

SINSW



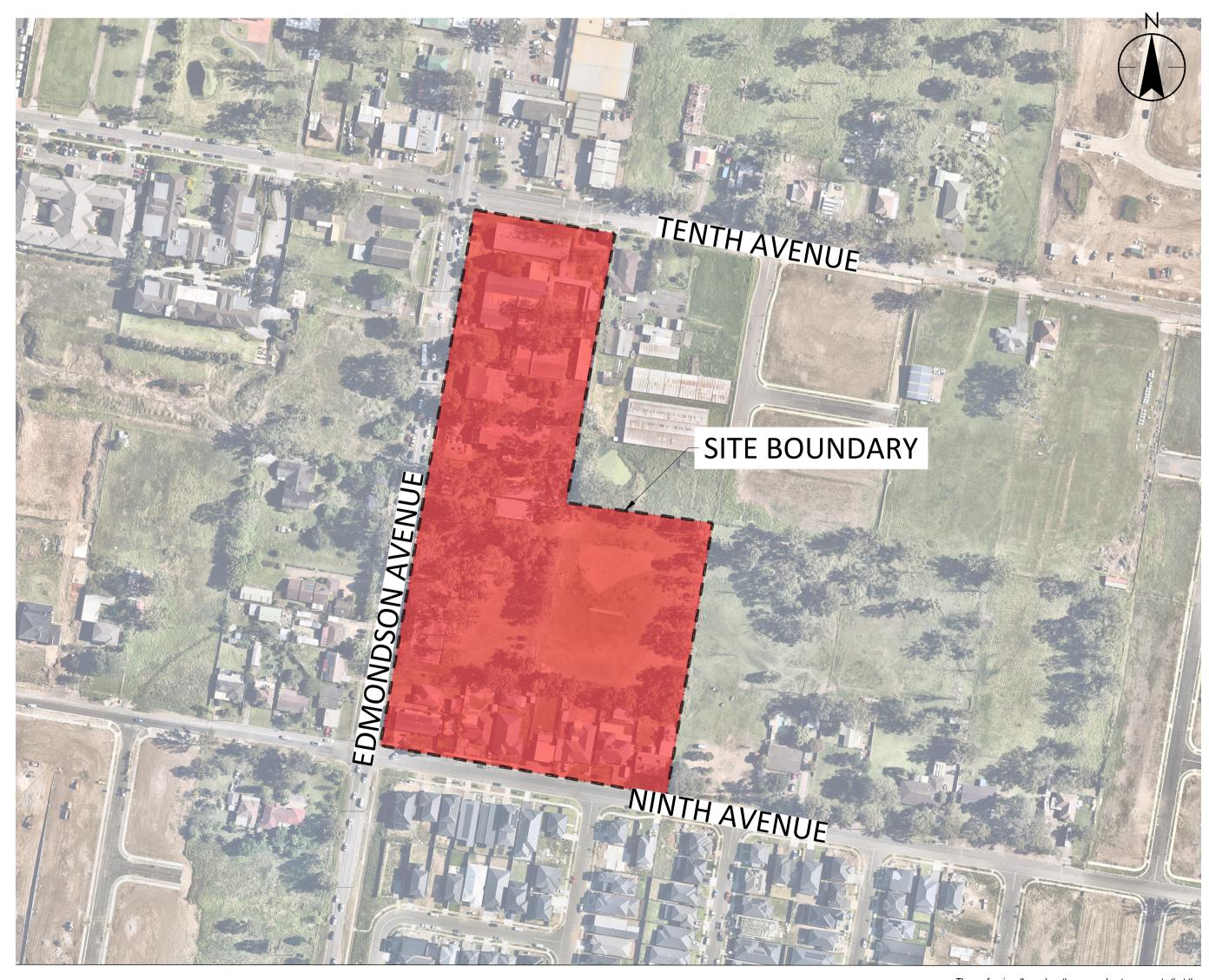
AUSTRAL PUBLIC SCHOOL UPGRADE

EDMONDSON AVENUE, AUSTRAL, NSW 2179

ISSUED FOR REF 2025.01.17

Stantec Project Number: 304000720

| DRAWING LIST | | |
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| NO. | DRAWING NAME | |
| CI-1-000-001 | COVER SHEET, DRAWING REGISTRY AND LOCALITY PLAN | |
| CI-1-007-001 | GENERAL NOTES | |
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| CI-1-526-001 | STORMWATER DRAINAGE DETAILS SHEET 1 OF 7 | |
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| CI-1-527-001 | STORMWATER PIT SCHEDULE | |



In professional's seal on the cover sheet represents that the information on the cover sheet is accurate in designer's professional opinion but does not assume professional responsibility for documents sealed by others that are referenced on the cover sheet. All professionals sealing drawings as a part of the design are professionally responsible for their own sealed documents.

SUPPLEMENT A CIVIL SPECIFICATION. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL /

RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK

ALL DIMENSIONS ARE IN MILLIMETRES (mm) & ALL LEVELS ARE IN METRES (m), UNO (UNLESS NOTED OTHERWISE).

NO DIMENSION SHALL BE OBTAINED BY SCALING THE DRAWINGS. ALL LEVELS AND SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS

SHALL BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF WORKS. EXISTING SERVICES WHERE SHOWN HAVE BEEN PLOTTED FROM SUPPLIED DATA AND SUCH THEIR ACCURACY CAN NOT BE GUARANTEED. IT IS THE

EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK. CAD FILES / DTM FILES TO BE SUPPLIED IN AUTOCAD FORMAT FOR SETOUT PURPOSES (UPON REQUEST).

RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LEVEL OF ALL

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN SHOWN AS PER THE TOPOGRAPHIC SURVEY RECEIVED ON 24/05/2024 PREPARED BY MONTEATH & POWYS, REFERENCE '220216C 08', DATED 24/05/2024.

THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. STANTEC 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 STANTEC.

IF AN EXISTING SERVICES PLAN HAS BEEN SUPPLIED THIS DOES NOT TAKE PRECEDENCE OVER ORIGINAL SURVEY PLAN.

CONTRACTOR TO REVIEW ORIGINAL SURVEY PLAN AND NOTES. THIS INCLUDES REVIEW OF SUBSURFACE UTILITY CLASS INFORMATION

PROTECTION OF TREES

WHERE STORMWATER DRAINAGE IS LAID IN THE VICINITY OF TREES / CANOPIES OF TREES. THE WORKS ARE TO BE COMPLETED TO THE PROJECT ARBORISTS REQUIREMENTS

EXISTING SERVICES

EXISTING SERVICES, WHERE SHOWN, HAVE BEEN PLOTTED FROM SUPPLIED DATA AND SUCH THEIR ACCURACY CAN NOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK.

EXISTING SERVICES SHOWN ON THE PLANS ARE LOCATED APPROXIMATELY BASED ON INFORMATION SUPPLIED BY THE RELEVANT AUTHORITIES AND/OR SURVEY RECEIVED. STANTEC DOES NOT TAKE RESPONSIBILITY FOR THE SUITABILITY OR LOCATION/DEPTH OF THE EXISTING SERVICES.

STANTEC DOES NOT TAKE RESPONSIBILITY FOR ANY POSSIBLE DESIGN ADJUSTMENT OF ANY ADDITIONAL EXISTING SERVICES OR THE ASSOCIATED AUTHORITY NEGOTIATIONS AS A RESULT OF THE PROPOSED

THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. STANTEC DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION

DRAWINGS. EXISTING BUILDINGS, EXTERNAL STRUCTURES AND TREES SHOWN ON THESE DRAWINGS ARE FEATURES EXISTING PRIOR TO ANY DEMOLITION WORKS.

THE CONTRACTOR SHALL UNDERTAKE POTHOLING AND/OR INVESTIGATION WORKS TO LOCATE ALL EXISTING SERVICES PRIOR TO COMMENCING WORKS. THIS INCLUDES CONFIRMING THE LOCATION AND DETAILS OF THE EXISTING SITE STORMWATER DISCHARGE.

ALL AREAS WITHIN THE EXTENT OF WORKS TO BE SCANNED FOR EXISTING UTILITY SERVICES AND LOCATIONS PRIOR TO CONSTRUCTION.

WHIST EVERY EFFORT HAS BEEN MADE TO AVOID CLASHES WITH EXISTING SERVICES, EXTENT AND QUALITY OF SUPPLIED DATA IS INSUFFICIENT FOR COMPLETE CLASH DETECTION ACCURACY. CONTRACTOR TO TAKE CARE WORKING AROUND EXISTING UTILITIES AND REPORT ANY POSSIBLE CLASHES BACK TO THE ENGINEER.

THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION, REMOVAL AND DISPOSAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA, AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT. 10. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL

BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED. 1. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SERVICE AUTHORITY. ONCE DIVERSION IS COMPLETE AND COMMISSIONED, THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE RELEVANT SERVICE

2. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN WRITTEN APPROVAL OF THEIR PROGRAMME FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.

3. CLEARANCE AND COVER REQUIREMENTS SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY BEFORE COMMENCEMENT OF WORKS AND SHALL BE ADHERED TO AT ALL TIMES.

PROPOSED SERVICES NOTES

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT SERVICE AUTHORITY DOCUMENTATION AND CURRENT NSW STREETS OPENING CONFERENCE GUIDE TO CODES AND PRACTICES FOR STREETS OPENING LITERATURE.

. THE CONTRACTOR SHALL ATTEND, MANAGE & SUPERVISE THE PROVISION OF PUBLIC UTILITY SERVICES TO THE WORKS GENERALLY AS INDICATED ON THE SERVICES PLANS, NOTING THAT PRIOR & DURING CONSTRUCTION THE PUBLIC UTILTITY AUTHORITIES WILL FINALISE THEIR DOCUMENTATION TO CONSTRUCTION ISSUE STANDARD.

THE CIVIL CONTRACTOR (TRENCH PROVIDER) IS TO ARRANGE ON SITE MEETING WITH ALL SERVICE AUTHORITIES PRIOR TO THE INSTALLATION OF CONDUITS.

4. THE CIVIL CONTRACTOR TO CO-ORDINATE INSTALLATION OF ELECTRICITY, GAS, TELECOMMUNICATION, WATER AND SEWER SERVICES. ELECTRICITY, GAS AND TELECOMMUNICATION SERVICES ARE TO BE LAID

FOLLOWING THE INSTALLATION OF STORMWATER, SEWER AND WATER SERVICES AND KERB AND GUTTER 6. ALL UTILITY AUTHORITY REPRESENTATIVES TO INSPECT ROAD

CROSSINGS PRIOR TO SEALING. 7. ALL ELECTRICAL ROAD CROSSINGS TO BE CLASS 6 (ORANGE) uPVC

CONDUITS. ALL GAS ROAD CROSSINGS TO BE uPVC GREY SEWER GRADE CONDUITS.

). FOR ALL STREET POLES, REFER TO THE ELECTRICAL ENGINEER'S DOCUMENTATION. STREET POLES TO BE POSITIONED THE APPROPRIATE DISTANCE FROM FACE OF KERB TO FACE OF POLE ACCORDING TO THE CURRENT NSW STREETS OPENING CONFERENCE GUIDE TO CODES AND PRACTICES FOR STREETS OPENING LITERATURE. CONTRACTOR TO ALLOW TO EXCAVATE AND BACKFILL TRENCH GENERALLY IN ACCORDANCE WITH NOTE 2.

10. ALL SERVICE PIT COVERS AND MARKERS ARE TO BE LAID WHOLLY WITHIN THE CONCRETE FOOTPATH. CONTACT SUPERINTENDANT SHOULD DIFFICULTIES ARISE.

11. TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES. PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR HOLD OUT THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY.

12. THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT. BEFORE USING MACHINE EXCAVATORS TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POTHOLING TO IDENTIFY IT'S LOCATION TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO IT'S PROPERTY AND LOSSES CAUSED TO TELSTRA AND IT'S CUSTOMERS.

STORMWATER DRAINAGE NOTES

ON COMPLETION OF STORMWATER INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION, INCLUDING KERBS. FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD

PAVEMENTS, UNLESS DIRECTED OTHERWISE. . THE CONTRACTOR IS TO EXERCISE DUE CARE AND ATTENTIION DURING PIPE INSTALLATION ENSURING PIPES ARE NOT DAMAGES DURING CONSTRUCTION AND CONSTRUCTION TRAFFIC DOES NOT EXCEED THE LOAD SPECIFIED FOR THE PIPE PROPOSED. IF THE PROPOSED PIPE CLASS WILL NOT WITHSTAND THE CONSTRUCTION LOAD, THE CONTRACTOR IS TO UPGRADE PIPE CLASSES

TO SUIT AT NO COST TO THE PRINCIPAL B. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS, U.N.O.

I. PIPES LESS THAN OR EQUAL TO 225 DIA. SHALL BE uPVC DWV GRADE CLASS SN8 IN ACCORDANCE WITH AS/NZS 1260:2009-PVC-U PIPES AND FITTINGS FOR DRAIN, WASTE AND VENT APPLICATION WITH SOLVENT WELDED JOINTS.

5. EQUIVALENT STRENGTH REINFORCED CONCRETE OR FIBROUS REINFORCED CONCRETE PIPES MAY BE USED SUBJECT TO APPROVAL BY THE SUPERINTENDENT.

6. CONTRACTOR IS TO ENSURE THAT ALL DRAINAGE STRUCTURES ARE ADEQUATELY REINFORCED AND SHALL PROVIDE DESIGN CERTIFICATION FOR ALL REINFORCED CONCRETE LIDS.

. 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.

B. PIPES TO BE INSTALLED TO TYPE H2 (NOT UNDER ROADWAYS) OR TYPE HS2 (UNDER ROADWAYS) SUPPORT IN ACCORDANCE WITH AS 3725 (2007). IN ALL CASES BACKFILL TRENCH 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% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN

9. PIT COVER LEVELS TO MATCH SURROUNDING FINISHED LEVELS. DESIGN FINISHED SURFACE LEVELS OF STRUCTURES ARE FOR THE CONTRACTORS GUIDANCE ONLY. ACTUAL FINISHED LEVELS SHALL BE SET OUT AS DIRECTED ON SITE IN KEEPING WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE

LOCAL AUTHORITY AND ACTUAL FINISHED GROUND LEVELS. 10. STORMWATER PIT COVERS FOR JUNCTION AND GRATED PITS TO COMPLY WITH AS 3996 FOR:

LOAD CLASS TYPICAL USE INTERNAL PEDESTRIAN PRECINCTS ONLY. NO VEHICULAR TRAFFIC EXTERNAL AREAS INCLUDING FOOTPATHS, FOOTWAYS CLASS B AND LIGHT VEHICULAR TRAFFIC ONLY CLASS D CARS, TRUCKS (HIGHWAY TRAFFIC) AND COMMERCIAL

VEHICULAR TRAFFIC HEAVY DUTY FORKLIFTS AND EARTHMOVING EQUIPMENT

11. REFER TO TABLE BELOW FOR MINIMUM PIT DIMENSIONS (AS 3500.3 TABLE 7.5.2.1):

By Appd YYYY.MM.DD

DEPTH TO INVERT LESS THAN 600mm 450mm 450mm FROM 600mm TO 900mm 600mm 600mm FROM 900mm TO 1200mm 600mm 900mm MORE THAN 1200mm 900mm 900mm

STORMWATER DRAINAGE NOTES

ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (2006) AND AS/NZS 3500 3.2 (2010). PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO

APPROVAL BY STANTEC AUSTRALIA. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.

PIPES FOR SUBSOIL DRAINS SHALL BE SLOTTED 100mm DIA. CLASS 1000 WRAPPED IN GEOFABRIC, UNO, COMPLYING WITH THE REQUIREMENTS OF AS2439. ALL SUBSOIL PIPES SHALL BE FACTORY SLOTTED HDPE, MIN. 100mm DIA. CLASS SN8, SIMILAR OR EQUAL TO VINIDEX DRAINCOIL, CERTIFIED uPVC IN ACCORDANCE WITH AS1260, AS2032 (PIPE) & AS3789 (JOINTING) INSTALLED ON GEOTEXTILE FABRIC WITH 150mm SURROUND OF 25mm BLUE METAL AGGREGATE, UNO. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND PAVEMENTS, UNSLOTTED uPVC DWV GRADE CLASS SN8 SEWER GRADE PIPE IS TO BE USED.

5. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.

. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.

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 CCTV SHALL BE UNDERTAKEN OF EXISTING PIPES WHERE NECESSARY TO CONFIRM THEIR ADEQUACY PRIOR TO AND FOLLOWING CONSTRUCTION.

THE CONTRACTOR IS TO ORGANISE AND STAGE CONSTRUCTION WORK AND UNDERTAKE ANY DIVERSION WORKS TO ENSURE THE EXISTING DRAINAGE IS ABLE TO CONVEY ALL STORMWATER FLOWS THAT MAY OCCUR DURING THE

PERIOD OF THE CONSTRUCTION WORKS. ANY DAMAGE TO THE WORKS DUE TO STORMWATER FLOWS OR FLOODING DURING THE CONSTRUCTION PERIOD IS AT THE CONTRACTOR'S RISK.

10. SETOUT POINTS FOR STORMWATER STRUCTURES ARE AS INDICATED IN THE DRAWINGS UNLESS OTHERWISE NOTED. 1. ALL PAVED SURFACE LEVELS AND GRADES TO BE COORDINATED WITH GULL

PIT LEVELS TO ENSURE NO UNDRAINED AREAS OCCUR. 12. THE SIDES OF ALL PIPE TRENCH EXCAVATIONS DEEPER THAN 1.0m SHALL BE FULLY SUPPORTED AT ALL TIMES AND HAVE APPROPRIATE EDGE PROTECTION.

13. ALL NEW PIPES TO BE LAID IN AN UPSTREAM DIRECTION. THE LINE, LEVEL AND LOCATION OF EXISTING SERVICES CROSSING THE LINE OF THE PROPOSED STORMWATER PIPE SHALL BE DETERMINED BY EXCAVATION PRIOR TO THE LAYING OF THE PIPE. IF CONFLICT IS APPARENT, THE ENGINEER SHALL BE NOTIFIED AND INSTRUCTIONS AS TO WHETHER THE EXISTING SERVICE IS TO BE ADJUSTED OR THE PROPOSED PIPE INVERT ALTERED WILL BE ISSUED.

4. PIPE BEDDING, HAUNCH AND BACKFILL TO BE AS SHOWN ON THE CIVIL DETAILS DRAWINGS AND THE CIVIL SPECIFICATION. WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50mm CONCRETE BED OR 75mm THICK BED OF 12mm BLUE METAL UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK.

15. SUBSOIL DRAINAGE PIPES TO BE SLOTTED PIPE AND FILTER SOCK CLASS 1000 TO AS2439 PART 1 LAID AT PREFERABLE MINIMUM GRADE 1 IN 100 OR ABSOLUTE MINIMUM 1 IN 200 WHERE LIMITED BY OUTFALL LEVELS.

16. 100mm DIA. SUBSOIL DRAINAGE SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS AND CONNECTED TO THE SITE STORMWATER DRAINAGE SYSTEM, UNO .:-

16.1. UNDER KERBS AND ADJACENT TO ALL PAVEMENTS 16.2. AT THE BASE OF THE HIGH SIDE OF ALL RETAINING WALLS

16.3. AROUND THE BUILDING SLAB FOOTPRINT 16.4. AROUND ALL STORMWATER PITS

28. STORMWATER STRUCTURES ARE TO BE CONSTRUCTED PERPENDICULAR TO THE INCOMING PIPEWORK UNLESS OTHERWISE NOTED.

29. PRECAST COMPONENTS SHALL BE CONNECTED BY MEANS OF EPOXY OR CHEMICAL GROUTED BARS OF THE SAME DIAMETER AND SPACING AS THE SMALLER BARS IN THE RESPECTIVE COMPONENTS.

25. PRE-CAST PITS MUST HAVE LIFTING ANCHORS. 26. WORKING LOADS ARE THOSE DUE TO FILL MATERIAL AND STANDARD HIGHWAY VEHICLES AS PER AS3725. CONSTRUCTION LOADS HAVE NOT BEEN

ALLOWED FOR.

27. ALL EXPOSED EDGES ON STORMWATER PITS TO BE ROUNDED TO 5mm RAD. 28. ALL MILD STEEL FIXTURES INCLUDING GRATES, FRAMES, STEP IRONS, LADDERS, ETC., SHALL BE HOT DIP GALVANISED. GALVANISING SHALL

COMPLY WITH THE REQUIREMENTS OF AS1214 OR AS1650, AS APPROPRIATE 29. ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH

30. PITS DEEPER THAN 1200mm SHALL HAVE ACCESS LADDERS OR STEP IRONS INSTALLED AND SHALL BE IN ACCORDANCE WITH THE LOCAL OR STATUTORY

1. WHERE A PIT IS IDENTIFIED AS A CONFINED SPACE, PIT COVERS SHALL BE

PROVIDED WITH STANDARD CONFINED SPACE SIGNAGE. 32. CAPPED FLUSHING POINTS MUST BE PROVIDED FOR ALL SUBSOIL AND SEEPAGE DRAINAGE SYSTEMS AT THE END OF EACH PIPE, AT MAX. 30m SPACING AND AT CHANGES IN DIRECTION.

33. THE CONTRACTOR SHALL OBTAIN A ROAD OPENING PERMIT FOR ANY WORK WITHIN THE PUBLIC ROAD RESERVE AND COMPLY WITH ALL AUTHORITY 34. PIPES SHALL BE TRUE TO GRADES SHOWN AND ALIGNED SO THAT THE

CENTRES OF THE INLET PIPES INTERSECT WITH THE CENTRE OF THE OUTLET PIPE AT THE DOWNSTREAM FACE OF THE PIT 35. MINIMUM GRADES FOR GRAVITY STORMWATER DRAINAGE SHALL CONFORM

TO AS 3500 PART 3 AS FOLLOWS, UNO:-35.1. 1% FOR 100mm AND 150mm DIA. PIPES

35.2. 0.5% FOR 225mm DIA. PIPES 35.3. 0.4% FOR 300mm DIA. PIPES 35.4. 0.33% FOR 375mm DIA. PIPES

36. MINIMUM DEPTH OF COVER SHALL BE AS FOLLOWS, UNO:-36.1. 300mm IN PRIVATE PROPERTY (NON-VEHICULAR TRAFFIC) 36.2. 450mm IN PUBLIC AREAS

36.3. 600mm IN VEHICULAR TRAFFICABLE AREAS (FOOTWAY/ROADWAYS)

Notes

STORMWATER DRAINAGE NOTES

37. BED ALL PIPES FIRMLY AND EVENLY ONTO IMPORTED BEDDING FILL

MATERIAL. 38. LAY AND JOINT ALL PIPES IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION AND

AS 3725 BURIED FLEXIBLE PIPELINES AS 2566 LOADS ON BURIED FLEXIBLE PIPELINES AS 1597.2 PRECAST REINFORCED CONCRETE BOX CULVERTS AS 3500 NATIONAL PLUMBING AND DRAINAGE CODE SYDNEY WATER REQUIREMENTS (WHERE APPLICABLE)

ALLOW TO TEST ALL PIPES AND PITS TO MANUFACTURERS REQUIREMENTS.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND

WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH

2.1. LOCAL AUTHORITY REQUIREMENTS 2.2. EPA REQUIREMENTS

2.3. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.

MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF

ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS. 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,

LAND DISTURBANCE

PARTICULARLY FOLLOWING STORM EVENTS.

. 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:

6.1. INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.

6.2. CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.

6.3. INSTALL SEDIMENT BASIN AS SHOWN ON PLAN 6.4. INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.

. 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

8. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER

FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL

10. 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.

. 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. 12. 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. 13. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE

REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED. OTHER MATTERS

3. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND

4. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:

14.1. PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS

INSTALLED OUTSIDE THE DRIP LINE 14.2. ENSURING THAT NOTHING IS NAILED TO THEM 14.3. PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF

CONDITIONS. 14.4. 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

STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING

THE GREATER 14.5. 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 14.6. CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

ASPHALTIC CONCRETE NOTES

1.1. MINERAL AGGREGATED SHALL COMPLY WITH AUSTRALIAN STANDARDS

1.2. MINERAL FILLER SHALL COMPPLY WITH AS 2357 MINERAL FILLERS OR

1.3. BITUMEN BINDER SHALL COMPLY WITH AS 2008.

2. MIX PROPORTIONS

2.1. JOB MIX - 10mm NOMINAL SIZE AGGREGATE. MINIMUM BITUMEN CONTENT BY MASS OF TOTAL MASS - 5.1%

2.2. MIX STABILITY SHALL BE BETWEEN 16kN AND 36kN AS DETERMINED BY AS 2891

2.3. AIR VOIDS IN COMPACTED MIX SHALL BE BETWEEN 4% AND 7% OF THE TOTAL VOLUME OF THE MIX

2.4. VOIDS FILLED IN BINDER - BETWEEN 65% AND 80% OF AIR VOIDS IN THE TOTAL MINERAL AGGREGATE FILLED BY BINDER IN ACCORDANCE WITH AUSTRALIAN STANDARDS 3. PAVEMENT PREPARATION

3.1. THE EXISTING SURFACE TO BE SEALED SHALL BE DRY AND BROOMED BEFORE COMMENCEMENT OF WORK TO ENSURE COMPLETE REMOVAL OF ALL SUPERFICIAL AND FOREIGN MATTER 3.2. ALL DEPRESSIONS OR UNEVEN AREAS ARE TO BE TACK-COATED AND

BROUGHT UP TO THE GENERAL LEVEL OR PAVEMENT WITH ASPHALTIC CONCRETE BEFORE LAYING THE MAIN COURSE

4. TACK COATING 4.1. THE WHOLE AREA TO BE SHEETED WITH ASPHALTIC CONCRETE SHALL BE LIGHTLY AND EVENLY COASTED WITH RAPID SETTING BITUMEN COMPLYING WITH AUSTRALIAN STANDARDS. APPLICATION RATE FOR RESIDUAL BITUMEN SHALL BE 0.15 TO 0.3L/m². APPLICATION SHALL BE BY MEANS OF A MECHANICAL SPRAYER WITH A SPRAY BAR.

. SPREADING

6. JOINTS

5.1. ALL ASPHALTIC CONCRETE SHALL BE SPREAD WITH A

SELF-PROPELLING PAVING MACHINE 5.2. THE ASPHALTIC CONCRETE SHALL BE LAID AT A MIX TEMPERATURE AS SPECIFIED BELOW:

| ROAD SURFACE TEMPERATURE IN SHADE (°C) | MIX TEMPERATURES (°C) |
|---|-----------------------|
| 5 - 10 | NOT PERMITTED |
| 10 - 15 | 150 |
| 15 - 25 | 145 |
| OVER 25 | 140 |

ASPHALTIC CONCRETE SHALL NOT BE LAID WHEN THE ROAD SURFACE IS WET OR WHEN COLD WINDS CHILL THE MIX, ADVERSELY AFFECTING SPREADING AND COMPACTION

5.4 THE MINIMUM COMPACTED THICKNESS IS 30mm OVER EXISTING SEALED PAVEMENTS AND 50mm OVER NEW PAVEMENTS

6.1. THE NUMBER OF JOINTS BOTH LONGITUDINAL AND TRANSVERSE SHALL BE KEPT TO A MINIMUM

THOSE OF THE REST OF THE LAYER 7. COMPACTION

THE DENSITY AND SURFACE FINISH AT JOINTS SHALL BE SIMILAR TO

7.1. ALL COMPACTION SHALL BE UNDERTAKEN USING SELF-PROPELLED ROLLERS 7.2. INITIAL ROLLING SHALL BE COMPLETE BEFORE THE MIX

TEMPERATURE FALLS BELOW 105°C 7.3. SECONDARY ROLLING SHALL BE COMPLETED BEFORE THE MIX

TEMPERATURE FALLS BELOW 60°C MINIMUM CHARACTERISTICS VALUE OF RELATIVE COMPACTION OF A LOT WHEN TESTED IN ACCORDANCE WITH AS 2150

8. FINISHED PAVEMENT PROPERTIES 8.1. FINISHED SURFACES SHALL BE SMOOTH, DENSE AND TRUE TO SHAPE AND SHALL NOT VARY MORE THAN 10mm FROM THE SPECIFIED PLAN LEVEL AT ANY POINT AND SHALL NOT DEVIATE FROM THE BOTTOM OF A 3m STRAIGHT EDGE LAID IN ANY DIRECTION BY MORE THAN 5mm.

9.1. ASPHALTIC CONCRETE SHALL CONFORM TO RMS. SPECIFICATION

9.2. 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 BASECOURSE MATERIAL PLACED.

9.3. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK

COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ OF SUB-BASE COURSE MATERIAL PLACED. 9.4. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9.2) A CERTIFIED RECYCLED CONCRETE MATERIAL

QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051, 3051.1 AND

COMPLYING WITH RMS. FORM 3051 AND 3051.1 WILL BE CONSIDERED.

SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF STANTEC. 9.5. 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. THIS PRODUCT SHALL BE REVIEWED AND APPROVED BY THE ENGINEER.

RETAINING WALL NOTES

BASE MATERIAL SHALL BE COMPACTED TO MINIMUM 98% SMDD WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT (SMOC) DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH THE CURRENT AUSTRALIAN STANDARD AS 1289.5.1.1 MINIMUM ALLOWABLE BEARING PRESSURE OF 150kPa. GEOTECHNICAL ENGINEER EMPLOYED BY

CONTRACTOR TO INSPECT AND CONFIRM DRAINAGE MATERIAL WITHIN AND IMMEDIATELY BEHIND THE WALL SHALL BE 12-20mm CLEAN AGGREGATE. DRAINAGE MATERIAL TO EXTEND A MINIMUM OF 300mm BEHIND THE RETAINING WALL. COMPACT THE DRAINAGE MATERIAL. ALTERNATIVELY, USE NO FINES CONCRETE AS FOLLOWS:-

2.1. CONCRETE STRENGTH N15 2.2. 210kg/m³ PORTLAND CEMENT

2.3. MAXIMUM AGGREGATE SIZE 20mm

2.4. W/C RATIO 0.45 TO 0.55 2.5. DENSITY 1600 TO 2000kg/m³

3. INFILL SOIL SHALL BE CLASS 1 CONTROLLED FILL TO AS 4678, OR AS SPECIFIED ON THE DRAWINGS. UNSUITABLE SOILS, SUCH AS HEAVY CLAYS OR ORGANIC SOILS WITH HIGH PLASTICITY, SHALL NOT BE USED IN THE REINFORCED SOIL MASS.

SPREAD BACKFILL IN UNIFORM LIFTS OF 200mm UNCOMPACTED THICKNESS. COMPACT TO 95% SMDD. COMPACTION WITHIN 1.0m BEHIND THE WALL SHALL BE ACCOMPLISHED USING A HAND-OPERATED PLATE COMPACTOR AND SHALL BEGIN BY RUNNING THE PLATE DIRECTLY ON THE BLOCK, THEN COMPACTING IN PARALLEL PATHS, PROGRESSIVELY AWAY FROM THE WALL FACE.

WHERE ROADWAYS OR BUILDING STRUCTURES ARE LOCATED ABOVE THE REINFORCED ZONE, COMPACT TO 98% SMDD WITHIN 2% OF SMOC DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH AS 1289.5.1.1. COMPACTION TESTING SHALL BE TAKEN 1.2m BEHIND THE WALL.

Key Plan: (NTS)

AUTHORITY.

AT 2025.01.17 I ISSUED FOR REF VE VE JMB LPT LPT LPT H ISSUED FOR DA 2024.06.06 G ISSUED FOR DA 2024.05.21 F ISSUED FOR DA 2024.03.18 JMB JMB JMB MDR E ISSUED FOR DA 2024.03.08 D ISSUED FOR DA 2024.02.23 95% SCHEMATIC DESIGN 2024.02.02 LPT B 50% SCHEMATIC DESIGN 2023.12.15 A CONCEPT DESIGN MDR 2023.03.31

Issued/Revision

Issue Status

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Level 6, Building B

207 Pacific Highway



Education School Infrastructure

SINSW

Client/Project

AUSTRAL PUBLIC SCHOOL UPGRADE

File Name: 304000720-CI-1-007-001.DWG

205 EDMONDSON AVENUE, AUSTRAL, NSW 2179

GENERAL NOTES

304000720 Revision Drawing No.

CI-1-007-001

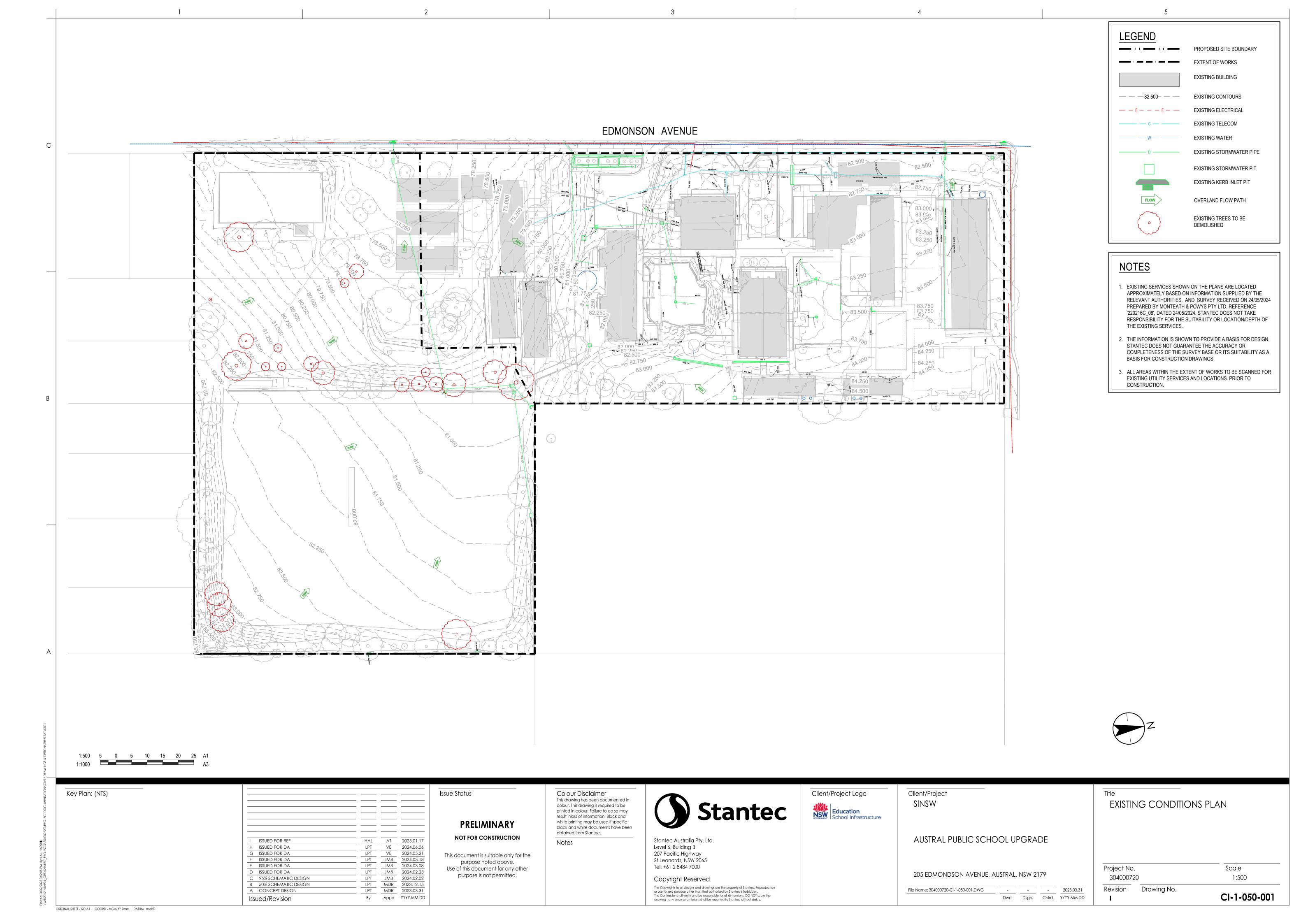
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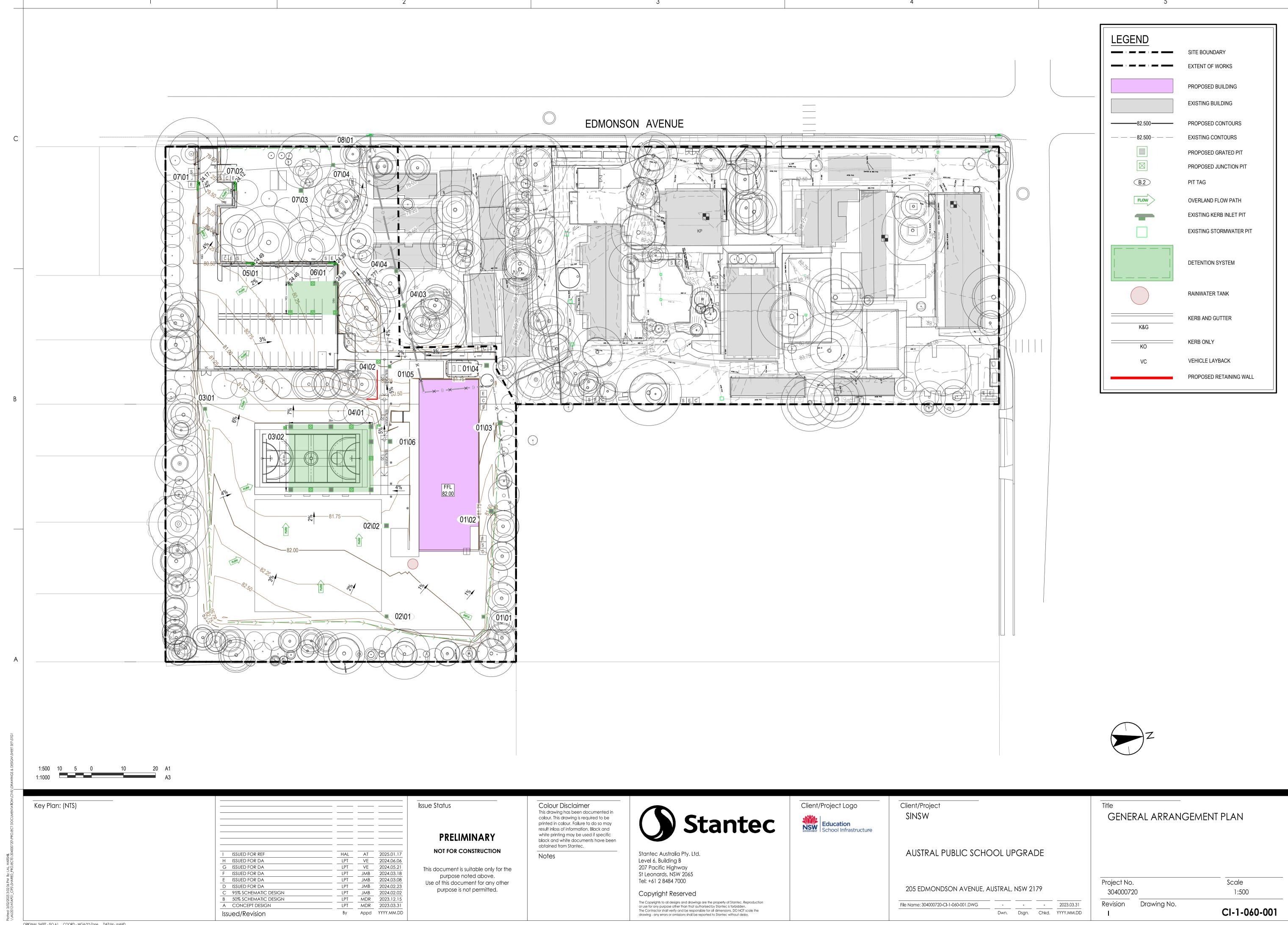
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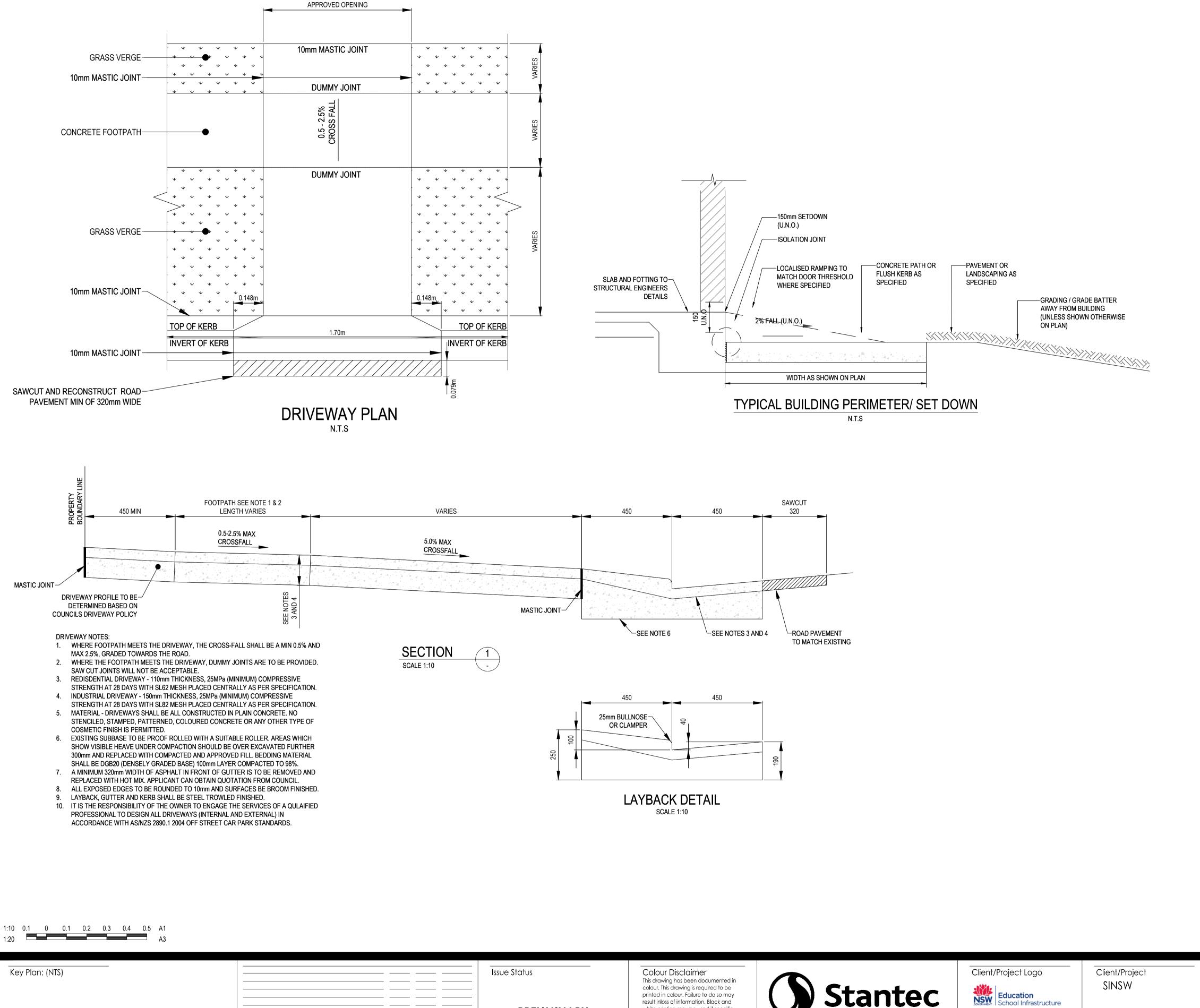
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2023.03.31 Dwn. Dsgn. Chkd. YYYY.MM.DD

Project No.







ORIGINAL SHEET - ISO A1 COORD - MGA/YY-Zone DATUM - mAHD

PRELIMINARY

AT 2025.01.17

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 2024.06.06

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 2024.03.18

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By Appd YYYY.MM.DD

I ISSUED FOR REF

H ISSUED FOR DA G ISSUED FOR DA

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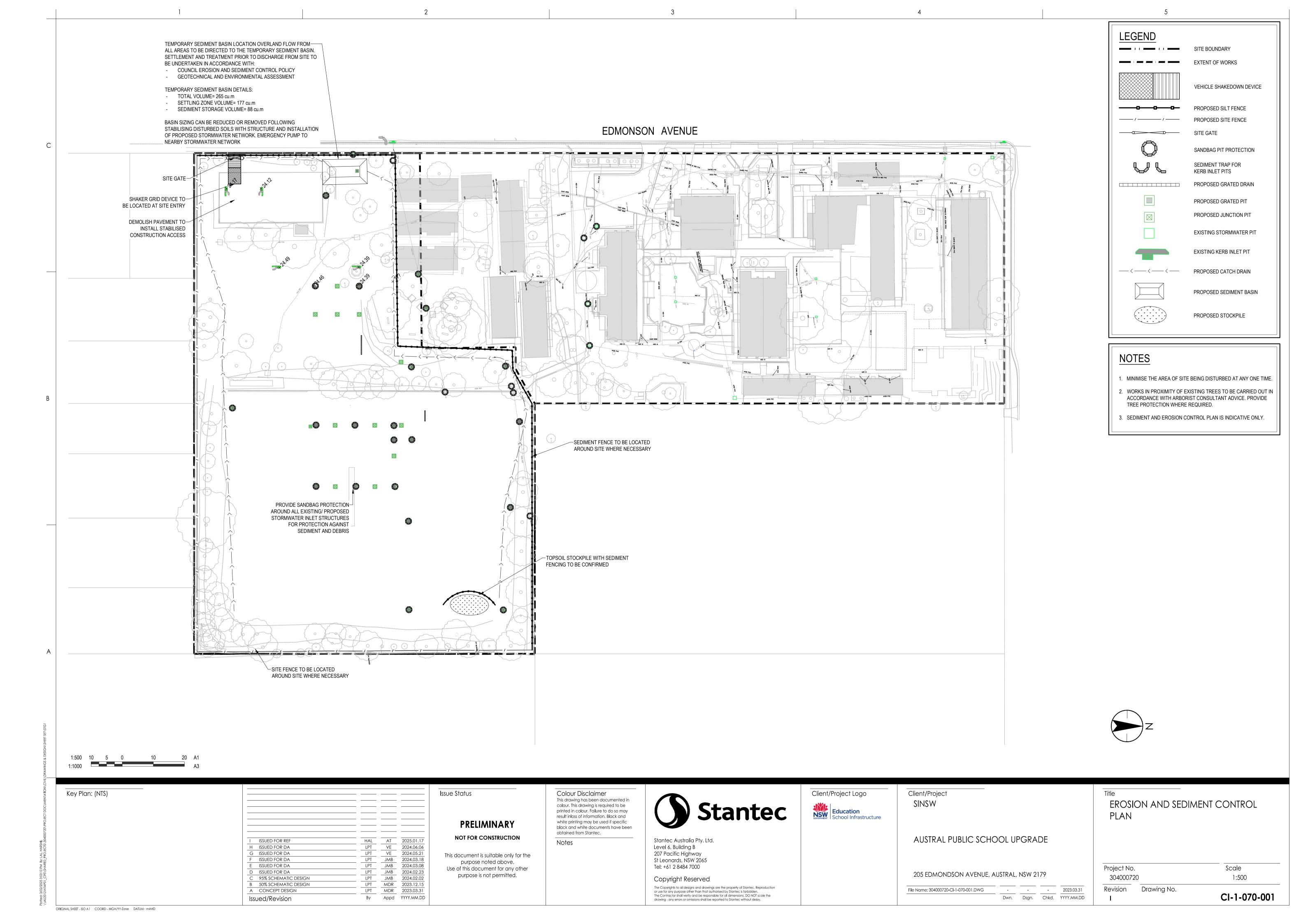
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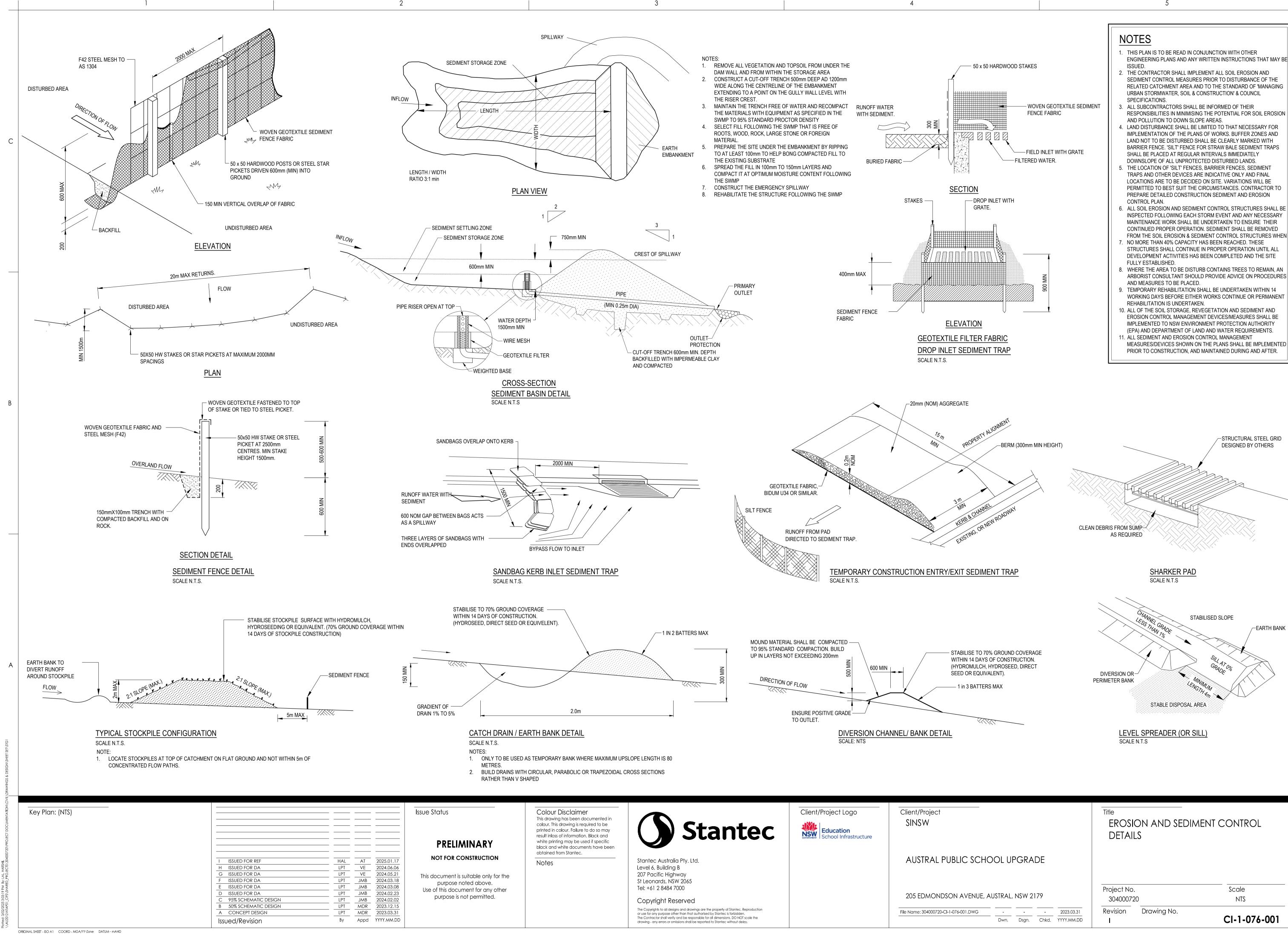
File Name: 304000720-CI-1-066-001.DWG

SITEWORKS DETAILS

Project No. 304000720 Revision

Scale as shown Drawing No. CI-1-066-001





EDMONSON AVENUE BEL RL 81.80 Client/Project Logo Client/Project Issue Status Colour Disclaimer

LEGEND SITE BOUNDARY EXTENT OF WORKS ——14.0——————————BULK EARTHWORKS CONTOURS EXISTING CONTOURS BULK EARTHWORKS LEVEL

NOTES

- 1. VOLUMES ARE INDICATIVE ONLY AND ARE BASED ON A COMPARISON BETWEEN THE DESIGN SURFACE AND THE SURVEYED SURFACE.
- 2. NOTE THAT ALL VOLUMES DEPICTED ARE SOLID VOLUMES ONLY AND MAY NOT REFLECT DETAILED EARTHWORKS.
- 3. NO ALLOWANCE HAS BEEN MADE FOR BULKING FACTORS.
- 4. NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS; ie ON SITE DETENTION TANKS, RAINWATER TANK, SERVICE TRENCHING, DETAILED EXCAVATION, FOOTINGS, RETAINING WALLS, PAVEMENT BOXING, BUILDING SLABS AND THE LIKE.
- 5. THE CONTRACTOR SHALL USE FINAL SURFACE LEVELS AND TYPICAL PAVEMENT DETAILS FOR ACTUAL EARTHWORKS LEVELS.
- 6. TOPSOIL STRIPPING OF 200mm HAS BEEN ASSUMED FOR THE PURPOSE OF THE BULK EARTHWORKS. REFER GEOTECH REPORT FOR FURTHER INFORMATION.
- 7. BULK EARTHWORKS CUT/FILL VOLUME CONSIDERATIONS: - 200mm TOPSOIL HAS BEEN CONSIDERED TO BE REMOVED. - 200mm STRUCTURAL SLAB UNDER BUILDING PADS. - 400mm THICKNESS FOR TRAFFICABLE PAVEMENT.
- 5. THE SURVEY SURFACE AS PROVIDED HAS BEEN UTILISED FOR COMPARISON PURPOSES.
- 6. STANTEC DOES NOT TAKE RESPONSIBILITY FOR ACCURACY OF EXISTING SURVEY.
- 7. BULK EARTHWORKS DOES NOT TAKE INTO CONSIDERATION ANY CONTAMINDATED MATERIAL AND ANY REMEDIATION STRATEGY

| Number | Minimum Elevation | Maximum Elevation | Color |
|--------|-------------------|-------------------|-------|
| 1 | -4.00 | -3.50 | |
| 2 | -3.50 | -3.00 | |
| 3 | -3.00 | -2.50 | |
| 4 | -2.50 | -2.00 | |
| 5 | -2.00 | -1.50 | |
| 6 | -1.50 | -1.00 | |
| 7 | -1.00 | -0.50 | |
| 8 | -0.50 | 0.00 | |
| 9 | 0.00 | 0.50 | |
| 10 | 0.50 | 1.00 | |
| 11 | 1.00 | 1.50 | |
| 12 | 1.50 | 2.00 | |
| 13 | 2.00 | 2.50 | |

CUT AND FILL VOLUME

CUT: 4,652 m³ FILL: 1,794 m³ 2858 m³



Key Plan: (NTS) HAL AT 2025.01.17

LPT VE 2024.06.06

LPT VE 2024.05.21

LPT JMB 2024.03.18

LPT JMB 2024.03.08

LPT JMB 2024.02.23

LPT JMB 2024.02.02

LPT MDR 2023.12.15

LPT MDR 2023.03.31

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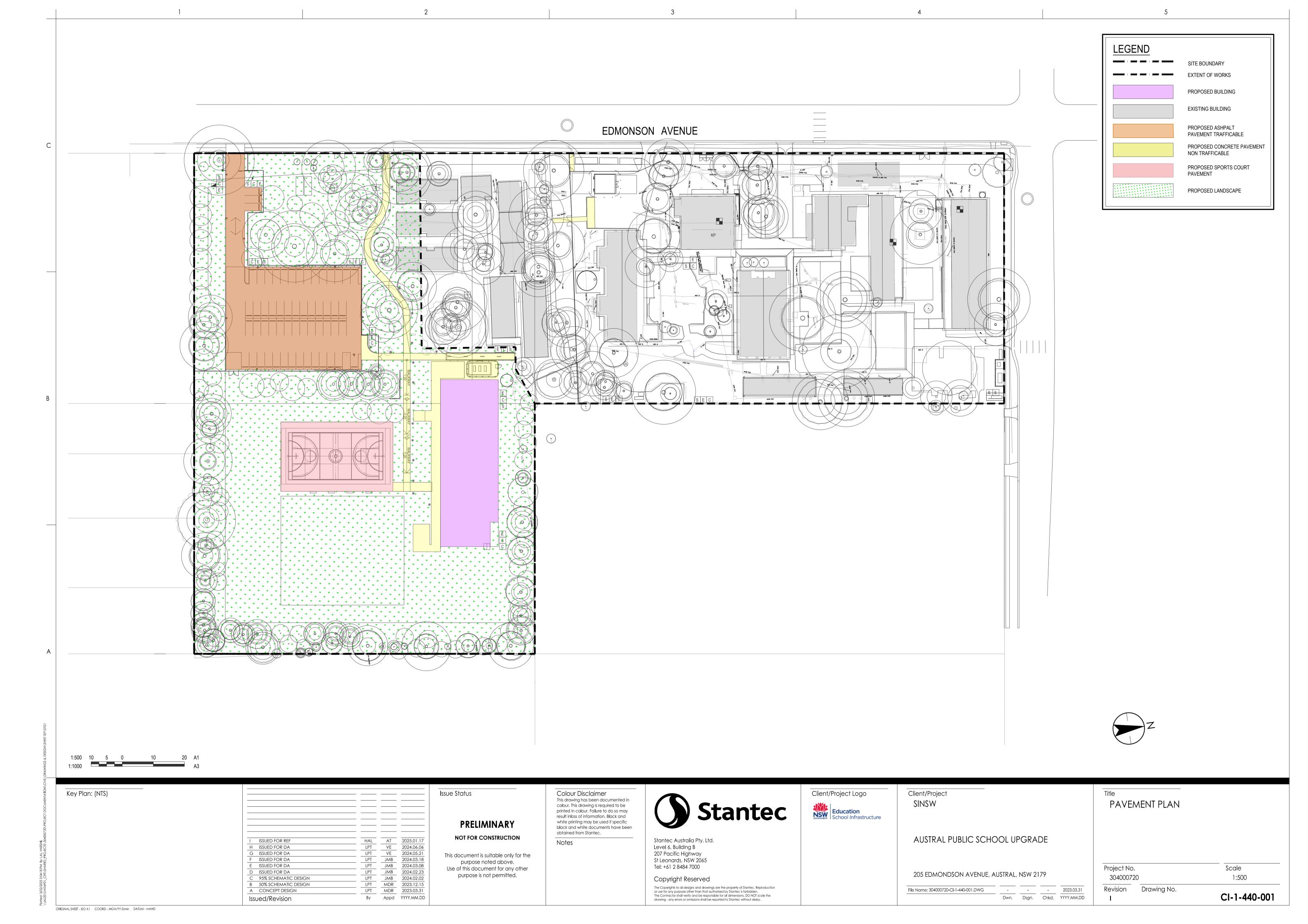
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 YYYY.MM.DD
 File Name: 304000720-CI-1-100-001.DWG

BULK EARTHWORKS PLAN

Project No. Scale 304000720 1:500 Revision Drawing No.

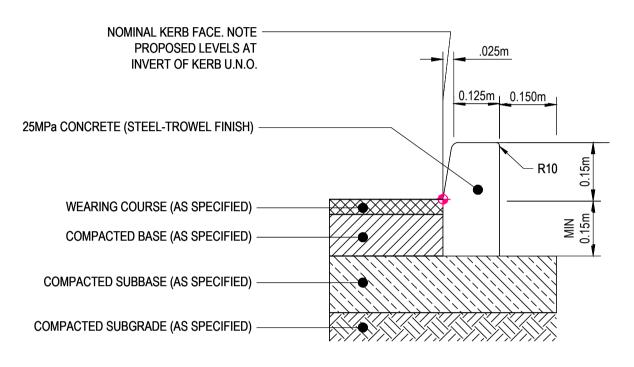
CI-1-100-001



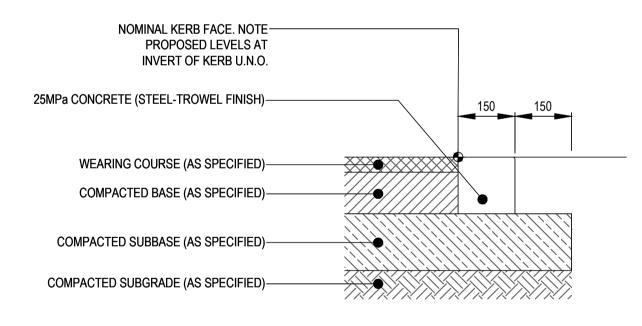
NOMINAL KERB FACE. NOTE PROPOSED LEVELS AT .025m INVERT OF KERB U.N.O. 0.125m 0.150m 0.45m 25MPa CONCRETE (STEEL-TROWEL FINISH) -- R10 WEARING COURSE (AS SPECIFIED) -COMPACTED BASE (AS SPECIFIED) -COMPACTED SUBBASE (AS SPECIFIED) -COMPACTED SUBGRADE (AS SPECIFIED) -

KERB AND GUTTER DETAIL

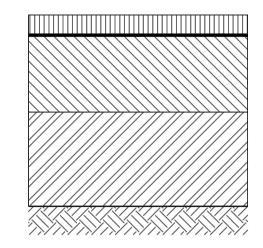
(SCALE 1:10)



KERB ONLY 'KO' DETAIL (SCALE 1:10)



FLUSH KERB DETAIL (FK)



50mm AC10 SURFACING 7mm PRIMER SEAL 200mm THICK BASE. DGB20 (CBR 80). 98% MODIFIED COMPACTION.

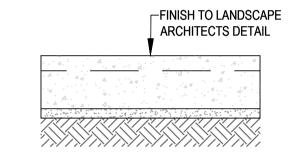
250mm THICK SUB-BASE. DGS40 (CBR 45). 95% MODIFIED COMPACTION.

COMPACTED SUBGRADE (CBR 3%)

PROPOSED ASPHALT PAVEMENT TRAFFICABLE

(SCALE 1:10)



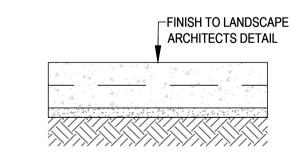


140mm CONCRETE 32MPa WITH SL92 MESH 40mm COVER 25mm SAND BEDDING COMPACTED SUBGRADE (MIN 3%)

PROPOSED SPORTS COURT **PAVEMENT**

(SCALE 1:10)





120mm CONCRETE 25MPa WITH SL72 MESH CENTRALLY PLACED 25mm SAND BEDDING COMPACTED SUBGRADE (MIN 3%)

PROPOSED CONCRETE PAVEMENT NON TRAFFICABLE (SCALE 1:10)

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1:10 0.1 0 0.1 0.2 0.3 0.4 0.5 A1

Key Plan: (NTS)
 HAL
 AT
 2025.01.17

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 2024.06.06

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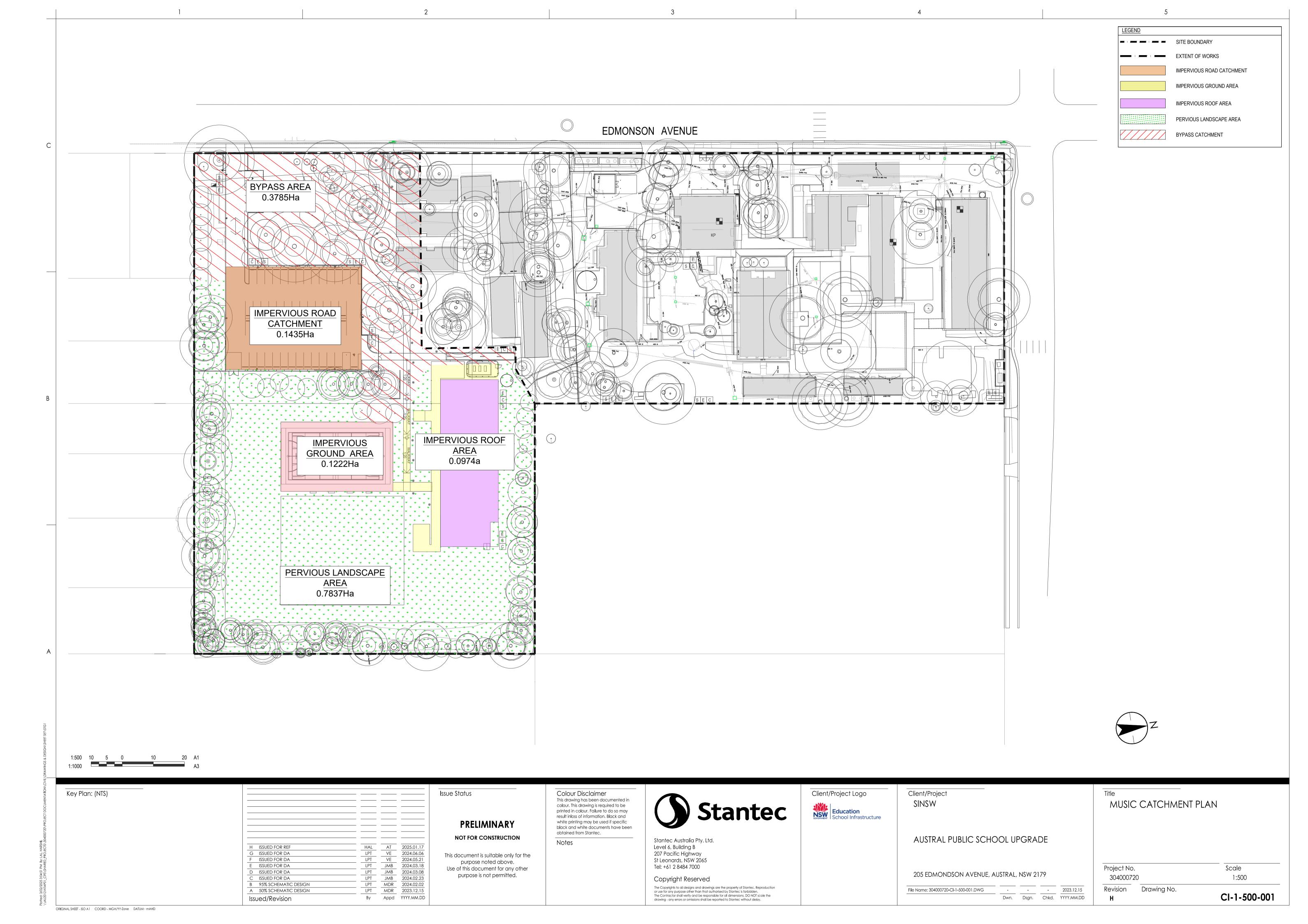
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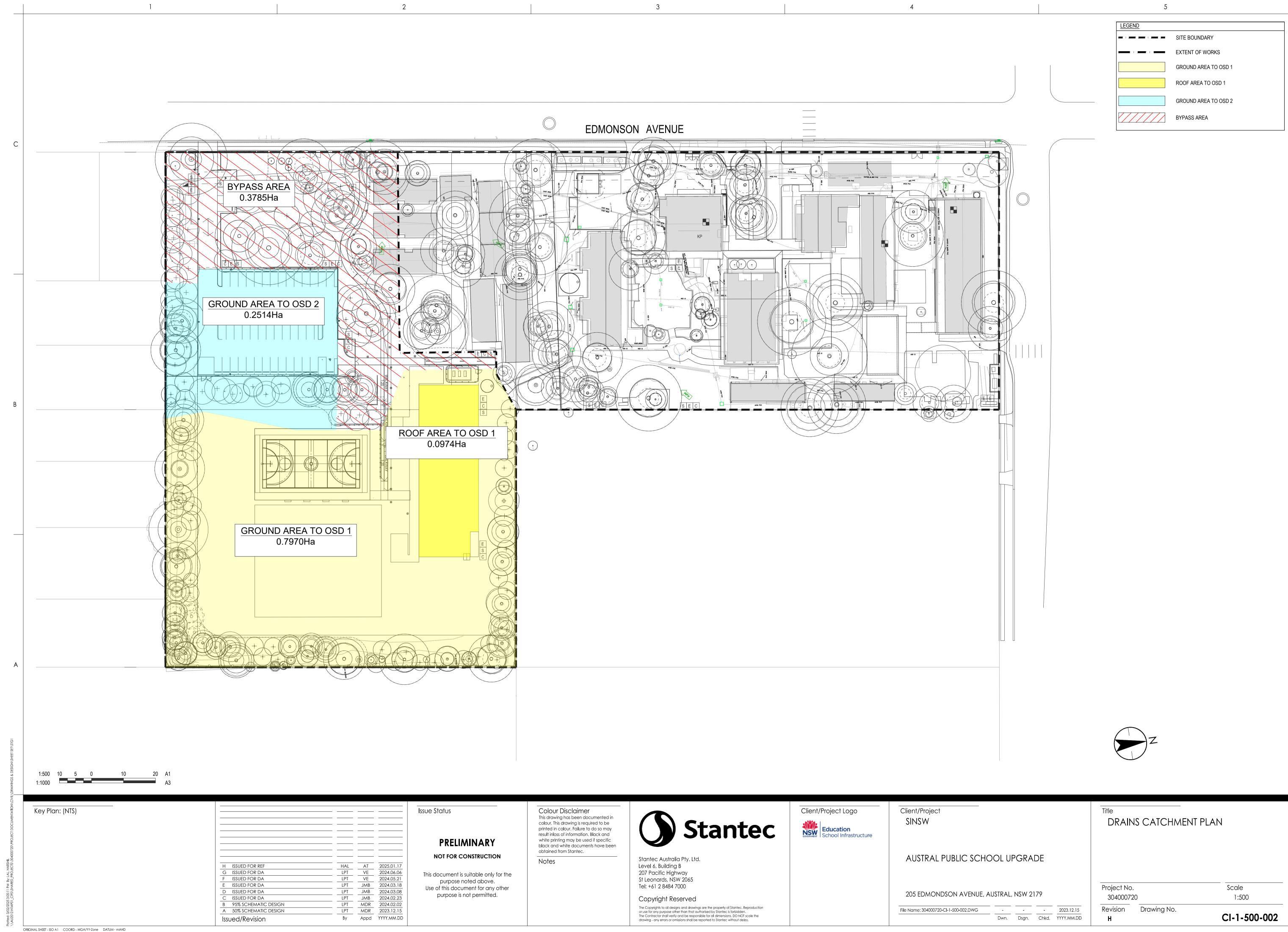
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Project No. Scale 304000720 1:10 Revision Drawing No. CI-1-446-001

PAVEMENT DETAILS





LEGEND SITE BOUNDARY EXTENT OF WORKS 450SQ CLASS B GRATED INLET PIT-RL77.93 PROPOSED BUILDING ILout 77.33 PIPE TO BE UNDEBORE-EXISTING BUILDING -CONNECT LINE 7 INTO EXISTING PROPOSED GRASSED-WITHIN THIS AREA. REFER STORMWATER PIT AT IL 77.21 TO ARBORIST REPORT FOR EDMONSON AVENUE ALL INSTALLATION WITHIN PROPOSED STORMWATER PIPE TREE PROTECTION ZONE INCLUDING DIAMETER SIZE **-** 08\01\ PROPOSED GRATED DRAIN PROVIDE CLASS D GALV GRATING 2.4m KERB INLET PIT RL79.31 PROPOSED GRATED PIT ←600SQ CLASS B GRATED INLET PIT ILout 78.48 WITH 1x OCEANGUARD BASKET INSET PROPOSED JUNCTION PIT RL78.09 ILin 77.34 (LINE 6) 2.4m KERB INLET PIT-(B.2) PIT TAG ILin 77.30 (LINE 7) RL79.14 TLout 77.27 ILin 78.37 ILout 78.34 OVERLAND FLOW PATH -- 600SQ CLASS B GRATED INLET PIT TO INTERCEPT EXISTING 2.4m KERB INLET PIT-900SQ CLASS B GRATED INLET PIT-EXISTING KERB INLET PIT STORMWATER LINE RL80.00 RL79.20 RL 78.54 ILout 79.17 ILin 78.14 __ ILin 78.09 (LINE 4) EXISTING STORMWATER PIT ILout 78.11 _ILout 78.20 ILin 78.09 (OSD OUTLET) ILout 78.06 (APPROX EXISTING STORMWATER PIPE IL) 2.4m KERB INLET PIT-ON-SITE DETENTION SYSTEM RL80.36 -600SQ CLASS B GRATED INLET PIT TO INTERCEPT EXISTING ILout 79.53 STORMWATER LINE RL 78.87 BELOW GROUND ON SITE ILin 78.35 (LINE 4) RAINWATER TANK DETENTION (OSD) 2 600SQ CLASS B ILout 78.32 (APPROX EXISTING GRATED INLET PIT STORMWATER PIPE IL) APPROX. VOLUME= 150cu.m \times RL80.00 EXISTING STORMWATER PIPE ¹900SQ CLASS B 900SQ CLASS B-((ILin 79.47 GRATED INLET PIT JUNCTION PIT Lout 79.44 EXISTING SERVICE TO BE REMOVED RL79.76 ∠ ILin 80.01 👝 ILin 78.73 FLUSH POINT ILout 79.98 ILout 78.70 EXISTING STORMWATER PITS 600SQ CLASS B-WITHIN AND AROUND 01\05 JUNCTION PIT © PROPOSED BUILDING TO BE NOTES RL81.50 DEMOLISHED ILin 80.78 ILout 80.75 1. ALL STORMWATER PIPES TO HAVE A MINIMUM OF 1% SLOPE IN DIRECTION SHOWN UNO. 600SQ CLASS B-04\01 2. ALL IN-GROUND STORMWATER PIPES TO BE uPVC, UNLESS -900SQ CLASS B JUNCTION PIT GRATED INLET PIT TRAFFICABLE. RL81.51 RL81.94 3. ALL IN-GROUND STORMWATER PIPES TO BE MINIMUM 450 BELOW ILin 78.96 01\03 ILout 81.19 LANDSCAPED SURFACES AND 600 BELOW SURFACES IN ILout 78.93 TRAFFICABLE AREA. 01\06 4. GRATES, FRAMES AND COVERS IN ROADWAYS TO BE CLASS D. ILin 79.62 → 5. GRATES AND FRAMES NOT IN ROADWAYS TO BE CLASS B. 6. STORMWATER PIPES ARE TO BE INSTALLED IN ACCORDANCE WITH ─900SQ CLASS B **GRATED INLET PIT** 7. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BELOW GROUND ON SITE-RL80.94 COUNCIL STANDARDS AND CONSTRUCTION SPECIFICATIONS. **DETENTION (OSD) 1** ILin 80.22 8. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING APPROX. VOLUME= 532cu.m ILout 80.19 SERVICES WITH ALL RELEVANT AUTHORITIES BEFORE 900SQ CLASS B GRATED INLET PIT-COMMENCING CONSTRUCTION. WITH 1x OCEANGUARD BASKET INSET 9. EXISTING STORMWATER NETWORK NEED TO BE VERIFIED BY THE -900SQ CLASS B RL81.15 CONTRACTOR PRIOR TO CONSTRUCTION. 01\02 **GRATED INLET PIT** ILin 79.33 (LINE 1) 10. CONTRACTOR TO LOCATE AND EXPOSE ALL EXISTING SERVICES 02\02 RL81.46 ILin 80.53 (LINE 2) BEFORE CONSTRUCTION STARTS. EXISTING SERVICES TO BE ILin 80.79 ILout 79.30 RELOCATED WHERE NEEDED TO AVOID CLASHING. ILout 80.76 11. ALL GRATED DRAINS WITHIN LANDSCAPE AREAS TO BE ACO DRAIN K200 AND WITHIN TRAFFICABLE AREAS TO BE ACO DRAIN K300 OR PROPOSED GRASSED-APPROVED EQUIVALENT. 900SQ CLASS B-12. ALL GRATED DRAINS WITH PEDESTRIAN ACCESS TO HAVE **GRATED INLET PIT** HEELSAFE GRATE. RL81.65 13. FOR DOWNPIPES THAT WILL BE CONNECTED INTO THE RWT REFER ILin 80.81 TO THE HYDRAULIC CONSULTANT DOCUMENTATION. THOSE DPs —PROPOSED GRASSED ILout 80.78 THAT ARE BYPASSING THE RWT TO BE CONNECTED DIRECTLY INTO **SWALE** THE STORMWATER NETWORK. 14. CONTRACTOR TO ENSURE THAT THE BASE OF THE INFITLRATION TRENCH IS TO BE AT LEAST 1.0m ABOVE THE UNDERLYING WATER TABLE OR ROCK STRATUM, IF PRESENT. ANY DISCREPANCY SHALL THORY 02\01 X 01\01 BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE 15. IF DURING CONSTRUCTION OF THE STORMWATER SYSTEM, LAYERED SOILS SUCH AS CLAY LENSES OR INDURATED MATERIAL ARE IDENTIFIED, FURTHER GEOTECHNICAL ADVICE SHOULD BE ←600SQ CLASS B -600SQ CLASS B **GRATED INLET PIT** -PROPOSED GRASSED **GRATED INLET PIT** RL81.77 **SWALE** RL81.80 ILout 81.09 ILout 81.12 Client/Project Logo Client/Project Key Plan: (NTS) Issue Status Colour Disclaimer This drawing has been documented in STORMWATER DRAINAGE PLAN SINSW colour. This drawing is required to be Education School Infrastructure printed in colour. Failure to do so may result inloss of information. Black and white printing may be used if specific **PRELIMINARY** black and white documents have been obtained from Stantec. NOT FOR CONSTRUCTION AUSTRAL PUBLIC SCHOOL UPGRADE AT 2025.01.17 Stantec Australia Pty. Ltd. I ISSUED FOR REF Notes AI 2025.01.17

VE 2024.06.06

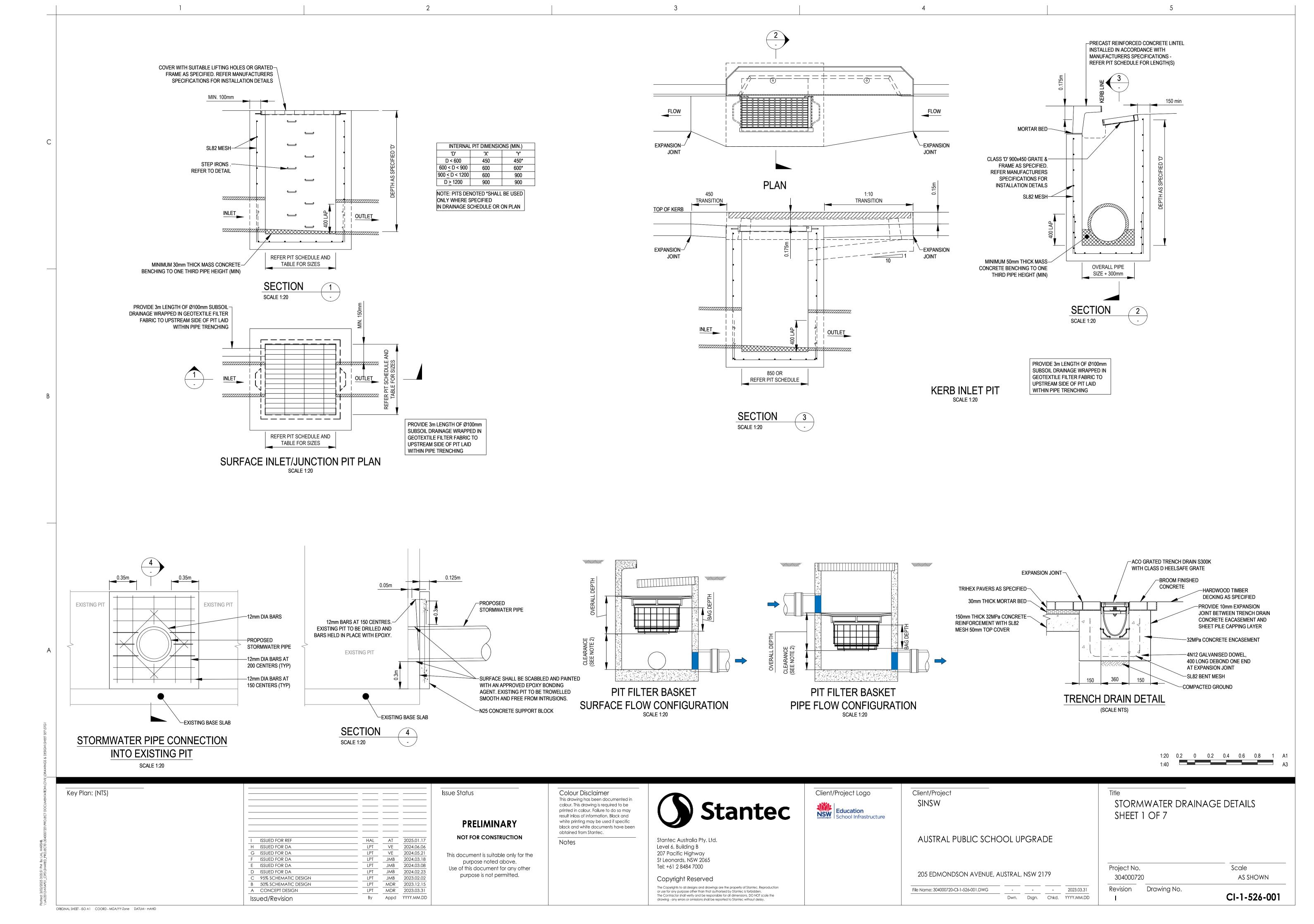
VE 2024.05.21

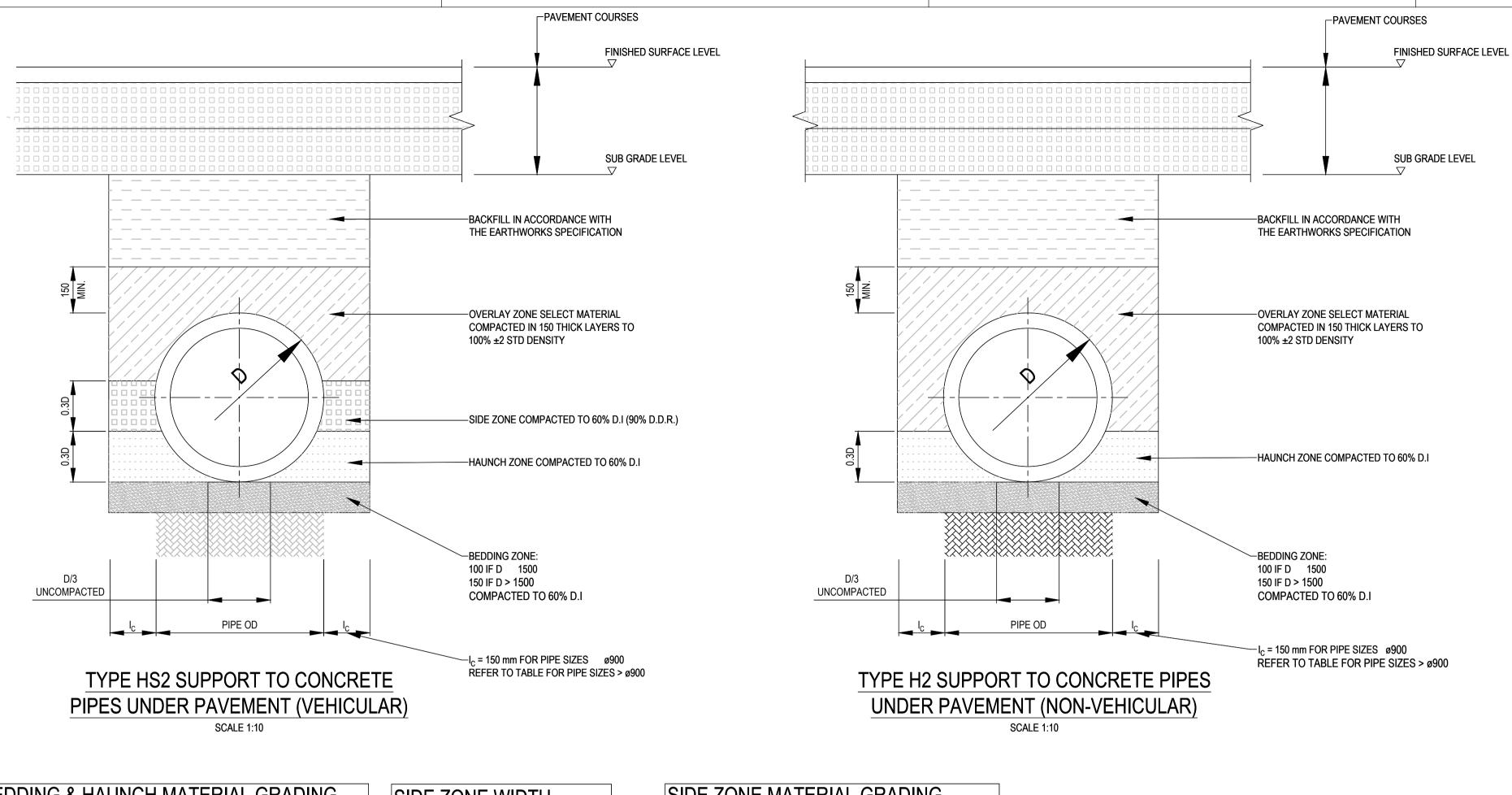
JMB 2024.03.08

JMB 2024.02.23

JMB 2023.02.02

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PAVEMENT COURSES FINISHED SURFACE LEVEL SUB GRADE LEVEL -BACKFILL IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION -OVERLAY ZONE, SIDE SUPPORT AND BEDDING ZONE, SAND OR 10mm SINGLE SIZE AGGREGATE COMPACTED IN 150 THICK LAYERS TO 70% D.I (95% D.D.R) PIPE OD 300

FLEXIBLE PIPES UNDER PAVEMENTS

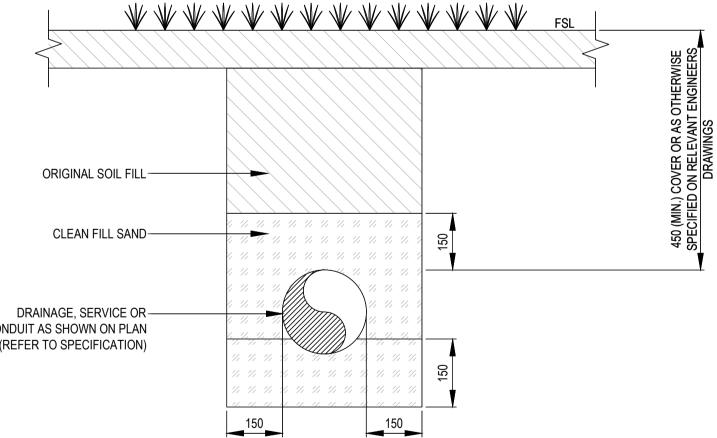
| SAND GRADING (TABLE G3 AS 2566.2) | | |
|-----------------------------------|--------------------|--|
| SIEVE SIZE (mm) | WEIGHT PASSING (%) | |
| 4.75 | 100 TO 90 | |
| 2.36 | 90 TO 100 | |
| 1.18 | 85 TO 100 | |
| 0.60 | 70 TO 100 | |
| 0.30 | 50 TO 100 | |
| 0.15 | 0 TO 40 | |
| 0.075 | 0 TO 5 | |

| 10mm SINGLE-SIZE AGGREGATE | | |
|------------------------------|--------------------|--|
| GRADING (TABLE G2 AS 2566.2) | | |
| SIEVE SIZE (mm) | WEIGHT PASSING (%) | |
| 13.20 | 100 | |
| 9.50 | 85 TO 100 | |
| 4.75 | 0 TO 20 | |
| 2.36 | 0 TO 5 | |
| 0.075 | 0 TO 2 | |

| BEDDING & HAUNCH MATERIAL GRADING | | |
|-----------------------------------|--------------------|--|
| (TABLE 6 AS/NZS 3725) | | |
| SIEVE SIZE (mm) | WEIGHT PASSING (%) | |
| 19.00 | 100 | |
| 2.36 | 100 TO 50 | |
| 0.60 | 90 TO 20 | |
| 0.30 | 60 TO 10 | |
| 0.15 | 25 TO 0 | |
| | | |

| SIDE ZONE WIDTH | |
|-----------------|---------------------|
| PIPE SIZE (mm) | I _C (mm) |
| ø900 | 150 |
| ø1050 | 175 |
| ø1200 | 200 |
| ø1350 | 225 |
| ø1500 | 250 |
| ø1650 | 275 |
| ø1800 | 300 |

| (TABLE 7 AS/NZS 3725) | | |
|-----------------------|--------------------|--|
| SIEVE SIZE (mm) | WEIGHT PASSING (%) | |
| 19.00 | 100 | |
| 9.50 | 100 TO 50 | |
| 2.60 | 100 TO 30 | |
| 0.60 | 50 TO 15 | |
| 0.075 | 25 TO 0 | |

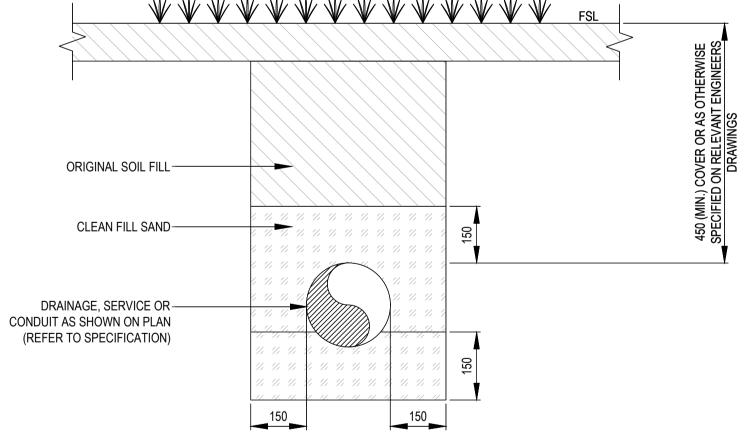


BACKFILL TO DRAINAGE, SERVICES AND CONDUITS IN LANDSCAPE AREAS (TYP.)

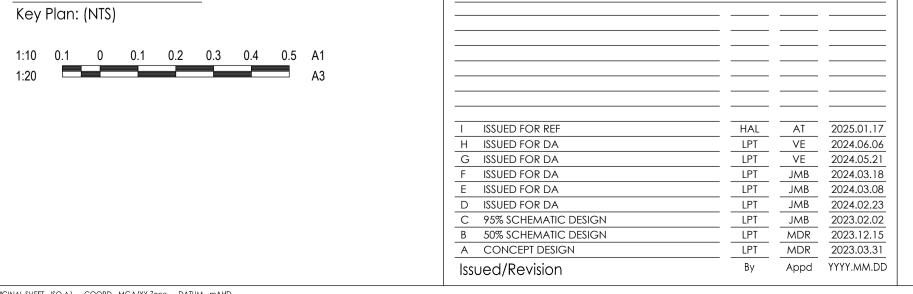
1. TYPICAL DETAIL TO BE USED FOR ALL DRAINAGE SERVICES RUNNING UNDER LANDSCAPE 2. DRAINAGE INCLUDES ALL GRAVITY SERVICES (INCLUDES CONCRETE AND PLASTIC PIPES)

3. SERVICES INCLUDES ALL PRESSURE PIPES

4. FOR NEW SERVICE PIPES OR CONDUITS, REFER TO PLANS FOR SIZES AND LOCATIONS



1:10 0.1 0 0.1 0.2 0.3 0.4 0.5 A1



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Client/Project Logo Education
School Infrastructure

Client/Project SINSW SHEET 2 OF 7

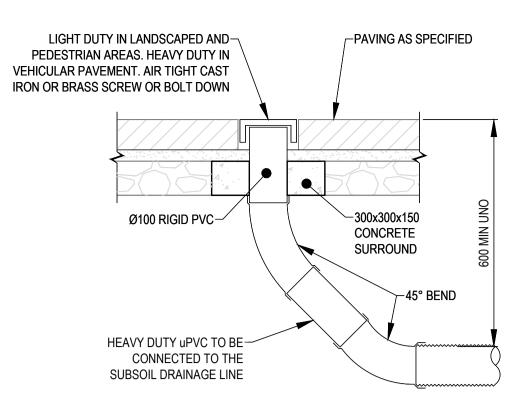
AUSTRAL PUBLIC SCHOOL UPGRADE

File Name: 304000720-CI-1-526-001.DWG

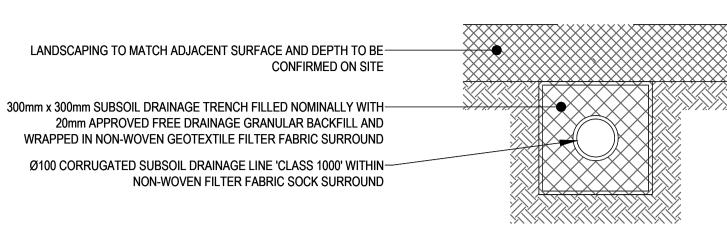
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 2023.03.31

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 Dsgn.
 Chkd.
 YYYY.MM.DD
 STORMWATER DRAINAGE DETAILS

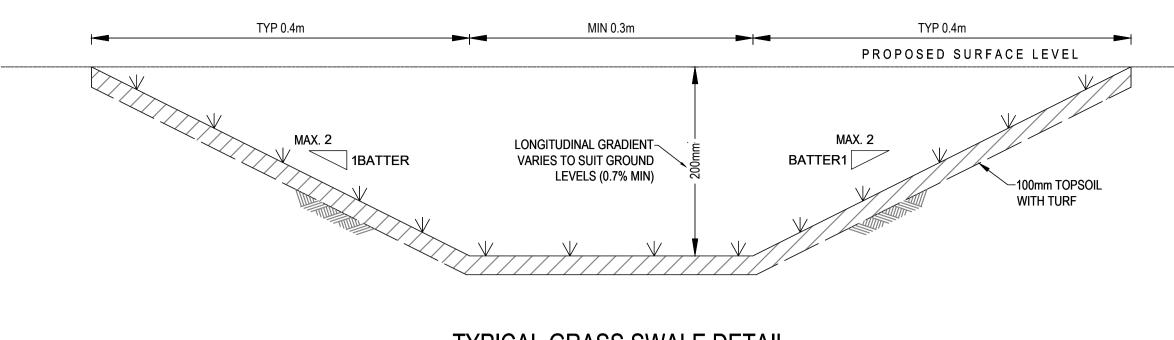
Project No. Scale 304000720 1:10 Revision Drawing No. CI-1-526-002



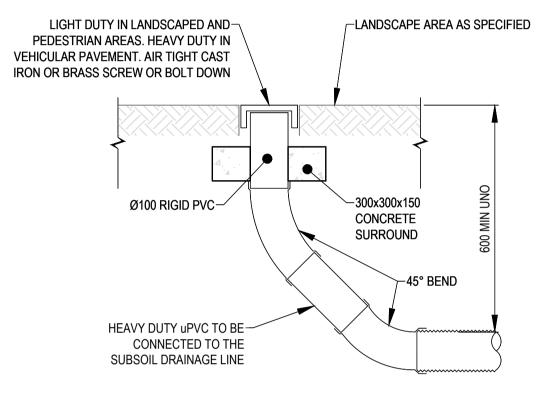
FLUSH OUT RISER IN PAVED AREAS (SCALE 1:10)



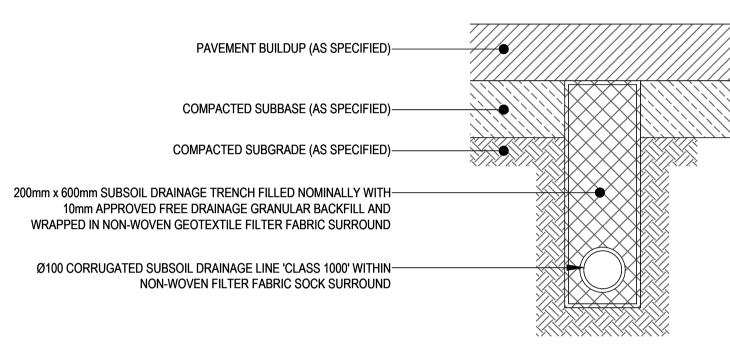
SUBSOIL DRAINAGE TRENCH DETAIL -UNDER LANDSCAPE AREAS



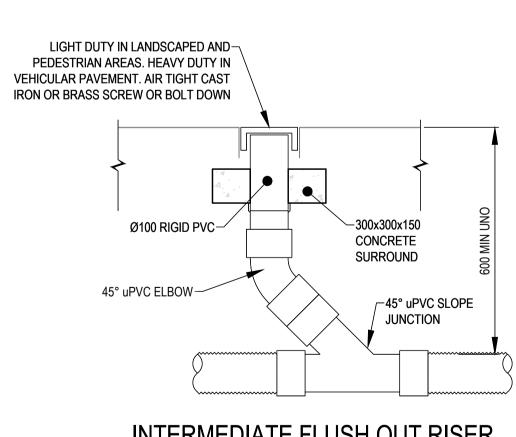
TYPICAL GRASS SWALE DETAIL



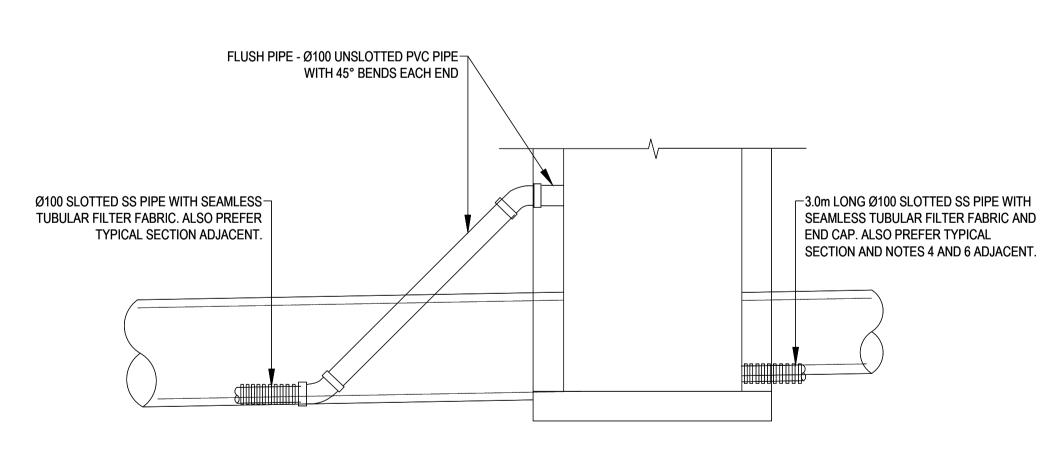
FLUSH OUT RISER IN LANDSCAPED AREAS (SCALE 1:10)



SUBSOIL DRAINAGE TRENCH DETAIL -UNDER PAVEMENT BUILTUP (SCALE 1:10)



INTERMEDIATE FLUSH OUT RISER (SCALE 1:10)



Notes

SUBSOIL DRAINAGE CONNECTION INTO STORMWATER PIT



Key Plan: (NTS) AT 2025.01.17 I ISSUED FOR REF AT 2025.01.17

VE 2024.06.06

VE 2024.05.21

JMB 2024.03.18

JMB 2024.03.08

JMB 2024.02.23

JMB 2023.02.02

MDR 2023.12.15

MDR 2023.03.31 H ISSUED FOR DA LPT
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Client/Project SINSW

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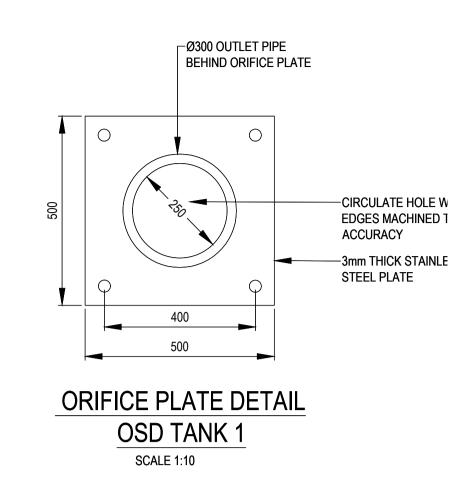
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 2023.03.31

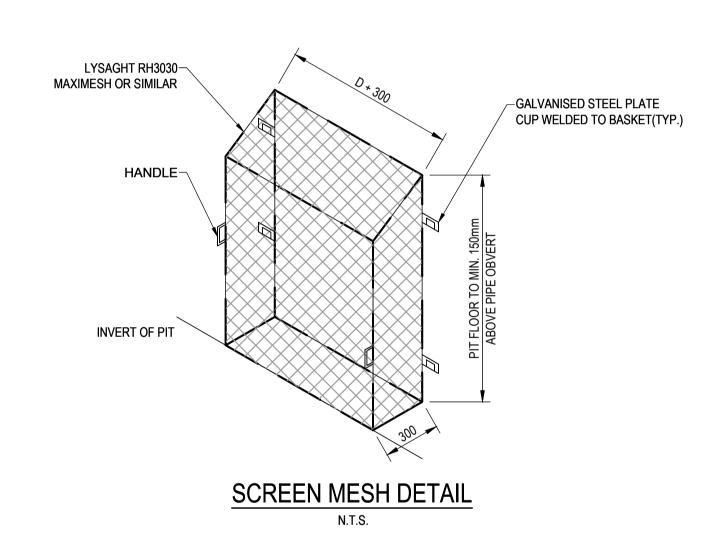
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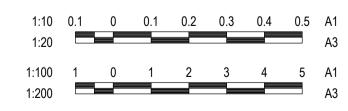
STORMWATER DRAINAGE DETAILS SHEET 3 OF 7

Project No. Scale 304000720 AS SPECFIED Revision Drawing No. CI-1-526-003

STEP IRONS AT 900SQ CLASS B —— 900SQ CLASS B —— 900SQ CLASS B — 900SQ CLASS B ---300 CTS (TYP.) ACCESS LID (TYP.) ACCESS LID (TYP.) ACCESS LID (TYP.) ACCESS LID (TYP.) STEP IRONS AT STEP IRONS AT -STEP IRONS AT STEP IRONS AT - 900SQ CLASS B 300 CTS (TYP.) 300 CTS (TYP.) 300 CTS (TYP.) 300 CTS (TYP.) ACCESS LID (TYP.) └Ø300 OUTLET PIPE AT IL 79.00 Ø300 INLET PIPE TO BE-CONNECTED TO TREATMENT CHAMBER —15m² TREATMENT CHAMBER WITH 5x 690mm PSORB OCEAN PROTECT AT IL 79.62 CARTRIDGES OR SIMILAR APPROVED PRODUCT └Ø375 INLET PIPE TO BE CONNECTED TO TREATMENT CHAMBER AT IL 79.26 - 900SQ CLASS B ACCESS LID (TYP.) - STEP IRONS AT 300 CTS (TYP.) ON-SITE DETENTION TANK EFFECTIVE VOLUME = 532m³ STEP IRONS AT 300 CTS (TYP.) 900SQ CLASS B -900SQ CLASS B — 900SQ CLASS B -900SQ CLASS B 900SQ CLASS B -ACCESS LID (TYP.) ACCESS LID (TYP.) ACCESS LID (TYP.) ACCESS LID (TYP.) ACCESS LID (TYP.) ON-SITE DETENTION (OSD) TANK PLAN 1







Key Plan: (NTS) HAL AT 2025.01.17

LPT VE 2024.06.06

LPT VE 2024.05.21

LPT JMB 2024.03.18

LPT JMB 2024.03.08

LPT JMB 2024.02.23

LPT JMB 2023.02.02

LPT MDR 2023.03.31

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F ISSUED FOR DA E ISSUED FOR DA D ISSUED FOR DA
C 95% SCHEMATIC DESIGN B 50% SCHEMATIC DESIGN A CONCEPT DESIGN Issued/Revision

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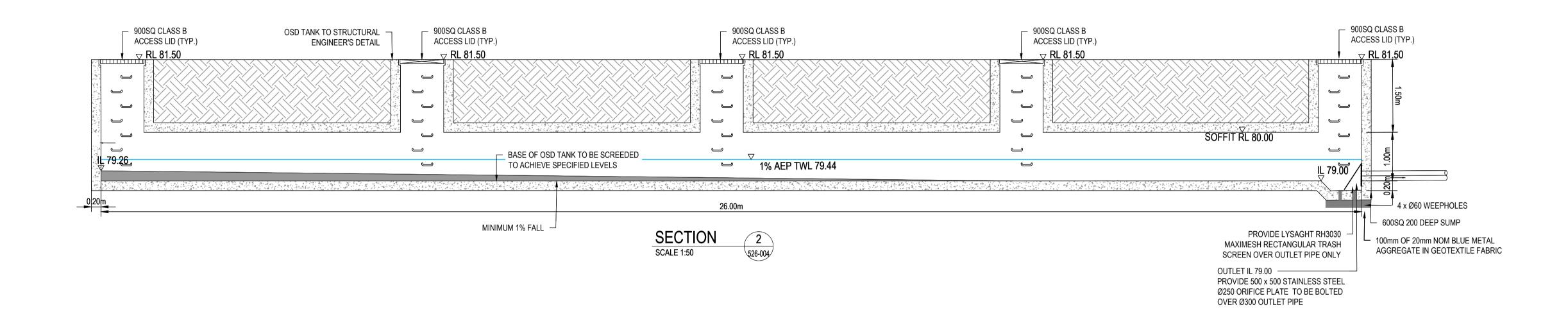
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STORMWATER DRAINAGE DETAILS SHEET 4 OF 7

Project No. Scale 304000720 1:100 Revision Drawing No. CI-1-526-004

 900SQ CLASS B ACCESS LID (TYP.) 900SQ CLASS B ACCESS LID (TYP.) 900SQ CLASS B OSD TANK TO STRUCTURAL -SPORTS COURT ABOVE ACCESS LID (TYP.) ENGINEER'S DETAIL RL 81.60 _▽ RL 81.55 _▽ ¬RL 81.50 0.92m TYPICAL WEIR WALL HEIGHT OUTLET IL 79.00 PROVIDE 500 x 500 STAINLESS STEEL Ø250 ORIFICE PLATE TO BE BOLTED OVER Ø300 OUTLET PIPE MINIMUM 1% FALL BASE OF OSD TANK TO BE SCREEDED TO ACHIEVE SPECIFIED LEVELS 1% AEP TWL 79.44 <u>IL</u> 79.00 - 600SQ 200 DEEP SUMP 4 x Ø60 WEEPHOLES — ─ 15m² WSUD TREATMENT CHAMBER PROVIDE LYSAGHT RH3030 -MAXIMESH RECTANGULAR TRASH WITH 5x 690mm PSORB SECTION 100mm OF 20mm NOM BLUE METAL STORMFILTERS BY OCEAN PROTECT AGGREGATE IN GEOTEXTILE FABRIC SCREEN OVER OUTLET PIPE ONLY 526-004 AND 0.92m WEIR WALL HEIGHT SCALE 1:50



STORMWATER DRAINAGE DETAILS

Scale

NTS

CI-1-526-005

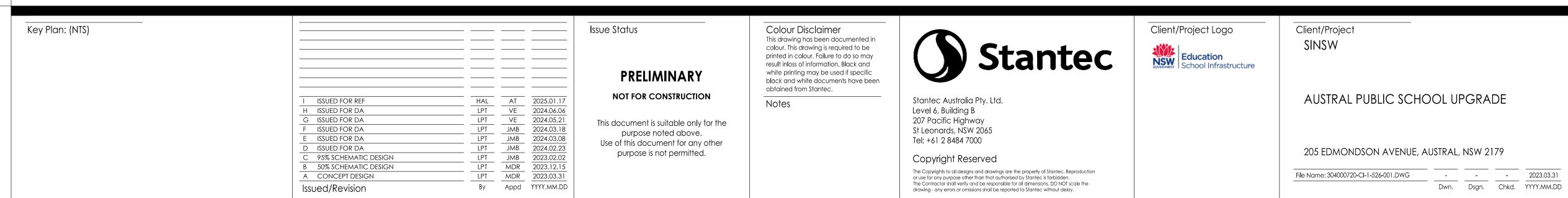
SHEET 5 OF 7

Project No.

304000720

Revision Drawing No.

1:50 1 0.5 0 1 2 A



Plotted: 3/02/2025 3:06:03 PM By: LAL, HARSHII
\\ A IJO)12-NTAPI) CIEK SHARPT PRO IECTKY, 3/2/00/20/ PPO IECT DOCIMENTATION CIVII SDAWINGS & DESIGNASH

900SQ CLASS D —— 900SQ CLASS D ACCESS LID (TYP.) ACCESS LID (TYP.) 900SQ CLASS D ---ACCESS LID (TYP.) STEP IRONS AT -STEP IRONS AT 300 CTS (TYP.) 300 CTS (TYP.) STEP IRONS AT -300 CTS (TYP.) Ø225 INLET PIPE TO BE — CONNECTED TO -Ø225 INLET PIPE TO BE TREATMENT CHAMBER CONNECTED TO AT IL 78.97 TREATMENT CHAMBER AT IL 79.12 -15m² TREATMENT CHAMBER WITH 4x 690mm PSORB OCEAN PROTECT CARTRIDGES OR SIMILAR APPROVED PRODUCT 2 526-007 └Ø300 OUTLET PIPE AT IL 78.20 ON-SITE DETENTION TANK EFFECTIVE VOLUME = 150m³ -Ø225 INLET PIPE TO BE CONNECTED TO TREATMENT CHAMBER AT IL 79.12 STEP IRONS AT -STEP IRONS AT 300 CTS (TYP.) 300 CTS (TYP.) 900SQ CLASS D — ACCESS LID (TYP.) 300 CTS (TYP.) 900SQ CLASS D — ACCESS LID (TYP.) 900SQ CLASS D —— ACCESS LID (TYP.)

ORIFICE PLATE DETAIL
OSD TANK 2

SCALE 1:10

LYSAGHT RH3030-MAXIMESH OR SIMILAR

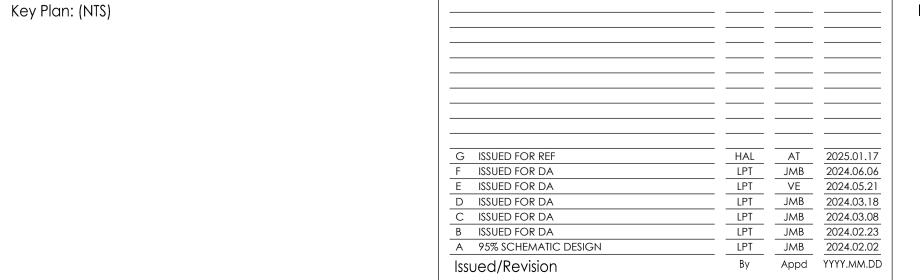
HANDLE

HANDLE

SCREEN MESH DETAIL

ON-SITE DETENTION (OSD) TANK PLAN 2
SCALE 1:50

1:10 0.1 0 0.1 0.2 0.3 0.4 0.5 A1 1:20 A3 1:50 1 0.5 0 1 2 A1 1:100 A3



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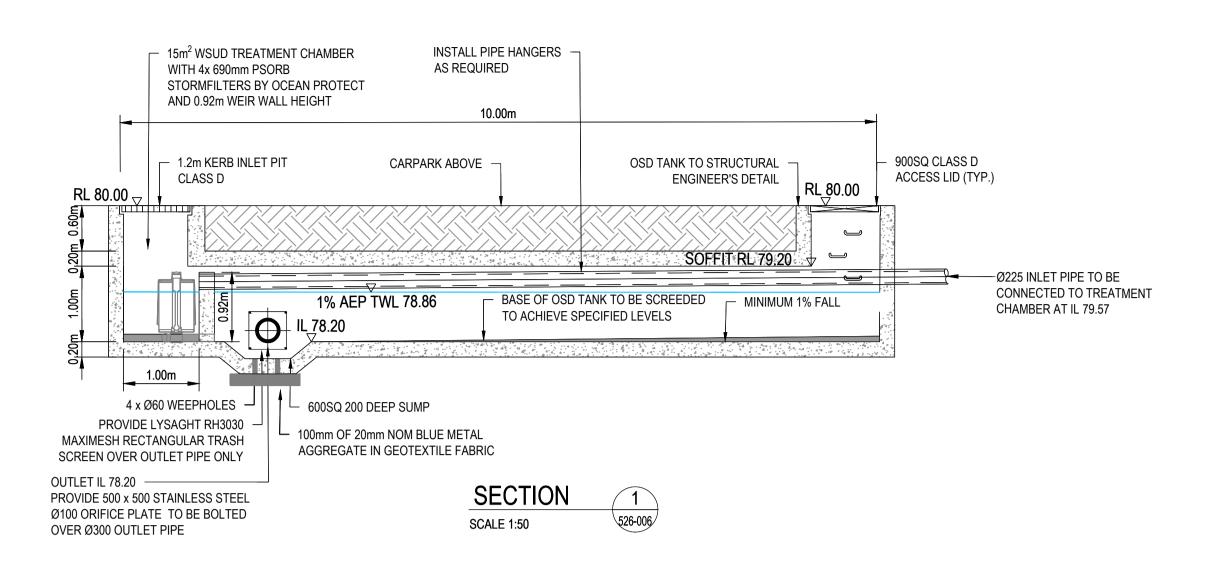
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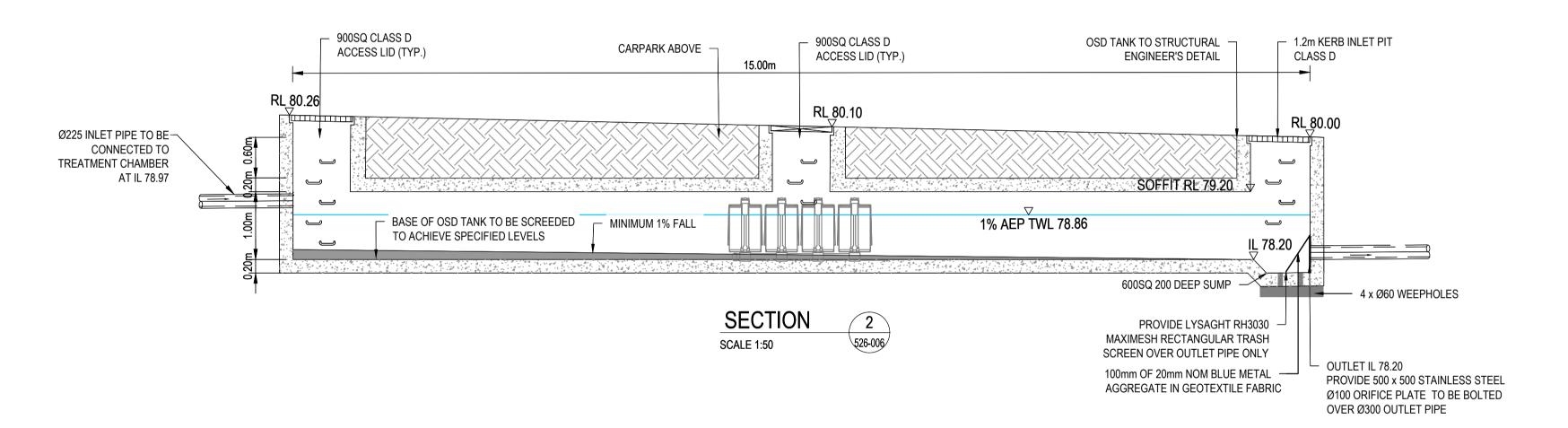
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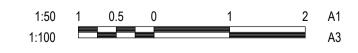
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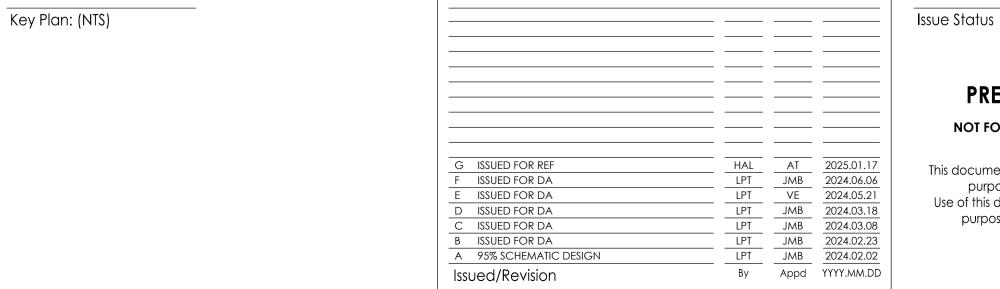
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STORMWATER DRAINAGE DETAILS
SHEET 6 OF 7









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STORMWATER DRAINAGE DETAILS SHEET 7 OF 7

Project No. Scale 304000720 1:500 Revision Drawing No. CI-1-526-007

SL (m AHD) PIT DEPTHS (m) PIT TYPE PIT SIZE **COMMENTS** PIT CLASS **PITS GRATED INLET** 0.68 81.12 600x600 CLASS B 01\01 81.80 PIT **GRATED INLET** 0.70 81.46 80.76 CLASS B 01\02 900x900 -PIT **GRATED INLET** 0.75 80.19 900x900 CLASS B 01\03 80.94 PIT **GRATED INLET** 81.65 79.98 1.67 CLASS B 01\04 900x900 -PIT **GRATED INLET** 01\05 80.01 79.44 0.57 600x600 CLASS B PIT FIT WITH 1x **GRATED INLET** 1.85 81.15 79.30 900x900 OCEANPROTECT 01\06 CLASS B PIT BASKET INSET **GRATED INLET** 81.10 0.68 81.78 600x600 CLASS B 02\01 PIT **GRATED INLET** 80.79 0.89 81.68 900x900 CLASS B 02\02 -PIT **GRATED INLET** 0.75 81.94 81.19 600x600 03\01 CLASS B PIT 0.75 03\02 81.50 80.75 JUNCTION PIT 600x600 CLASS B -2.58 JUNCTION PIT CLASS B 04\01 81.51 78.93 900x900 -78.70 1.06 JUNCTION PIT 04\02 79.76 900x900 CLASS B -**GRATED INLET** 0.55 78.32 CLASS B 04\03 78.87 600x600 -PIT **GRATED INLET** 0.48 78.06 600x600 78.54 CLASS B 04\04 2.4m KERB INLET 0.83 05\01 80.36 79.53 900x450 CLASS D -2.4m KERB INLET 0.83 06\01 80.00 79.17 900x450 CLASS D PIT 2.4m KERB INLET 0.83 07\01 79.31 78.48 900x450 CLASS D PIT 2.4m KERB INLET 0.80 900x450 07\02 79.14 78.34 CLASS D -PIT **GRATED INLET** 1.09 07\03 79.20 78.11 900x900 CLASS B -PIT FIT WITH 1x **GRATED INLET** 0.82 CLASS B 78.09 600x600 07\04 77.27 PIT **GRATED INLET** 0.60 450x450 08\01 77.93 77.33 CLASS B -PIT

OCEANPROTECT **BASKET INSET** Client/Project Logo Key Plan: (NTS) Client/Project Issue Status Colour Disclaimer This drawing has been documented in SINSW Education School Infrastructure colour. This drawing is required to be printed in colour. Failure to do so may result inloss of information. Black and white printing may be used if specific **PRELIMINARY** black and white documents have been obtained from Stantec. NOT FOR CONSTRUCTION AUSTRAL PUBLIC SCHOOL UPGRADE Stantec Australia Pty. Ltd. Notes Level 6, Building B
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 2024.03.18

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STORMWATER PIT SCHEDULE

Scale

NTS

CI-1-527-001

Project No.

G

304000720

Revision Drawing No.

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