

Pacific Brook Christian School, Muswellbrook

72 - 74 Maitland St, Muswellbrook NSW 2333

STORMWATER DRAINAGE AND CIVIL WORKS PLAN FOR DA APPROVAL - STAGE 1



LOCALITY MAP. (COURTESY OF SIX MAPS)

DRAWING REGISTER	
NO.	TITLE
C-0-GE-00	COVER SHEET
C-0-GE-01	CONSTRUCTION NOTES - SHEET 01
C-0-GE-02	CONSTRUCTION NOTES - SHEET 02
C-0-GE-10	STORMWATER DRAINAGE DETAILS - SHEET 01
C-0-GE-11	STORMWATER DRAINAGE DETAILS - SHEET 01
C-0-GE-20	CIVIL EXTERNAL WORK DETAILS - SHEET 01
C-0-GE-21	CIVIL EXTERNAL WORK DETAILS - SHEET 02
C-0-GE-30	SOIL EROSION AND SEDIMENT CONTROL DETAILS
C-1-GF-00	OVER ALL SITE PLAN
C-1-GF-01	STORMWATER AND EXTERNAL WORKS - SHEET 01
C-1-GF-02	STORMWATER AND EXTERNAL WORKS - SHEET 02
C-1-GF-30	SEDIMENT AND EROSION CONTROL PLAN

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

P3	REVISIONS AS REQUESTED	-	16/09/21
P2	STAGING UPDATED TO STAGE 1	-	05/07/21
P1	INFORMATION	-	21/05/21
ISSUE	DESCRIPTION	APPROVED	DATE

ARCHITECT

NBRSARCHITECTURE.

Sydney
61 2 9922 2344

nbrsarchitecture.com

**BIRZULIS**
ASSOCIATES

CONSULTING STRUCTURAL & CIVIL ENGINEERS
583 DARLING STREET ROZELLE NSW 2039
tel: (02) 9555 7230 email : office@birzulisassociates.com
www.birzulisassociates.com

PROJECT
Pacific Brook Christian School,
Muswellbrook - STAGE 1
72 - 74 Maitland Street, Muswellbrook NSW

TITLE
COVER SHEET

SCALES
as noted @ A1

DATE
APR, 2021

DRAWN
C.KE

DESIGN
C.A

VERIFIED
-

APPROVED
-

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ISSUE
P3

PROJECT No.
7855

DRAWING No.
C-0-GE-00

GENERAL NOTES

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT CONSULTANTS DRAWINGS, THE ARCHITECTURAL DRAWINGS "ISSUED FOR CONSTRUCTION", AND ALL OTHER SPECIFICATION SUCH AS WRITTEN INSTRUCTIONS ISSUED DURING CONSTRUCTION, CHECKLISTS, APPROVING AUTHORITY SPECIFICATIONS. ANY DISCREPANCIES IN THESE DOCUMENTS SHALL BE REFERRED TO THE RELEVANT PARTIES AND NOT LESS THAN THE PROJECT MANAGER, THE ENGINEER AND THE SUPERINTENDENT FOR A DECISION PRIOR TO CONTINUING WITH THE WORKS.
2. ALL EXISTING DRAINAGE SHOWN ON THE PLANS AND PROPOSED TO BE RE-USED ARE TO BE INSPECTED BY A LICENCED PLUMBER AND CERTIFIED THAT IT IS IN GOOD WORKING CONDITION, OTHERWISE ALLOW FOR RECTIFY AND OR REPLACEMENT.
3. PROVIDE HELLGUARD OR EQUIVALENT TO ALL PIT LIDS AND GRATED DRAINS IN PEDESTRIAN AREAS.
4. THE CONTRACTOR OR PRINCIPLE CONTRACTOR SHALL CHECK ALL DIMENSIONS ONSITE FOR CORRECTNESS. WHERE RELEVANT THIS CAN BE FOR NCC (BCA) COMPLIANCE, EFS&G COMPLIANCE, RMS COMPLIANCE IFNSW COMPLIANCE, LEPS, DCPs, AND SEPPs. ANY DISCREPANCY SHALL BE REPORTED TO THE SUPERINTENDENT AND ALSO NOT LESS THAN THE PROJECT MANAGER AS SOON AS PRACTICABLE. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING OFF THE PLANS.
5. IT IS THE RESPONSIBILITY OF THE BUILDER AND CONTRACTOR TO ENSURE THAT DURING WORKS THE STABILITY OF EXISTING STRUCTURES SHALL BE MAINTAINED WITHOUT UNDUE DISTURBANCE DURING THE PROCESS OF DISTURBANCE SUCH AS EXCAVATION, SERVICE MODIFICATION, UNDERPINNING, PILING, COMPACTION, VIBRATION, DEMOLITION, REWORKING STORMWATER, PARKING OF HEAVY MACHINERY OR STOCKPILING OF MATERIALS, DUST, EXCESSIVE NOISE. NO PART OF AN EXISTING STRUCTURE OR BUILDING SHALL BE OVERSTRESSED DURING CONSTRUCTION.
6. WORKS SHALL NOT BEGIN WITHOUT THE WRITTEN APPROVAL OF THE RELEVANT CERTIFYING AUTHORITY.
7. INSPECTIONS ARE REQUIRED TO CONFIRM AND CERTIFY THE STANDARD OF CONSTRUCTION BY BIRZULIS ASSOCIATES. WE REQUIRED TO BE PROVIDED WITH 48 HOURS NOTICE PRIOR TO ALL STORMWATER ELEMENTS BEING BACKFILLED OR CONCEALED TO INSPECT. THIS DOES NOT REMOVE THE NEEDS FOR OTHER OTHER AUTHORITIES SUCH AS CERTIFIERS TO CONDUCT INSPECTIONS. ADDITIONAL INSPECTIONS OF PAVEMENT MATERIALS AND LAYOUTS MAY ALSO BE REQUIRED. REFER TO PAVEMENT OR SUB-GRADE SPECIFIC NOTES AND RELEVANT SPECIFICATION.
8. WHERE SHOWN, EXISTING SERVICES ARE BASED ON INFORMATION PROVIDED TO BIRZULIS ASSOCIATES AND ARE NOT A SUBSTITUTE FOR ONSITE TESTING AND CONFIRMATION. IT IS THE RESPONSIBILITY OF CONTRACTORS WORKING IN VICINITY OF THESE SERVICES TO BE CONFIRM THEIR LOCATION.
9. ALL SERVICE TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARD CORRESPONDING TO THE TYPE OF PIPING IN THE TRENCH OR RMS STANDARDS IF WORKING ON A RMS MANAGED ROAD.
10. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LEGAL OR RELEVANT REQUIREMENTS OF CURRENT AUSTRALIAN STANDS, NATIONAL CONSTRUCTION CODES, RELEVANT SPECIFICATIONS. IF IN DOUBT ALL RFIs (REQUESTS FOR INFORMATION) SHALL BE SUBMITTED IN WRITING AND RFIs SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE AND STANDARDS.
11. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LEGAL OR RELEVANT REQUIREMENTS OF CURRENT AUSTRALIAN STANDARDS, NATIONAL CONSTRUCTION CODES, SAA CODES, REQUIREMENTS OR STIPULATIONS OF RELEVANT CERTIFYING AUTHORITY, AND RELEVANT SPECIFICATIONS. IF IN DOUBT ALL RFIS (REQUESTS FOR INFORMATION) SHALL BE SUBMITTED IN WRITING AND RFIS SHALL BE IN ACCORDANCE WITH BEST PRACTICE AND STANDARDS.
12. NO CHANGES TO THE WORKS AS REFLECTED ON THE DESIGN ENGINEERING DRAWINGS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
13. UNO OR U.N.O DENOTES "UNLESS NOTED OTHERWISE" ON THESE DRAWINGS.
14. ALL PROPRIETARY PRODUCTS SHALL BE CHECKED FOR BUILDING CODE COMPLIANCE WITH THE CERTIFYING AUTHORITY AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND IF REQUIRED BY AN APPROVED CONTRACTOR ENDORSED BY THE MANUFACTURER.
15. IT IS THE RESPONSIBILITY OF THE PRINCIPLE CONTRACTOR OR EQUIVALENT TO OBTAIN ALL PERMITS AND AUTHORITY APPROVALS.
16. IT IS RECOMMENDED A DILAPIDATION REPORT OF ELEMENTS IN VICINITY OF THE DEVELOPMENT BE UNDERTAKEN PRIOR TO WORKS COMMENCING.
17. EXISTING DOWNPIPES WHICH ARE BEING RECONFIGURED SHOULD BE CONNECTED TO FLEXIBLE HOISING AND DISCHARGED IN A SAFE LOCATION IN ACCORDANCE WITH REQUIREMENTS OF SEDIMENT AND EROSION CONTROL.THE TOP OF EXCAVATIONS SHALL BE PROTECTED FROM OVERLAND FLOW AND IF NECESSARY OVERLAND FLOW PATHS SHOULD BE REDIRECTED DURING PHASES IN THE CONSTRUCTION PARTICULARLY BULK EXCAVATION AND SITE WORKS.
18. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL SAFETY FENCES, WARNING LIGHTS, TEMPORARY BARRIERS AROUND EXCAVATIONS/TRENCHES, TRAFFIC DIVERSIONS AND THE LIKE DURING CONSTRUCTION. ALL WORKS TO COMPLY WITH WORK COVER AND OH&S REGULATION, AND OTHER RELEVANT SAFETY REQUIREMENTS.
19. NO TREES SHALL BE REMOVED/DESTABILISED/CUT BACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.

STORMWATER DRAINAGE NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3500.3 AND OTHER RELEVANT CODES WHERE OTHER MATERIALS ARE USED.
2. FOR DOWNPIPE LOCATIONS REFER ARCHITECTURAL DRAWINGS AND THE HYDRAULIC ENGINEERS DRAWINGS.
3. ESTABLISH AND LOCATE EXISTING INVERT LEVELS OF EXISTING SERVICES PRIOR TO COMMENCING WORKS AND CONFIRM WITH ENGINEERS THE DESIGN ARE BASED ON AN ASSUMPTION IN THE LEVELS.
4. PIPES SHALL HAVE A MINIMUM FALL OF 1% UNLESS NOTED OTHERWISE. A MINIMUM OF 1:60 FALL SHALL BE PROVIDED FOR DOWNPIPES CONNECTING TO DRAINAGE LINES.
5. RESPONSIBILITY OF ROOF DRAINAGE IS BY OTHERS UNLESS SPECIFICALLY NOTED OTHERWISE.
6. ALL UPVC STORMWATER DRAINAGE LINES SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF AS1254 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST VERSION OF AS3500.3, AS 2032 & AS2566 UNLESS NOTED OTHERWISE.
7. ALL REINFORCED CONCRETE STORMWATER DRAINAGE PIPE WORK (RCP) SHALL BE IN ACCORDANCE WITH AS1342, RMS STANDARDS (NOW TRANSPORT FOR NSW) REQUIREMENTS AND SPECIFICATIONS AND SHALL BE INSTALLED IN ACCORDANCE WITH AS 3725 OR THE PREVIOUS RELEVANT STANDARD/ SPECIFICATION WHICHEVER IS THE GREATER OR MORE APPROPRIATE. THE PIPES SHALL BE OF THE FOLLOWING MINIMUM CLASSES IN ACCORDANCE WITH AS 1342 UNLESS NOTED OTHERWISE:

a. CLASS 4 UNDER FLEXIBLE PAVEMENTS WITH MIN 600MM COVER

b. CLASS 2 IN OTHER AREAS WITH NO FLEXIBLE PAVEMENT OVER AND HEAVY MACHINERY/TRUCKS DOES NOT NEED TO PASS OVER AND NOT SURCHARGED BY VEHICLES LOADS OR GREATER.
8. SUBSOIL DRAINAGE FOR FLEXIBLE PAVEMENTS SHALL BE IN ACCORDANCE WITH RMS REQUIREMENTS (NOW TRANSPORT FOR NSW).
9. SUBSOIL DRAINAGE (MINIMUM 100mm DIAMETER WRAPPED IN A GEO SOCK SHALL BE PROVIDED BEHIND AND AT THE BASE OF ALL RETAINING WALLS, UPTURN WALLS (WITH THE EXCEPTION OF UNDERPINNING AND CONTIGUOUS/SOLDIER PILING) AND SHALL BE BACKFILLED IN ACCORDANCE WITH CRUSHED ROCK WITH 10% CEMENT. THE WALL SHALL ALSO BE WATERPROOFED AND A LAYER OF CORFLUTE APPLIED BETWEEN THE WATERPROOFING AND THE BACKFILL. THE BACKFILL SHALL BE WRAPPED IN A GEOFABRIC. THE SUBSOIL DRAIN SHALL CONNECT TO THE DOWNSTREAM STORMWATER SYSTEM AND HAVE SUFFICIENT CLEAN OUT POINTS TO BE ADEQUATELY MAINTAINED.
10. SUBSOIL DRAINAGE SHALL BE PROVIDED IN POORLY DRAINED LAWN STYLE AREAS IN ACCORDANCE WITH BEST PRACTICE.
11. STEP DOWNS IN FLOORING FROM INTERNAL TO EXTERNAL SHALL BE IN ACCORDANCE WITH THE NATIONAL CONSTRUCTION CODE UNLESS NOTED OTHERWISE.
12. FALLS IN PAVEMENTS SHALL BE MINIMUM 1% FOR EXTERNAL AREAS AND 0.5% FOR EXTERNAL AREAS PROTECTED BY A ROOF OR UNDERCOVER. SUFFICIENT SURFACE DRAINAGE SHALL BE PROVIDED TO FACILITATE THESE FALLS.
13. SUBSOIL DRAINAGE FOR FLEXIBLE PAVEMENTS SHALL BE IN ACCORDANCE WITH RMS REQUIREMENTS (NOW TRANSPORT FOR NSW).
14. ALL DRAINAGE TRENCHES SHALL NOT UNDERMINE EXISTING STRUCTURES AND SHALL BE IN SOUND MATERIAL. IF SOFT SPOTS EXIST THEY SHOULD BE REMOVED AND BACKFILLED WITH A COMPACTED ROADBASE DGB20 OR 40 AND COMPACTED TO MINIMUM 98% SOLID DRY DENSITY AT PLUS OR MINUS 2% OPTIMUM MOISTURE CONTENT.
15. ALL STORMWATER PITS SHALL HAVE:

15.1. HAVE STEP IRONS INSTALLED (WHERE DEEPER THAN 900mm)

15.2. HAVE A LID AS PER SPECIFICATION OR A PIT SCHEDULE

15.3. HAVE BEDDING AS REQUIRED

15.4. HAVE ANY PROOF LOCKS OR BETTER CHILD PROTECTION AS REQUIRED BY COUNCIL OR OTHER CONSULTANT SPECIFICATIONS

15.5. HAVE BENCHING AS REQUIRED
16. COVER FOR STORMWATER PIPES SHALL BE:

a. RCP: 600mm UNDER FLEXIBLE PAVEMENTS OR AREAS OF VEHICULAR LOADING

b. RCP: 300mm UNDER LANDSCAPE AREAS OR RIGID PAVEMENTS.

c. UPVC: 300mm NOT SUBJECT TO VEHICULAR LOADING

d. UPVC: 600mm SUBJECT TO VEHICULAR LOADING WITH SEALED FLEXIBLE CARRIAGEWAYS.

e. IF NOT NOTED IN THE ABOVE THE MINIMUM COVERS SHALL BE OBTAINED FROM THE RELEVANT AUSTRALIAN STANDARD:

I. AS 1762 FOR CORRUGATED METAL STORMWATER PIPES

II. AS 2032 FOR PVC STORMWATER PIPES

III. AS.NZS 2566.1 FOR FLEXIBLE STORMWATER PIPES

IV. AS 3725 FOR REINFORCED CONCRETE STORMWATER PIPES

V. AS 2033 FOR POLYETHYLENE STORMWATER PIPES.

18. LIDS OF STORMWATER PITS SHALL HAVE THE FOLLOWING CLASS LIDS UNLESS NOTED OTHERWISE:

a. CLASS A FOR AREAS ACCESSED STRICTLY BY ONLY PEDESTRIANS

b. CLASS C FOR AREAS RESIDENTIAL ROADS AND CAR PARKS AND AREAS SUBJECT TO VEHICLE LOADS BUT NOT HEAVY VEHICLE LOADS.

c. CLASS E FOR AREAS WHERE HEAVY VEHICLES CAN ACCESS AND USE

19. MINIMUM PIT SIZES REGARDLESS OF WHAT IS SHOWN ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH TABLE 7.5.2.1 OF AS/NZS 3500.3

20. WHERE SITE HAVE A HIGH WATER TABLE A MINIMUM OF 1.5 TIMES THE DIAMETER OVER uPVC OR LIGHTWEIGHT PIPES SHALL BE PROVIDED AS COVER TO PREVENT BUOYANCY.

21. ALL SET OUT IS TO THE FACE OF THE KERB, CENTRELINE OF FENCE/BOLLARD/PIPE.

22. SMOOTH ALL TRANSITION BETWEEN NEW AND EXISTING STORMWATER DRAINAGE WORKS IN LEVEL AND ALIGNMENT.

AUTHORITY STORMWATER NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL SET OUT AND LEVEL PRIOR TO COMMENCEMENT OF WORKS AND TO REPORT ANY DISCREPANCIES FOUND TO THE SUPERINTENDENT.
2. ALL SET OUT DIMENSIONS ARE TO FACE OF KERB, CENTRELINE OF FENCE/BOLLARD/PIPE.
3. SMOOTH ALL TRANSITION BETWEEN NEW AND EXISTING WORK IN BOTH LEVEL AND ALIGNMENT.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SAFETY FENCES, WARNING SIGNS, TRAFFIC DIVERSIONS AND THE LIKE DURING CONSTRUCTION. ALL WORKS TO COMPLY WITH OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY REQUIREMENTS.
5. NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.
6. THE CONTRACTOR SHALL PROVIDE CERTIFICATION AND COMPACTIONS AND PAVEMENT THICKNESS FROM A NATA REGISTERED TESTING AUTHORITY MINIMUM THREE TESTS PER LAYER AS FOLLOWS

PIPE BACKFILL

DENSITY INDEX 75

95% STANDARD

SELECT FILL

SELECT FILL (LESS THAN 300mm

FOLLOW BASE COURSE)

98% MODIFIED

BASE COURSE

100% MODIFIED
7. THE AUSPEC SPECIFICATION SHALL BE THE SPECIFICATION FOR THESE WORKS.

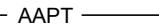
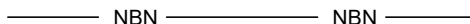
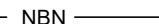
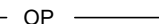
SURVEY NOTES

1. THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY THE SURVEYOR SPECIFIED IN THE TITLE BLOCK.
2. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. BIRZULIS ASSOCIATES DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
3. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT BIRZULIS ASSOCIATES. THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM ORIGINAL SURVEY DOCUMENTS.

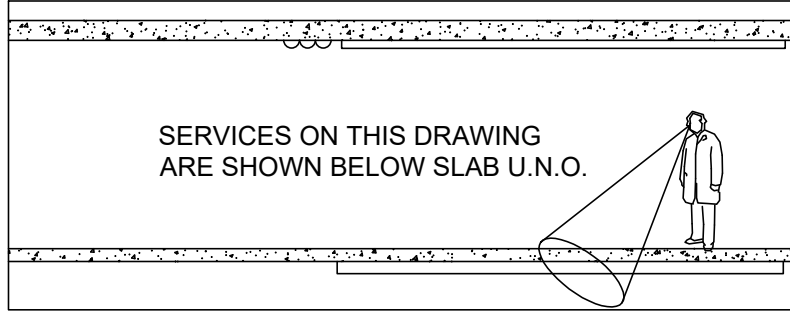
ABBREVIATIONS

Ø OR DIA	DIAMETER
CNR	CALIFORNIA BEARING RATIO
CH	CHAINAGE
CL	CENTRE LINE
CO	CLEAR OUT
DD	DISH CROSSING
DDO	DISH DRAIN OUTLET
DEJ	DOWELLED EXPANSION JOINT
DGB	DENSE GRADED BASECOURSE
DGS	DENSE GRADED SUB-BASE
DP	DOWNPIPE
e	EXISTING
FFL	FINISHED FLOOR LEVEL
GTD	GRADED TRENCH DRAIN
GSP	GRADED SURFACE INLET PIT
HYD	HYDRANT
IJ	ISOLATING JOINT
IK	INTEGRAL KERB
IL	INVERT LEVEL
IP	INTERSECTION POINT
KIP	KERB INLET PIT
KO	KERB ONLY
K&G	KERB & GUTTER
KR	KERB RETURN
LS	LONGITUDINAL SECTION
NGL	NATURAL GROUND LEVEL
OPF	OVERLAND FLOW PATH
OSD	ON-SITE DETENTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RK	ROLL KERB & GUTTER
RL	REDUCED LEVEL
RW	RETAINING WALL
RWT	RAINWATER TANK
SJ	SAWN CONTROL JOINT
SMH	SEWER MAN HOLE
SW	STORMWATER
SWP	STORMWATER PIT
SWRM	STORMWATER RISING MAIN
SWS	STORMWATER SUMP
SV	STOP VALVE
TOK	TOP OF KERB
TOW	TOP OF WALL
TP	TANGENT POINT
UPVC	UNPLASTICISED POLYVINYL
CHRLORIDE	
UNO	UNLESS NOTED OTHERWISE
WPJ	WEAKENED PLANE JOINT

LEGEND

AAPT INE		AAPT	
COMMS LINE		C	
ELECTRICAL LINE		E	
FIRE LINE		F	
GAS LINE		G	
WATER LINE		W	
NBN LINE		NBN	
OPTUS LINE		OP	
TPG LINE		TPG	
TELECOMMUNICATION LINE		T	
OVERFLOW LINE		OFF	
SEWER LINE		S	
SEWER EXISTING LINE		EX.S	
SUBSOIL DRAINAGE LINE		SSD	
GRATED SURFACE INLET PIT			
KERB INLET PIT			
TELEPHONE PIT			
DOWN PIPE		DP	
FLOOR WASTE		FW	

SERVICES SHOWN ON PLAN ARE INDICATIVE. EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.



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CONSULTING STRUCTURAL & CIVIL ENGINEERS
583 DARLING STREET ROZELLE NSW 2039
tel: (02) 9555 7230 email : office@birzulisassociates.com
www.birzulisassociates.com

PROJECT
**Pacific Brook Christian School,
Muswellbrook - STAGE 1**
72 - 74 Maitland Street, Muswellbrook NSW

TITLE
**CONSTRUCTION NOTES
- SHEET 01**

SCALES
as noted @ A1

DATE
APR, 2021

DRAWN
C.KE

DESIGN
C.A

VERIFIED
-

APPROVED
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CHEMICAL AND MASONRY ANCHORS

- ALL ANCHORS SHALL BE SUBJECT TO THE APPROVAL OF THE SUPERINTENDENT.
- CHEMICAL ANCHORS SHALL CONSIST OF A THREADED MILD STEEL ROD OF THE SIZE NOMINATED ON THE DRAWINGS EMBEDDED IN AND CHEMICALLY BONDED TO THE CONCRETE. THE CHEMICALS USED SHALL BE SUCH THAT THEY DO NOT DETRIMENTALLY AFFECT THE SURROUNDING CONCRETE. THE ROD SHALL BE HOT DIP GALVANISED UNLESS NOTED OTHERWISE.
- MASONRY ANCHOR SIZES GIVEN ON THE STRUCTURAL DRAWINGS REFER TO THE BAR DIAMETER REQUIRED.
- ALL ANCHORS SHALL BE CAPABLE OF DEVELOPING A WORKING LOAD CAPACITY IN SHEAR AND TENSION AT LEAST 80% OF THE MAXIMUM PERMISSIBLE VALUES FOR THE THREADED ROD OR BOLT SIZE NOMINATED.
- ALL ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
- HOLES DRILLED FOR ANCHORS SHALL NOT PENETRATE REINFORCEMENT IN SUSPENDED CONCRETE SLABS, BEAMS, COLUMNS AND WALLS. ANY HOLES WHICH ARE FOUND TO CLASH WITH SUCH REINFORCEMENT SHALL BE RELOCATED AS NECESSARY AND THE INITIAL HOLE SHALL BE PATCHED TO THE APPROVAL OF THE SUPERINTENDENT.

MASONRY FLEXIBLE ANCHORS

- ALL ANCHORS SHALL BE SUBJECT TO THE APPROVAL OF THE SUPERINTENDENT.
- ALL ANCHORS SHALL BE MANUFACTURED FROM HOT DIP GALVANISED STEEL PLATE.
- ALL ANCHORS SHALL PERMIT HORIZONTAL AND VERTICAL MOVEMENT IN THE PLANE OF THE WALL BUT SHALL RESIST MOVEMENT IN A PERPENDICULAR DIRECTION TO THE PLANE OF THE WALL, UNLESS NOTED OTHERWISE.
- THE ANCHORS SHALL HAVE THE FOLLOWING MINIMUM LATERAL WORKING LOAD CAPACITIES TO RESIST FORCES IN A PERPENDICULAR DIRECTION TO THE PLANE OF THE WALL:

AT VERTICAL CONTROL JOINTS - 0.30 kN
ALL OTHER ANCHORS - 0.40 kN

MASONRY RETAINING WALLS

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3700. MASONRY UNITS SHALL COMPLY WITH AS 4455. WALL TIES SHALL COMPLY WITH AS 2699.
- CONCRETE MASONRY BLOCKS SHALL BE OF A MINIMUM COMPRESSIVE STRENGTH GRADE 15 IN ACCORDANCE WITH AS 2733.
- MORTAR FOR STRUCTURAL CONCRETE MASONRY WALLS SHALL CONSIST OF A 1 PART OF CEMENT TO 0.25 PARTS OF HYDRATED LIME TO 3 PARTS WELL-GRADED SAND. ALL MORTAR SHALL CONFORM TO THE REQUIREMENTS OF AS 3700. MORTAR ADMIXTURES SHALL NOT BE USED WITHOUT THE WRITTEN APPROVAL OF THE SUPERINTENDENT.
- NO CHASES OR RECESSES ARE PERMITTED IN LOAD BEARING AND STRUCTURAL MASONRY WITHOUT THE WRITTEN APPROVAL OF THE SUPERINTENDENT.
- ALL LOAD BEARING AND STRUCTURAL MASONRY SHALL BE LAID ON FULL BEDS OF MORTAR AND ALL PERPENDS SHALL BE SOLIDLY FILLED WITH MORTAR.
- PROVIDE VERTICAL CONTROL JOINTS AT 8m MAXIMUM CENTRES, AND 5M MAXIMUM FROM CORNERS IN MASONRY WALLS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- CORE FILL CONCRETE FOR CONCRETE MASONRY WALLS SHALL BE IN ACCORDANCE WITH AS 3700 WITH A MINIMUM CHARACTERISTIC COMPRESSIVE STRENGTH OF MINIMUM 25 MPa UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE CONCRETE CORE FILL SHALL HAVE A SLUMP OF 230mm +/- 30mm AND THE MAXIMUM SIZE OF AGGREGATE SHALL BE 10mm. CONCRETE SHALL HAVE A MINIMUM CEMENT CONTENT OF 300 kg/m³.
- REINFORCEMENT FOR CONCRETE MASONRY WALLS SHALL BE SECURELY TIED IN POSITION. PROVIDE 50mm COVER TO THE REINFORCEMENT FROM THE RETAINING FACE OF THE WALL UNLESS NOTED OTHERWISE.
- CONCRETE MASONRY WALLS WHICH ARE TO BE CORE FILL CONCRETE SHALL HAVE CORES CLEANED OF ALL MORTAR PROTRUSIONS AND SHALL BE FILLED WITH CORE FILL CONCRETE IN LIFTS OF NOT MORE THAN 3000mm IN HEIGHT. CORE FILL CONCRETE SHALL BE THOROUGHLY COMPACTED IN PLACE BY INTERNAL VIBRATORS. ALL CORES ARE TO BE FILLED WITHOUT THE FORMATION OF VOIDS. CLEAN-OUT HOLES SHALL BE PROVIDED IN THE BACK-FILLED SIDE AT THE BASE OF RETAINING WALLS.
- DO NOT BACKFILL RETAINING WALLS UNTIL AT LEAST 14 DAYS HAVE ELAPSED AFTER THE COMPLETION OF THE CORE CONCRETE FILLING OF THE WALLS UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.
- DO NOT BACKFILL RETAINING WALLS (OTHER THAN CANTILEVER WALLS) UNTIL A MINIMUM OF SEVEN DAYS HAVE ELAPSED FROM THE TIME OF COMPLETION OF THE FLOOR CONSTRUCTION AT THE TOP AND BOTTOM OF THE WALL.
- BACKFILL TO RETAINING WALLS SHALL BE A HIGHLY PERMEABLE GRANULAR MATERIAL. PROVIDE A SUBSOIL DRAIN AT THE BASE OF THE WALL CONNECTED TO THE DRAINAGE SYSTEM UNLESS NOTED OTHERWISE.

CONCRETE

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- CONCRETE QUALITY:

CLASS = NORMAL
SLUMP = 80mm
MAXIMUM SIZE OF AGGREGATE IN STRUCTURAL CONCRETE = 20mm U.N.O.
CEMENT TYPE = SL
ADMIXTURES = NIL, UNLESS NOTED OTHERWISE OR APPROVED IN WRITING.

FOR CONCRETE CAST IN CONTACT WITH GROUND PROVIDE THE FOLLOWING ADDITIONAL PROPERTIES:
MINIMUM CEMENT CONTENT = 330 kg/m³
MAXIMUM WATER/CEMENT RATIO = 0.50

CONCRETE SHALL HAVE A CHARACTERISTIC COMPRESSIVE STRENGTH AT 28 DAYS (F_C) AS SHOWN IN THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

ELEMENT	f _c MPa (28 Days)
BORED PIERS	32
FOOTINGS	32
BLOCKWROK WALLS	32

- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 3600.
- CLEAR CONCRETE COVER IN MM TO THE REINFORCEMENT SHALL BE AS FOLLOWS (UNLESS NOTED OTHERWISE ON THE DRAWINGS):

EXPOSURE CLASSIFICATION TO AS3600	CAST AGAINST FORMORK			CAST AGAINST GROUND	
	INTERIOR	EXTERIOR	CONTACT WITH GROUND	PROTECTED BY MEMBRANE	NO MEMBRANE
A1	20			30	
A2	25	30	30		50
B1		40			
B2		45			

EXPOSURE CLASSIFICATION FOR EXTERIOR CONCRETE - B1
EXPOSURE CLASSIFICATION FOR INTERIOR CONCRETE - A2

- ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS. PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS. IN EXPOSURE CONDITIONS GREATER THAN B1 USE ONLY PLASTIC CHAIRS.
- CONCRETE SIZES SHOWN DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.
- FOR CHAMFERS, DRIP GROOVES, REGLETS, ETC., REFER TO ARCHITECT'S DETAILS, MAINTAIN COVER TO REINFORCEMENT AT THESE DETAILS.
- NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE SUPERINTENDENT.
- THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- CONCRETE CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE SUPERINTENDENT.
- CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 7 DAYS, AND PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 14 DAYS FOLLOWED BY GRADUAL DRYING OUT. APPROVED SPRAYED ON CURING COMPOUNDS MAY BE USED WHERE NO FLOOR FINISHES ARE PROPOSED. POLYTHENE SHEETING OR WET HESSIAN MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.
- CONSTRUCTION SUPPORT PROPPING IS TO BE LEFT IN PLACE WHERE NEEDED TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING. NO MASONRY OR PARTITION WALLS ARE TO BE CONSTRUCTED ON SUSPENDED LEVELS UNTIL ALL PROPPING IS REMOVED AND THE MEMBER HAS ABSORBED ITS DEAD LOAD DEFLECTION.
- THE SUPERINTENDENT SHALL BE GIVEN 48 HOURS NOTICE FOR REINFORCEMENT INSPECTION AND CONCRETE SHALL NOT BE DELIVERED UNTIL FINAL APPROVAL OBTAINED.
- CONDUITS, PIPES ETC., SHALL ONLY BE LOCATED IN THE MIDDLE ONE THIRD OF SLAB DEPTH AND SPACED AT NOT LESS THAN 3 DIAMETERS. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE COVER TO THE REINFORCEMENT.
- REINFORCEMENT SYMBOLS:

S DENOTES GRADE 230 S HOT ROLLED DEFORMED BARS TO AS 1302
N DENOTES GRADE 500 N DEFORMED BARS TO AS 4671
R DENOTES GRADE 230 R HOT ROLLED PLAIN BARS TO AS 1302
SL/RL/L DENOTES GRADE 500 L DEFORMED RIBBED WELDED MESH TO AS 4671

THE FIGURES FOLLOWING THE SYMBOL ARE THE NUMBER OF MILLIMETRES IN THE BAR DIAMETER. THE FIGURES FOLLOWING THE MESH SYMBOL SL, RL, L IS THE REFERENCE NUMBER FOR MESH TO AS 4671.

- REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- SPICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN OR OTHERWISE APPROVED IN WRITING BY THE SUPERINTENDENT. LAPS SHALL BE IN ACCORDANCE WITH AS 3600 AND NOT LESS THAN 1.25 TIMES THE DEVELOPMENT LENGTH FOR EACH BAR.
- MESH REINFORCEMENT SHALL HAVE SPLICES MADE SO THAT THE OVERLAP, MEASURED BETWEEN THE OUTERMOST TRANSVERSE WIRES OF EACH SHEET OF MESH, IS NOT LESS THAN THE SPACING OF THOSE WIRES PLUS 50mm.
- WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE SUPERINTENDENT.
- JOGGLES TO BARS SHALL BE 1 BAR DIAMETER OVER A LENGTH OF 12 BAR DIAMETERS.
- BUNDLED BARS SHALL BE TIED TOGETHER AT 30 BAR DIAMETER CENTRES WITH THREE WRAPS OF TIE WIRE.
- WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12 AT 400mm DISTRIBUTION BARS UNLESS NOTED OTHERWISE. SPLICE DISTRIBUTION BARS 500mm WHERE NECESSARY AND PROVIDE 500mm SPLICE LENGTH WITH MAIN BARS UNLESS NOTED OTHERWISE.
- ALL DOWELS PLACED IN JOINTS IN CONCRETE SLABS SHALL BE PLACED WITHIN THE FOLLOWING TOLERANCES:

LEVEL +/- 1 DEGREE
LINE +/- 1 DEGREE
POSITION +/- 5 mm
- SLIDING BEARING STRIPS SUPPORTING CONCRETE SLABS SHALL BE COMPOSED OF TWO LAYERS OF 0.4mm THICK GALVANISED STEEL PLATE WITH AN INTERMEDIATE LAYER OF GREASE (UNLESS NOTED OTHERWISE). THE STRIPS SHALL BE THE SAME WIDTH AS THE BEARING SURFACE.

SPECIFICATION FOR CONSTRUCTION OF TRAFFICABLE PAVEMENTS

- ALL WORK TO BE IN ACCORDANCE WITH THE SPECIFICATION.
- EARTHWORKS SHALL BE CARRIED OUT UNDER THE LEVEL OF CONTROL AS SPECIFIED BY THE GEOTECHNICAL ENGINEER.

SUBGRADE

- CLEAR THE AREA TO BE OCCUPIED BY THE PAVEMENT AND ITS ADJUNCTS. BREAK UP AND REMOVE FOUNDATIONS, SLABS, PAVING ETC. FOUND ON THE SURFACE OR WITHIN 300mm OF THE BASECOURSE. REMOVE ALL TOPSOIL AND ORGANIC MATTER AND GRUB OUT ALL ROOTS AND STUMPS. REMOVE ALL RUBBLE REMAINING FROM EXCAVATIONS.
- THE SUBGRADE MATERIAL (NATURAL GROUND BELOW EXCAVATIONS) SHALL BE THOROUGHLY COMPACTED BY PROOF ROLLING WITH A MINIMUM OF 8 PASSES OF A 10 TONNE DEAD WEIGHT STATIC SMOOTH DRUM ROLLER. THIS PROOF ROLLING SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEERING CONSULTANT, TO DETERMINE THE EXTENT OF REPLACEMENT OF ANY UNSUITABLE MATERIAL ENCOUNTERED. THE COST OF ALL SUCH WORK SHALL BE DEEMED TO BE INCLUDED IN THE CONTRACTORS TENDER.
- ANY SOFT, YIELDING, ORGANIC OR OTHER UNSUITABLE MATERIAL IN THE SUBGRADE SHALL BE REMOVED FOR A DEPTH OF AT LEAST 300mm AND HOLES SO FORMED SHALL BE FILLED WITH APPROVED FILLING COMPACTED IN 150mm LAYERS AS SPECIFIED BELOW.
- BRING ALL FILLING ON TO THE SITE UNLESS IT CAN BE PROVIDED FROM SPOIL RECOVERED FROM THE SITE. FILLING SHALL BE SOUND CLEAN STABLE MATERIAL, FREE OF PERISHABLE MATERIAL OR ANY OTHER MATERIAL THAT WILL NOT FORM STABLE FILL. THE FILL MATERIAL SHALL BE CAPABLE OF CONSOLIDATION SO THAT IT IS FIRM AND UNYIELDING THROUGHOUT ITS DEPTH.
- PLACE FILLING IN LAYERS NOT EXCEEDING 200mm THICK WHEN MEASURED LOOSE. BRING FILLING TO OPTIMUM MOISTURE CONTENT (+/- 2%) BY WATERING AND COMPACT EACH LAYER THOROUGHLY AND UNIFORMLY WITH A VIBRATING ROLLER.
- CONSOLIDATE EACH LAYER OF FILLING TO OBTAIN A UNIFORM DENSITY OF NOT LESS THAN 100% OF THE STANDARD MAXIMUM DRY DENSITY OF THE MATERIAL AS DETERMINED BY AS1289.5.1.1.

TESTING

- THE CONTRACTOR SHALL ALLOW FOR TESTING AT THE RATE OF ONE TEST PER 200 SQUARE METRES OF SURFACE AREA FOR EACH OF THE FOLLOWING FINISHED SURFACES, WITH A MINIMUM OF THREE TESTS FOR EACH COMPACTED LAYER.

- SUBGRADE
- SUB-BASECOURSE
- BASECOURSE
- THE CONTRACTOR SHALL ALLOW FOR TESTING AT THE RATE OF ONE TEST PER 30 CUBIC METRES FOR THE FILLING, WITH A MINIMUM OF THREE TESTS FOR EACH COMPACTED LAYER.
- THE LOCATION OF ALL TESTS SHALL BE TO THE APPROVAL OF THE SUPERINTENDENT. TESTING SHALL NOT BE LESS THAN AS SPECIFIED IN TABLE 8.1 OF AS3798.
- THE CONTRACTOR SHALL OBTAIN FROM A REGISTERED N.A.T.A. TESTING AUTHORITY DOCUMENTED TEST EVIDENCE PROVING THAT THE COMPACTION FIGURES AS REQUIRED FOR THE MATERIALS SPECIFIED HEREIN HAVE BEEN OBTAINED. THE COST OF SUCH WORK SHALL BE DEEMED TO BE INCLUDED IN THE CONTRACTOR'S TENDER. TEST RESULTS FOR EACH STAGE (I.E. SUBGRADE, SUBBASE, BASECOURSE AND FILL WHERE APPLICABLE) TO BE SUBMITTED TO THE SUPERINTENDENT PRIOR TO PROCEEDING TO THE NEXT STAGE OF THE WORKS.

SPECIFICATIONS FOR FLEXIBLE TRAFFICABLE PAVEMENTS

- ASPHALTIC CONCRETE (ACXX) SHALL BE IN ACCORDANCE WITH DOCUMENTS SUCH AS "GOOD ASPHALTIC PAVING PRACTICE" AS DESCRIBED IN AS2150 AND CURRENT RMS SPECIFICATIONS.
- TACK COATS SHALL BE APPLIED TO THE RELEVANT SUBSTRATE TO LEAVE A RESIDUAL BITUMENT CONTENT OF 0.1 TO 0.2 LITRES PER SQUARE METER, BRUSH AWAY POOL BITUMEN MIX. JOINTS SHALL BE KEPT TO A MINIMUM AND THE DENSITY AND SURFACE FINISH AT JOINTS SHALL BE SIMILAR TO THAT OF THE LAYER. COMAPCTION SHALL BE IN ACCORDACNE WITH THE REQUIREMENTS OF AS2734 AND ALL COMPACTION SHALL BE UNDERTAKEN USING SELF-PROPELLED ROLLERS WHERE INITIAL ROLLING SHALL BE UNDERTAKEN BEFORE THE MID-DEPTH TEMPERATURE HAS DROPPED BELOW 105 DEGREES, THE SECONDARY ROLLING SHALL BE COMPLETED BEFORE THE MID-DEPTH TEMPERATURE HAS DROPPED BELOW 80 DEGREES. THE FINISHED AS WEARING SURFACE SHALL BE SMOOTH, DENSE, HAVE CORRECT FALLS, AND SHALL NOT VARY MORE THAN

- 3mm IN VERTICAL LEVEL AS REQUIRED,
- 3mm WHEN MEASURED USING A 3m LONG STRAIGHT EDGE LAID TRANSVERSELY
- 5mm WHEN MEASURED USING A 3m LONG STRAIGHT EDGE LAID LONGITUDINALLY
- MINUS 0mm TO PLUS 2mm ADJACENT TO ELEMENTS SUCH AS KERBS TO AVOID LOCALISED POOLING OF WATER
- MINUS 0mm FROM THE SPECIFIED THICKNESS

WE ALSO RECOMMEND MARKING PAINT IS APPLIED AFTER CURING HAS OCCURED AND NOT LESS THAN BEFORE AS REQUIRED BY THE MANUFACTURER OF THE MARKING PAINT. WE DO NOT RECOMMEND PLANT OR EQUIVALENT HEAVY MACHINERY IS STORED ON THE NEWLY LAID FLEXIBLE PAVEMENT UNTIL PRACTICAL COMPLETION.

SUB-BASE

- THE SUB-BASECOURSE LAYER SHALL CONSIST OF COMPACTED THICKNESS OF CRUSHED ROCK IN ACCORDANCE WITH RTA QA SPECIFICATION 3051 AND RTA QA SPECIFICATION R71. THE MATERIAL USED FOR THIS COURSE SHALL BE A CLASS 2 DGS 20 IN ACCORDANCE WITH THE AFOREMENTIONED STANDARDS.

- DESIGN ORIGINAL SUBGRADE CBR = 3.0%
- DESIGN TRAFFIC LOADING = 1 X ??? ESA

BASE

- THE BASECOURSE LAYER SHALL CONSIST OF COMPACTED THICKNESS OF CRUSHED ROCK IN ACCORDANCE WITH RTA QA SPECIFICATION 3051 AND RTA QA SPECIFICATION R71. THE MATERIAL USED FOR THIS COURSE SHALL BE CLASS 1 DGB 20 IN ACCORDANCE WITH THE AFOREMENTIONED STANDARDS.

WEARING SURFACE

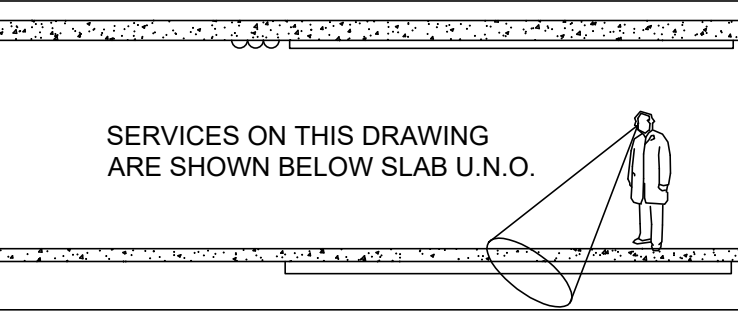
- THE WEARING SURFACE OF COMPACTED ASPHALTIC CONCRETE SHALL BE PROVIDED OVER A PRIME AND 7MM HOT BITUMEN TYPE SEAL IN ACCORDANCE WITH RTA QA SPECIFICATION R106.

SPECIFICATIONS FOR RIGID TRAFFICABLE PAVEMENTS

SUB-BASE

- THE SUB-BASECOURSE LAYER SHALL CONSIST OF COMPACTED THICKNESS OF CRUSHED ROCK IN ACCORDANCE WITH RTA QA SPECIFICATION 3051 AND RTA QA SPECIFICATION R71. THE MATERIAL USED FOR THIS COURSE SHALL BE A CLASS 1 DGS 20 IN ACCORDANCE WITH THE AFOREMENTIONED STANDARDS. THE SUB-BASE SHALL BE TOPPED WITH AN APPROVED SEAL COMMENSURATE FOR THE SUBSTRATE.

- DESIGN ORIGINAL SUBGRADE CBR = 3.0%
- DESIGN TRAFFIC LOADING = 1 X ??? ESA
- THE SPECIFIED BASE SHALL BE IN ACCORDANCE WITH RMS SPECIFICATIONS FOR THE ELEMENT.



PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

P3	REVISIONS AS REQUESTED	-	16/09/21
P2	STAGING UPDATED TO STAGE 1	-	05/07/21
P1	INFORMATION	-	21/05/21
ISSUE	DESCRIPTION	APPROVED	DATE

ARCHITECT

NBRSARCHITECTURE.

Sydney
61 2 9922 2344

nbrsarchitecture.com

BIRZULIS
ASSOCIATES

CONSULTING STRUCTURAL & CIVIL ENGINEERS

583 DARLING STREET ROZELLE NSW 2039
tel: (02) 9555 7230 email : office@birzulisassociates.com
www.birzulisassociates.com

PROJECT

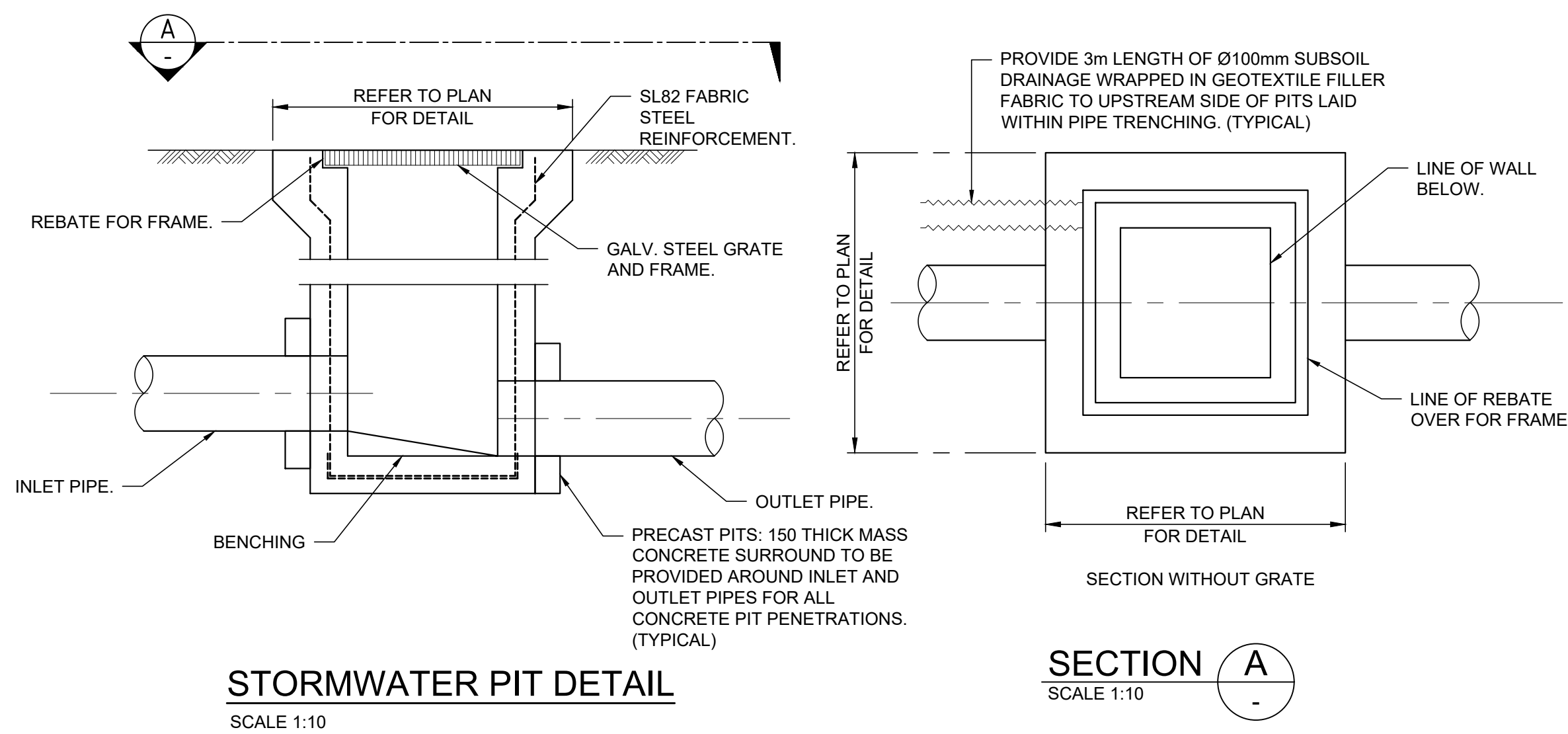
Pacific Brook Christian School,
Muswellbrook - STAGE 1

72 - 74 Maitland Street, Muswellbrook NSW

TITLE

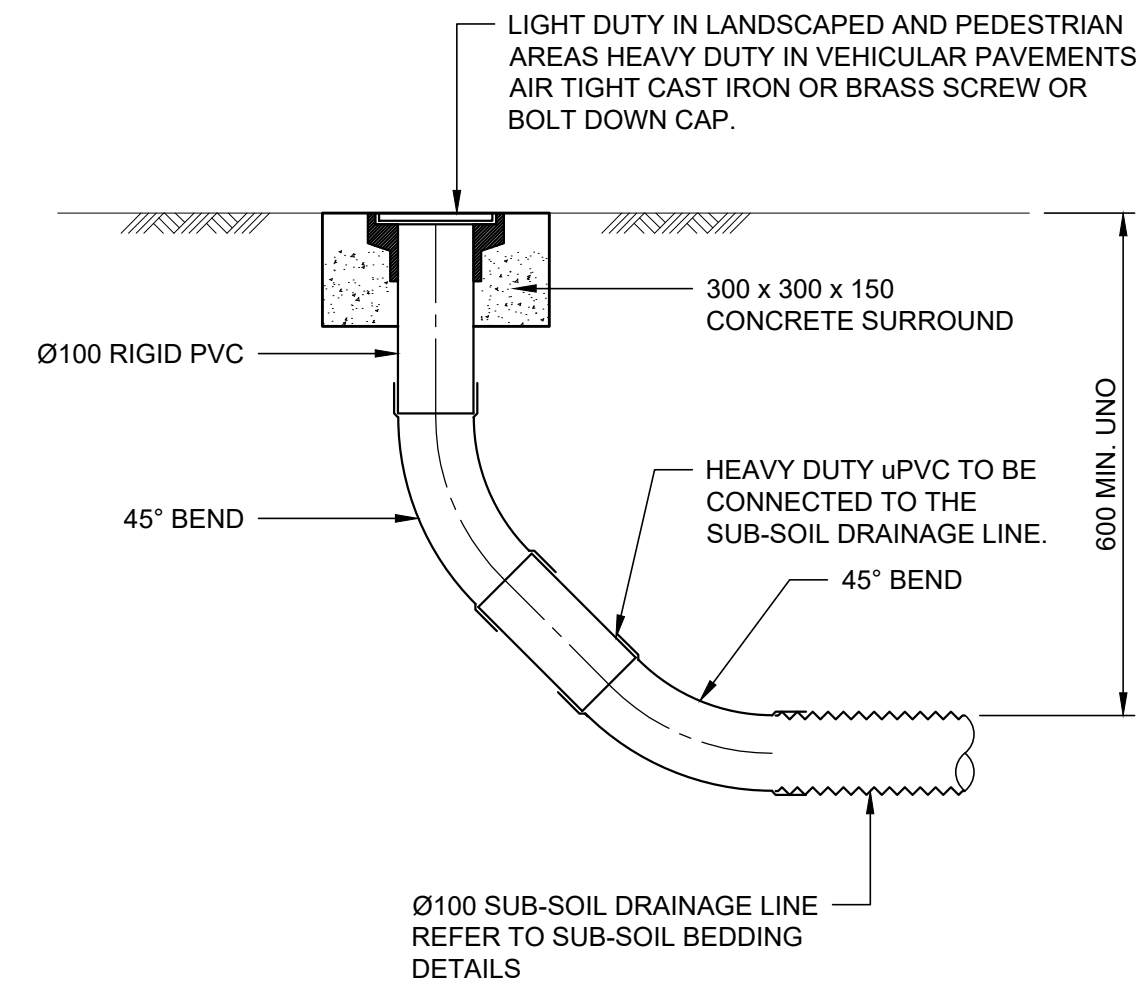
CONSTRUCTION NOTES
- SHEET 02

SCALES			DATE	
as noted @ A1			APR, 2021	
DRAWN	DESIGN	VERIFIED	APPROVED	
C.KE	C.A	-	-	
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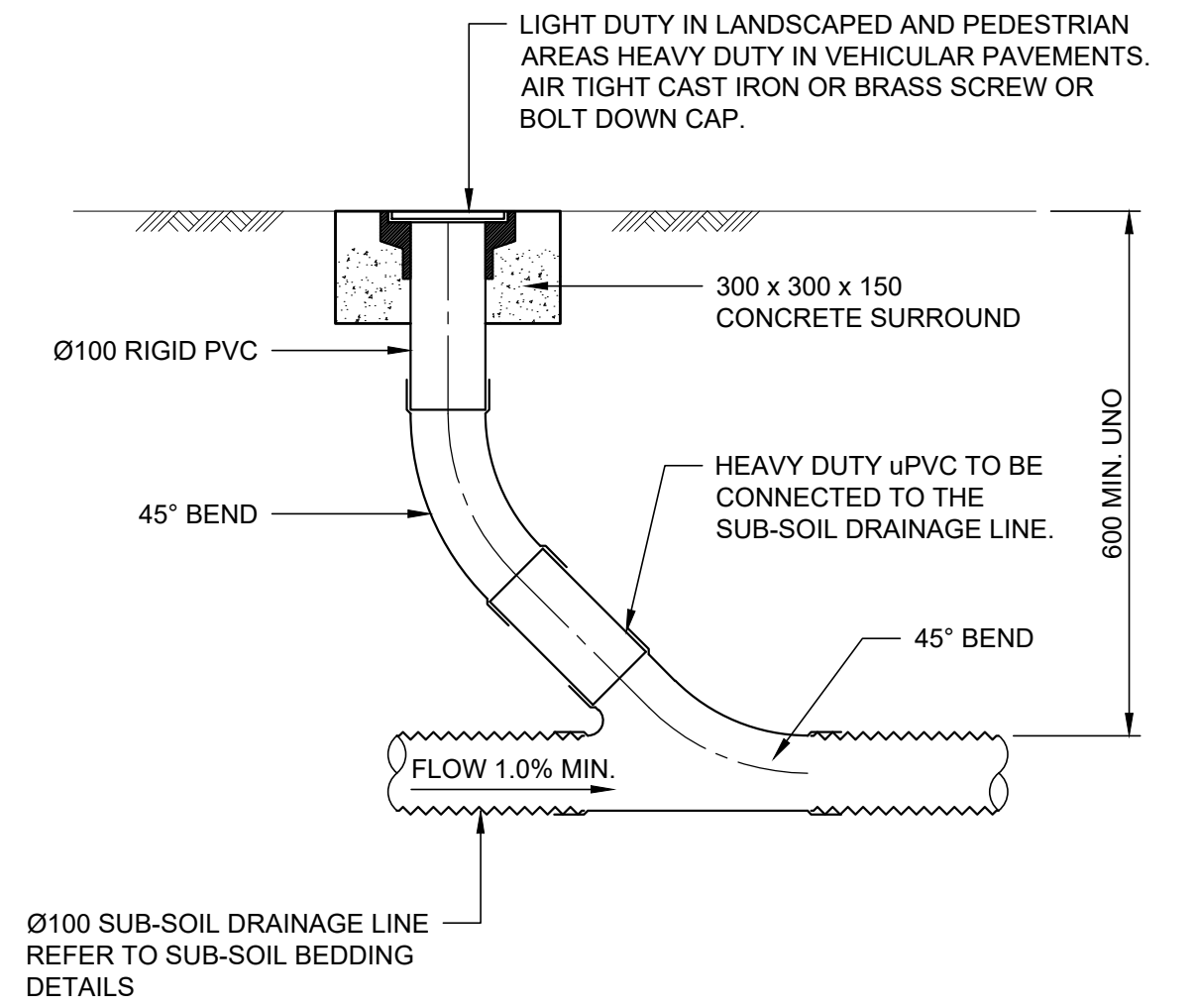
STEP IRONS DETAIL
SCALE 1:10

SECTION B
SCALE 1:10



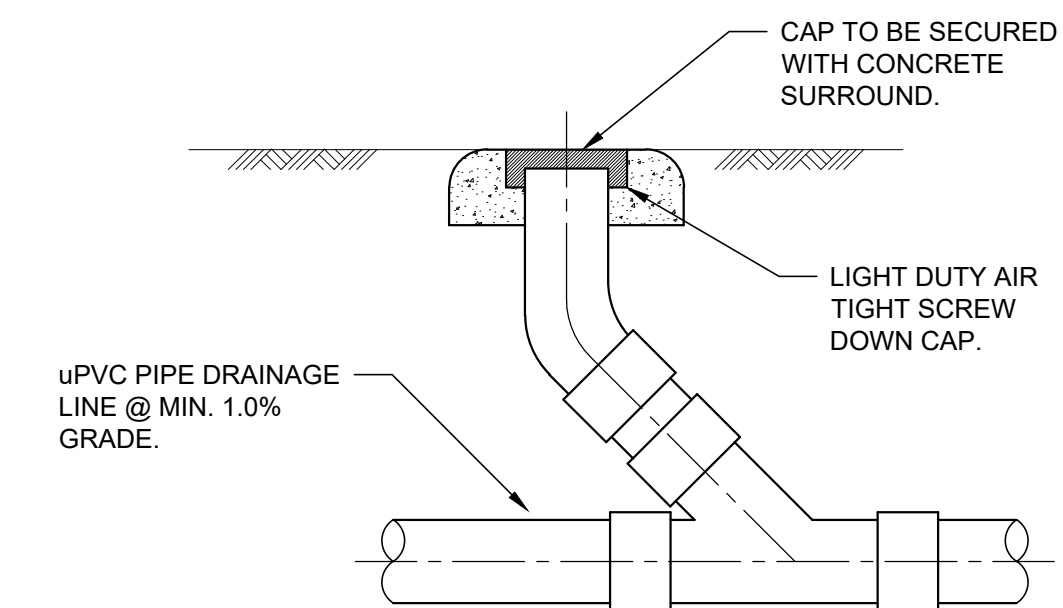
FLUSHING POINT (FP)

SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED

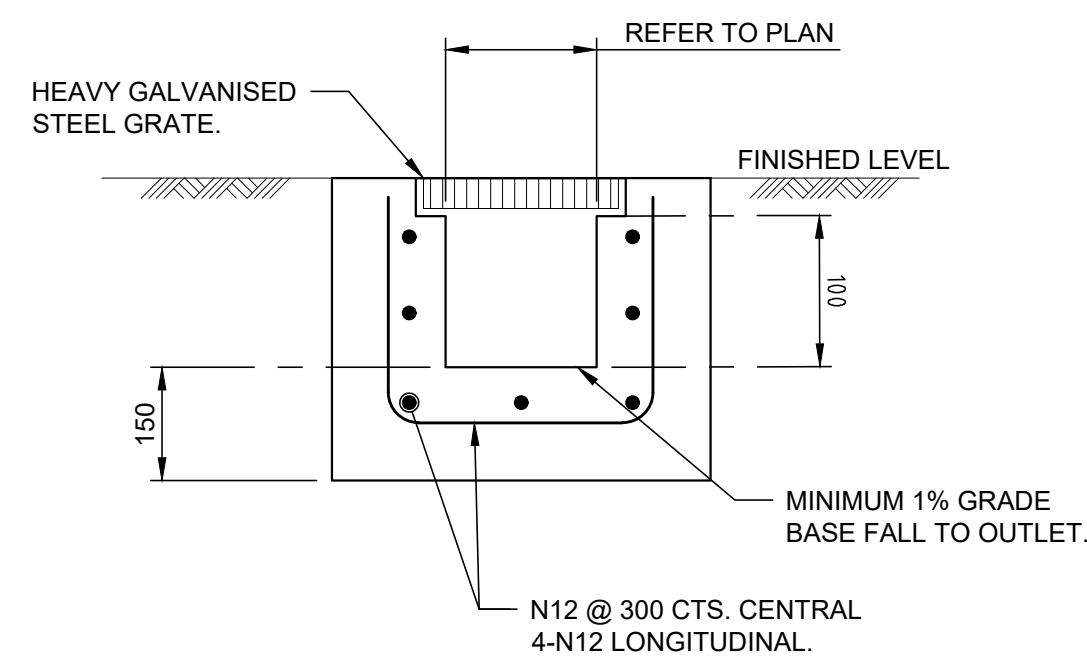


INTERMEDIATE RISER (IR)

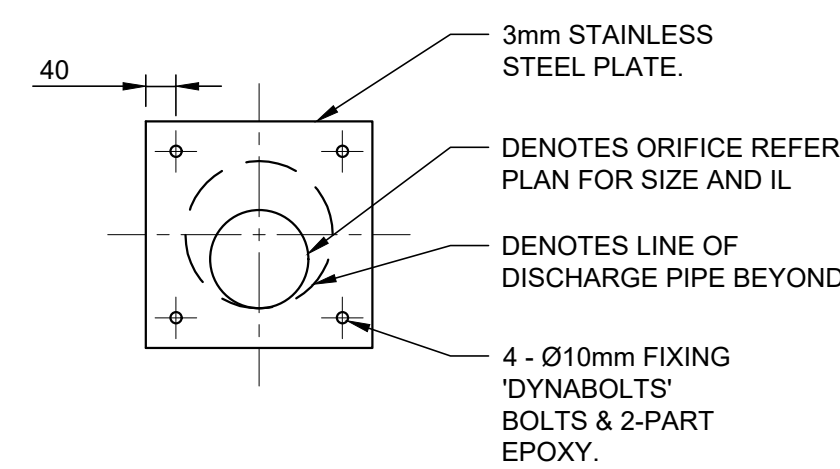
SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



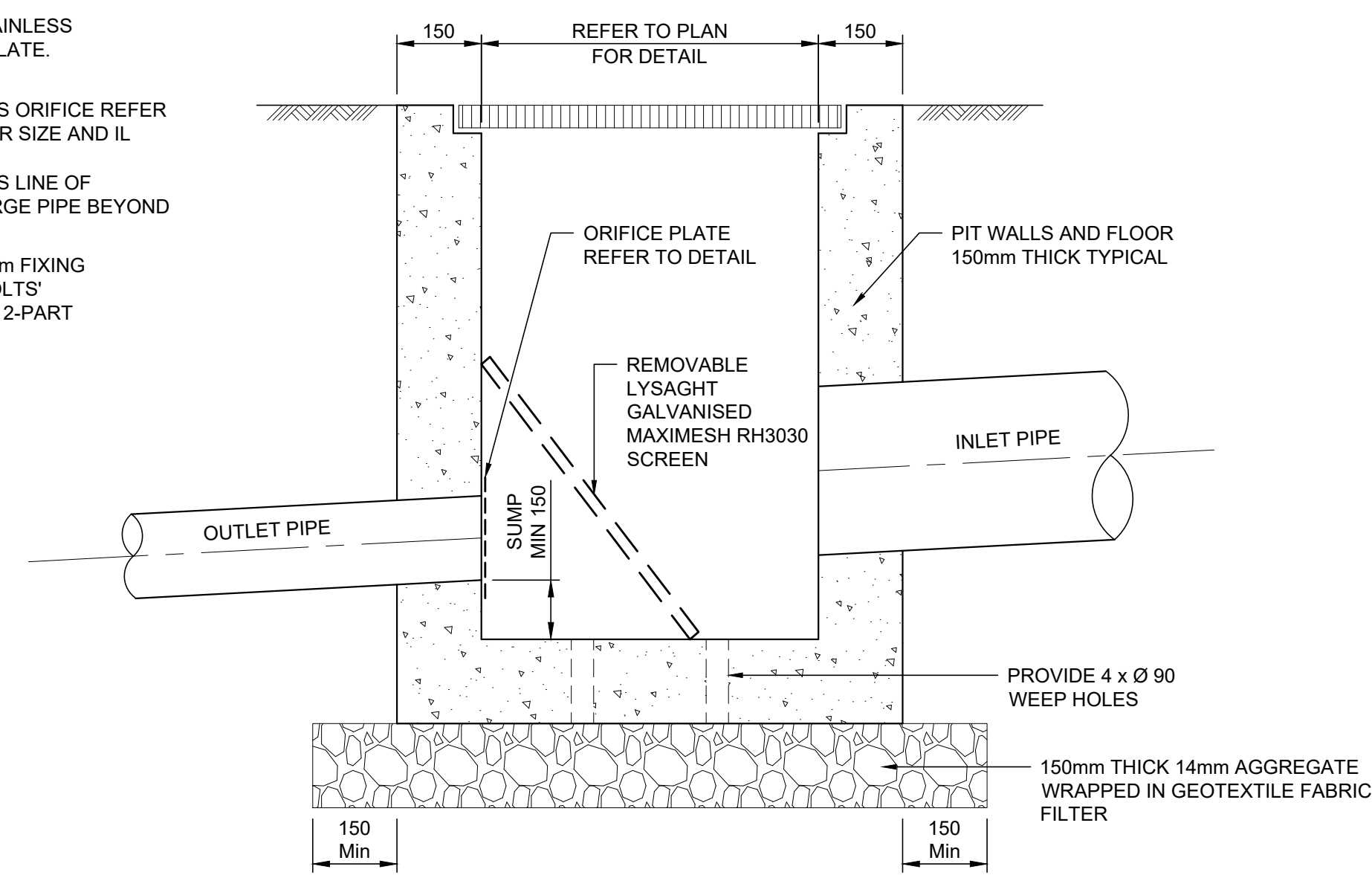
CLEANING EYE DETAIL
SCALE 1:10



TYPICAL GRATED DRAIN DETAIL
NOT TO SCALE



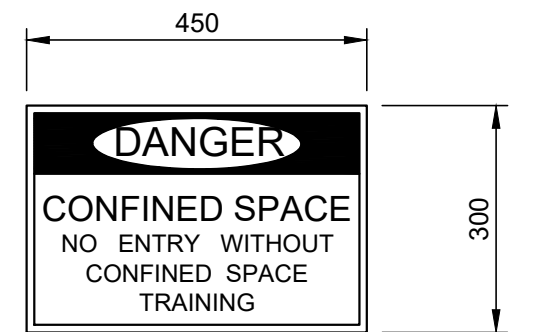
ORIFICE PLATE DETAIL
SCALE 1:10



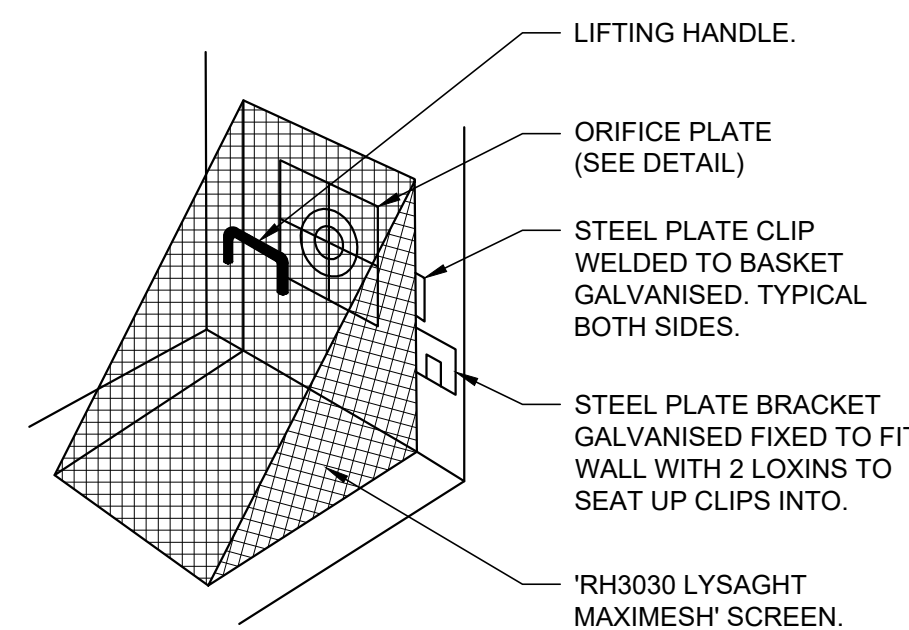
OSD DISCHARGE CONTROL PIT DETAILS
SCALE 1:10



OSD SIGN DETAIL
NOT TO SCALE

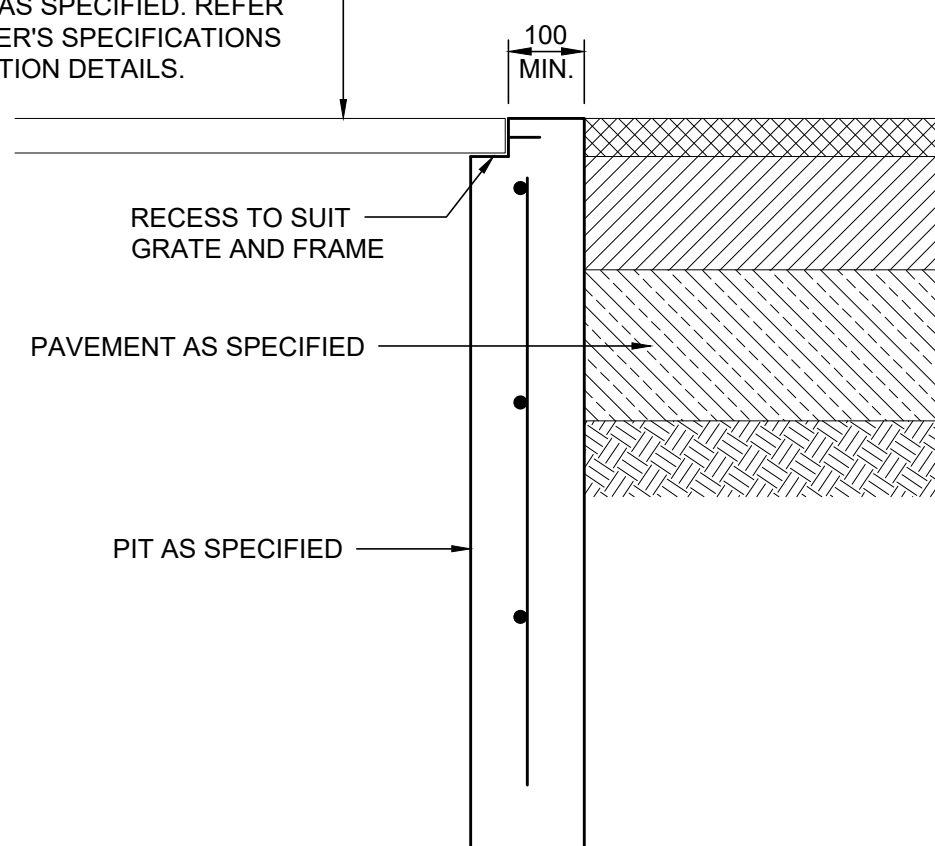


CONFINED SPACE SIGN DETAIL
SCALE 1:10



DEBRIS SCREEN DETAIL
NOT TO SCALE

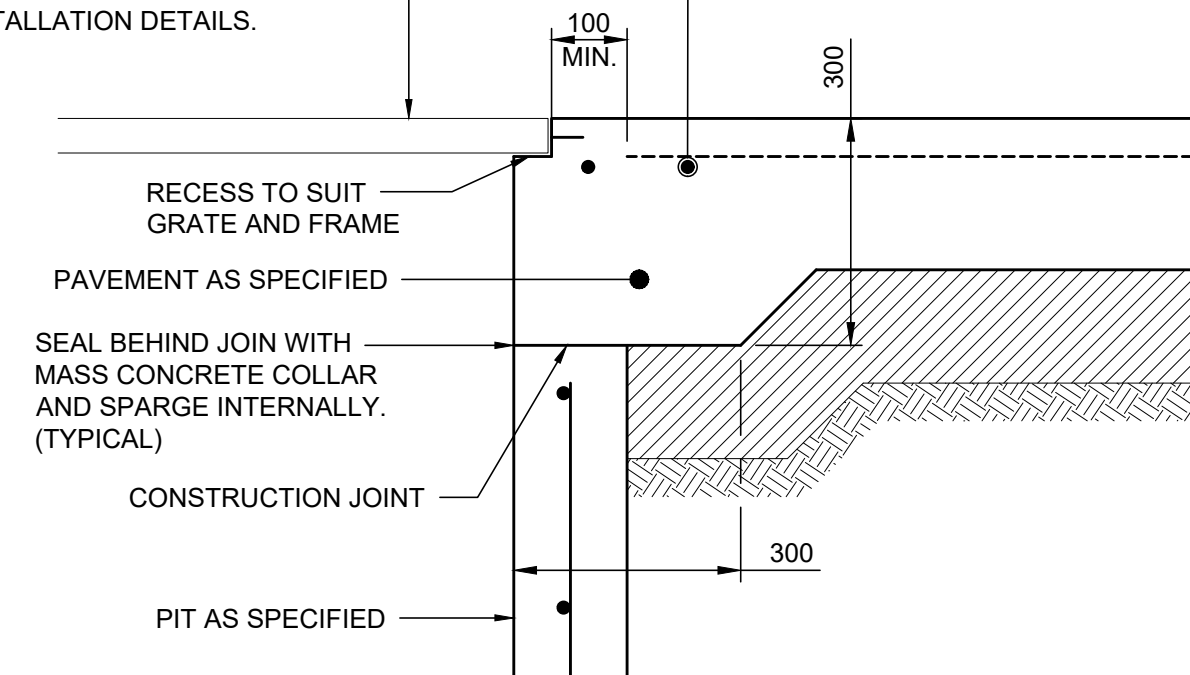
GRATE AND FRAME WITH SUITABLE LIFTING LUGS AS SPECIFIED. REFER MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION DETAILS.



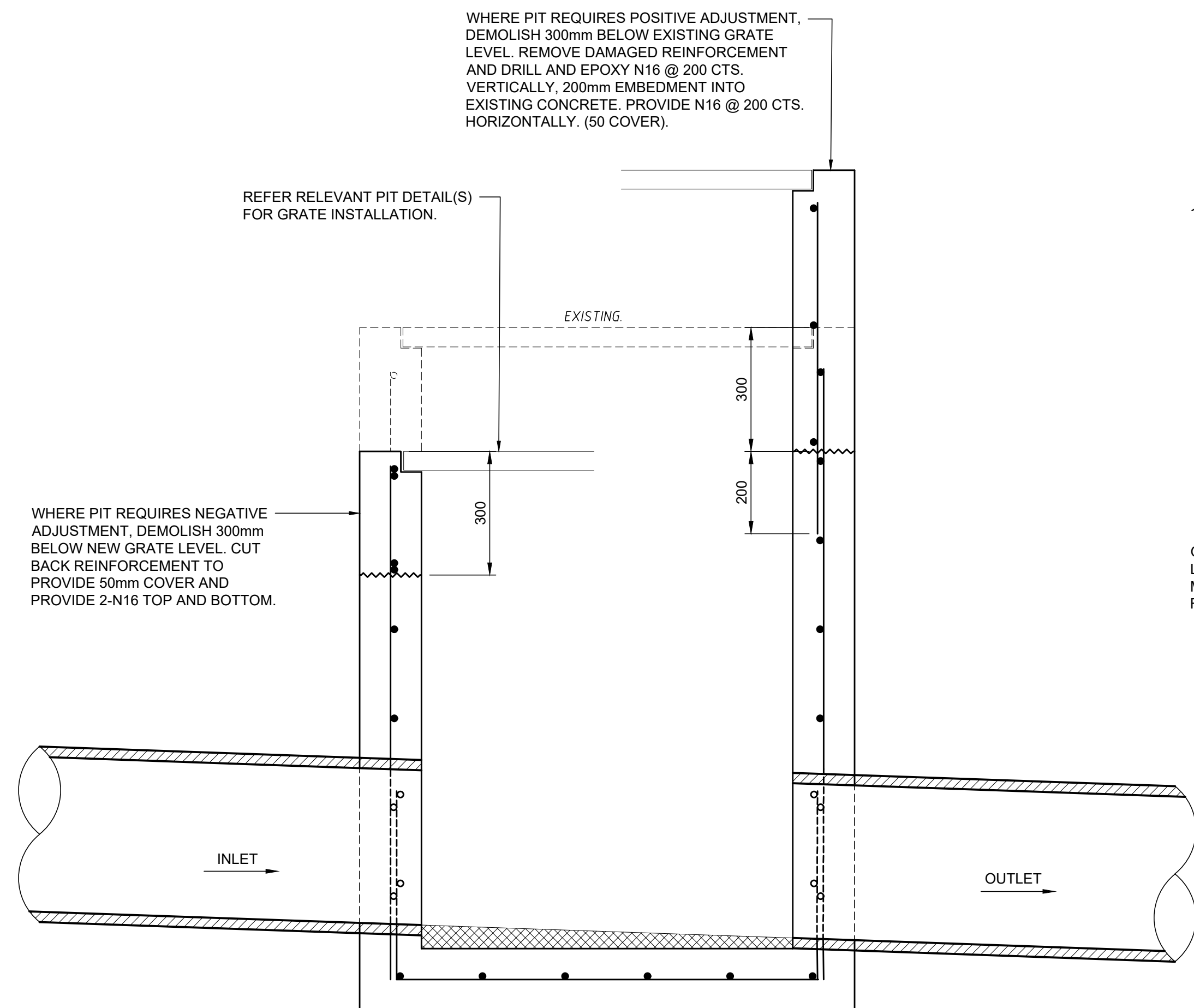
PIT INTERFACE - DETAIL 'A'

2-N16 MIN. 1500mm LONG TO EACH SIDE. (DO NOT CROSS CONSTRUCTION/POUR JOINTS).

GRATE AND FRAME WITH SUITABLE LIFTING LUGS AS SPECIFIED. REFER MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION DETAILS.



PIT INTERFACE - DETAIL 'B'



DRAINAGE PIT - LEVELS ADJUSTMENTS
ENSURE NEAT FINISH IS ACHIEVE AT INTERFACE WITH EXISTING. REFER RELEVANT PIT DETAIL(S) FOR GRATE INSTALLATION.

PRELIMINARY ISSUE
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ISSUE	DESCRIPTION	APPROVED	DATE
P3	REVISIONS AS REQUESTED	-	16/09/21
P2	STAGING UPDATED TO STAGE 1	-	05/07/21
P1	INFORMATION	-	21/05/21

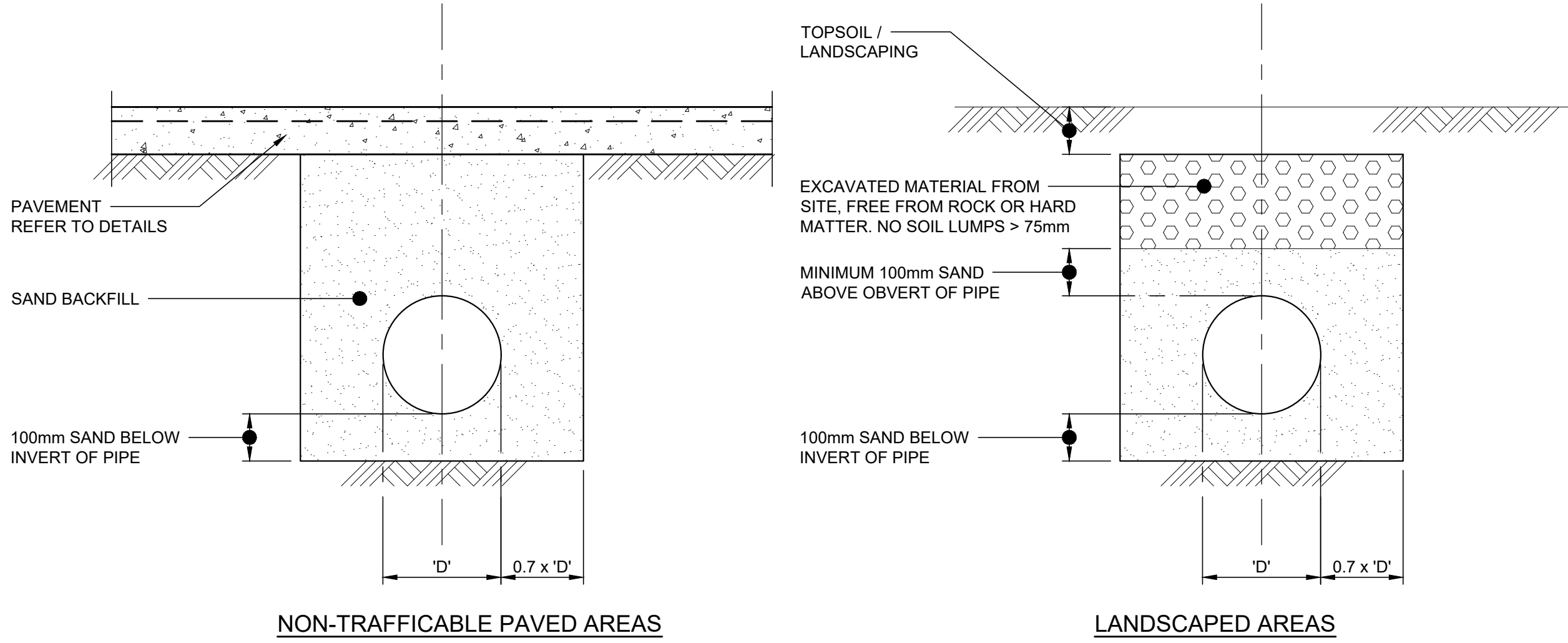
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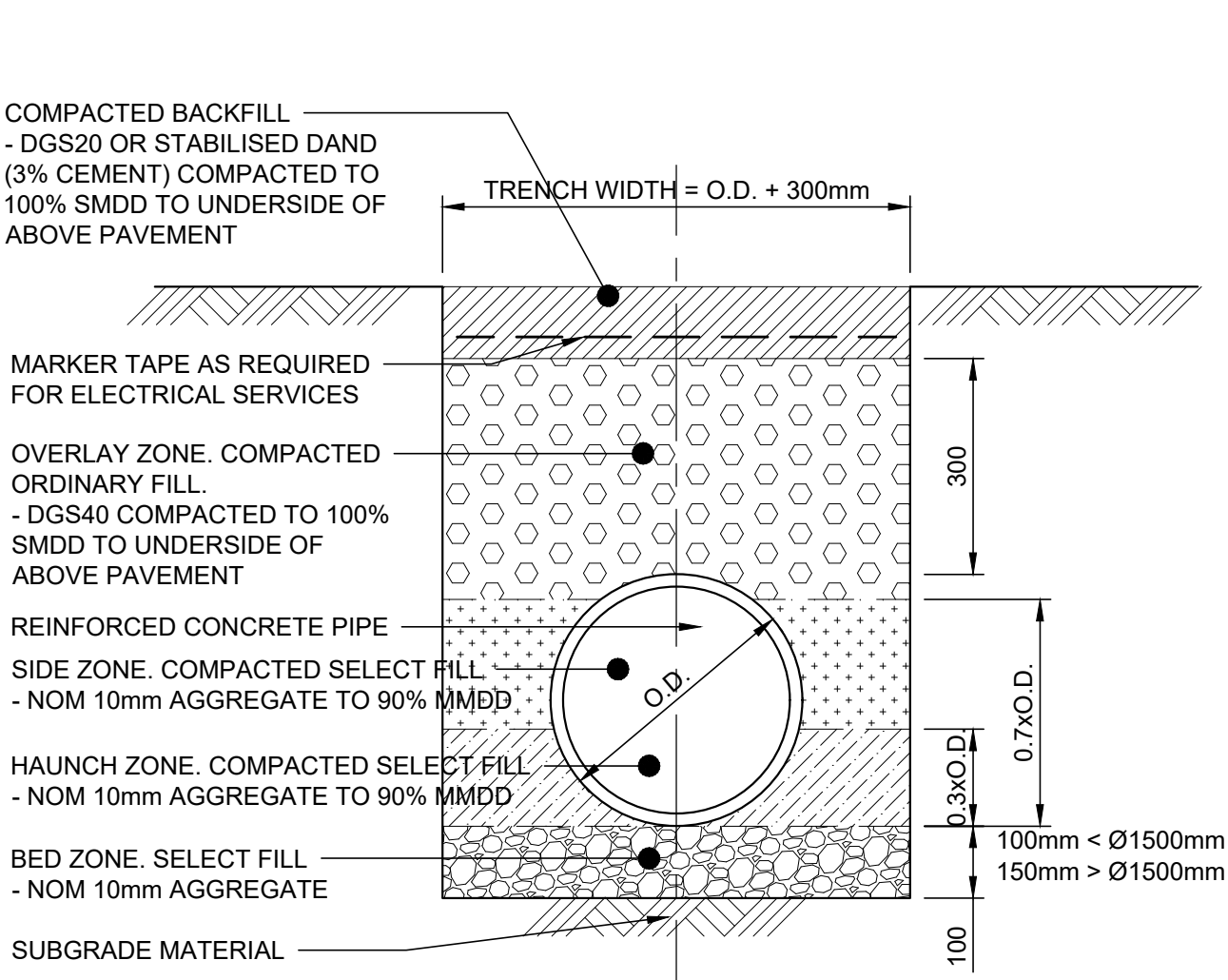
PROJECT	
Pacific Brook Christian School, Muswellbrook - STAGE 1	
72 - 74 Maitland Street, Muswellbrook NSW	

TITLE	
STORMWATER DRAINAGE DETAILS - SHEET 01	

SCALES		DATE	
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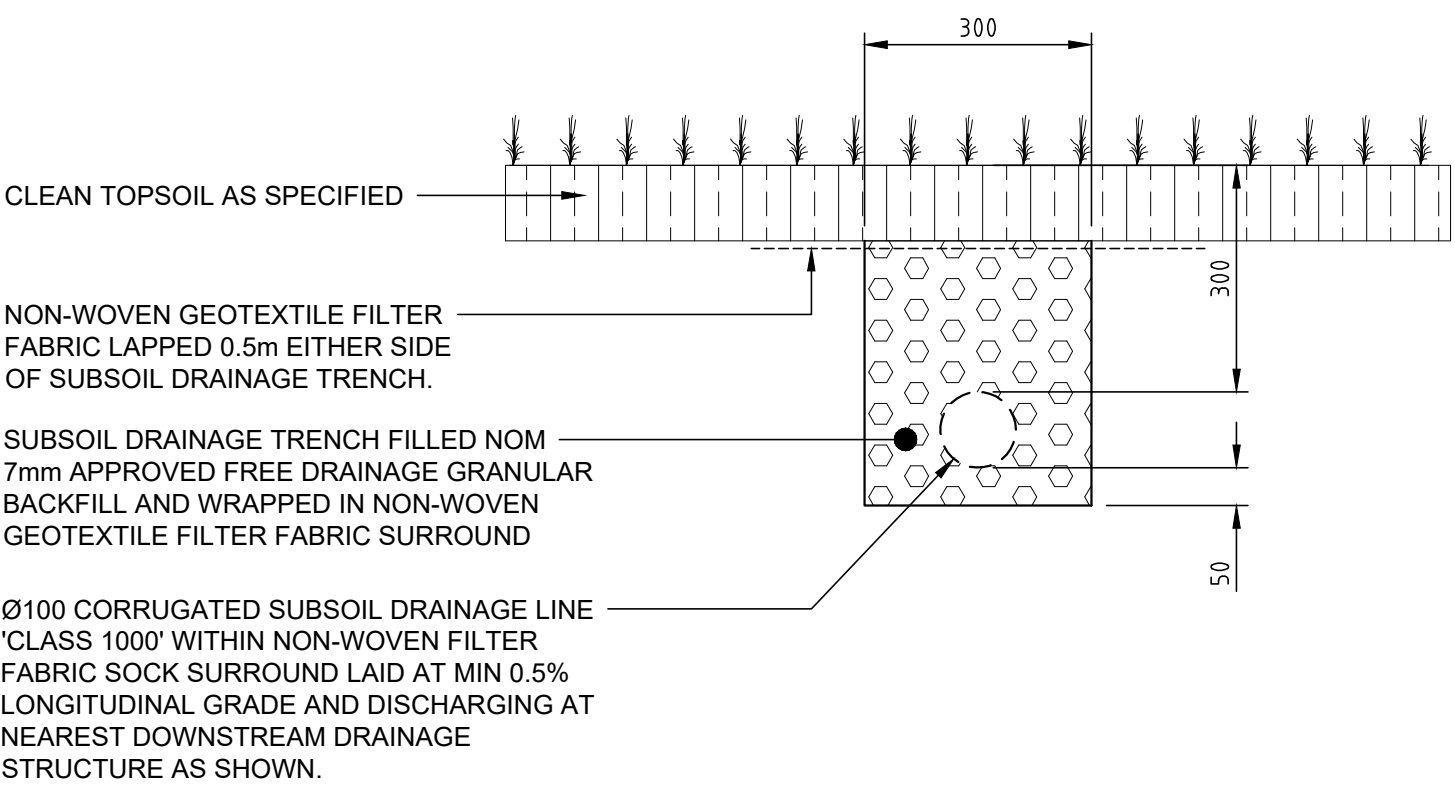


PIPE BACKFILLING DETAIL
NOT TO SCALE

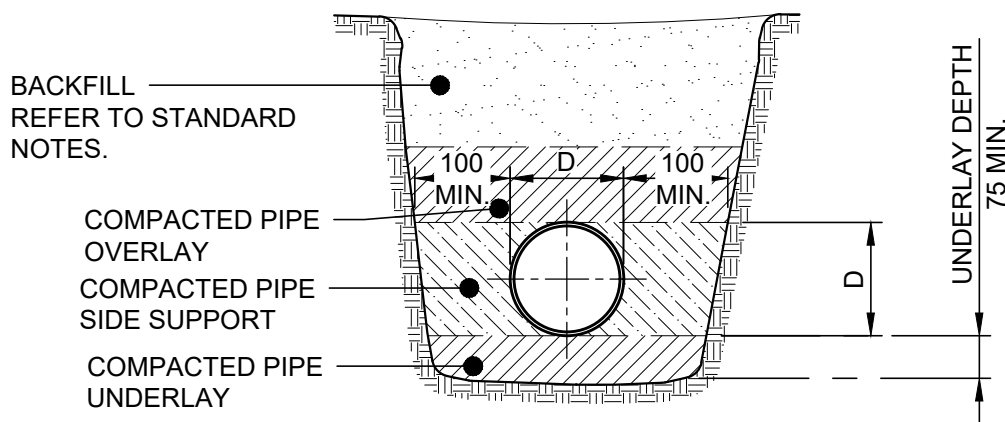


TYPICAL PIPE TRENCH - UNDER ROADS
NOT TO SCALE

- TRENCH WIDTH MAY NEED TO BE INCREASED SUBJECT TO ACHIEVING COMPACTION ENSURE MINIMUM 300mm CLEARANCE BETWEEN. WHEN USING MULTIPLE PIPES TO ACHIEVE ADEQUATE COMPACTION.
- MINIMUM PIPE COVER UNDER ROADS TO BE 600mm U.N.O. FOR CLASS '2' PIPES.
- THE CONTRACTOR SHALL ENSURE THAT SHORING OF TRENCHES IS INSTALLED AS REQUIRED BY STATUTORY REQUIREMENTS.
- ENSURE BACKFILLING COMPACTION MEETS THE FOLLOWING STANDARDS.
4.1. TRENCHES UNDER PAVED AREAS / BUILDING - 100% SMDD.



SUBSOIL DRAINAGE TRENCH - LANDSCAPING 'SSD'
CLEAROUT TO BE INSTALLED @ MAX. 30m CENTRES AND DISCHARGING TO DRAINAGE STRUCTURES @ MAX. 60m CENTRES.



uPVC STORMWATER LINE TRENCH DETAIL
SCALE 1:20
'D' - DIAMETER

DEVELOPMET SITE INFORMATION SUMMARY

TOTAL SITE AREA = 24211 m²
PRE - DEVELOPMENT IMPERVIOUS AREA = 1589 m²
POST - DEVELOPMENT IMPERVIOUS AREA = 2237 m²

ON-SITE DETENTION DESIGN SUMMARY

DRAINS MODEL HAS BEEN PREPARED FOR CALCULATION OF PRE & POST DEVELOPMENT FLOWS.
DEVELOPMENT SITE AREA DRAINING TO OSD = 1812 m²
DEVELOPMENT AREA BYPASSING OSD = 425 m²
UN-DEVELOPED AREA = 21974 m²
TOTAL OSD VOLUME REQUIRED = 12.1 m³
TOTAL OSD VOLUME PROVIDED = 17.6 m³

PRE & POST DEVELOPMENT FLOWS SUMMARY

AVERAGE RECURRENCE INTERVAL (ARI)	5 YEAR	10 YEAR	20 YEAR	100 YEAR
PRE - DEVELOPMENT FLOW (l/s)	171	235	328	522
POST - DEVELOPMENT FLOW (l/s)	168	234	324	515
STORAGE REQUIRED (m³)	5.4	6.7	8.2	12.1

WATER QUALITY DESIGN SUMMARY

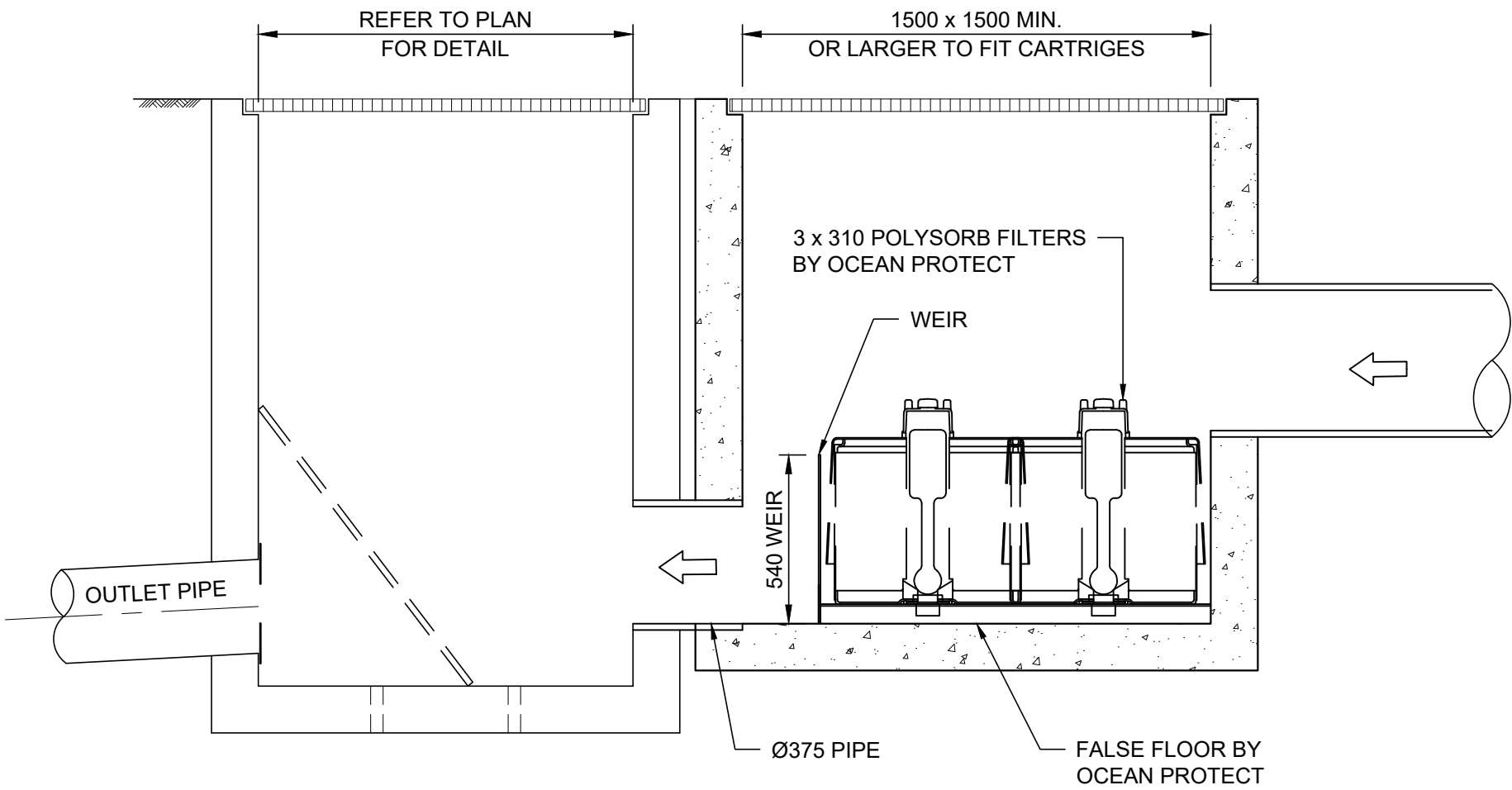
A MUSIC MODEL HAS BEEN PREPARED TO DETERMINE THE EFFECTIVENESS OF WATER QUALITY TREATMENT DEVICES FOR THE DEVELOPMENT.

TREATMENT EFFECTIVENESS SUMMARY

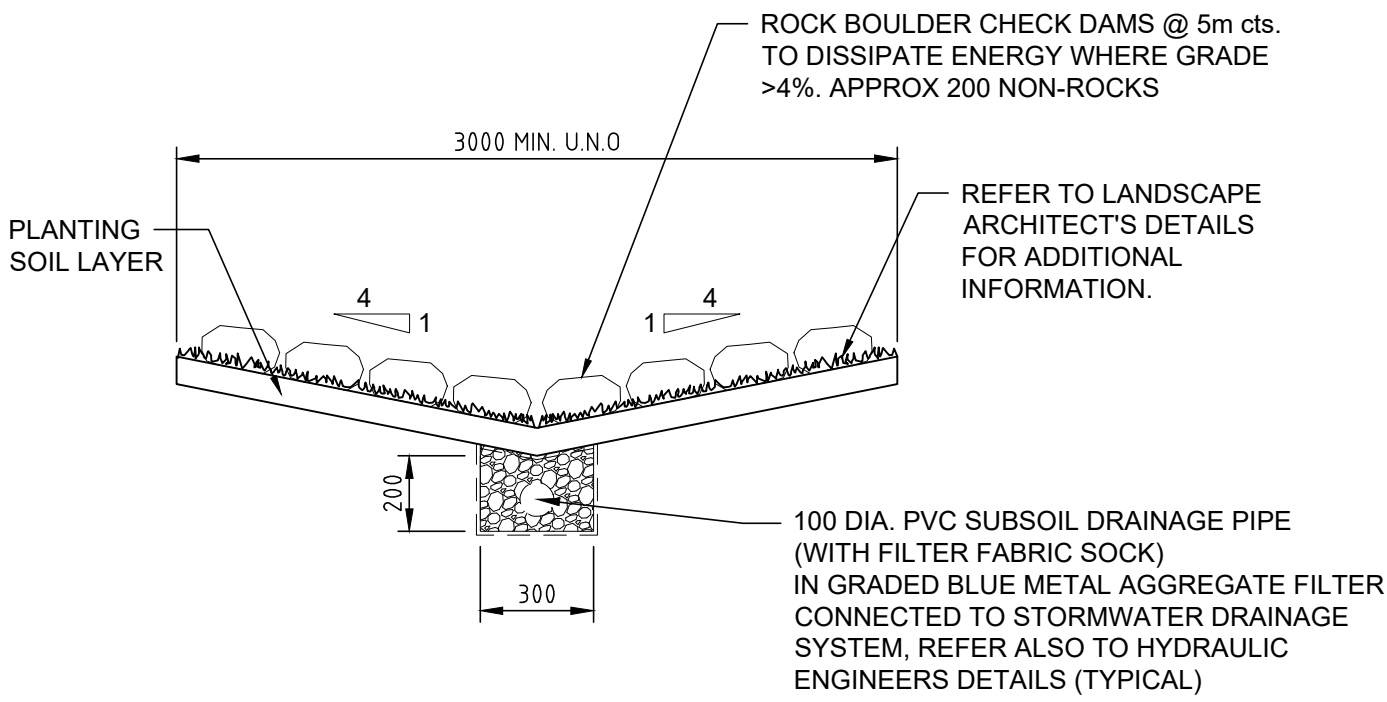
	SOURCES	RESIDUAL LOAD	% REDUCTION	% TARGET
TOTAL SUSPENDED SOLIDS (kg/yr)	226	38	83.2	80
TOTAL PHOSPHORUS (kg/yr)	0.402	0.158	60.6	45
TOTAL NITROGEN (kg/yr)	2.05	1.1	46.1	45
GROSS POLLUTANTS (kg/yr)	28.5	1.72	94	70

STORMWATER DRAINAGE STRATEGY

- ALL PITS & PIPES ARE DESIGNED TO ACCEPT A 20 YEAR ARI STORM EVENT
- PITS AS NOTED ON PLAN SHALL HAVE OCEANGUARD INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION
- ON-SITE DETENTION HAS BEEN PROVIDED FOR THE DEVELOPMENT IN ACCORDANCE WITH MUSWELLBROOK SHIRE COUNCIL (REFER TO OSD DESIGN SUMMARY)
- STORMWATER QUALITY MEASURES HAVE BEEN IMPLEMENTED TO MEET MUSWELLBROOK SHIRE COUNCIL REQUIREMENTS (REFER TO TREATMENT EFFECTIVENESS SUMMARY)



STORMWATER TREATMENT PIT DETAIL
N.T.S.



TYPICAL VEGETATED SWALE DETAIL
N.T.S.

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

ISSUE	DESCRIPTION	APPROVED	DATE
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NBRSARCHITECTURE.
Sydney
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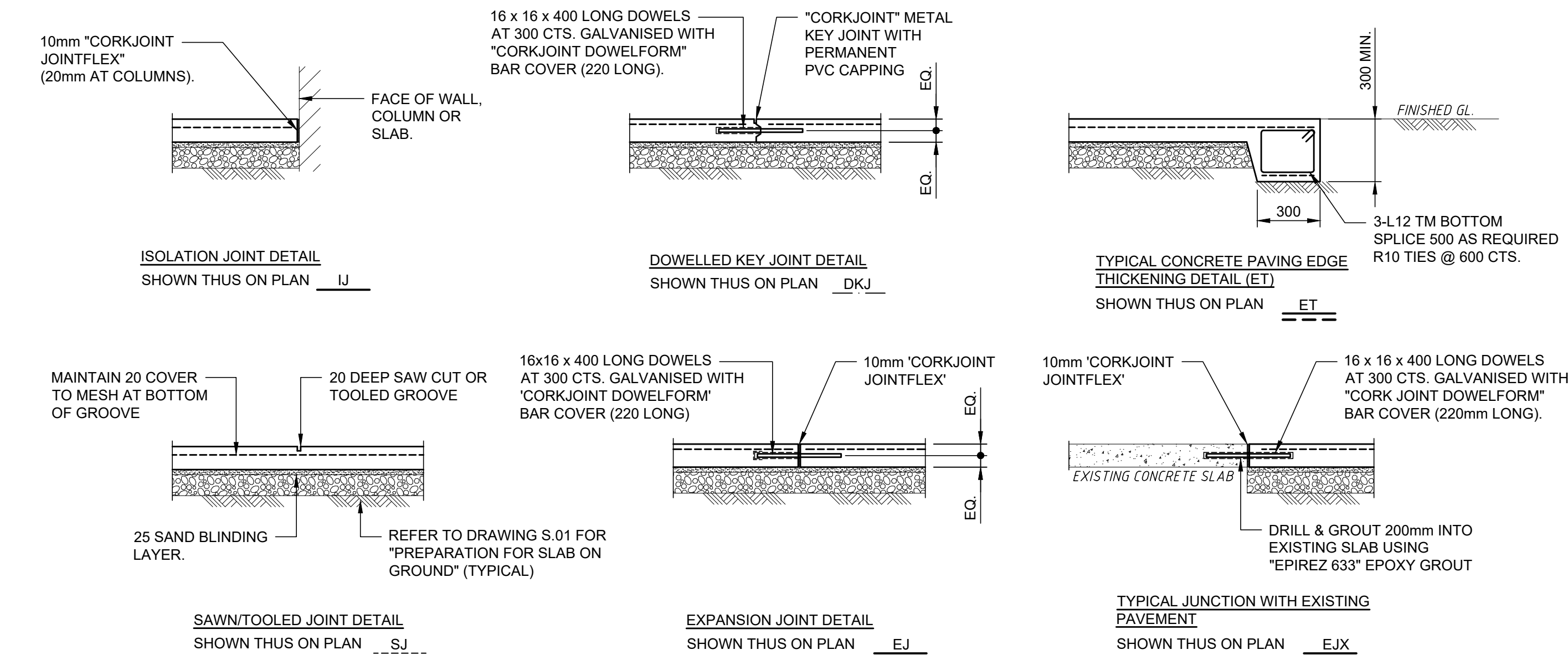


CONSULTING STRUCTURAL & CIVIL ENGINEERS
583 DARLING STREET ROZELLE NSW 2039
tel: (02) 9555 7230 email : office@birzulisassociates.com
www.birzulisassociates.com

PROJECT
Pacific Brook Christian School,
Muswellbrook - STAGE 1
72 - 74 Maitland Street, Muswellbrook NSW

TITLE
STORMWATER DRAINAGE
DETAILS - SHEET 02

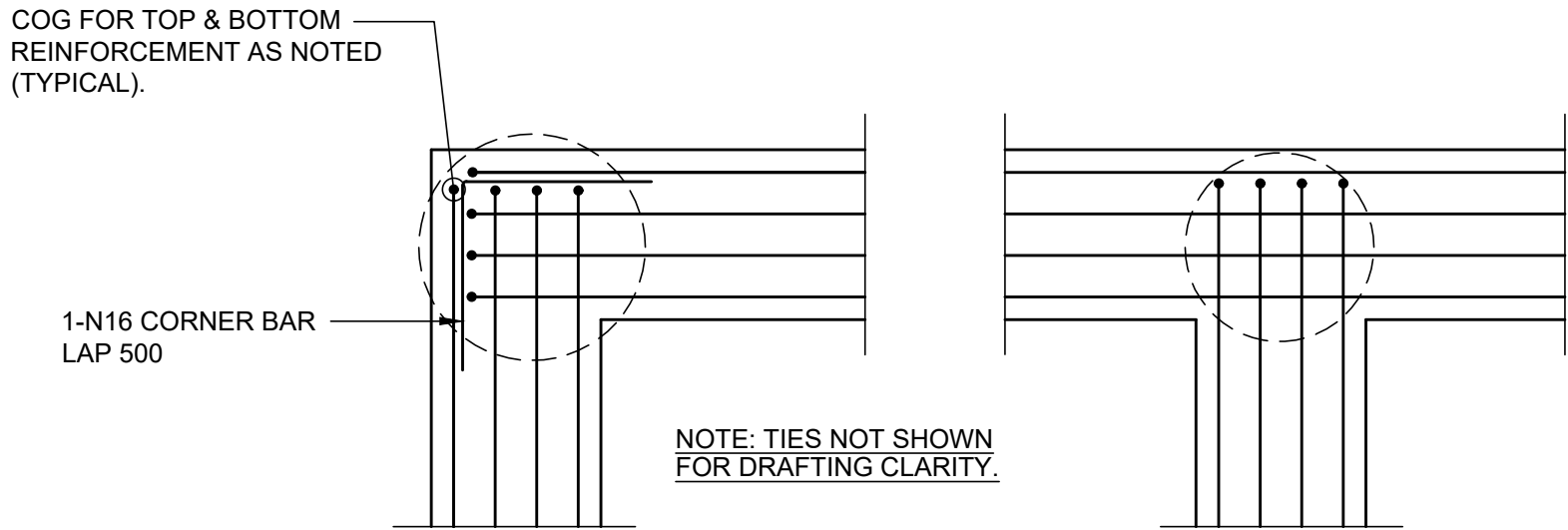
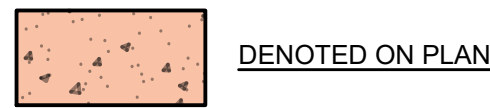
SCALES	as noted @ A1	DATE	APR, 2021
DRAWN	C.KE	DESIGN	C.A
		VERIFIED	-
		APPROVED	-
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P3	7855	C-0-GE-11	



TYPICAL EXTERNAL CONCRETE FOOTPATH PAVEMENT JOINT DETAILS

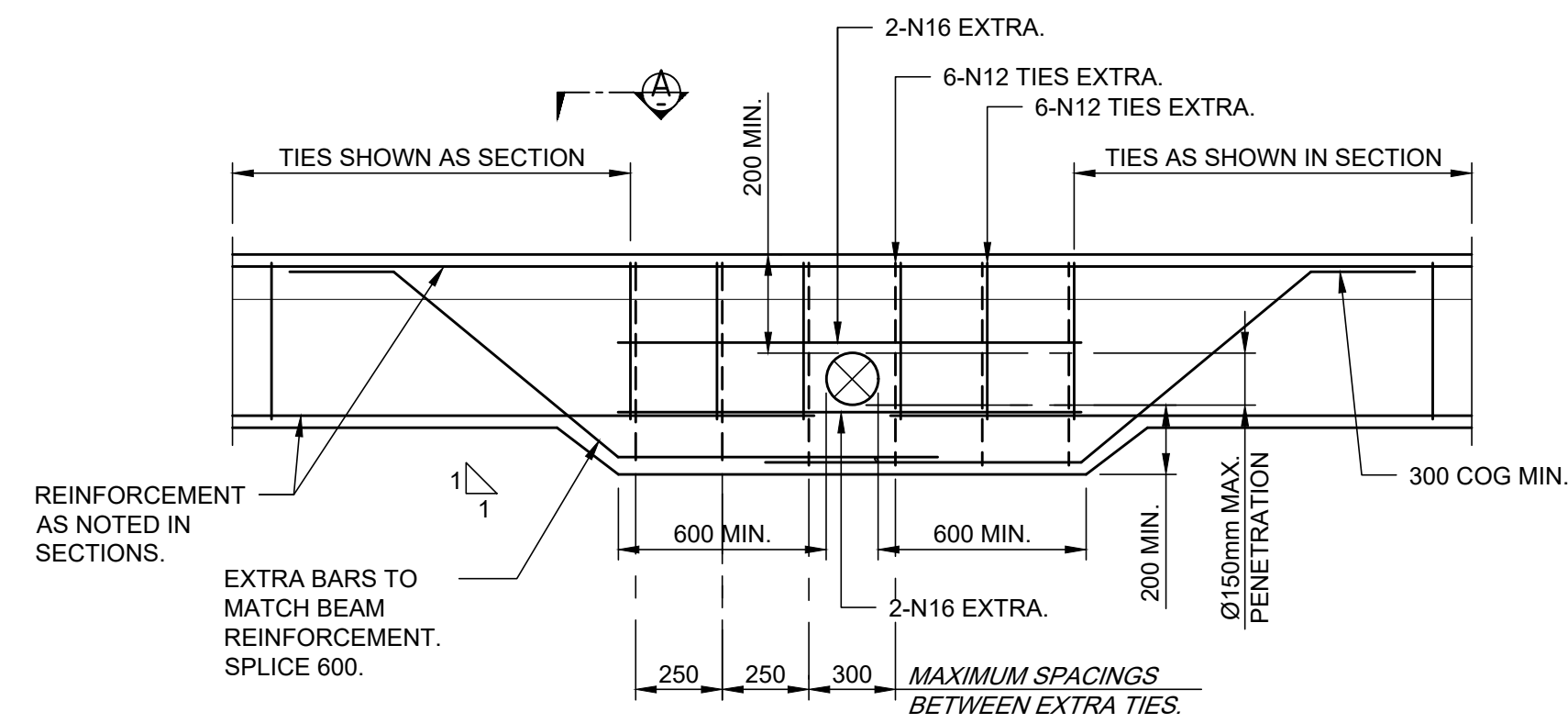
SCALE 1:20

110mm THICK PAVING SLABS WITH SL102 MESH TOP THROUGHOUT U.N.O.



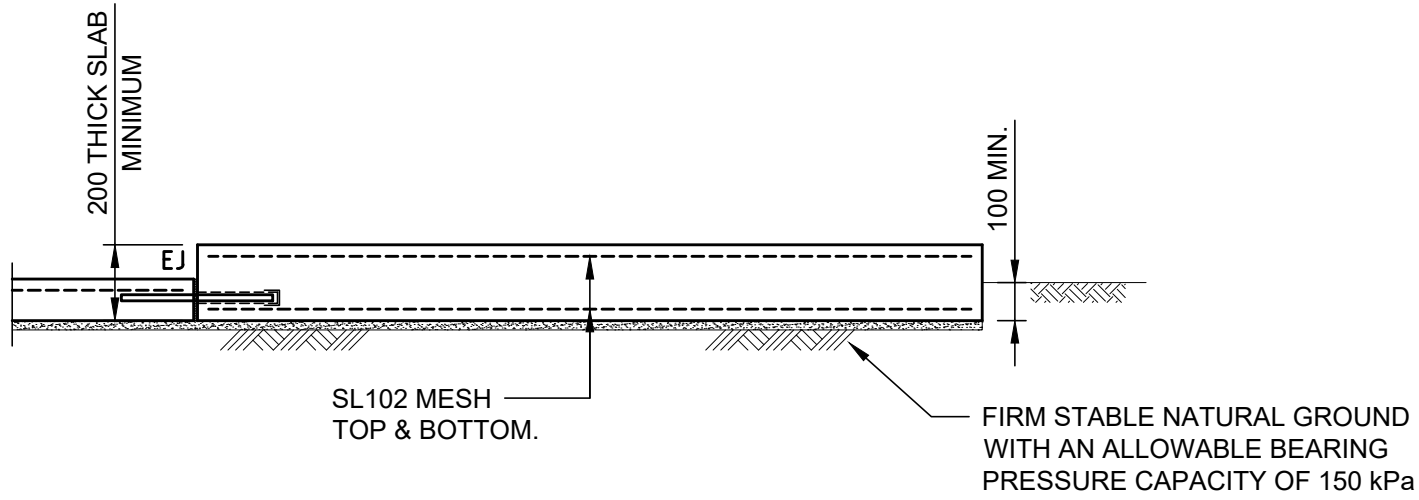
TYPICAL FOOTING BEAM INTERSECTION DETAILS

SCALE 1:20



HORIZONTAL SERVICES PIPE PENETRATION DETAIL IN EDGE AND INTERNAL BEAMS (IF REQUIRED)

SCALE 1:20



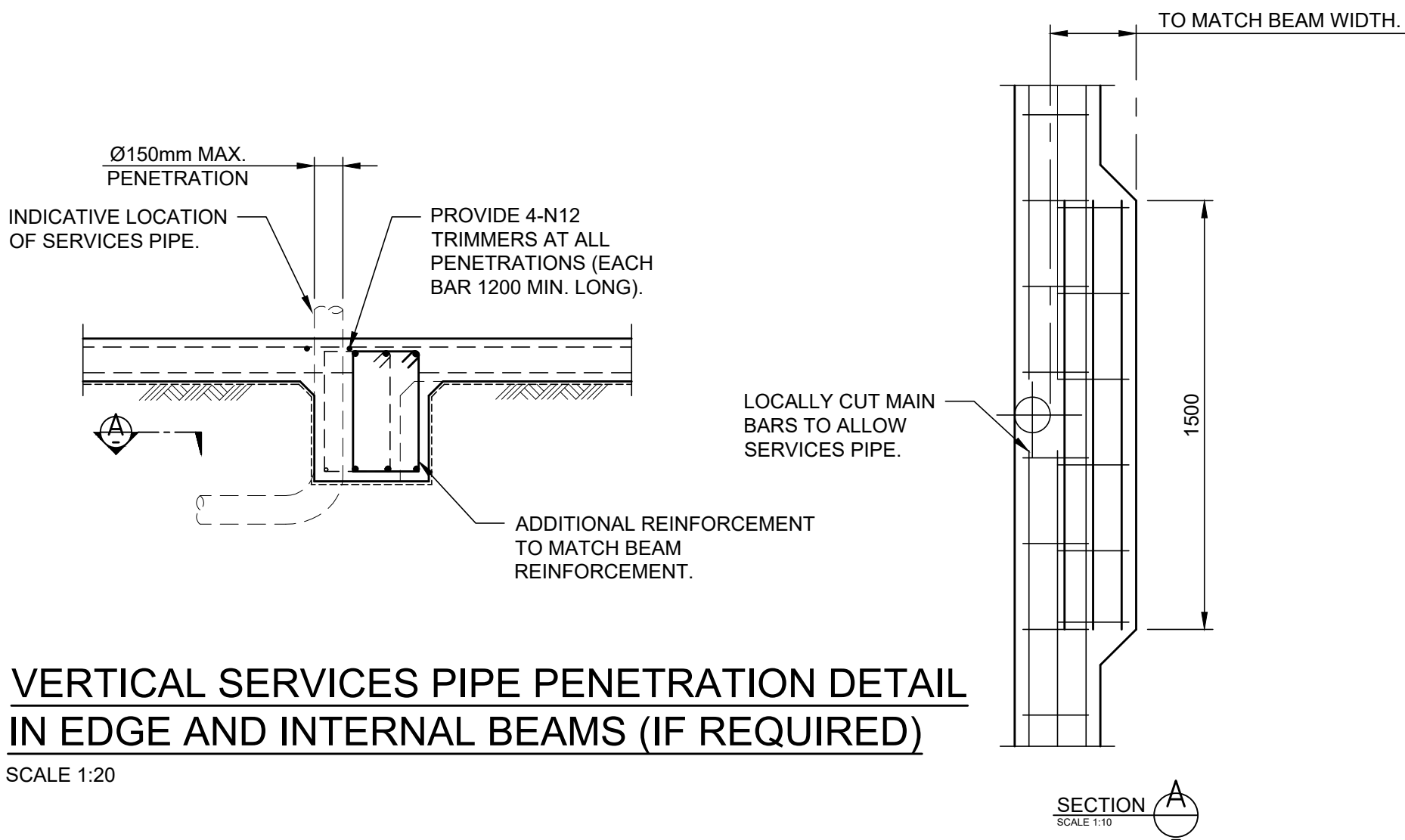
TYPICAL SECTION THROUGH SERVICES PLINTH

SCALE 1:20

SHOWN ON PLAN THUS - (S1)

REFER TO ARCHITECTS PLANS FOR LOCATIONS

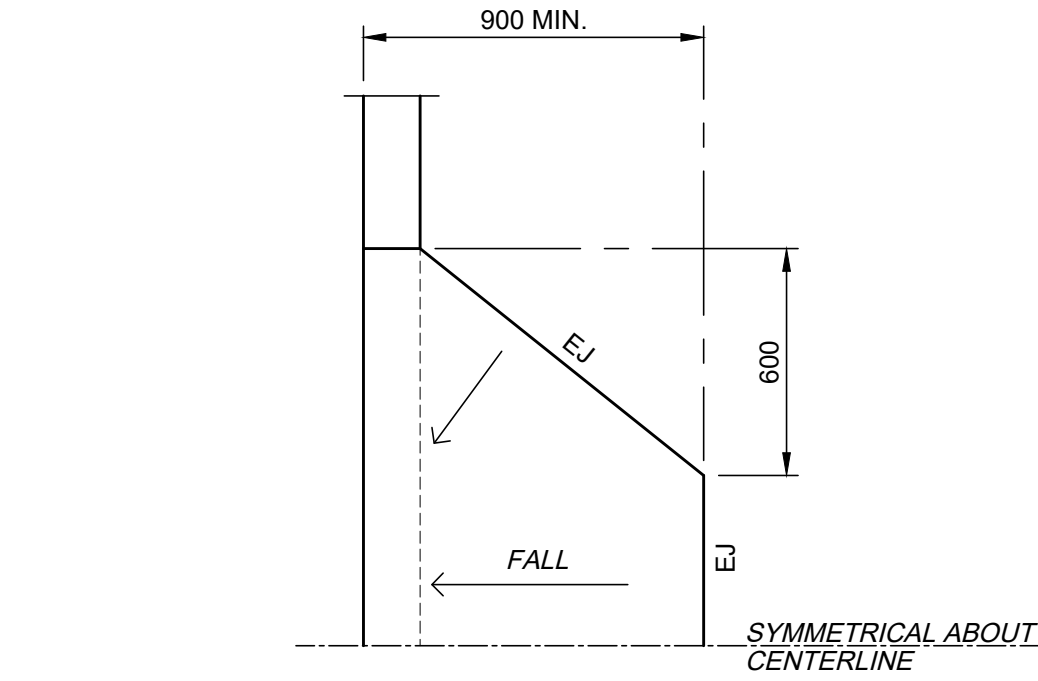
200mm THICK SLAB ON GROUND (F'c = 32MPa)
PROVIDE SL102 MESH TOP & BOTTOM THROUGHOUT U.N.O.



VERTICAL SERVICES PIPE PENETRATION DETAIL IN EDGE AND INTERNAL BEAMS (IF REQUIRED)

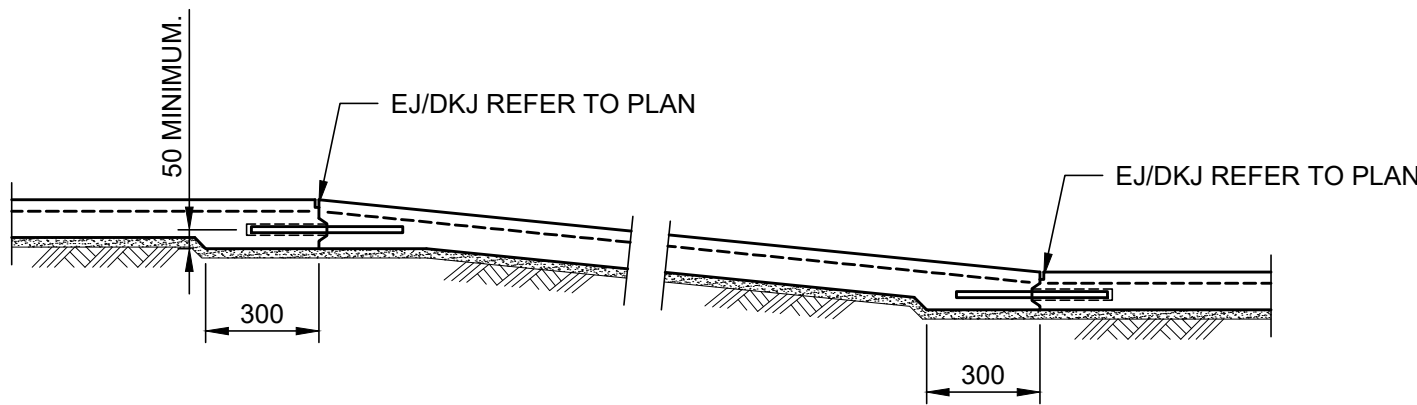
SCALE 1:20

SAW CUTTING TABLE	
DAILY MAXIMUM TEMP. (°C)	LATEST TIME FOR SAWING (HOURS)
< 10	48
10 - 20	36
20 - 30	24
> 30	12



TYPICAL PEDESTRIAN ACCESS RAMP (PRAM RAMP) DETAILS

SCALE 1:20



TYPICAL SECTION THROUGH RAMP

SCALE 1:20

PRELIMINARY ISSUE NOT FOR CONSTRUCTION

ISSUE	DESCRIPTION	APPROVED	DATE
P3	REVISIONS AS REQUESTED	-	16/09/21
P2	STAGING UPDATED TO STAGE 1	-	05/07/21
P1	INFORMATION	-	21/05/21

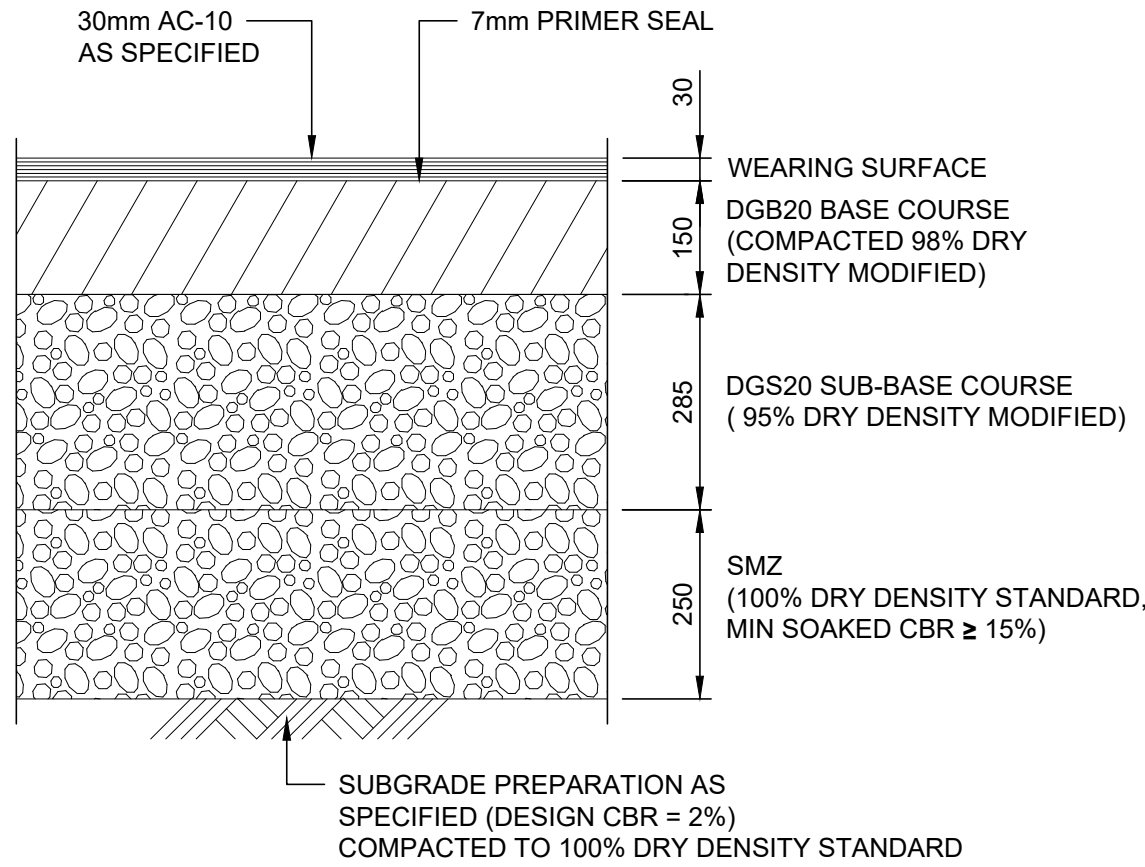
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Sydney
61 2 9922 2344
nbrsarchitecture.com

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CONSULTING STRUCTURAL & CIVIL ENGINEERS
583 DARLING STREET ROZELLE NSW 2039
tel: (02) 9555 7230 email: office@birzulisassociates.com
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PROJECT
**Pacific Brook Christian School,
Muswellbrook - STAGE 1**
72 - 74 Maitland Street, Muswellbrook NSW

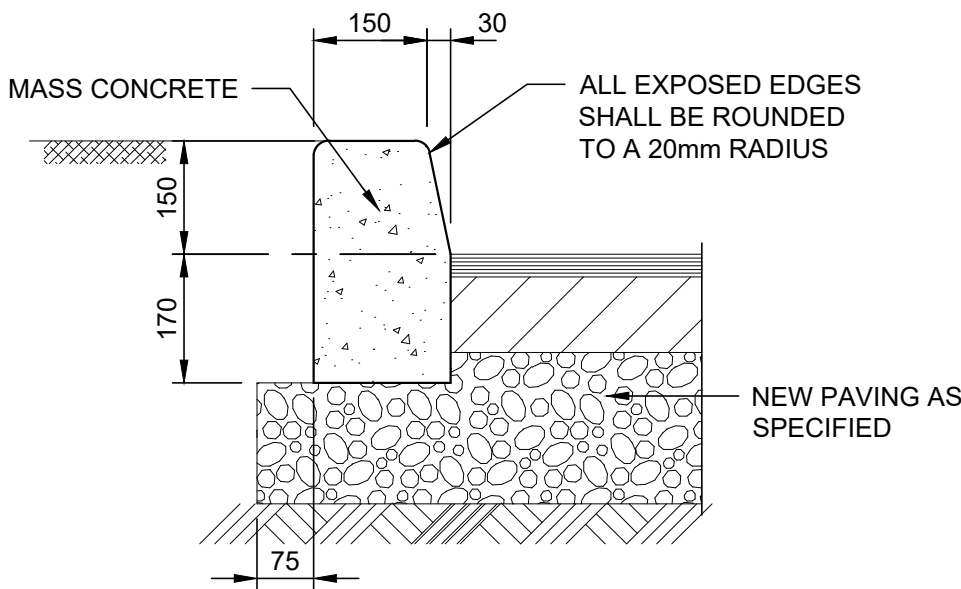
TITLE
**CIVIL EXTERNAL WORK
DETAILS - SHEET 01**

SCALES as noted @ A1		DATE APR, 2021	
DRAWN C.KE	DESIGN C.A	VERIFIED -	APPROVED -
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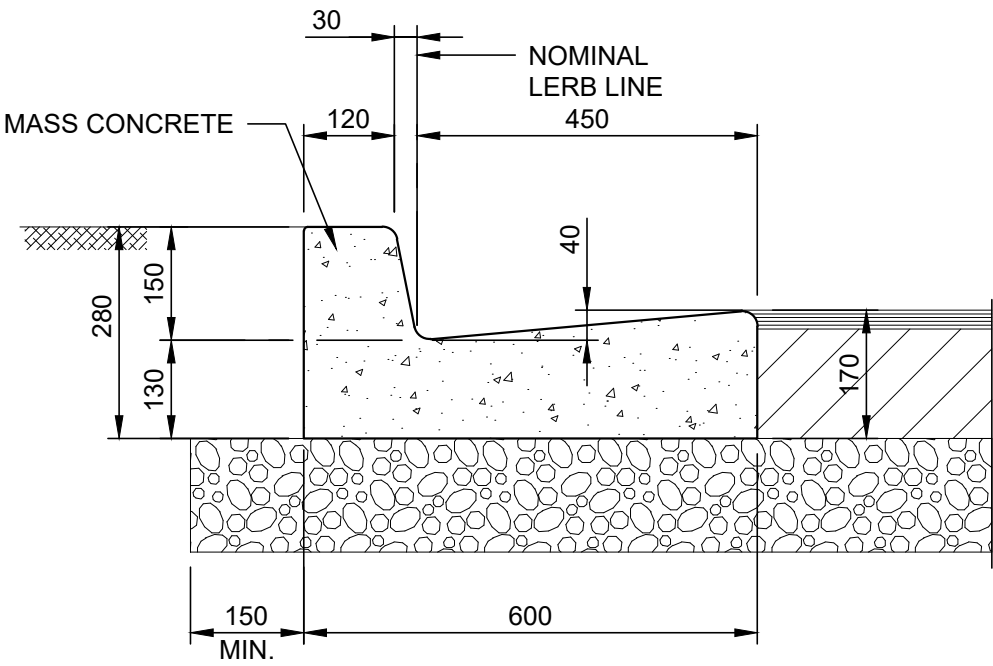
TYPICAL FLEXIBLE PAVEMENT SECTION

SCALE 1:10
DESIGN TRAFFIC LOADING = 4x10⁵ ESA



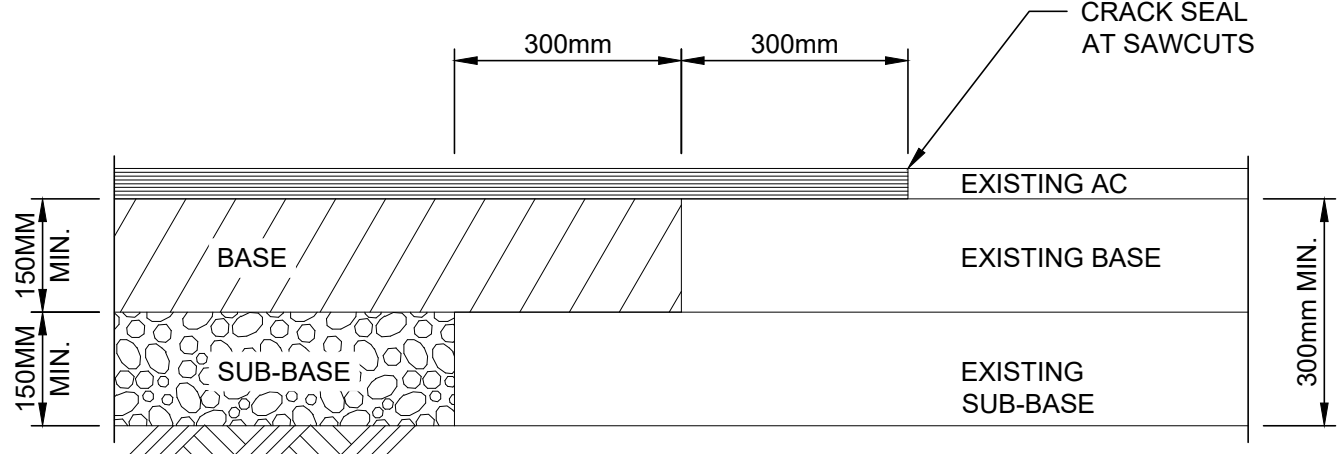
TYPICAL 'KO' KERB ONLY DETAIL

SCALE 1:10



TYPICAL 'K&G' KERB & GUTTER DETAIL

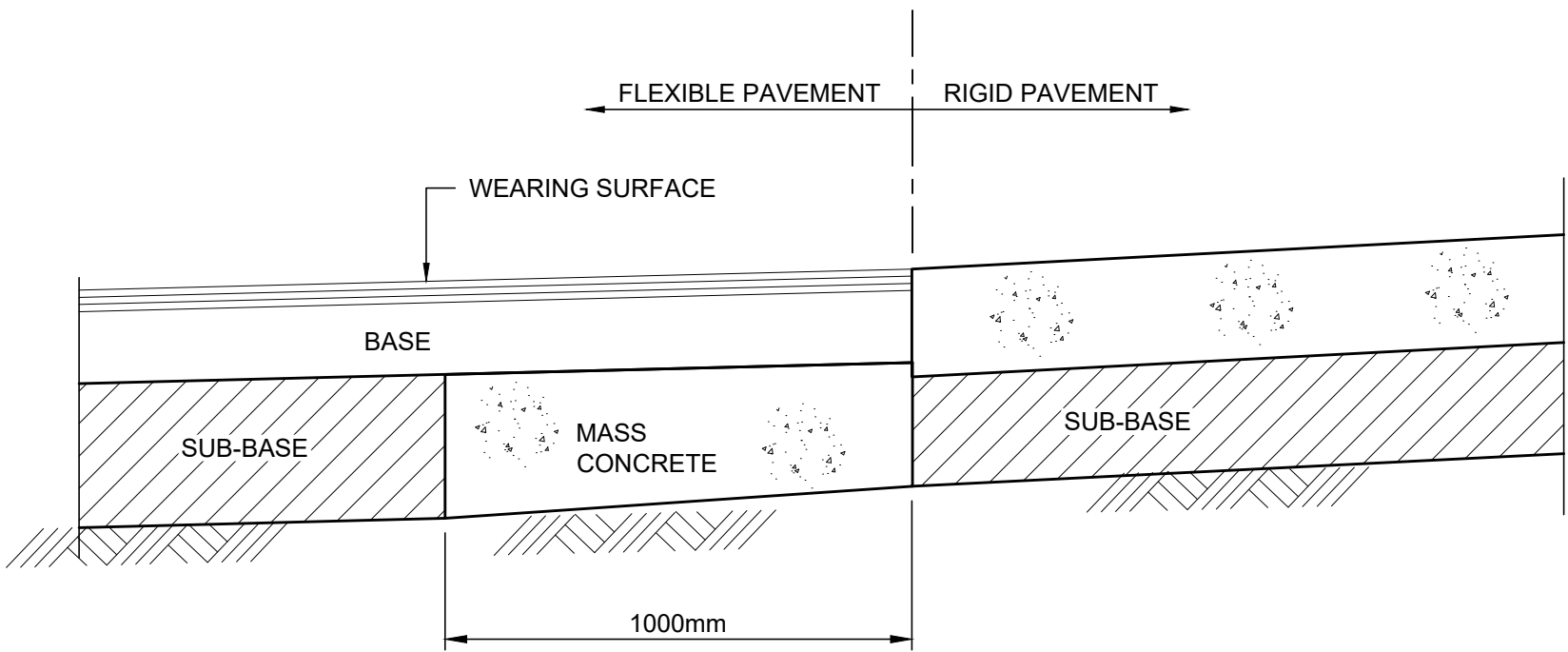
SCALE 1:10
DENOTED 'K&G' ON PLAN
PROVIDE FULL DEPTH 12mm BITUMEN IMPREGNATED FIBREBOARD
JOINTS AT 6 METER MAXIMUM CENTERS



REMOVE A STRIP OF THE EXISTING PAVEMENT AT LEAST 300 WIDE FOR ITS FULL DEPTH
TRIM THE NEW EDGE TO AN ANGLE OF APPROXIMATELY 45° IN STEPS OF MAXIMUM HEIGHT 150mm
THEN PLACE NEW PAVEMENT MATERIAL
TRIM THE SEAL TO A NEAT EDGE USING PNEUMATIC TOOLS OR OTHER SUITABLE MEANS

DETAIL OF NEW TO EXISTING PAVEMENT

SCALE 1:10



DETAIL - FLEXIBLE TO RIGID PAVEMENT

NOT TO SCALE

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

P3	REVISIONS AS REQUESTED	-	16/09/21
P2	STAGING UPDATED TO STAGE 1	-	05/07/21
P1	INFORMATION	-	21/05/21
ISSUE	DESCRIPTION	APPROVED	DATE

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Sydney
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CONSULTING STRUCTURAL & CIVIL ENGINEERS
583 DARLING STREET ROZELLE NSW 2039
tel: (02) 9555 7230 email : office@birzulisassociates.com
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PROJECT
Pacific Brook Christian School,
Muswellbrook - STAGE 1
72 - 74 Maitland Street, Muswellbrook NSW

TITLE
CIVIL EXTERNAL WORK
DETAILS - SHEET 02

SCALES
as noted @ A1

DATE
APR, 2021

DRAWN C.KE	DESIGN C.A	VERIFIED -	APPROVED -
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ISSUE P3	PROJECT No. 7855	DRAWING No. C-0-GE-21
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1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm 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 @ 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX 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.



- NOTE:**
ENDS OF SILTATION FENCE TO
BE RETURNED UP SLOPE TO
PREVENT RUNOFF.

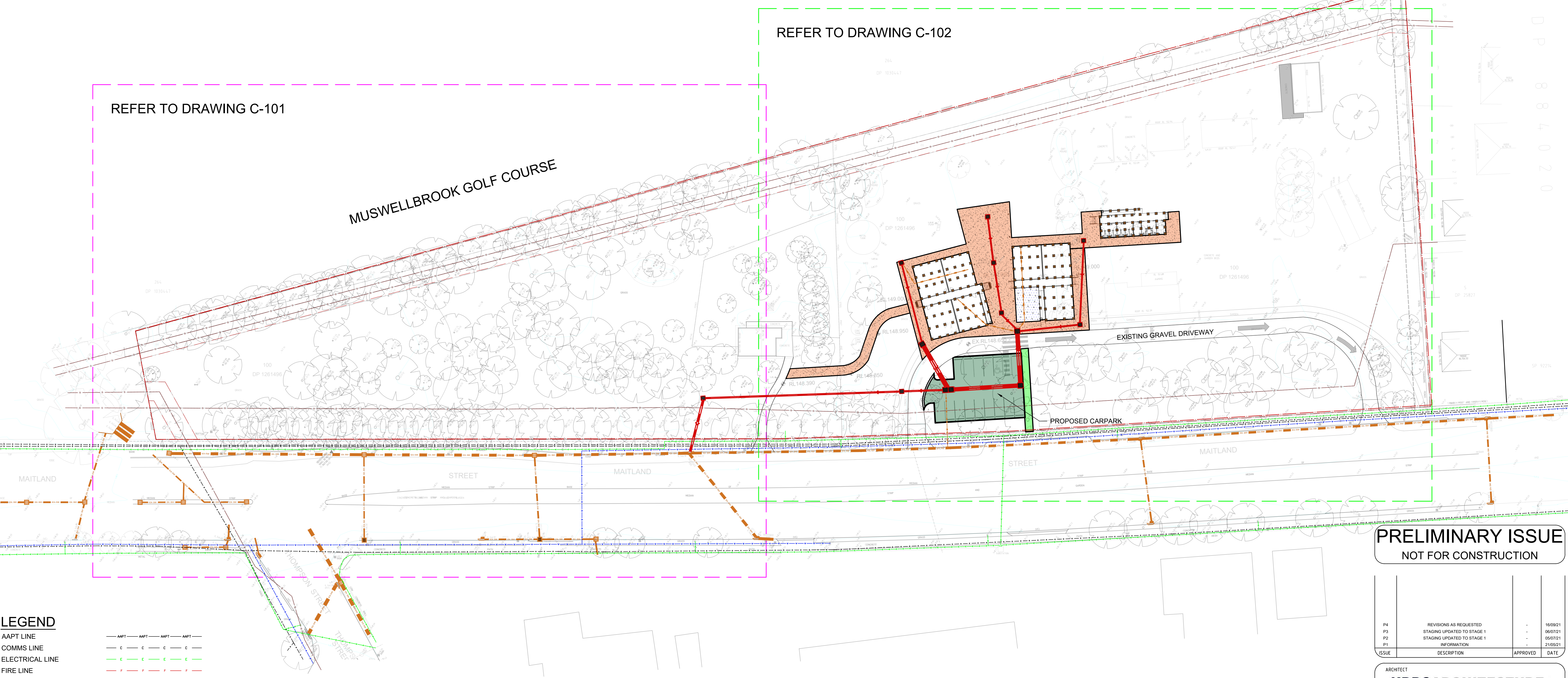
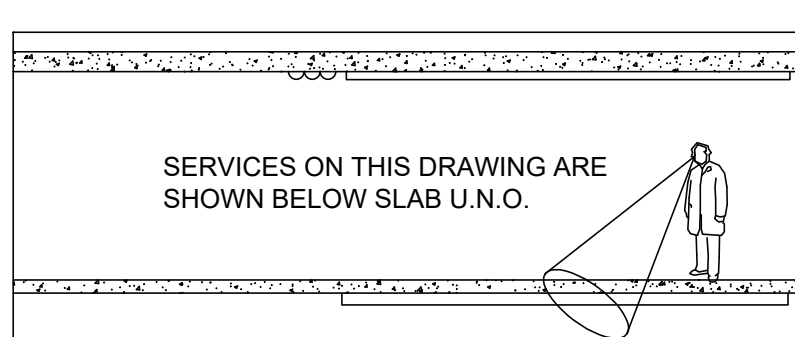


- ## GEOTEXTILE INLET FILTER DETAILS

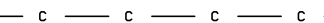
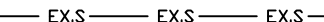
- CROSS-SECTION OF CONSTRUCTION ENTRY/EXIT DETAIL**
NOT TO SCALE



ISSUE	PROJECT No.	DRAWING No.
P3	7855	C-0-GE-30



LEGEND

- AAPT LINE 
 COMMS LINE 
 ELECTRICAL LINE 
 FIRE LINE 
 GAS LINE 
 WATER LINE 
 NBN LINE 
 OPTUS LINE 
 TPG LINE 
 TELECOMMUNICATION LINE 
 OVERFLOW PATH 
 SEWER LINE 
 SEWER EXISTING LINE 
 SUBSOIL CONSTRUCTION LINE 
 SITE BOUNDARY 
 DEMOLISHED 
 EXISTING STORMWATER LINE 
 PROPOSED CONTOUR 
 GRATED STORMWATER PIT  DOWN PIPE  DP
 EXISTING STORMWATER PIT  EXISTING DOWN PIPE  EX.D
 KERB INLET PIT   

FLOOR WASTE NEW GRATED DRAIN

TELEPHONE PIT OCEAN GUARD INSTALLED (FROM OCEAN PROTECT) 

SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.

 HATCH DENOTES CONCRETE SLAB TOP
REFER TO DWG. C-0-GE-20 FOR TYPICAL
SLAB JOINT DETAILS.

 HATCH DENOTES FLEXIBLE PAVEMENT
REFER TO DWG. C-0-GE-21 FOR SPECIFICATION.

 HATCH DENOTES ARTIFICIAL TURF

STAGE 1 - OVERALL SITE PLAN

REFER TO DRAWING C-102

REFER TO DRAWING C-101

MUSWELLBROOK GOLF COURSE

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

P4	REVISIONS AS REQUESTED	-	16/09/21
P3	STAGING UPDATED TO STAGE 1	-	06/07/21
P2	STAGING UPDATED TO STAGE 1	-	06/07/21
P1	INFORMATION	-	21/05/21
ISSUE	DESCRIPTION	APPROVED	DATE

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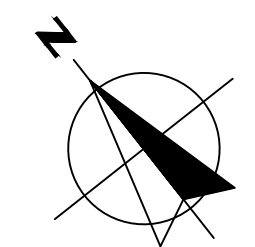
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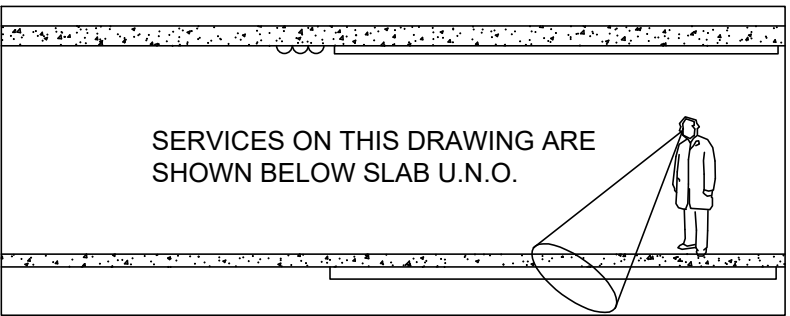
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tel: (02) 9555 7230 email: office@birzulisassociates.com
www.birzulisassociates.com

PROJECT
Pacific Brook Christian School,
Muswellbrook - STAGE 1
72 - 74 Maitland Street, Muswellbrook NSW

TITLE
STAGE 1
- OVERALL SITE PLAN

SCALES as noted @ A1			DATE APR, 2021	
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ISSUE P4	PROJECT No. 7855	DRAWING No. C-1-GF-00		





LEGEND

AAPT LINE	AAPT	AAPT	AAPT	AAPT
COMMS LINE	C	C	C	C
ELECTRICAL LINE	E	E	E	E
FIRE LINE	F	F	F	F
GAS LINE	G	G	G	G
WATER LINE	W	W	W	W
NBN LINE	NBN	NBN	NBN	NBN
OPTUS LINE	OP	OP	OP	OP
TPG LINE	TPG	TPG	TPG	TPG
TELECOMMUNICATION LINE	T	T	T	T
OVERFLOW PATH	OP	OP	OP	OP
SEWER LINE	S	S	S	S
SEWER EXISTING LINE	EX.S	EX.S	EX.S	EX.S
SUBSOIL DRAINAGE LINE	SSD	SSD	SSD	SSD
SITE BOUNDARY				
DEMOLISHED				
EXISTING STORMWATER LINE	EX. SW	EX. SW	EX. SW	EX. SW
PROPOSED CONTOUR				
GRATED STORMWATER PIT				
DOWN PIPE	DP			
EXISTING STORMWATER PIT				
EXISTING DOWN PIPE	EX.DP			
KERB INLET PIT				
FLOOR WASTE	FF			
TELEPHONE PIT				
NEW GRATED DRAIN				
OCEAN GUARD INSTALLED (FROM OCEAN PROTECT)	OG			

SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.

	HATCH DENOTES CONCRETE SLAB TOP REFER TO DWG. C-0-GE-20 FOR TYPICAL SLAB JOINT DETAILS.
	HATCH DENOTES FLEXIBLE PAVEMENT REFER TO DWG. C-0-GE-21 FOR SPECIFICATION.
	HATCH DENOTES ARTIFICIAL TURF

PRELIMINARY ISSUE NOT FOR CONSTRUCTION

ISSUE	DESCRIPTION	APPROVED	DATE
P4	REVISIONS AS REQUESTED	-	16/09/21
P3	STAGING UPDATED TO STAGE 1	-	06/07/21
P2	STAGING UPDATED TO STAGE 1	-	05/07/21
P1	INFORMATION	-	21/05/21

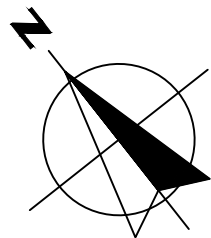
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PROJECT Pacific Brook Christian School, Muswellbrook - STAGE 1 72 - 74 Maitland Street, Muswellbrook NSW

TITLE STORMWATER AND EXTERNAL WORKS - SHEET 01
--

SCALES as noted @ A1			DATE APR, 2021
DRAWN C.A	DESIGN C.A	VERIFIED -	APPROVED -
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ISSUE P4	PROJECT No. 7855	DRAWING No. C-1-GF-01	



STORMWATER AND EXTERNAL WORKS - SHEET 01

SCALE 1:250

- UNLESS NOTED OTHERWISE, NON-CHARGED DOWNPIPES SHALL CONNECT TO MAIN STORMWATER DRAINAGE LINE AT 1% MIN. FALL.
- UNLESS NOTED OTHERWISE, DOWNPIPES SHALL BE Ø100mm SEALED.
- ROOF DRAINAGE BY OTHERS.
- ALL uPVC STORMWATER DRAINAGE LINES SHALL BE 'CLASS SH' SEWER GRADE. U.N.O.
- CONFIRM EXISTING DRAINAGE SYSTEM ONSITE BY PLUMBER.

SERVICES ON THIS DRAWING ARE SHOWN BELOW SLAB U.N.O.

LEGEND

AAPT LINE		AAPT
COMMS LINE		C
ELECTRICAL LINE		E
FIRE LINE		F
GAS LINE		G
WATER LINE		W
NBN LINE		NBN
OPTUS LINE		OP
TPG LINE		TPG
TELECOMMUNICATION LINE		T
OVERFLOW PATH		OP
SEWER LINE		S
SEWER EXISTING LINE		EX.S
SUBSOIL DRAINAGE LINE		SSD
SITE BOUNDARY		
DEMOLISHED		
EXISTING STORMWATER LINE		EX. SW
PROPOSED CONTOUR		
GRATED STORMWATER PIT		
EXISTING STORMWATER PIT		
KERB INLET PIT		
FLOOR WASTE		FF
TELEPHONE PIT		
DOWN PIPE		DP
EXISTING DOWN PIPE		Ex.DP
NEW GRATED DRAIN		
OCEAN GUARD INSTALLED (FROM OCEAN PROTECT)		OG

SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.

	HATCH DENOTES CONCRETE SLAB TOP REFER TO DWG. C-0-GE-20 FOR TYPICAL SLAB JOINT DETAILS.
	HATCH DENOTES FLEXIBLE PAVEMENT REFER TO DWG. C-0-GE-21 FOR SPECIFICATION.
	HATCH DENOTES ARTIFICIAL TURF

PRELIMINARY ISSUE NOT FOR CONSTRUCTION

ISSUE	DESCRIPTION	APPROVED	DATE
P4	REVISIONS AS REQUESTED	-	16/09/21
P3	STAGING UPDATED TO STAGE 1	-	06/07/21
P2	STAGING UPDATED TO STAGE 1	-	05/07/21
P1	INFORMATION	-	21/05/21

ARCHITECT
NBR**SARCHITECTURE.**
Sydney
61 2 9922 2344
nbrsarchitecture.com

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CONSULTING STRUCTURAL & CIVIL ENGINEERS
583 DARLING STREET ROZELLE NSW 2039
tel: (02) 9555 7230 email: office@birzulisassociates.com
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PROJECT
**Pacific Brook Christian School,
Muswellbrook - STAGE 1**
72 - 74 Maitland Street, Muswellbrook NSW

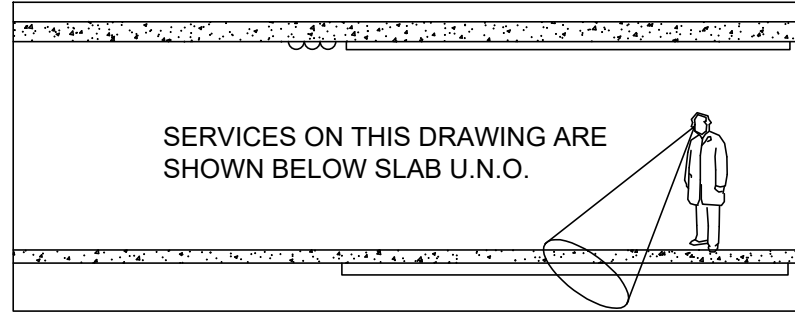
TITLE
**STORMWATER AND EXTERNAL
WORKS - SHEET 02**

SCALES	as noted @ A1	DATE	APR, 2021
DRAWN	C.A	DESIGN	C.A
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ISSUE	PROJECT No.	DRAWING No.	
P4	7855	C-1-GF-02	

STORMWATER AND EXTERNAL WORKS - SHEET 02

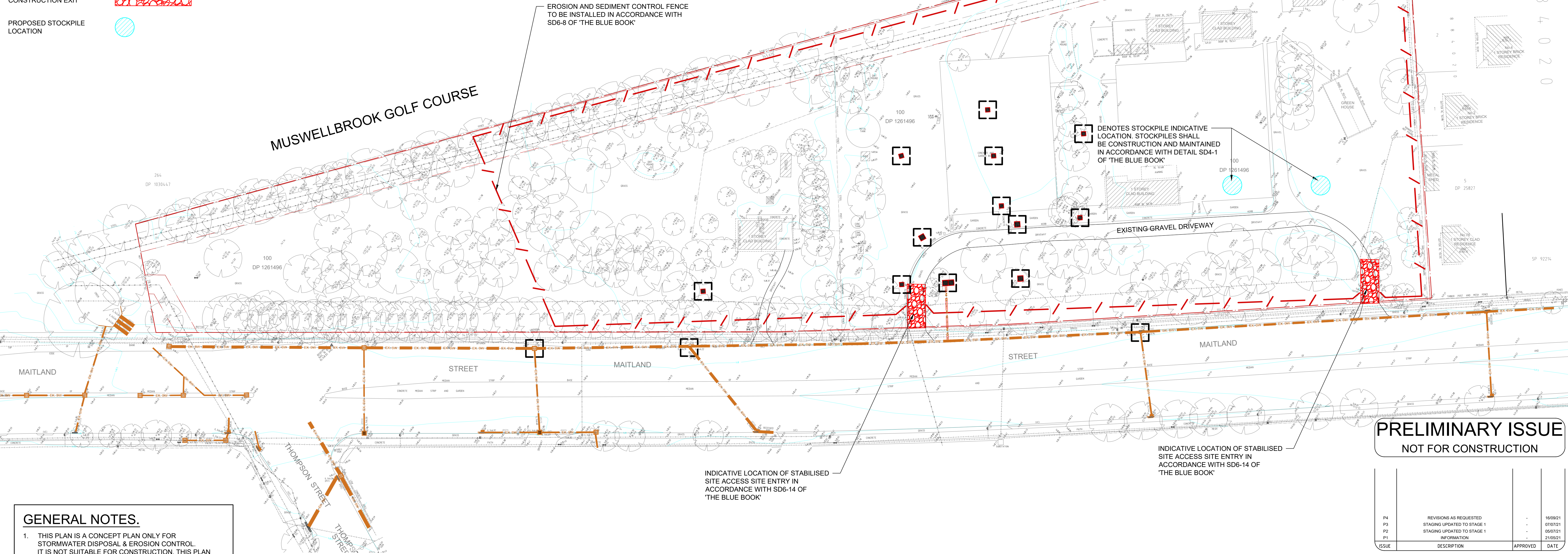
SCALE 1:250

- UNLESS NOTED OTHERWISE, NON-CHARGED DOWNPIPES SHALL CONNECT TO MAIN STORMWATER DRAINAGE LINE AT 1% MIN. FALL
- UNLESS NOTED OTHERWISE, DOWNPIPES SHALL BE Ø100mm SEALED.
- ROOF DRAINAGE BY OTHERS
- ALL uPVC STORMWATER DRAINAGE LINES SHALL BE 'CLASS SH' SEWER GRADE. U.N.O.
- CONFIRM EXISTING DRAINAGE SYSTEM ONSITE BY PLUMBER.



SOIL EROSION AND SEDIMENT CONTROL LEGEND

- SEDIMENT CONTROL FENCE
- INLET TRAP
- TEMPORARY STABILISED CONSTRUCTION EXIT
- PROPOSED STOCKPILE LOCATION



GENERAL NOTES.

- THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.
- ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY LATER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

EROSION & SEDIMENTATION CONTROL NOTES

- CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
- EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
- NO PARKING OR STOCKPILING OF MATERIAL IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
- GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
- CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING & LEAVING THE SITE DO SO IN A FORWARD DIRECTION.

STAGE 1 - SEDIMENT AND EROSION CONTROL PLAN

SCALE 1:500

DEMOLISH LINE

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

ISSUE	DESCRIPTION	APPROVED	DATE
P4	REVISIONS AS REQUESTED	-	16/09/21
P3	STAGING UPDATED TO STAGE 1	-	07/07/21
P2	STAGING UPDATED TO STAGE 1	-	05/07/21
P1	INFORMATION	-	21/05/21

ARCHITECT
NBRSARCHITECTURE.
Sydney
61 2 9922 2344
nbrsarchitecture.com

BIRZULIS
ASSOCIATES
CONSULTING STRUCTURAL & CIVIL ENGINEERS
583 DARLING STREET ROZELLE NSW 2039
tel: (02) 9555 7230 email: office@birzulisassociates.com
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PROJECT
Pacific Brook Christian School,
Muswellbrook - STAGE 1
72 - 74 Maitland Street, Muswellbrook NSW

TITLE
STAGE 1
- SEDIMENT AND EROSION
CONTROL PLAN

SCALES	as noted @ A1	DATE	APR, 2021
DRAWN	C.A	DESIGN	C.A
VERIFIED	-	APPROVED	-
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ISSUE	PROJECT No.	DRAWING No.	
P4	7855	C-1-GF-30	

