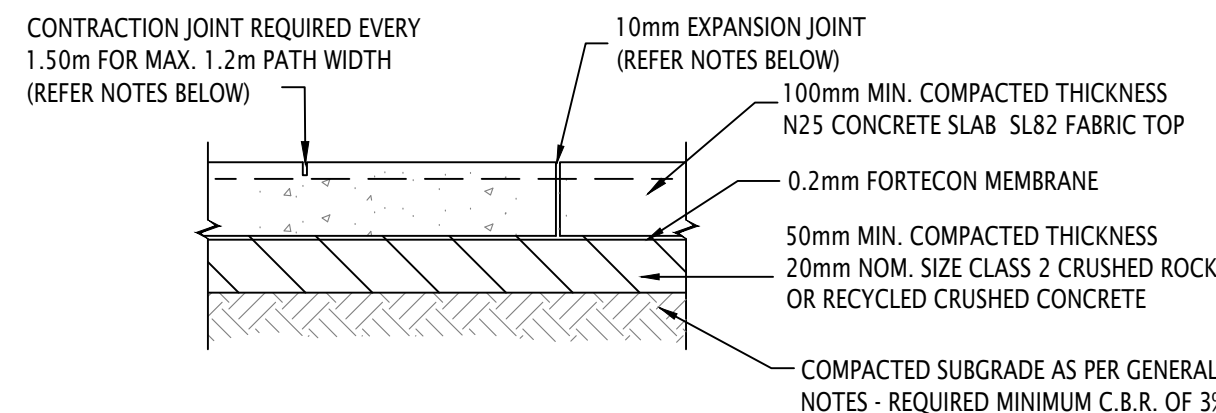
1. In accordance with council standard drawing A4/S101.
2. Trash grate is to be fixed to the baffle wall, at the four mounting tags, before the orifice (or fixed to the wall of pit, at the outlet, before discharging to the multi-cell) using galvanised masonry anchors.
3. Entire trash grate arrangement is to be hot dip galvanised (AS 4680) after manufacture.
4. Trash grate arrangement shall fit flush with the bottom of the pit floor and baffle wall/pit wall.



PIPE LAYING DETAILS (ALL PIPES)  
UNDER LANDSCAPED AREAS  
N.T.S.

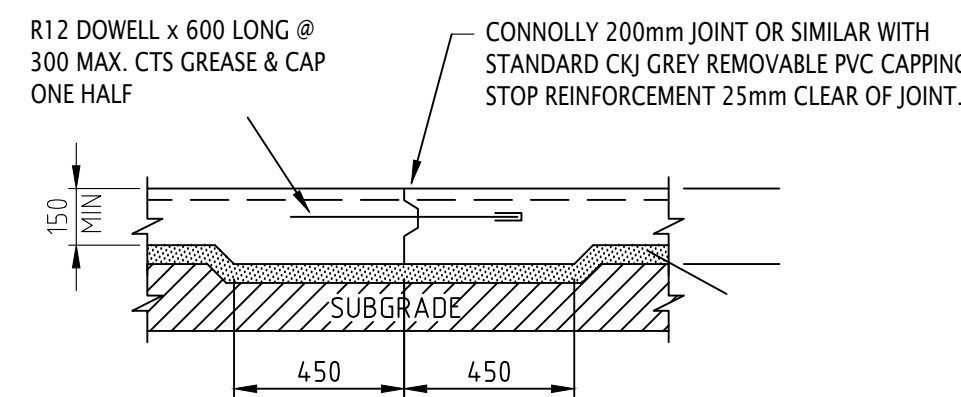


PIPE LAYING DETAILS (RIGID PIPES)  
UNDER ALL PAVEMENTS/FLOORS  
N.T.S.

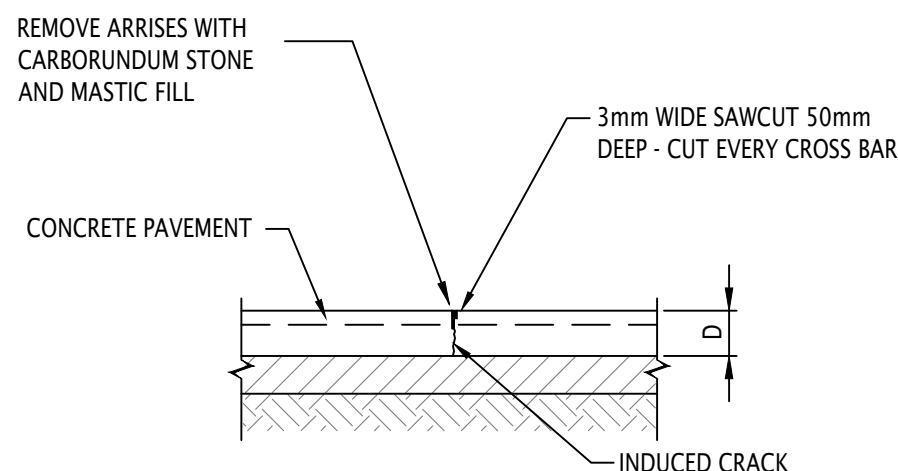


- CONTRACTION JOINT REQUIRED EVERY 1.50m FOR MAX. 1.2m PATH WIDTH (REFER NOTES BELOW)
- 10mm EXPANSION JOINT (REFER NOTES BELOW)
- 100mm MIN. COMPACTED THICKNESS N25 CONCRETE SLAB SL82 FABRIC TOP
- 0.2mm FORTECON MEMBRANE
- 50mm MIN. COMPACTED THICKNESS 20mm NOM. SIZE CLASS 2 CRUSHED ROCK OR RECYCLED CRUSHED CONCRETE
- COMPACTED SUBGRADE AS PER GENERAL NOTES - REQUIRED MINIMUM C.B.R. OF 3%
- NOTES:
1. CONSTRUCTION JOINTS 20mm DEEP AND 4mm WIDE SHALL BE FORMED WITH CUTTING TOOL EVERY 1.50m FOR PATH WIDTHS OF 1.2m APPROX.
  2. FULL DEPTH EXPANSION JOINTS WITH APPROVED EXPANSION JOINT MATERIAL SHALL BE PLACED EVERY 9.0m, AT EVERY CHANGE OF GRADE AND AT CORNERS
  3. FOR CONCRETE AREAS IN EXCESS OF 1.2m IN WIDTH LOCATIONS OF CONCRETE JOINTING LAYOUT SHALL BE IN ACCORDANCE WITH DESIGN PLANS
  4. ALL ASPHALT AND CRUSHED ROCK MATERIALS AND CONSTRUCTION PROCEDURES SHALL COMPLY IN ALL RESPECTS WITH THE RELEVANT 'VICROADS' SPECIFICATIONS

LIGHT DUTY CONCRETE PAVEMENT  
(PEDESTRIAN TRAFFIC AREAS ONLY)  
N.T.S.

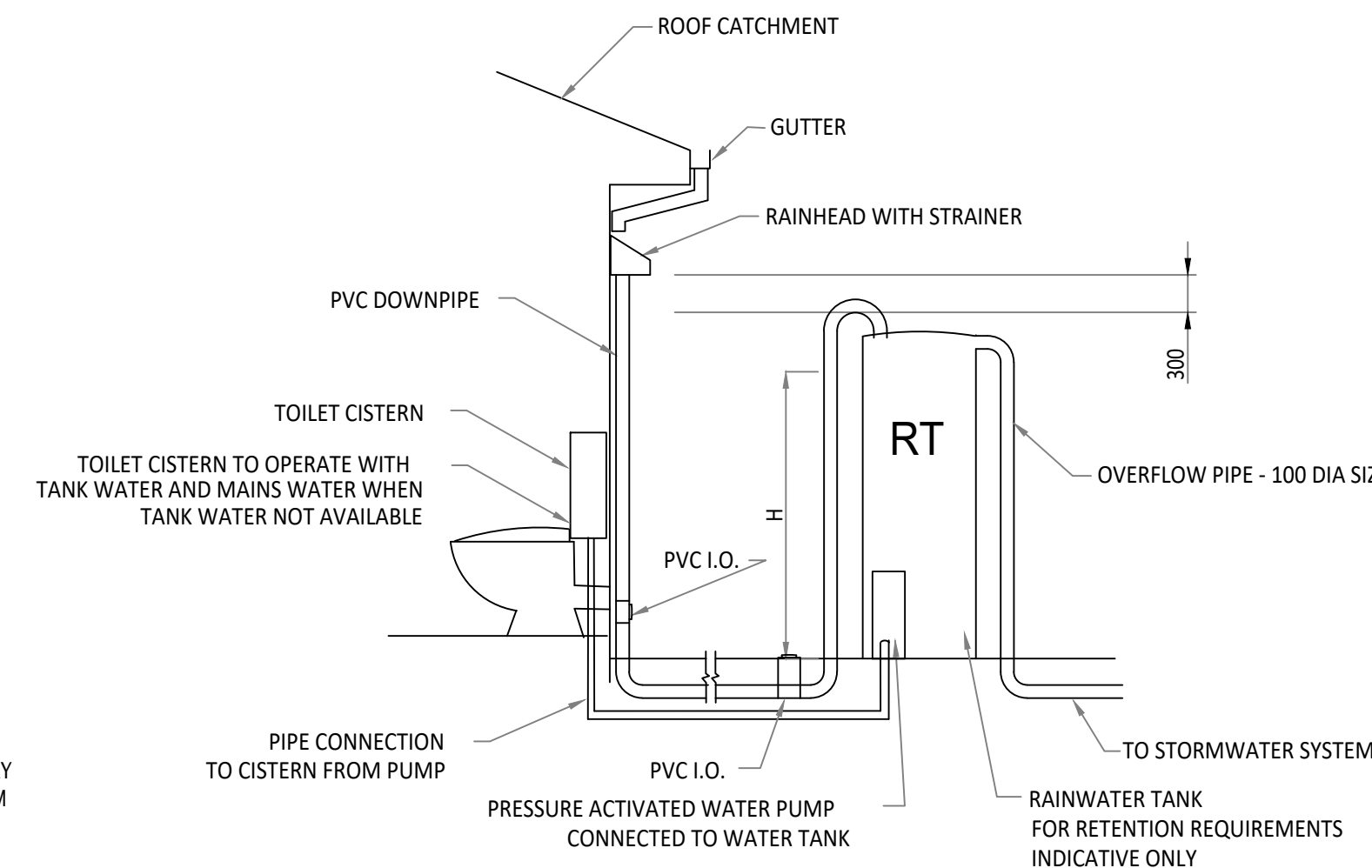
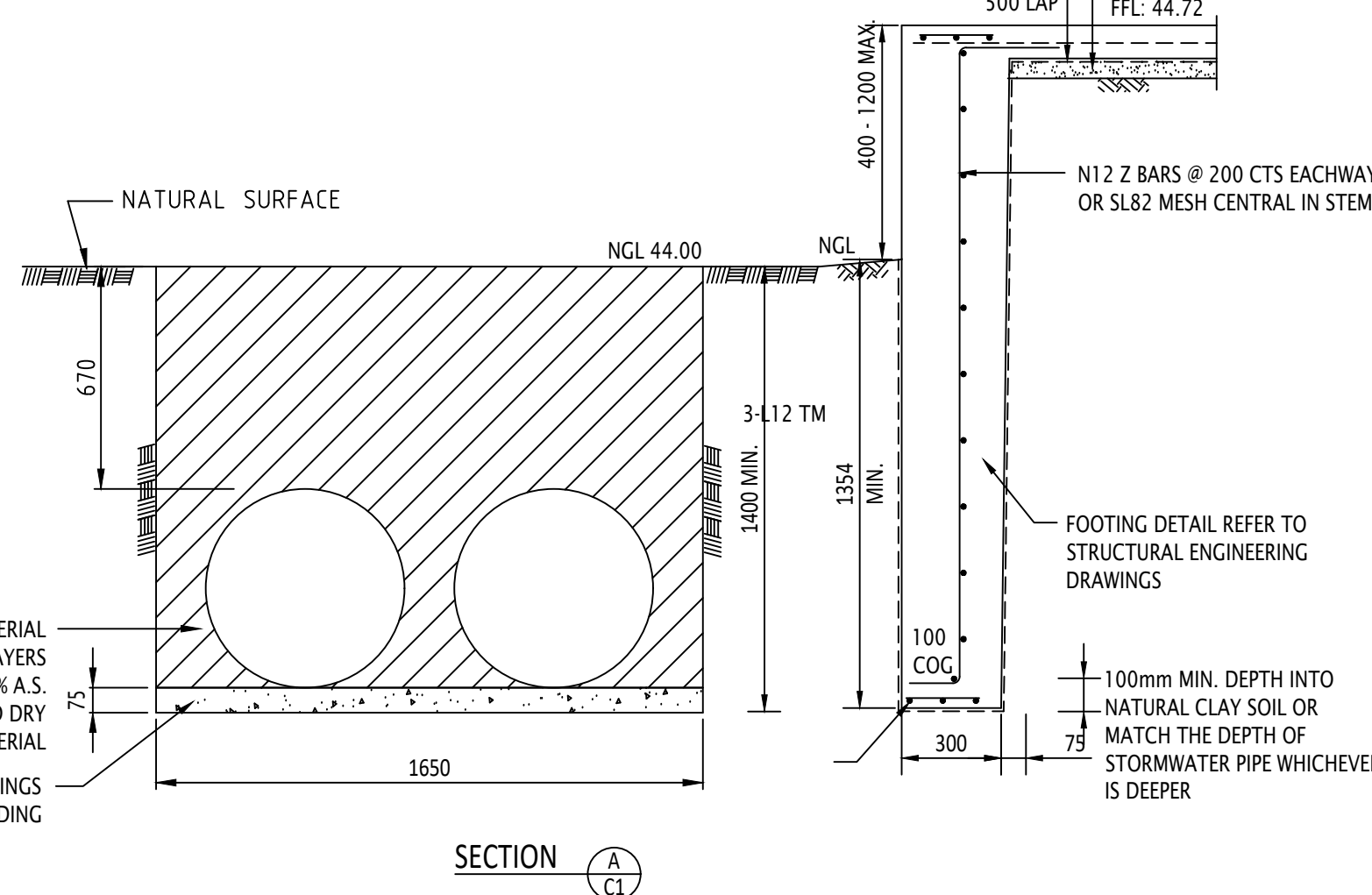


CONSTRUCTION JOINT DETAIL (C.J.)  
BREAKS IN POUR TO BE AT CONSTRUCTION JOINTS ONLY



NOTE:  
MAKE SAWCUT AS SOON AS PRACTICABLE AFTER POURING OF SLAB WITHOUT CAUSING DAMAGE TO THE EDGE OF THE SAWCUT (USUALLY 24 hrs, BUT 48 hrs MAX.)

CONTRACTION (SAWCUT) JOINT  
N.T.S.



### WSUD CHARGED SYSTEMS FOR RAINWATER TANKS FOR TOILET FLUSHING

TO BE INSTALLED IN ACCORDANCE WITH CURRENT AS3500.3 & .5  
& CURRENT HB 230 HANDBOOK REQUIREMENTS.  
TO BE CONNECTED TO ALL TOILETS WITH BUILDING

Rev	Description	Date	App
01	SOURCE COMMENTS	20 SEP 2018	C.C.
02	REVISED DRAWINGS	10 MAY 2019	C.C.
03	REVISED DRAWINGS	20 NOV 2019	C.C.

Project  
PROPOSED  
EXTENSION/ALTERATION  
59 CUTLER ROAD  
CLONTARF

Drawing Title  
DRAINAGE DETAILS

Status: FOR APPROVAL

Drawing No: C2

Date: MAY 2019

Design: C.C. Rev: 03

Checked: C.C. Scale: 1:100 @ A1

Job No: J18020

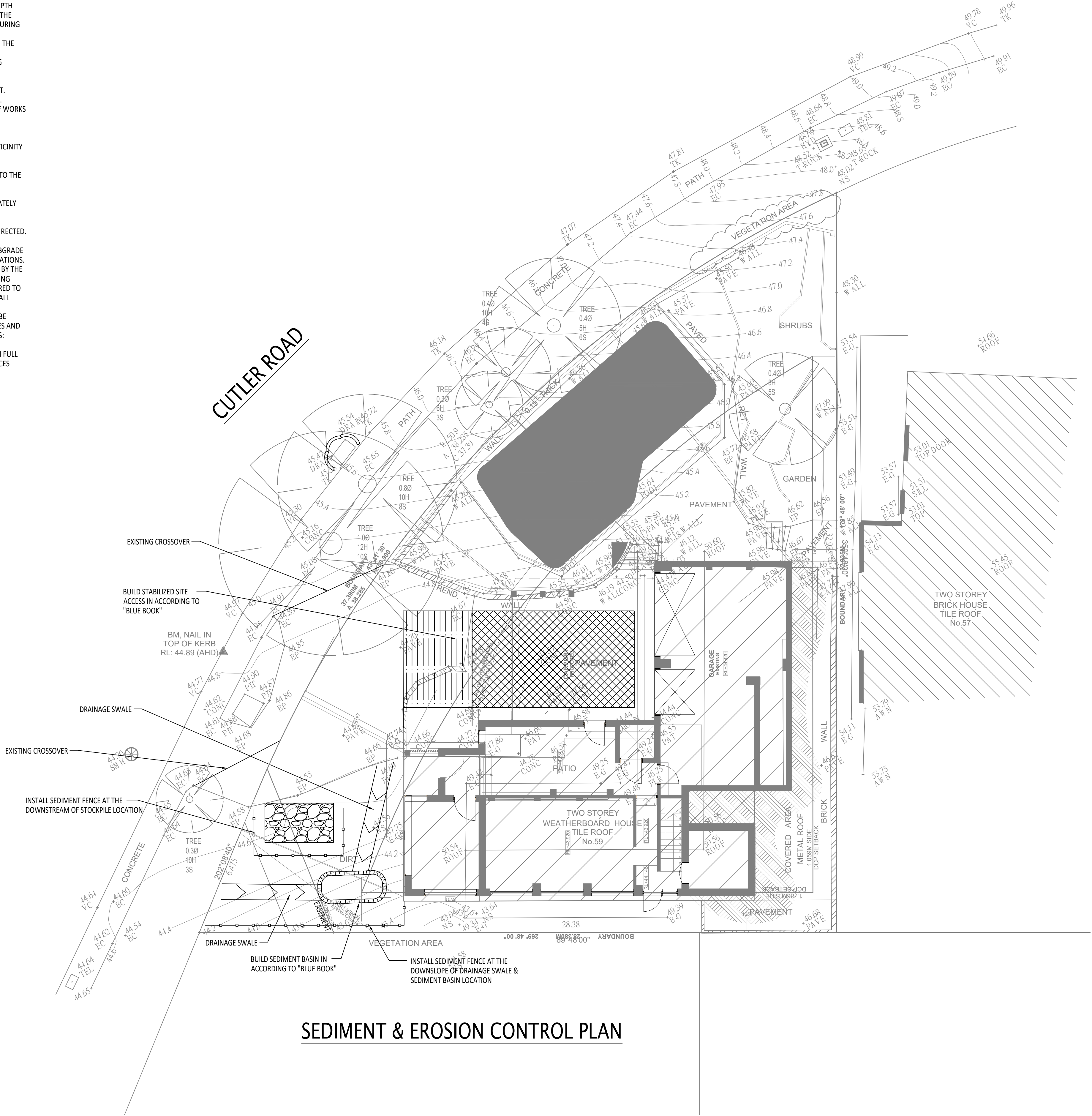


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LEGEND

- SECURITY FENCE
- WIRE MESH AND GRAVEL SAND FILTER
- DRINAGE SWALE
- SEDIMENT FENCE
- STOCKPILE
- SEDIMENT BASIN
- STABLISED SITE ACCESS



SEDIMENT & EROSION CONTROL PLAN

Rev	Description	Date	App
01	SOURCE COMMENTS	20 SEP 2018	EC
02	REVISED DRAWINGS	10 MAY 2019	EC
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Project  
PROPOSED  
EXTENSION/ALTERATION  
59 CUTLER ROAD  
CLONTARF

Drawing Title  
SEDIMENT & EROSION  
CONTROL PLAN

Status: FOR APPROVAL

Drawing No: E1

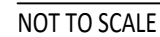
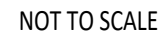
Date: MAY 2019

Design: C.C Rev: 03

Checked: C.C Scale: 1:100 @ A1

Job No: J18020



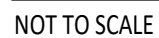


1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILIZE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

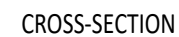


NOT TO SCALE

1. CONSTRUCT SEDIMENT FENCES AS CLOSE TO POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENTS AREA OF ANYONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO SOIL'S IN THE DESIGN STORM EVENT. USUALLY THE 10-YEAR EVENT
2. CUT A 200mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND AT 2.0m MAX. INTERVALS AT THE DOWN SLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS
4. FIX SELF SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE TO THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

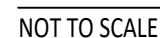


1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. CUT A 200mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRICHED
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND AT 2.0m MAX. INTERVALS AT THE DOWN SLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS
4. FITTING THE GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE TO THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY  
NOT TO SCALE

1. REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA
2. CONSTRUCT A CUT-OFF TRENCH 500mm DEEP AND 1200mm WIDE ALONG THE CENTRELINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST
3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWAMP TO STANDARD PROCTOR DENSITY
4. SELECT FILL FOLLOWING THE SWAMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100mm TO HELP BOND COMPACTED FILL TO THE EXISTING SUBSTRATE
5. SPREAD THE FILL IN 100mm TO 150mm LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE SWAMP
6. CONSTRUCT THE EMERGENCY SPILLWAY
7. REHABILITATE THE STRUCTURE FOLLOWING THE SWAMP



No: **118020**