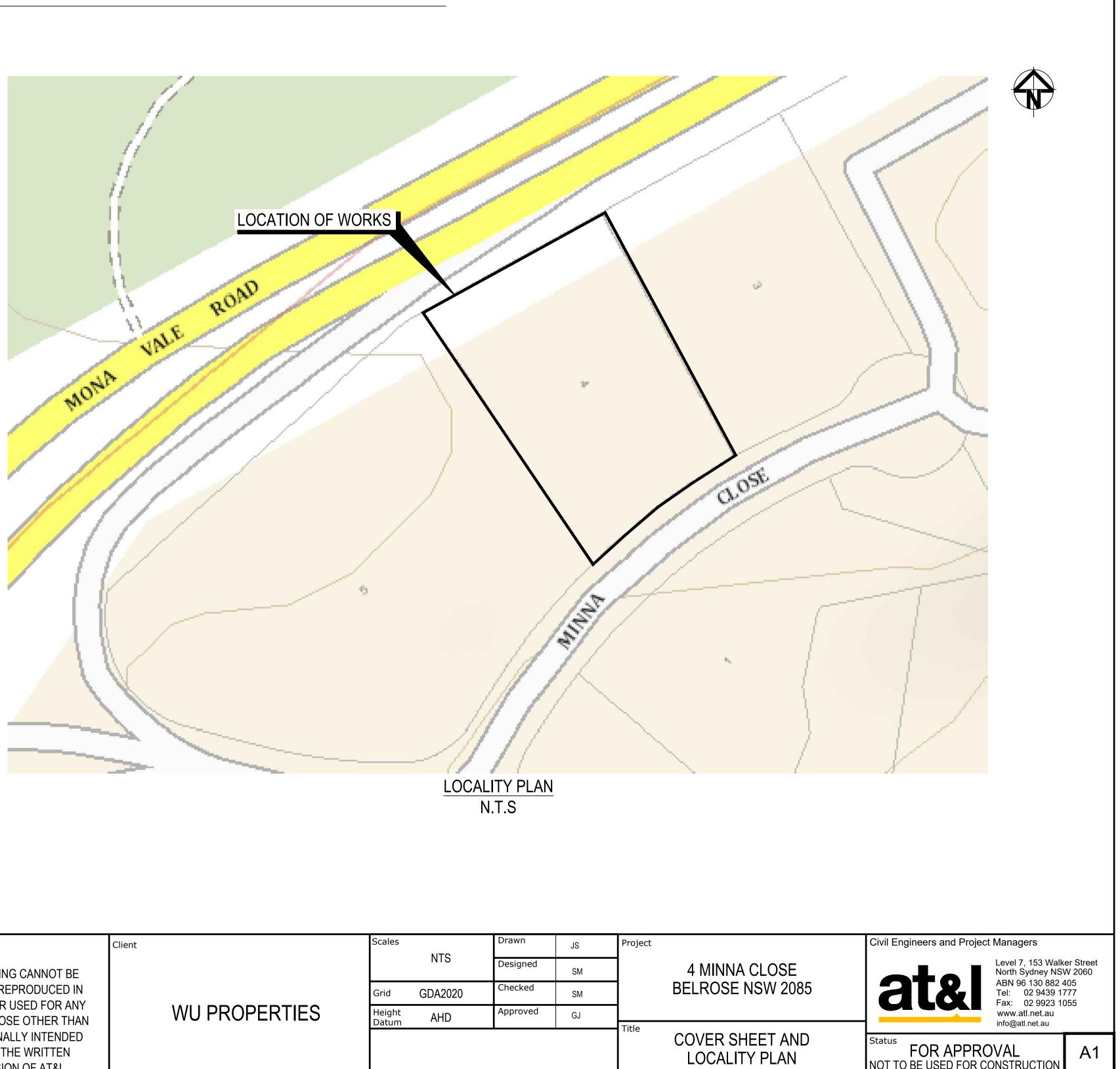
CIVIL WORKS PACKAGE FOR 4 MINNA CLOSE, BELROSE NSW 2085 DEVELOPMENT APPLICATION

| GENERAL | |
|------------------------------|---|
| 22-1016-DAC000 | COVER SHEET AND LOCALITY PLAN |
| 22-1016-DAC001 | GENERAL NOTES |
| 22-1016-DAC002 | EXISTING SITE PLAN |
| 22-1016-DAC003 | GENERAL ARRANGMENT PLAN |
| 22-1016-DAC004 | BULK EARTHWORKS PLAN |
| SITE SECTIONS | |
| 22-1016-DAC010 | SITE SECTIONS |
| SITEWORKS DRAINAGE | |
| 22-1016-DAC020 | SITEWORKS AND STORMWATER DRAINAGE PLAN |
| 22-1016-DAC025 | SITEWORKS AND STORMWATER DETAILS SHEET 1 |
| 22-1016-DAC026 | SITEWORKS AND STORMWATER DETAILS SHEET 2 |
| 22-1016-DAC027 | SITEWORKS AND STORMWATER DETAILS SHEET 3 |
| PAVEMENT | |
| 22-1016-DAC030 | PAVEMENT PLAN |
| STORMWATER DRAINAGE | |
| 22-1016-DAC042 | OSD PLAN AND SECTIONS |
| 22-1016-DAC045 | STORMWATER DRAINAGE LONGITUDINAL SECTIONS |
| 22-1016-DAC050 | STORMWATER DRAINAGE CATCHMENT PLAN |
| 22-1016-DAC055 | MUSIC CATCHMENT PLAN |
| EROSION AND SEDIMENT CONTROL | |
| 22-1016-DAC060 | SEDIMENTATION AND EROSION CONTROL PLAN |
| 22-1016-DAC065 | SEDIMENTATION AND EROSION CONTROL DETAILS |

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Project - Drawing No.

22-1016-DAC000

Issue

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY SDG, BEING

REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AT & L DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT AT & L.

THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS.

GENERAL NOTES

- ONLY TREES GREATER THAN 3.5 METRES IN HEIGHT ARE SHOWN ON THIS PLAN AND THEIR POSITIONS ARE DIAGRAMMATIC ONLY AND MAY REQUIRE ADDITIONAL SURVEY WHERE CRITICAL TO DESIGN.
- CONTOURS ARE INDICATIVE AT GROUND FORM ONLY. SPOT LEVELS ONLY SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION.
- LEVELS ARE ON AUSTRALIAN HEIGHT DATUM (AHD).
- ALL SETOUT LEVELS MUST BE REFERRED TO THE BENCH MARK
- SHOWN ON THIS PLAN.

BOUNDARY NOTES

- A BASIC BOUNDARY SURVEY HAS BEEN DONE SUITABLE FOR DA LODGEMENT PURPOSES.
- BOUNDARIES HAVE NOT BEEN MARKED.
- SURVEY INFORMATION NOTES
- THE ORIGIN OF COORDINATES COMES FROM SSM88206 E333954.228 N6269239.469 CLASS C POSITIONAL UNCERTAINTY (PU) N/A (MGA2020) ADOPTED FROM SCIMS DATED 08/06/2021.
- THE ORIGIN OF LEVELS COMES FROM SSM75296 RL179.240 CLASS LC POSITIONAL UNCERTAINTY (PU) N/A ADOPTED FROM SCIMS DATED 08/06/2021.
- THE ORIENTATION OF THIS PLAN IS MGA NORTH WHICH HAS BEEN 10 DETERMINED BY A COORDINATE JOIN BETWEEN SSM88206 AND SSM75296.

CERTIFICATE OF TITLE NOTES

- THE FOLLOWING INFORMATION RELATES TO THE RESPECTIVE CERTIFICATE OF TITLE OF EACH LOTS:
- LOT 502 IN DP875858 (CT EDITION 9 DATED 18/10/2019 SEARCH DATE 01/06/2021) AFFECTED BY:
- RIGHT OF CARRIAGEWAY 4.0 WIDE (AE960449) RESTRICTION ON THE USE OF LAND (DP265029, DP852750,
- DP875858 & O897327) COVENANT (1909898 & DP265029)
- BENEFITED BY BY:
- EASEMENT FOR ACCESS AND DRAINAGE AND WATER MANAGEMENT (DP807013)
- COVENANTS AND RESTRICTIONS NOTED ON THE TITLE HAVE NOT BEEN INVESTIGATED. THESE SHOULD BE INVESTIGATED PRIOR TO DESIGN TO ENSURE ANY FUTURE DEVELOPMENT COMPLIES.

SERVICES NOTES

- 17. ONLY THOSE SERVICES VISIBLE AT THE TIME OF SURVEY HAVE BEEN LOCATED AND ARE QUALITY LEVEL A AS DEFINED BY AS 5488.1:2019.
- UNDERGROUND SERVICES HAVE BEEN PLOTTED FROM 'DIAL-BEFORE'YOU-DIG' PLANS, ARE QUALITY LEVEL D AS DEFINED BY AS 5488.1:2019 AND ARE ONLY CURRENT AT THE DATE OF SFARCH
- ALL RELEVANT AUTHORITIES MUST BE CONTACTED TO DETERMINE THE FULL EXTENT OF SERVICES PRIOR TO ANY PLANNING OR WORKS NEAR THE SITE.

EXISTING UNDERGROUND SERVICES NOTES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE. AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY

INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY

CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.

CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

SITEWORKS NOTES

- 1. ORIGIN OF LEVELS:- REFER SURVEY NOTES
- 2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
- 3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
- 4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL
- 5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- 6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
- 7. ASPHALTIC CONCRETE SHALL CONFORM TO RMS. SPECIFICATION R116.
- 8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051 (UNBOUND), RMS. FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ OF BASECOURSE MATERIAL PLACED.
- 9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m OF SUB-BASE COURSE MATERIAL PLACED.
- 10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH RMS. FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
- 11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
- 12. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

- 2. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).
- 3. EXPANSION JOINTS (E.J) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
- 4. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.

- 1% AEP 5% AFP

- WELDED JOINTS.

| | | Bar Scales | |
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KERBING NOTES

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.N.O IN REINFORCED CONCRETE NOTES.

- 5. BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
- 6. IN THE REPLACEMENT OF KERB AND GUTTER : EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 600mm WIDE U.N.O.
- EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB AND GUTTER WITH 100mm DIA HOLE.
- EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.

STORMWATER DRAINAGE NOTES

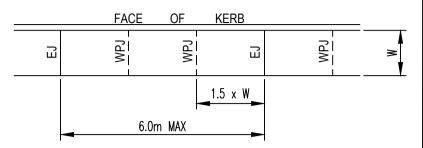
1. STORMWATER DESIGN CRITERIA

- (A) AVERAGE RECURRENCE INTERVAL: ROOFED AREAS TO SURCHARGE PIT EXTERNAL PAVEMENTS
- (B) RAINFALL INTENSITIES: TIME OF CONCENTRATION: 5 MINUTES 1% AEP = 269 mm/hr
- 5 % AEP = 210 mm/hr
- (C) RUNOFF COEFFICIENTS: C 100 ROOF AREAS: =10
- EXTERNAL PAVEMENTS: C 20 =0.95 . PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '4'
- APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O. B. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT
- EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED. 5. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m
- IN HEIGHT. 5. PIPES TO BE INSTALLED TO TYPE HS3 (ROAD) HS2 (LOTS) SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ÀLL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHÉRE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (2006) AND AS/NZS 3500 3.2
- 8. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.
- 9. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- 10. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- 11. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL. 12. GRATES AND COVERS SHALL CONFORM TO AS 3996.
- 13. ALL INTERNAL PIT DIMENSIONS TO CONFORM TO AS3500.3 TABLE 7.5.2.1
- 14. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE
- POSSIBILITY OF PERSONNEL FALLING DOWN PITS. 5. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

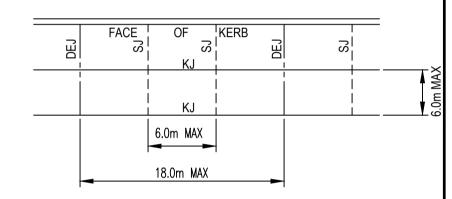
JOINTING NOTES

PEDESTRIAN PAVEMENT JOINTS

- 1. ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS. (U.N.O) 2. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT
- POINTS OF CURVES AND ELSEWHERE AT MAX. 6.0m CENTRES. 3. WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF
- 1.5 x WIDTH OF THE PAVEMENT.
- 4. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND OR ADJACENT PAVEMENT JOINTS.
- 5. PEDESTRIAN PAVEMENT JOINT DETAIL



- VEHICULAR PAVEMENT JOINTS
- 6. ALL VEHICULAR PAVEMENTS TO BE JOINTED AS FOLLOWS. (U.N.O) 7. KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES
- 8. SAWN JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES WITH DOWELED EXPANSION JOINTS AT MAX 18.0m CENTRES
- 9. VEHICULAR PAVEMENT JOINT DETAIL



CONCRETE NOTES

- 1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- 2. CONCRETE QUALITY
- ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

| ELEMENT | AS 3600 F'c MPa AT 28 DAYS | SPECIFIED SLUMP | NOMINAL AGG. SIZE |
|---------------------------|-------------------------------|--------------------|----------------------|
| VEHICULAR BASE | 32 | 60 | 20 |
| KERBS, PATHS, AND PITS | 32 | 80 | 20 |

- WITH AS 1379.
- WRITING BY AT & L.
- 4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
- 5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.M.S. SPECIFICATION R83.
- 7. REINFORCEMENT SYMBOLS:
- N DENOTES GRADE 450 N BARS TO AS/NZS 4671 GRADE N R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS/NZS 4671
- SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS/NZS 4671 NUMBER OF BARS E AND TYPE

17 N 20250

NOMINAL BAR SIZE IN mm _____ L_SPACING IN mm

THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS/NZS 4671.

8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

LAP TWO WIRES

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

- 1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
- 2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH a. LOCAL AUTHORITY REQUIREMENTS **b. EPA REQUIREMENTS** c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH
- 3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
- 4. WHEN STORMWATER PITS ARE CONSTRUCTED. PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
- 5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY, REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

LAND DISTURBANCE

2004

- 6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
- (A) INSTALL A WIND FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
- (B) INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
- (C) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
- (D) INSTALL SEDIMENT BASIN AS SHOWN ON PLAN
- (E) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
- (F) UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

- 7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
- 8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL

- 9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS. SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING
- 10. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
- 11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
- 12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

- 13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- 14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
- (A) PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
- (B) ENSURING THAT NOTHING IS NAILED TO THEM (C) PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
- (I) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER
- (II) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
- (III) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

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| ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN | | Height Datum | AHD | Approved | GJ | |
| THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L | | | | | | Title |

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL - PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE
- 3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN

- 6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS,

4 MINNA

BELROSE

GENERA

EROSION AND SEDIMENT CONTROL NOTES (CONTINUED)

STAGING

SUITABLE EROSION AND SEDIMENT CONTROLS SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT ALL STAGES OF WORKS, INCLUDING AT COMPLETION OF THE BULK EARTHWORKS WHERE SHOWN ON AT&L DRAWINGS OR WHERE DIRECTED BY THE SUPERINTENDENT OR NORTHERN BEACHES COUNCIL'S ENGINEERS. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, DOCUMENTING, INSTALLING AND MAINTAINING THE SEDIMENT AND EROSION CONTROLS REQUIRED TO SUIT THE SELECTED CONSTRUCTION STAGING. THIS IS TO BE DOCUMENTED IN THE FORM OF A SOIL AND WATER MANAGEMENT PLAN TO BE DEVELOPED BY THE CONTRACTOR AND APPROVED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION COMMENCEMENT.

SUCH CONTROLS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROTECTION OF THE ENVIRONMENT OPERATIONS ACT, NORTHERN BEACHES COUNCIL'S SPECIFICATIONS AND THE OFFICE OF ENVIRONMENT AND HERITAGE'S 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION. LANDCOM, (4TH EDITION) MARCH 2004 (REPRINTED 2006) (THE "BLUE BOOK"). VOLUME 1 AND VOLUME 2.

CONSTRUCTION SPECIFICATION

THESE DRAWINGS SHOULD BE READ IN CONJUCTION WITH NORTHERN BEACHES COUNCIL'S LATEST DRAWINGS AND SPECIFICATIONS.

- 2. WHERE THERE IS A CONFLICT THE FOLLOWING IS TO OCCUR
- 2.1. NOTIFY THE DESIGN ENGINEER AND/OR SUPERINTENDENT 2.2. THE NORTHERN BEACHES COUNCIL'S SPECIFICATION TAKES PRECEDENT



CONTRACTOR SHALL CALL; DIAL BEFORE YOU DIG 1100 PRIOR TO COMMENCEMENT OF WORK TO OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS

Civil Engineers and Project Managers

| A CLOSE NSW 2085 | Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au | | | | | |
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| L NOTES | Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION | A1 | | | | |
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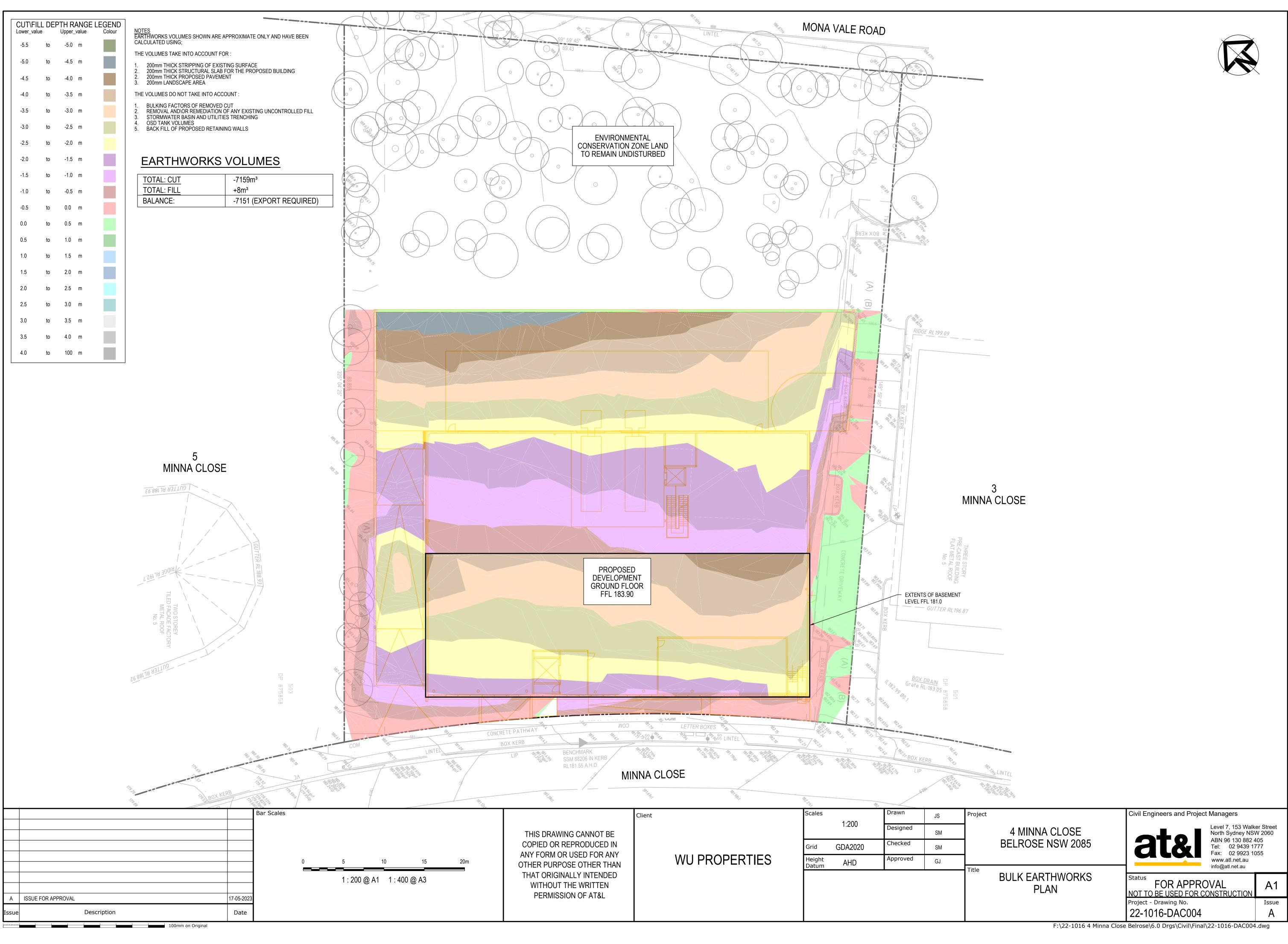
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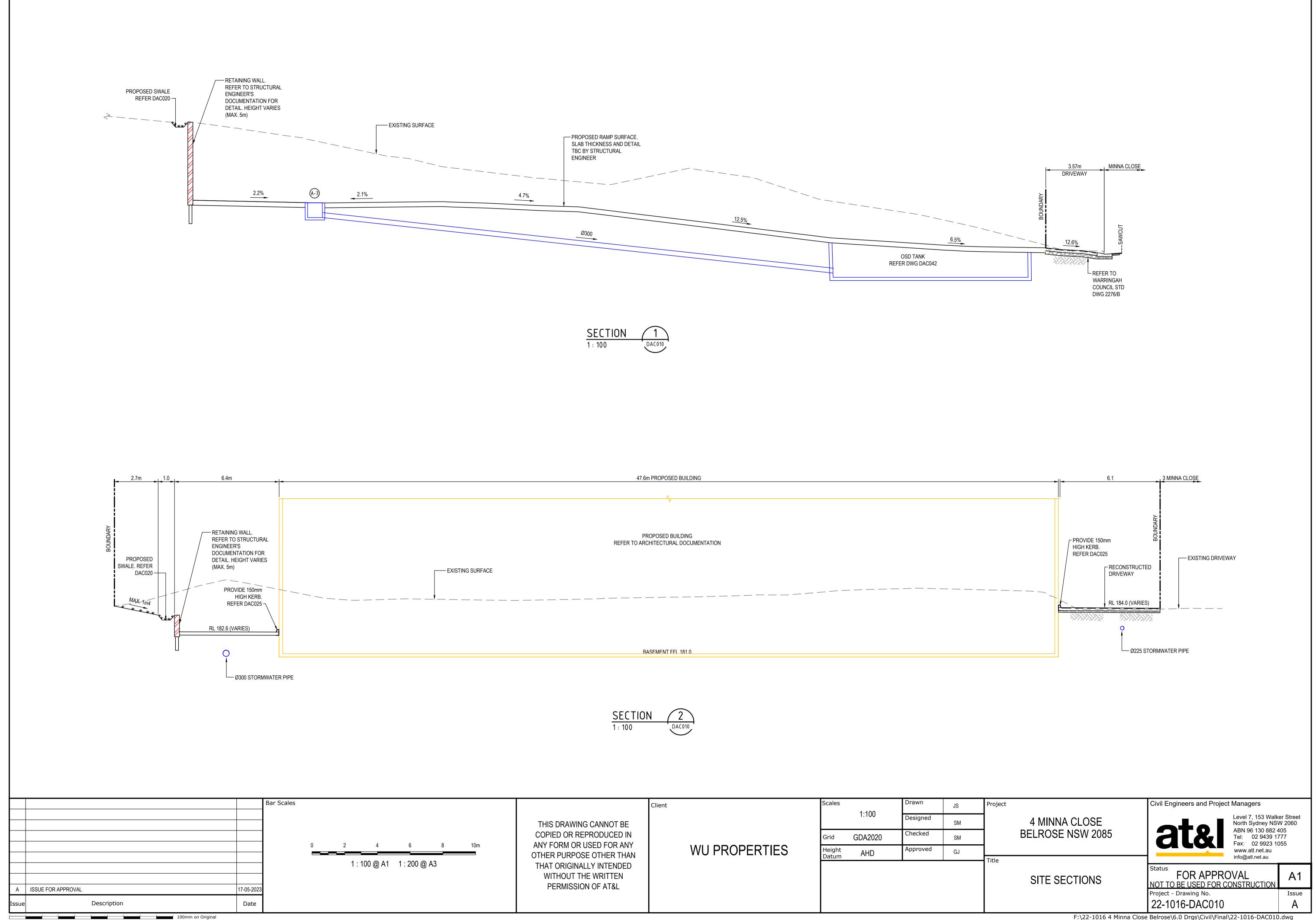
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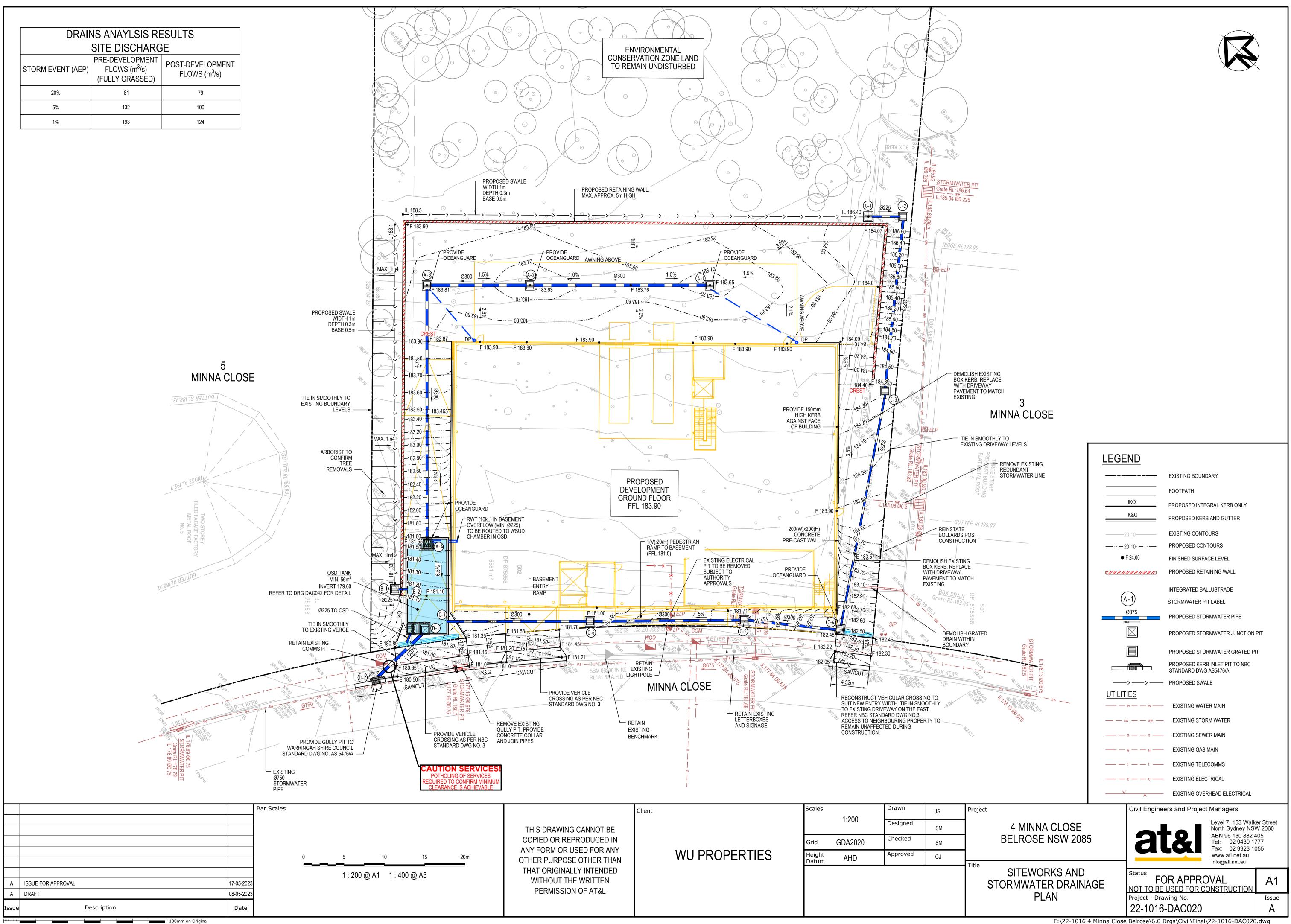






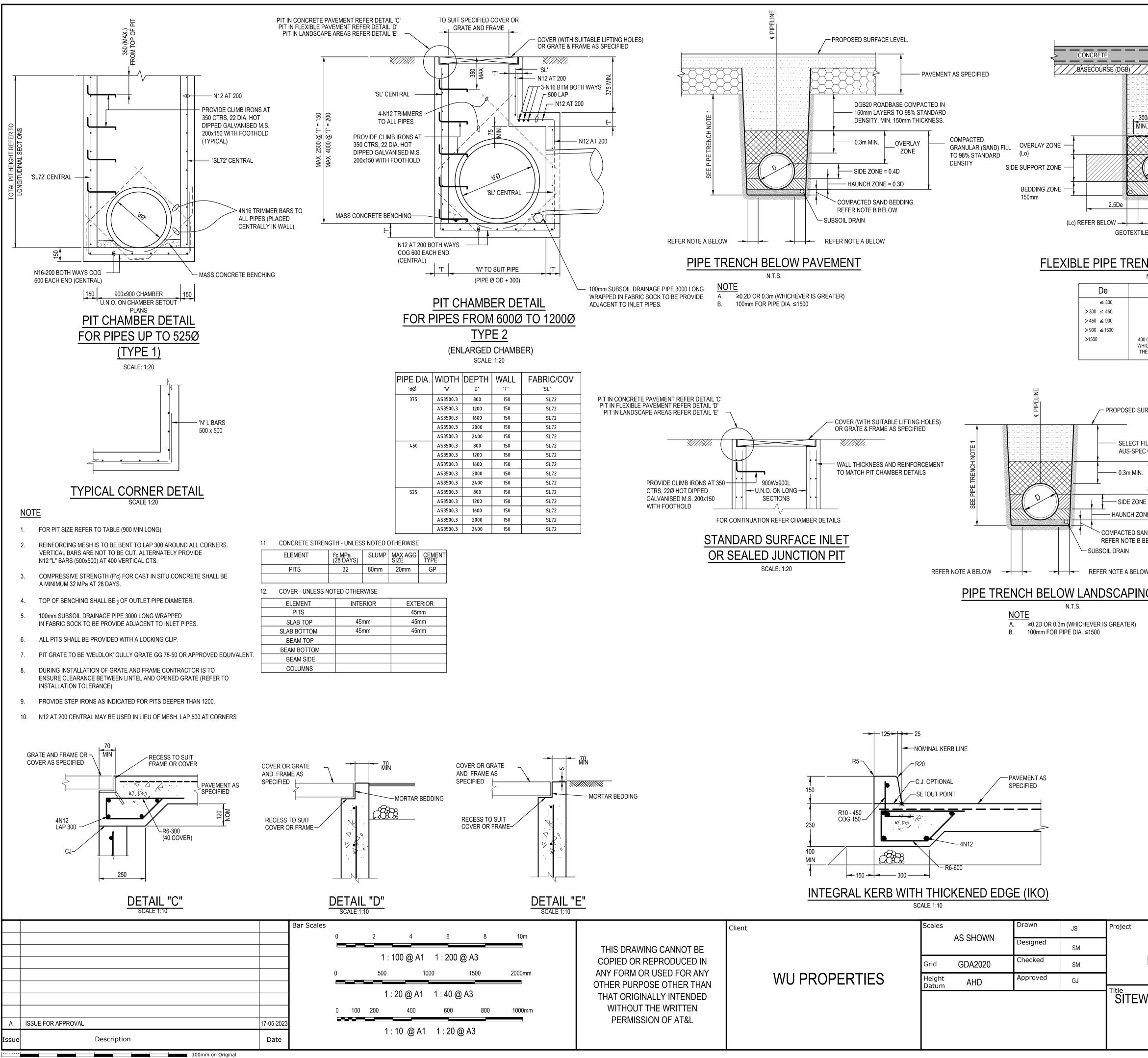


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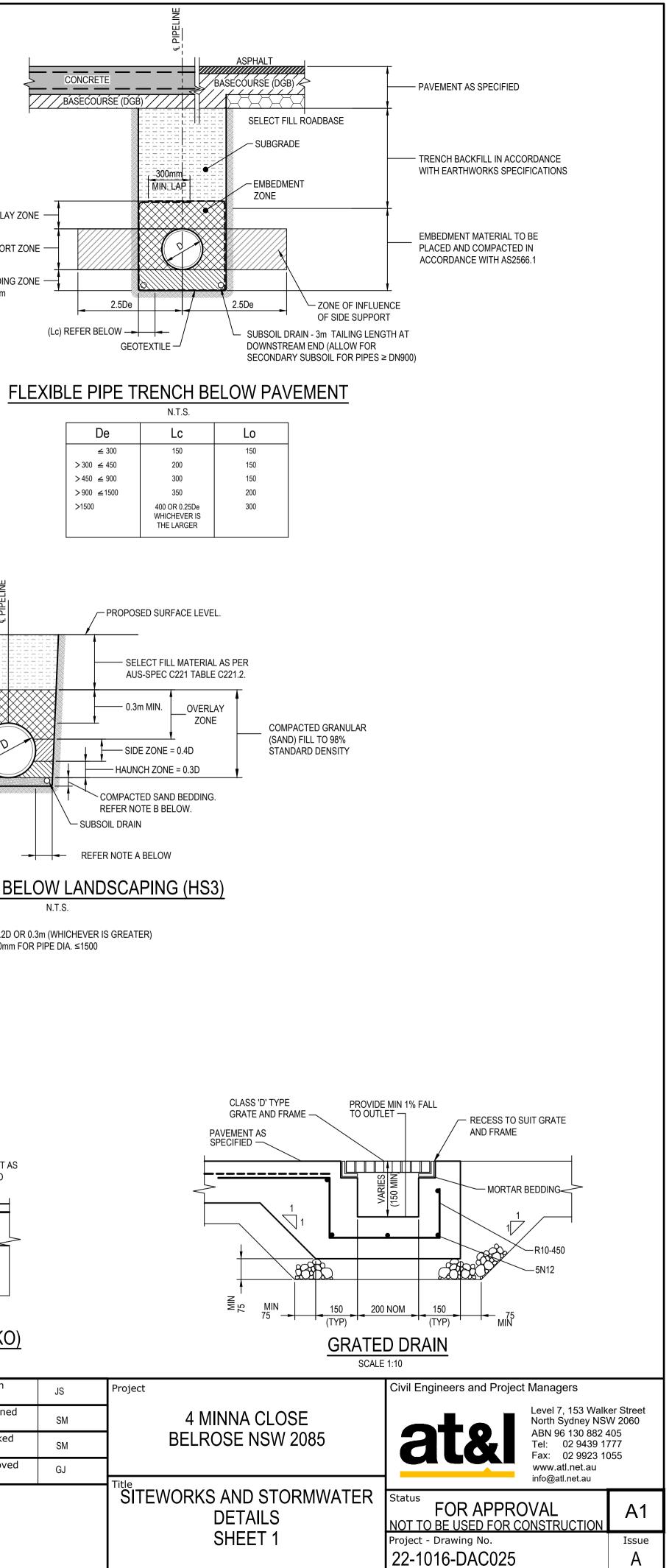




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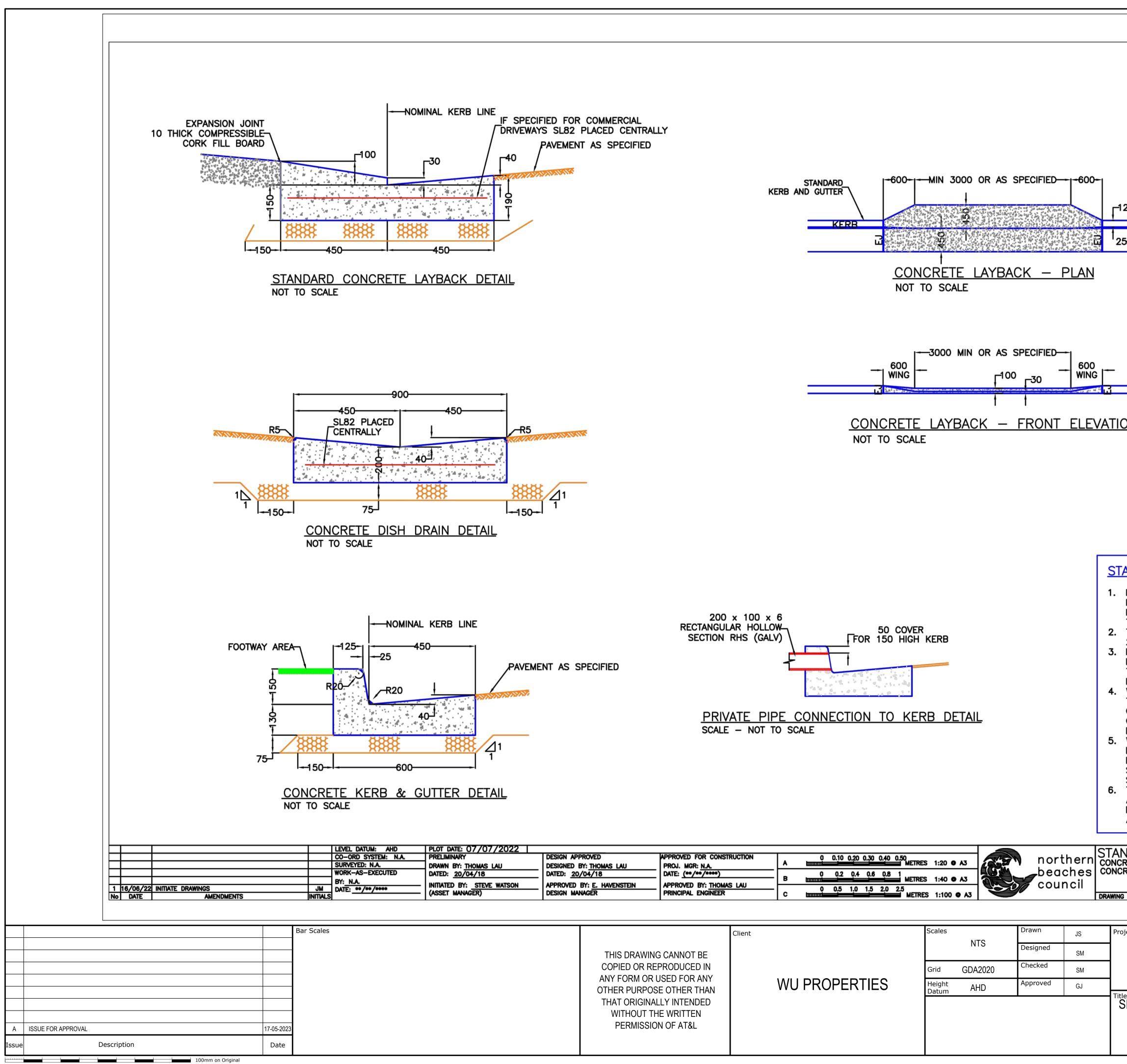
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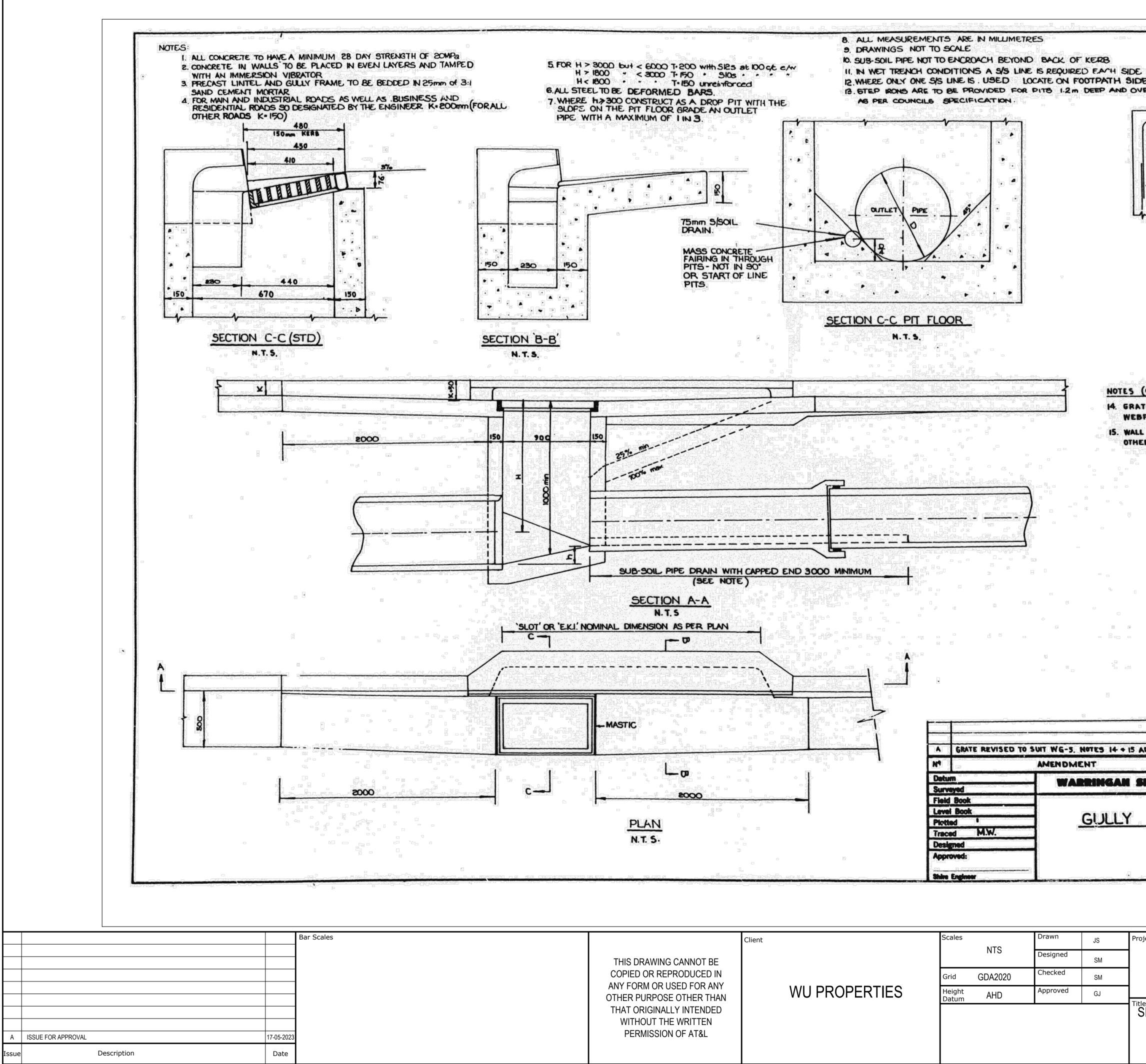
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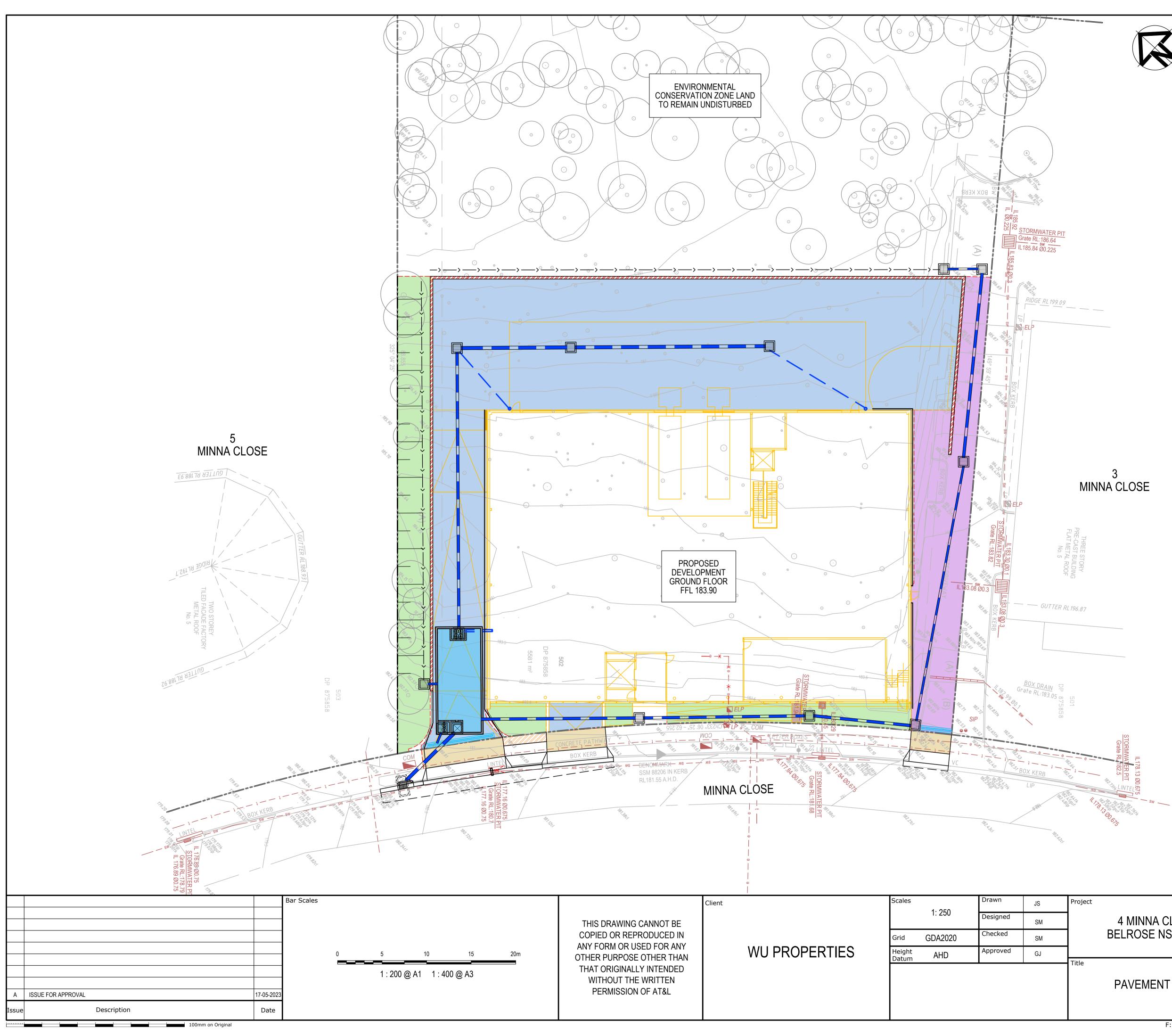
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| INT AS S | RECTANGUL SECTION | x 100 x 6 AR HOLLOW RHS (GALV) TO SCALE ATE PIPE CONNECTION TO KI - NOT TO SCALE | HKERB | STANDARD KERB AND GUTTER KERB AND GUTTER, CONCRETE EDGID DRAINS AND THE LIKE SHALL BE POPLAIN CONCRETE AND FINISHED WITH TROWEL. THE MINIMUM COMPRESSIVE STRENG 25MPa AT 28 DAYS. FOR ELEMENTS CONTRUCTED USING REINFORCEMENT WILL NOT BE REQU THAT THE CONCRETE COMPRESSIVE NOT LESS THAN 32MPa AT 28 DAYS WHERE COUNCIL OR ITS REPRESENT THAT THE GUTTER IS TO BE RETAIN CONTRACTOR SHALL PLACE A 75mm CUT IN THE GUTTER INVERT AND RE KERB AND OR LAYBACK. WHERE EXISTING KERB AND ASSOCIA IS TO BE REPLACED SAW CUT IN TH MINIMUM 500mm FROM LIP OF GUT SUBGRADE AND INSTALL ASPHALT ST SMOOTH TRANSITION. THE CONSTRUCTION OF ALL VEHICLE AND ASSOCIATED WORKS WITHIN THE RESERVE MUST BE UNDERTAKEN BY APPROVED CONTRACTOR. | NG, DISH DURED IN H A STEEL STH SHALL BE SLIPFORM, IRED PROVIDED STRENGTH IS S. TATIVE DIRECTS ED, THE DEEP SAW MOVE THE ATED ELEMENT HE ASPHALT TER, COMPACT TRIP TO MAKE E CROSSINGS E ROAD |
| DATED: <u>20</u> | BY: <u>THOMAS LAU</u> <u>/04/18</u> PROJ. MGR: <u>N.A.</u> DATE: <u>(**/**/****)</u> BY: <u>E. HAVENSTEIN</u> APPROVED BY: <u>THOMAS</u> | A turning O.2 0.4 0.6 0.8 1 B turning O.2 0.4 0.6 0.8 1 | beaches | STANDARD DRAWINGS CONCRETE KERB DETAILS AND NOTES CONCRETE DISH DRAIN AND LAYBACK DETAILS DRAWING NO. 3 | S & NOTES REVISION: 1 |
| | THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L | Client WU PROPERTIES | ScalesDrawnJSNTSDesignedSMGridGDA2020CheckedSMHeight DatumAHDApprovedGJ | Project 4 MINNA CLOSE BELROSE NSW 2085 Title SITEWORKS AND STORMWATER DETAILS SHEET 2 | Civil Engineers and Project Managers Civil Engineers and Project Managers Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Project - Drawing No. Issue 22-1016-DAC026 A |



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| SUB-SOIL PIPE DRAIN WITH CAPPED END 3000 MINIMUM | | | |
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| Client THIS DRAWING CANNOT BE | Scales Drawn JS NTS Designed SM | Project 4 MINNA CLOSE | Civil Engineers and Project Managers Level 7, 153 Walker Street North Sydney NSW 2060 |
| COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN WU PROPERTIES | Grid GDA2020 Checked SM | BELROSE NSW 2085 | ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au |
| THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN | | SITEWORKS AND STORMWATER DETAILS | Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION |
| PERMISSION OF AT&L | | SHEET 3 | Project - Drawing No. Issue 22-1016-DAC027 A |

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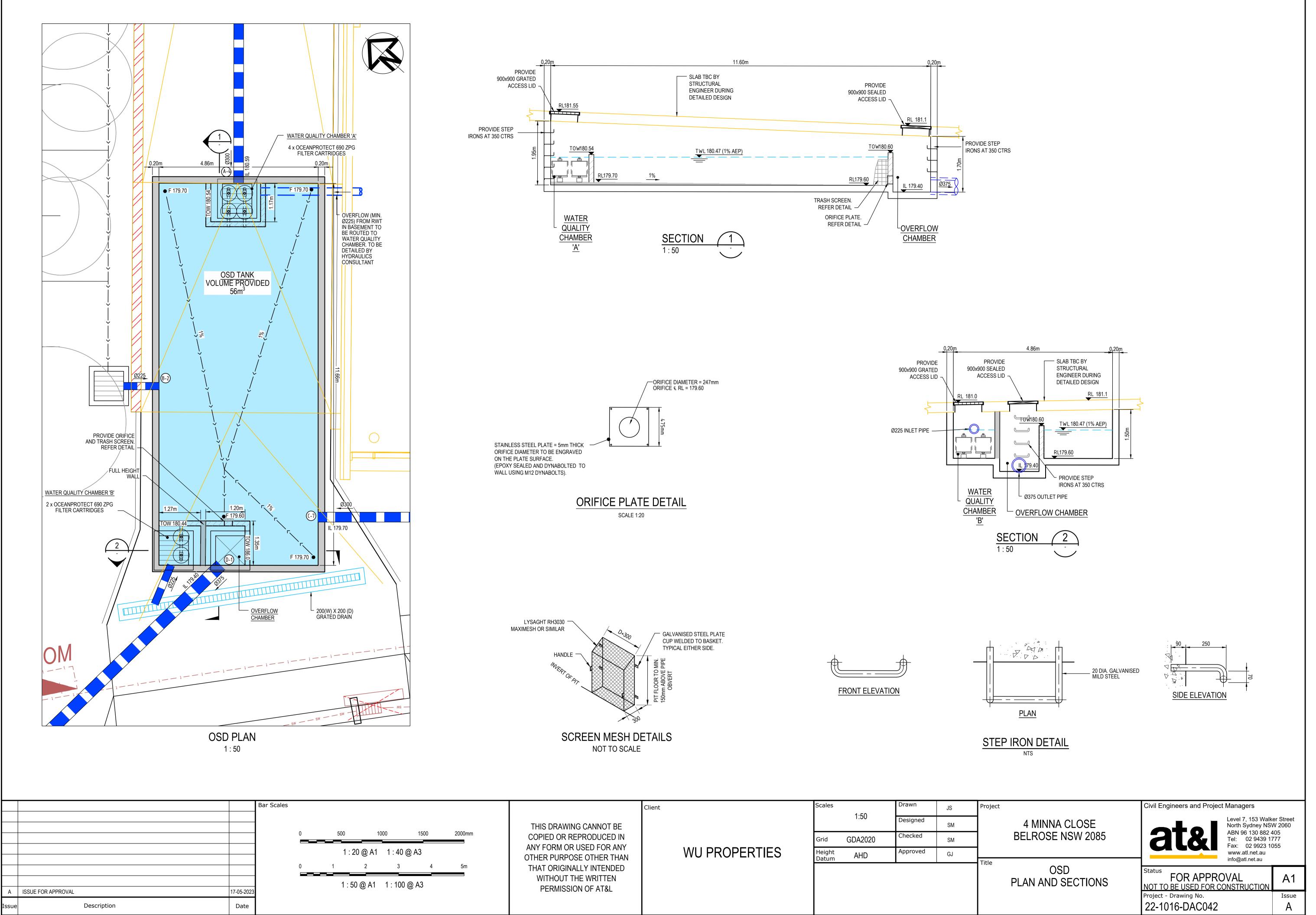


PAVEMENT LEGEND

| PAVEMENT TYPE 1 - CONCRETE HARDSTAND TO BE CONFIRMED BY STRUCTURAL ENGINEER DURING DETAILED DESIGN |
|--|
| PAVEMENT TYPE 2 - FOOTPATH 80mm THICK CONCRETE FOOTPATH ON 75mm THICK DGB20 ON COMPACTED SUBGRADE TO MIN. CBR 4% REFER NBC STANDARD DWG NO. 4 |
| PAVEMENT TYPE 3 - VEHICLE CROSSING 180mm THICK 32MPa CONCRETE CROSSING WITH SL82 MESH WITH 30mm TOP COVER ON 100mm THICK COMPACTED DGB20 OR AS APPROVED BY COUNCIL ON COMPACTED SUBGRADE TO MIN. CBR 4% REFER WARRINGAH COUNCIL DWG 2276/B |
| PAVEMENT TYPE 4 - LANDSCAPING REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS |
| PAVEMENT TYPE 5 - CONCRETE DRIVEWAY 180mm THICK 32MPa CONCRETE CROSSING WITH SL82 MESH WITH 30mm TOP COVER 100mm THICK COMPACTED DGB20 ON COMPACTED SUBGRADE TO MIN. CBR 4% |

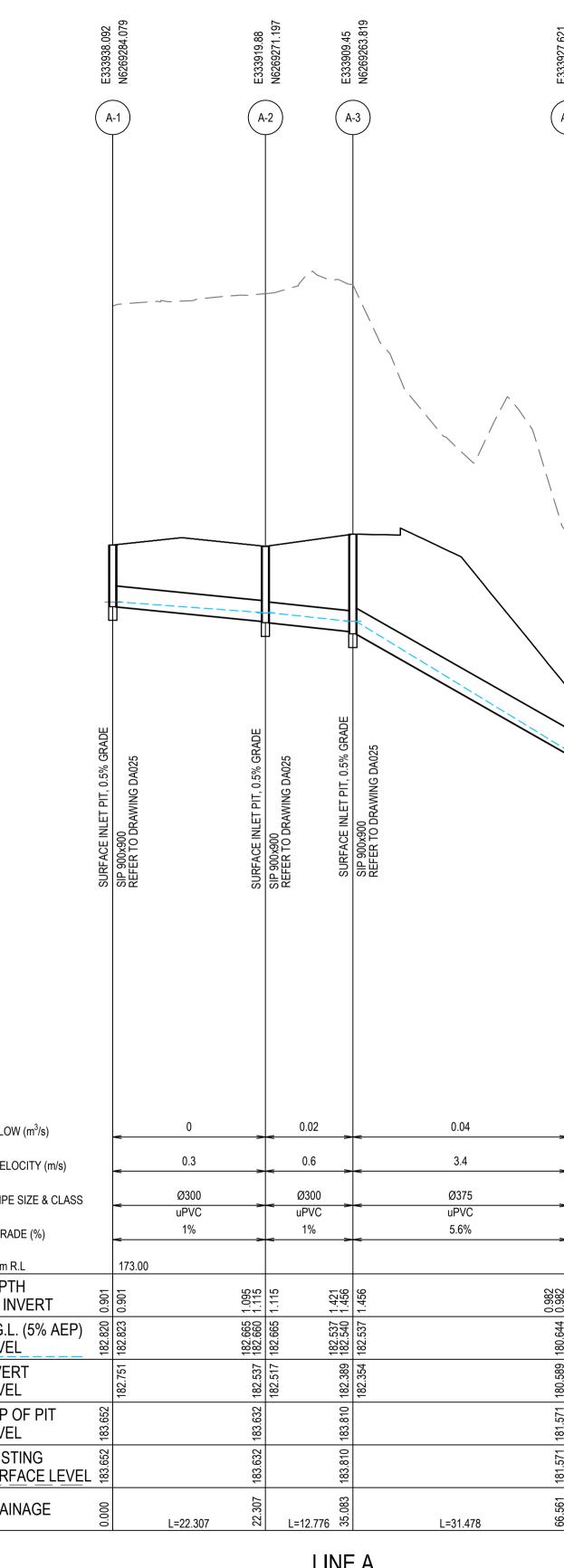
Civil Engineers and Project Managers Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 4 MINNA CLOSE BELROSE NSW 2085 www.atl.net.au info@atl.net.au Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION A1 PAVEMENT PLAN Project - Drawing No. Issue 22-1016-DAC030 A

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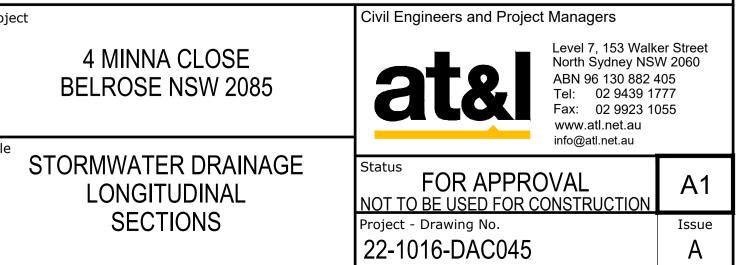
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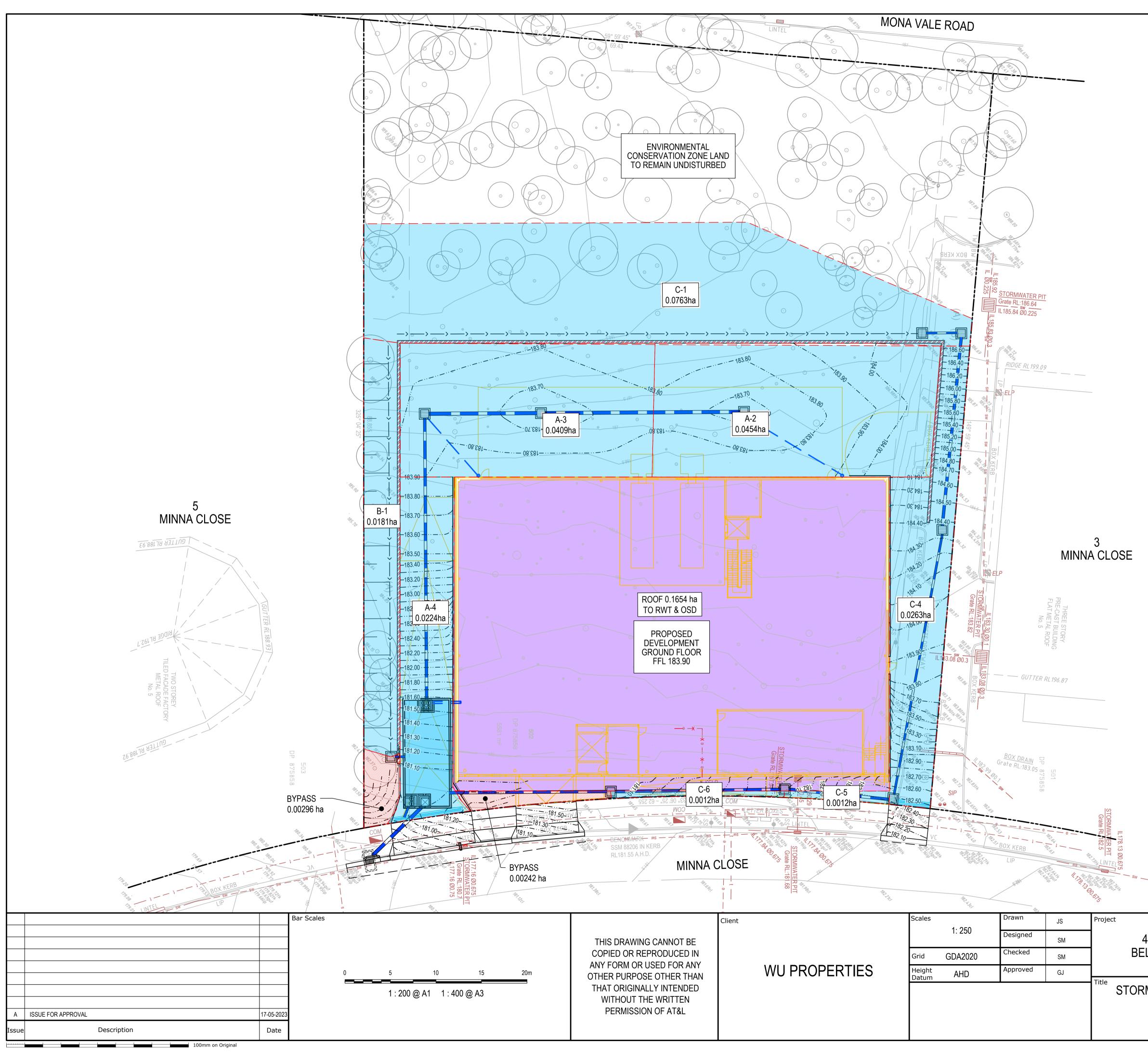
| | | E333919.88 N6269271.197 E333909.45 E333909.45 N6269263.819 | (F) E333927.621 N6269238.115 | E333927.974 N6269230.776 E333929.217 N6269231.715 | E333949.168 N6269302.365 C C N6269304.82 N6269304.82 | ස (133363.387 හරි269285.919 | ලි E333975.97 N6269258.515 ග6269258.515 ග6269258.516 ග6269252.629 | ය වි N6269241.492 | දා E333935.246 N6269231.616 | E333933.945 N6269228.305 C R N6269228.305 E333932.554 N6269220.218 |
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| | | | | | SURFACE INLET PIT, 0.5% GRADE SIP 600x600 SURFACE INLET PIT, 0.5% GRADE SIP 900x900 REFER TO DRAWING DA025 | GRADE | | | | |
| | ING ING | SURFACE INLET PIT, 0.5% GRADE SIP 900x900 REFER TO DRAWING DA025 SURFACE INLET PIT, 0.5% GRADE SIP 900x900 REFER TO DRAWING DA025 | | SURFACE INLET PIT, 0.5% GRADE SIP 900x900 REFER TO DRAWING DA025 OSD TANK | | SURFACE INLET PIT, 0.5% SIP 900x900 REFER TO DRAWING DA02 | SURFACE INLET PIT, 0.5% GRADE SIP 900x900 REFER TO DRAWING DA025 X900 TO DRAWING DA025 | DA025 | | OSD TANK KERB INLET PIT. REFER DAC027 |
| FLOW (m ³ /s) VELOCITY (m/s) PIPE SIZE & CLASS | 0 0.3 Ø300 uPVC | 0.02 0.6 Ø300 | 0.04 3.4 Ø375 uPVC | 0.01 0.2 Ø225 ūPVC SN10 | 0.04 0.04 3.7 2.7 Ø225 Ø225 uPVC SN10 uPVC SN | 1.9 Ø225 | 0.05 0.05 1.7 Ø300 | 0.05 0.05 1.4 0.7 Ø300 Ø300 DV(0.0)140 | | 0.13 3.7 Ø375 RCP |
| GRADE (%) Datum R.L DEPTH TO INVERT H.G.L. (5% AEP) LEVEL INVERT LEVEL TOP OF PIT LEVEL TOP OF PIT LEVEL EXISTING SURFACE LEVEL | 1% 173.02 182.820 182.823 182.751 182.751 182.751 182.751 182.652 182.652 182.823 182.751 182.751 182.751 182.751 182.751 182.751 182.751 182.751 182.751 182.751 182.751 182.751 182.751 182.751 182.751 182.855 182.855 182.855 182.855 182.855 182.855 182.751 | 183.632 183.632 182.537 182.660 1.115 82.565 1.115 82.555 1.115 82.555 1.115 82.555 1.115 85 5555 1.115 85 55555 1.115 85 55555540 1.421 182.389 182.537 1.456 85 5540 1.455 85 556 85 5540 1.455 85 5540 1.455 85 5540 1.455 85 5540 1.455 85 5540 1.455 85 5540 1.455 85 5540 1.455 85 5540 1.455 85 5540 1.455 85 5540 1.455 85 5540 1.455 85 5540 1.455 85 5540 1.455 85 556 85 5540 1.455 85 556 85 5540 1.455 85 556 8555 855556 8555556 85555 855555556 855555555 | 31.571 181.571 180.589 180.644 0.982 180.644 0.982 | 81.155 181.155 180.307 180.625 1.128 0.848 0.307 180.625 0.848 0.348 0.307 180.625 0.848 | 86.974 186.110 1.088 0.5.074 186.040 1.088 1.000 185.886 186.040 1125.886 185.601 185.605 1120 1.088 185.601 1125.665 1.088 1125.600 185.601 185.500 1.339 185.500 1.3399 185.291 185.500 185.291 185.500 185.291 1.3399 185.291 1.3399 185.291 1.3399 | | 32.524 182.524 181.532 181.798 0.892 31.987 181.612 181.784 0.912 31.987 181.987 181.120 1.015 31.987 181.987 181.120 1.015 | UPVC SN10 5.2% 1.4% 5.2% 1.4% 5.2% 1.4% 5.2% 1.4% 5.2% 1.002 | | 181.096 181.096 179.730 1.496 179.400 179.732 1.496 1.496 180.482 179.400 179.732 1.496 1.00 180.482 179.190 179.322 1.293 00.02 180.482 177.160 179.322 3.32 3.32 |
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EXISTING COMMS LINE. SIZE AND DEPTH TBC.

NOTE: - TAILWATER LEVEL ADOPTED AS EXISTING PIT LID LEVEL FOR 5%, 20% AND 1% AEP STORM EVENTS



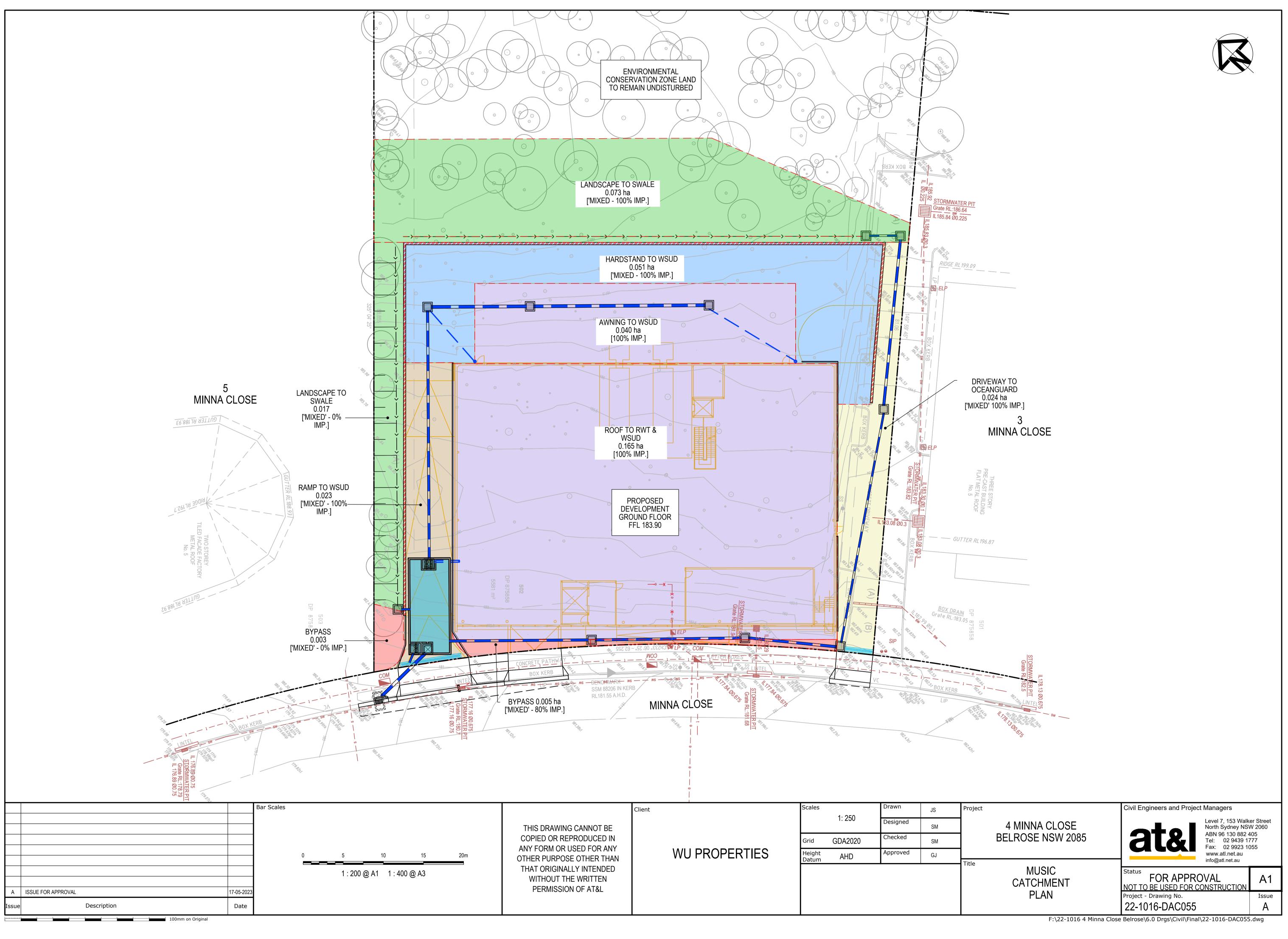
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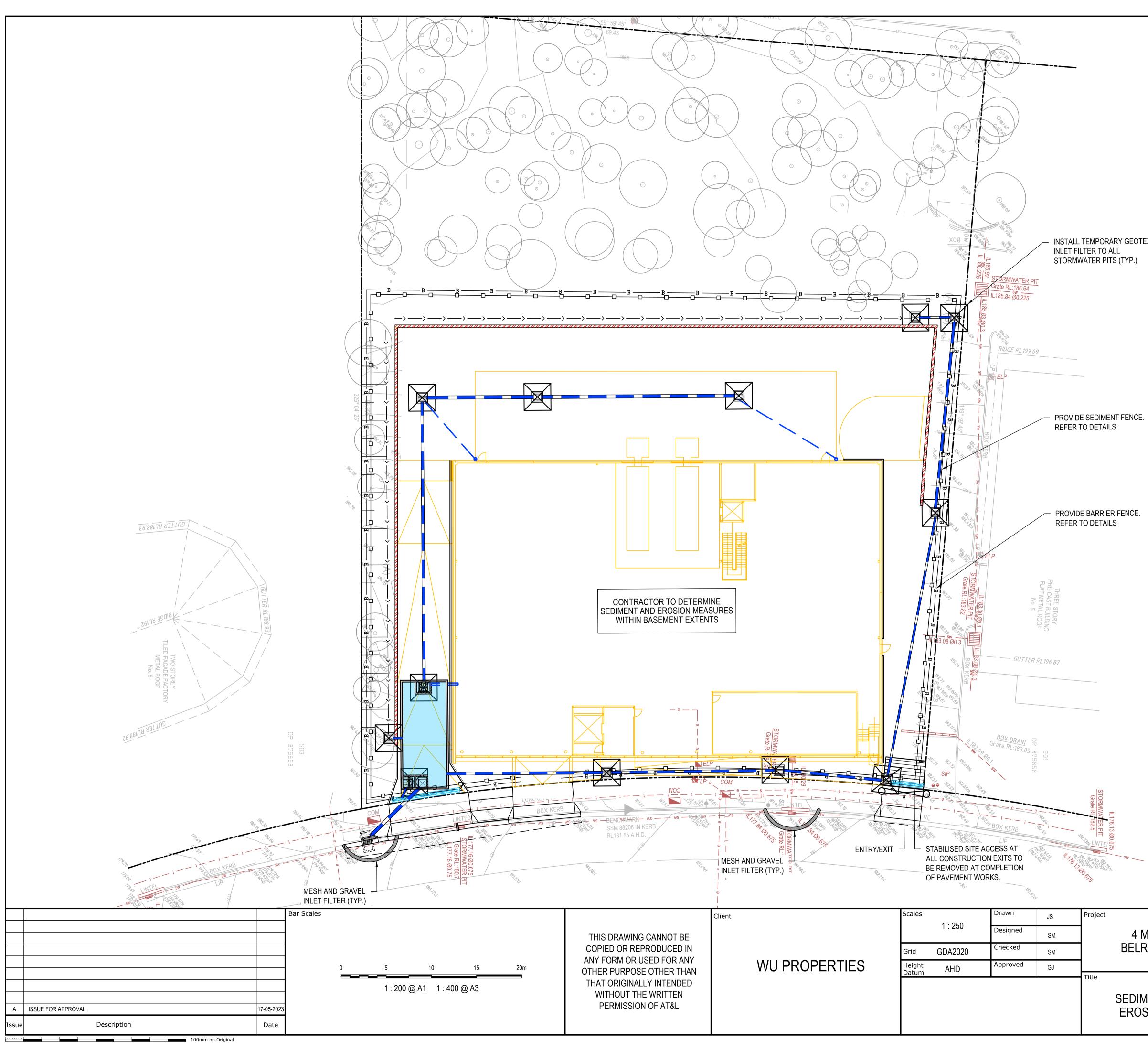


Civil Engineers and Project Managers Level 7, 153 Walker Street North Sydney NSW 2060 4 MINNA CLOSE ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 **BELROSE NSW 2085** www.atl.net.au info@atl.net.au STORMWATER DRAINAGE Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION A1 CATCHMENT PLAN Project - Drawing No. Issue 22-1016-DAC050

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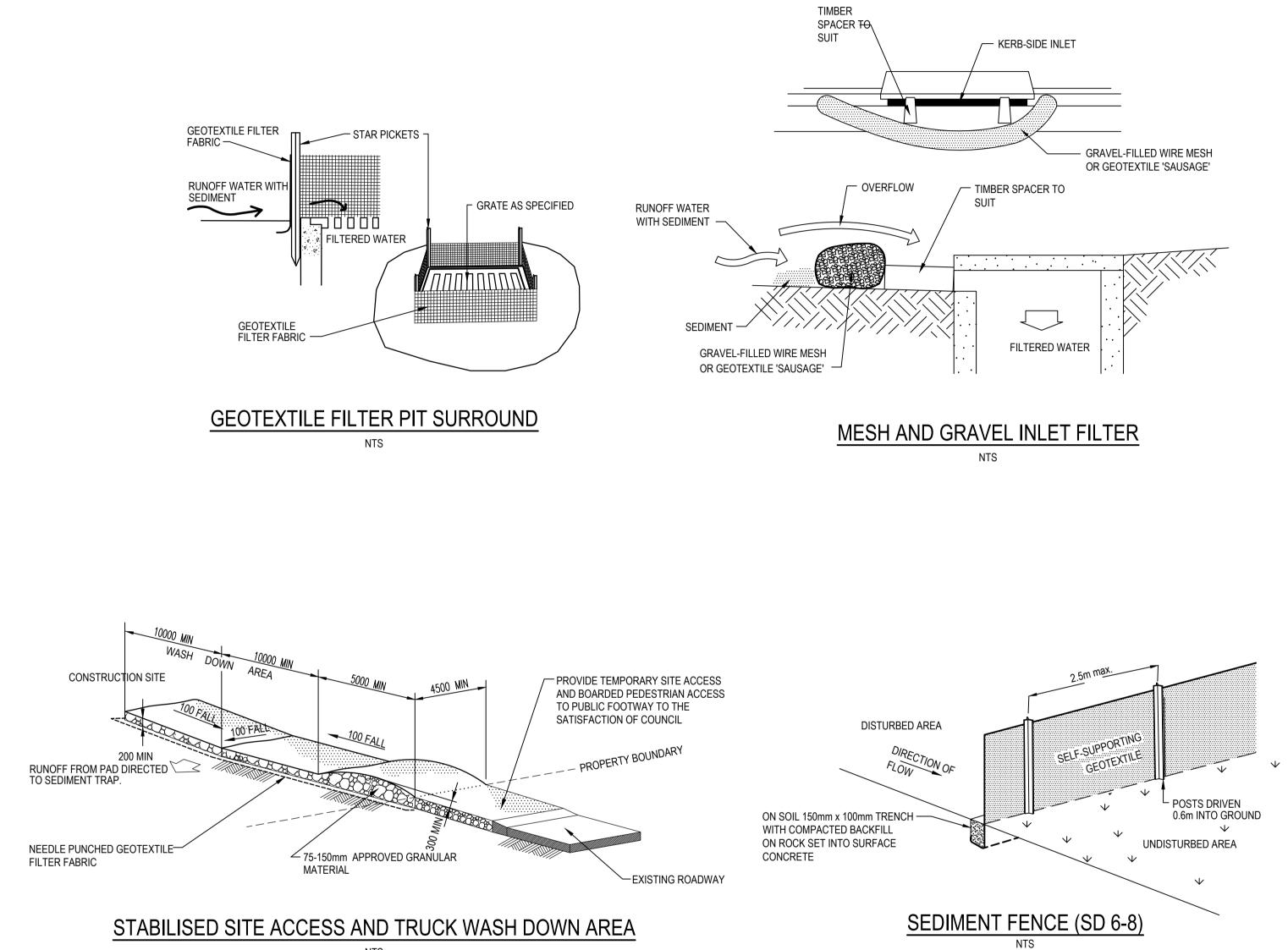
| -00 | SEDIMENT FENCE (SD 6-8) | | | | | |
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| >> | CATCH DRAIN | | | | | |
| ——— В ——— | BARRIER FENCE | | | | | |
| \frown | MESH AND GRAVEL INLET FILTER (SD 6-11) | | | | | |
| \boxtimes | GEOTEXTILE INLET (SD 6-12) | | | | | |
| | STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14) | | | | | |
| \bigcirc | PROPOSED SITE ACCESS GATE | | | | | |

INSTALL TEMPORARY GEOTEXTILE

Civil Engineers and Project Managers Level 7, 153 Walker Street North Sydney NSW 2060 4 MINNA CLOSE ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 **BELROSE NSW 2085** www.atl.net.au info@atl.net.au Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION A1 SEDIMENTATION AND **EROSION CONTROL** Project - Drawing No. Issue PLAN 22-1016-DAC060

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| | | | 0 100 200 400 600 800 1000mm | | | | | | SM | 4 MINNA CLOSE | North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au | | |
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