

SEKISUI HOUSE

53A & 53B WARRIEWOOD ROAD WARRIEWOOD NSW 2102 CIVIL ENGINEERING WORKS

DEVELOPMENT APPLICATION (DA 2024/1079)

DRAWING SCHEDULE

DESCRIPTION DRAWING NUMBER 220122-00-DA-C01.01 COVER SHEET AND DRAWING SCHEDULE SPECIFICATION NOTES 220122-00-DA-C01.41 GENERAL ARRANGEMENT PLAN 220122-00-DA-C02.01 **DEMOLITION PLAN** 220122-00-DA-C03.01 220122-00-DA-C03.21 220122-00-DA-C04.01 220122-00-DA-C04.21 220122-00-DA-C04.22

220122-00-DA-C05.01 220122-00-DA-C05.02 220122-00-DA-C05.11

220122-00-DA-C06.01 **ROAD TYPICAL CROSS SECTIONS** 220122-00-DA-C07.01 ROAD LONGITUDINAL SECTIONS 220122-00-DA-C11.01 PAVEMENT, SIGNAGE AND LINEMARKING PLAN

220122-00-DA-C13.01 SITE SECTIONS

220122-00-DA-C14.01 SITEWORKS DETAILS 220122-00-DA-C17.01 STORMWATER DRAINAGE LONGITUDINAL SECTION PRE-DEVELOPMENT CATCHMENT PLAN 220122-00-DA-C21.01 POST-DEVELOPMENT CATCHMENT PLAN 220122-00-DA-C22.01 TURNING PATH PLAN - SHEET 01 220122-00-DA-C22.02 TURNING PATH PLAN - SHEET 02 220122-00-DA-C22.03

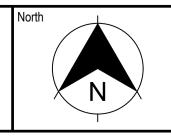
TURNING PATH PLAN - SHEET 03 220122-00-DA-C22.04 TURNING PATH PLAN - SHEET 04

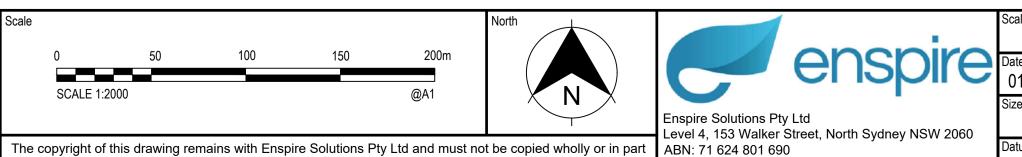
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GENERAL

- ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL STANDARDS.
- NORTHERN BEACHES COUNCIL STANDARDS DETAILS TO BE USED WHERE POSSIBLE.
- 3. UTILITY ADJUSTMENTS AT DEVELOPERS EXPENSE.
- 4. CONDUITS TO BE PLACED WHERE REQUIRED BY THE RELEVANT AUTHORITIES

SURVEY

ORIGIN OF SURVEY

PROJECT: 53A WARRIEWOOD ROAD DATE: 02/01/2021 CARRIED OUT BY: COLLIERS SURVEY NAME: 434-20G T01 [02] REFERENCE NO: 434-20 SSM/PM: SSM 24840 342191.825

6271409.780 13.902 THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN SUPPLIED BY REGISTERED SURVEYORS TO PROVIDE A BASIS FOR DESIGN. THE USE OF THIS SURVEY BASE DOES NOT GUARANTEE THE

AS A BASIS FOR CONSTRUCTION DRAWINGS.

- SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT THE SUPERINTENDENT.
- THE RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES ARE DIAGRAMMATIC ONLY. WHERE DISTANCES TO BOUNDARIES ARE CRITICAL THEY SHOULD BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION BY FURTHER SURVEY.

ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY



EROSION AND SEDIMENT CONTROL

GENERAL INSTRUCTIONS

- . THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF EROSION AND SEDIMENTATION TO THE SATISFACTION OF COUNCIL. NSW OFFICE OF WATER, OFFICE OF ENVIRONMENT AND HERITAGE. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE DRAWINGS SHALL ONLY BE USED AS A GUIDE BY THE CONTRACTOR, AND SHALL REPRESENT THE MINIMUM REQUIREMENT ONLY.
- THE CONTRACTOR SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED TO SUIT CONSTRUCTION STAGING AND WORK PRACTICES OR AS OTHERWISE DIRECTED BY THE SUPERINTENDENT.
- ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH a. LOCAL AUTHORITY REQUIREMENTS b. EPA REQUIREMENTS
- c. LANDCOM 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.
- 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

- 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 SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON
- PLAN. REFER DETAIL. b. CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS
- DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL. c. INSTALL SEDIMENT BASIN AS SHOWN ON PLAN, INSTALL SEDIMENT
- TRAPS AS SHOWN ON PLAN. d. UNDERTAKEN 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

- DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
- 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 DOWNSTREAM WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
- 0. 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.
- 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 IN ACCORDANCE WITH SECTION 4 OF AS4970 "PROTECTION OF TREES ON DEVELOPMENT SITES" AND COUNCIL CONSENT CONDITIONS.

EARTHWORKS

- AT THE COMMENCEMENT OF THE CUT AND FILLING OPERATIONS FOR BULK EARTHWORKS A GEOTECHNICAL ENGINEER IS TO VISIT THE SITE & CONFIRM THE SUITABILITY OF THE METHODOLOGY OF ACHIEVING THE REQUIRED BUILDING PLATFORMS AND COMPACTION REQUIREMENTS. SUBSEQUENTLY, THE HEAD CONTRACTOR IS TO CONFIRM, IN WRITING TO THE SUPERINTENDENT THAT THE METHODOLOGY APPROVED AT THE TIME OF THE GEOTECHNICAL ENGINEERS VISIT WAS MAINTAINED DURING ALL THE BULK EARTHWORKS PROCESS.
- 2. STRIP TOPSOIL, ORGANIC MATTER AND RUBBLE FROM CONSTRUCTION AREA TO EXPOSE NATURALLY OCCURRING MATERIAL AND STOCKPILE ON SITE AS DIRECTED BY THE SUPERINTENDENT.
- . WHERE FILLING, STRUCTURAL SLABS OR PAVEMENTS ARE REQUIRED, PROOF ROLL THE EXPOSED NATURAL SURFACE WITH A MINIMUM OF TEN PASSES OF A SMOOTH DRUM NON-VIBRATING ROLLER (MINIMUM STATIC WEIGHT OF 10 TONNES) TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER) IN THE PRESENCE OF THE SUPERINTENDENT. THE CONTRACTOR IS TO ALLOW TO REMOVE AND REPLACE A PROVISIONAL QUANTITY OF UNSUITABLE SUBGRADE MATTER.
- 4. ALL SOFT, WET OR UNSUITABLE MATERIAL IS TO BE REMOVED AS DIRECTED BY THE SUPERINTENDENT AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS LISTED BELOW.
- 5. EXCAVATED MATERIAL IS NOT TO BE USED AS STRUCTURAL FILL UNLESS APPROVED BY THE GEOTECHNICAL ENGINEER.
- 6. THE CONTRACTOR IS TO PROVIDE CERTIFICATES VERIFYING THE QUALITY OF IMPORTED MATERIAL FOR THE SUPERINTENDENTS APPROVAL.
- . ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM LAYER THICKNESS TO COUNCIL SPECIFICATIONS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE A DRY DENSITY DETERMINED IN ACCORDANCE WITH AS1289 E3.1 OF NOT LESS THAN THE FOLLOWING STANDARD MINIMUM DRY DENSITY IN ACCORDANCE WITH AS1289 E5.1.1.1:

COMPACTION REQUIREMENT

UNDER BUILDING SLABS LANDSCAPED AREAS

98% SMDD 95% SMDD ROADS & PAVED AREAS 100% SMDD

- FOR NON COHESIVE MATERIAL, COMPACT TO NOT LESS THAN UNDER ROAD 80% DENSITY OTHER AREA 75% DENSITY
- THE CONTRACTOR IS TO ALLOW FOR COMPACTION TESTING BY NATA REGISTERED LABORATORY FOR PLATFORMS AND FILL LAYERS IN ACCORDANCE WITH THE LATEST VERSION OF AS3798 - FOR TYPE 1 OPERATIONS (MINIMUM 3 TESTS PER LAYER).
- 10. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN: 1 TEST PER 200m3 OF FILL PLACED PER LAYER OF FILL B. 3 TESTS PER VISIT
 - 1 TEST PER 1000m² OF EXPOSED SUBGRADE
- 11. TESTING SHALL BE "LEVEL 1" UNDERTAKEN IN ACCORDANCE WITH AS3798.
- 12. WHERE TEST RESULTS ARE BELOW THE SPECIFIED COMPACTION, RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION STANDARD IS ACHIEVED.
- 13. ALLOW FOR EXCAVATION IN ALL MATERIALS AS FOUND U.N.O. NO ADDITIONAL PAYMENTS WILL BE MADE FOR EXCAVATION IN WET OR HARD GROUND.
- 14. WHERE THERE IS INSUFFICIENT EXCAVATED MATERIAL SUITABLE FOR FILLING OR SUBGRADE REPLACEMENT. THE CONTRACTOR IS TO ALLOW TO IMPORT FILL. IMPORTED FILL SHALL COMPLY WITH THE FOLLOWING: MAXIMUM SIZE 50mm. PASSING 75 MICRON SIEVE (<25%).
- PLASTICITY INDEX BETWEEN 2-15% AND CBR>8. B. FREE FROM ORGANIC AND PERISHABLE MATTER.
- 15. THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLER MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED AT THEIR COST.
- 16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE AND MAINTAIN THE INTEGRITY OF ALL SERVICES, CONDUITS AND PIPES DURING CONSTRUCTION, SPECIFICALLY DURING THE BACKFILLING AND COMPACTION PROCEDURE. ANY AND ALL DAMAGE TO NEW OR EXISTING SERVICES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXTRA COST.
- 17. PROTECT FINAL SURFACE WITH EITHER A TEMPORARY LOOSE SOIL LAYER OR A GRANULAR SUB-BASE LAYER TO PREVENT DRYING OUT PRIOR TO ON-GROUND SLAB CONSTRUCTION.

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SITEWORKS

- ALL WORKS TO BE IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS, SPECIFICATIONS AND AUSTRALIAN STANDARDS. CONFLICTS SHALL BE REFERRED TO THE SUPERINTENDENT FOR
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK, ANY DISCREPANCIES TO BE REPORTED TO THE SUPERINTENDENT.
- THE CONTRACTOR IS TO DESIGN, OBTAIN APPROVALS AND CARRY OUT REQUIRED TEMPORARY TRAFFIC CONTROL PROCEDURES DURING CONSTRUCTION IN ACCORDANCE WITH TINSW AND LOCAL AUTHORITY REGULATIONS AND REQUIREMENTS.
- THE CONTRACTOR IS TO OBTAIN ALL AUTHORITY APPROVALS AS
- RESTORE ALL PAVED, COVERED, GRASSED AND LANDSCAPED AREAS TO THEIR ORIGINAL CONDITION ON COMPLETION OF WORKS.
- 6. ON COMPLETION OF ANY TRENCHING WORKS, ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, INCLUDING KERBS. FOOTPATHS, CONCRETE AREAS, GRAVEL, GRASSED AREAS AND ROAD PAVEMENTS.
- THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
- 8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO LODGMENT OF TENDER AND ON SITE WORKS. THE PRICE AS TENDERED SHALL BE INCLUSIVE OF ALL WORKS SHOWN ON THE TENDER PROJECT DRAWINGS. ADDITIONAL PAYMENTS FOR WORKS SHOWN ON THE TENDER PROJECT DRAWINGS WILL NOT BE APPROVED.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS AND SPECIFICATIONS, AND ANY OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING TO DEVELOPMENT OF THE SUBJECT SITE.
- 10. THESE PLANS SHALL BE READ IN CONJUNCTION WITH ALL APPROVED DRAWINGS AND SPECIFICATIONS PREPARED BY OTHER PROJECT CONSULTANTS.
- 11. DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS. ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND ALL LEVELS ARE IN METRES (m), UNO. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
- 12. IN CASE OF DOUBT OR DISCREPANCY REFER TO THE SUPERINTENDENT FOR CLARIFICATION OR CONFIRMATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. OTHERWISE THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REMEDIATION WORKS.
- 3. WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS
- OBTAINED. 14. THE CONTRACTOR SHALL COMPLY WITH ALL STATUTORY AND INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT
- INCLUDING TRAFFIC CONTROL. 5. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO ALL
- BUILDINGS ADJACENT THE WORKS IS NOT DISRUPTED. 16. WHERE NECESSARY THE CONTRACTOR SHALL PROVIDE SAFE PASSAGE OF
- VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.
- 17. 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.
- 18. ALL VARIATIONS TO SPECIFIED PRODUCTS OR DESIGNS SHALL BE REFERRED TO THE DESIGN ENGINEER IN WRITING FOR APPROVAL.
- 19. EPA AND COUNCIL REQUIREMENTS MUST BE ADHERED TO REGARDING THE LEVEL OF NOISE AND WORKING HOURS, TO ENSURE THAT RESIDENTS AND OTHER APPLICABLE NEIGHBOURS TO THE SITE ARE NOT DISTURBED UNREASONABLY. THE GENERATION OF NOISE MUST BE MINIMISED.

STORMWATER DRAINAGE

- 1. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 AND AS/NZS 3500
- 2. SUBSOIL DRAINAGE LINES SHALL BE INSTALLED BEHIND ALL KERBS EXCEPT WHERE STORMWATER DRAINAGE IS LOCATED ALONG THE KERBLINE.
- 3. A MINIMUM OF 3m OF SUBSOIL LINE SHALL BE LAID INTO UPSTREAM
- SIDE OF ALL DRAINAGE PITS. 4. FLUSHING POINTS SHALL BE INSTALLED TO COUNCIL SPECIFICATION.
- 5. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC (CLASS SN4)
- 6. PIPES 375 DIA. AND LARGER TO BE REINFORCED CONCRETE MIN CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING
- 7. ALL PIPES ARE TO BE LAID AT (min) 1.0% GRADE (UNO)

WITH SOLVENT WELDED JOINTS.

JOINTS. U.N.O.

- 8. ALL PIPES ARE TO BE UNIFORMLY SUPPORTED ALONG THE LENGTH OF THE BARREL BY SUITABLE FILL MATERIAL. REFER TO BEDDING SUPPORT TYPE.
- 9. PIPES WITH SOCKETS SHALL BE LAID IN BEDDING WHERE SUITABLE RECESSES HAVE BEEN PROVIDED TO ENSURE PIPES DO NOT BEAR ON THEIR SOCKETS.
- 10. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- 11. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE
- 12. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
- 13. WHERE WORKING METHODS REQUIRE HIGHER CLASS PIPE, THE CONTRACTOR SHALL REFER TO AS 3725 TO DETERMINE THE APPROPRIATE PIPE CLASS. ANY CHANGES IN PROPOSED PIPE CLASS SHALL BE SUBMITTED TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO INSTALLATION.
- 14. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- 15. PRECAST PITS MAY BE USED SUBJECT TO WRITTEN APPROVAL BY THE SUPERINTENDENT.
- 16. ALL PIPE PENETRATIONS (EXISTING, IN-SITU AND PRECAST) ARE TO BE FINISHED FLUSH WITH THE INTERNAL PIT WALL AND PROPERLY SEALED WITH CEMENT RENDER. MASS CONCRETE BENCHING IS TO BE INSTALLED TO MATCH THE OUTLET PIPE INVERT LEVEL AND A LOCKABLE HINGED GRATE AND FRAME WITH CONCRETE SURROUND INSTALLED U.N.O.

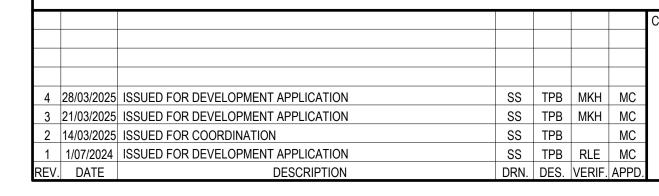
- USE HOT DIPPED GALVANISED GRATES AND CONCRETE FILLED COVERS WITH HINGES AND HOLD DOWN BOLTS COMPLYING WITH AS3996 AND OTHER RELEVANT AUSTRALIAN AND COUNCIL STANDARDS.
- ALL COVERS AND GRATES TO BE POSITIONED IN A FRAME AND MANUFACTURED AS A UNIT.
- ALL COVERS AND GRATES TO BE FITTED WITH POSITIVE
- COVER LIFTING KEYS. OBTAIN SUPERINTENDENT'S APPROVAL FOR THE USE OF CAST IRON SOLID COVERS AND GRATES, CAST IRON SOLID COVERS (IF APPROVED) TO CONSIST OF CROSS-WEBBED, CELLULAR CONSTRUCTION WITH THE RIBS UPPERMOST TO ALLOW INFILLING WITH CONCRETE. INSTALL POSITIVE COVER LIFTING KEYS AND PLASTIC
- UNLESS DETAILED OR SPECIFIED OTHERWISE COVERS AND GRATES TO BE CLASS "D" IN VEHICULAR PAVEMENTS AND CLASS "B" ELSEWHERE.
- 18. NOTE THAT THE PIT COVER LEVEL NOMINATED IN GUTTERS ARE TO THE INVERT OF THE GUTTER WHICH IS 40mm LOWER THAN THE PAVEMENT LEVEL AT LIP OF GUTTER.
- 19. Ø100mm SUB-SOIL DRAINAGE LINES SHALL BE CONNECTED TO A STORMWATER DRAINAGE PIT AND PROVIDED IN THE FOLLOWING
- LOCATIONS: A. ADJACENT ALL TRAFFICKED AND CARPARK PAVEMENT AREAS (BEHIND KERB);
- ALL PLANTER AND TREE BEDS PROPOSED ADJACENT TO PAVEMENT AREAS; BEHIND RETAINING WALLS (IN ACCORDANCE WITH
- DRAWINGS): BELOW ALL TRAFFICABLE DISH DRAINS; ALL OTHER AREAS SHOWN ON THE DRAWINGS.
- 20. THE CONTRACTOR SHALL INSTALL FLUSHING POINTS TO ALL SUBSOIL DRAINAGE LINES AND DOWNPIPE LINES AS SPECIFIED ON DRAWINGS, AT MAXIMUM CENTRES TO COUNCIL SPECIFICATION AND AT ALL UPSTREAM ENDPOINTS.
- 21. PROVIDE 3.0m LENGTH OF Ø100 SUBSOIL DRAINAGE PIPE WRAPPED IN A NON-WOVEN GEOTEXTILE FABRIC, TO THE UPSTREAM SIDE OF STORMWATER PITS, LAID IN STORMWATER PIPE TRENCHES AND CONNECTED TO THE DRAINAGE PIT.
- 22. SUBSOIL TRENCHES SHALL BE BACKFILLED WITH SINGLE SIZED 10mm AGGREGATE WRAPPED IN NON-WOVEN GEOTEXTILE FABRIC. SUBSOIL TRENCHES BELOW TRAFFICABLE PAVEMENTS SHALL BE BACKFILLED WITH NO FINES CONCRETE WRAPPED IN NON-WOVEN GEOTEXTILE FABRIC, U.N.O.
- 23. ALL RECTANGULAR HOLLOW SECTIONS (RHS) SPECIFIED AS STORMWATER CONDUITS TO BE HOT DIPPED GALVANISED AND HAVE (MINIMUM) 5mm WALL THICKNESS.

STORMWATER DRAINAGE (CONT.)

- 24. ALL BOX CULVERTS SHALL BE STRUCTURALLY DESIGNED BY THE MANUFACTURER AND DELIVERED TO SITE AS FIT FOR PURPOSE.
- 25. ELECTRICAL PITS ARE TO DRAIN TO THE NEAREST STORMWATER PIT WITH VERMIN PROOF NON-RETURN FLAP VALVES AS REQUIRED. THE CONTRACTOR IS TO CONFIRM WITH THE ELECTRICAL DESIGNER AS PART OF THE TENDER.
- 26. THE CONTRACTOR SHALL ENSURE AND PROTECT THE INTEGRITY OF ALL STORMWATER PIPES DURING CONSTRUCTION. ANY AND ALL DAMAGE TO THESE PIPES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE SUPERINTENDENT, AND AT NO EXTRA COST.
- 27. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- 28. 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.
- 29. ANY VARIATION TO SPECIFIED PRODUCTS OR DETAILS SHALL BE REFERRED TO THE SUPERINTENDENT FOR APPROVAL.

PAVEMENTS

- ALL PAVEMENT MATERIALS SHALL COMPLY WITH CURRENT TINSW SPECIFICATIONS. PROVIDE MECHANICAL ANALYSIS FOR EACH BATCH OF PAVEMENT MATERIAL TO ENSURE CONFORMITY.
- 2. COMPACTION STANDARDS:
- BASE: 98% MODIFIED MAXIMUM DRY DENSITY SUBBASE: 98% MODIFIED MAXIMUM DRY DENSITY
- THE CONTRACTOR SHALL CONFIRM THE DESIGN CBR WITH A MINIMUM OF 3 TESTS TAKEN AT SUBGRADE LEVEL. WHERE DISCREPANCY IS FOUND, CONTACT THE SUPERINTENDENT.
- . ALLOW FOR COMPACTION TESTING BY NATA REGISTERED LABORATORY FOR: BASE LAYER, SUBBASE LAYER, SUBGRADE IN ACCORDANCE WITH THE LATEST VERSION OF AS3798 FOR PAVEMENTS. ALLOW FOR AT LEAST TWO SUCCESSFUL COMPACTION TESTS IN EACH LAYER.
- MATCH NEW PAVEMENT LAYERS NEATLY AND FLUSH WITH EXISTING WHERE REQUIRED.
- . KEY NEW BASE AND SUBBASE LAYERS INTO EXISTING WITH 150mm WIDE STEPS, ASPHALTIC CONCRETE WEARING COURSE IS TO EXTEND 150mm (MIN) PAST BASECOURSE INTERFACE.
- TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MIN 50mm IN BITUMINOUS PAVING.
- B. ALL ASPHALTIC CONCRETE (AC) WORK TO BE PREPARED AND CARRIED OUT IN ACCORDANCE WITH GOOD ASPHALTIC PAVING PRACTICE AS DESCRIBED IN AS2734 "ASPHALT (HOT-MIXED) PAVING - GUIDE TO GOOD PRACTICE" AND CURRENT THISW SPECIFICATIONS (R116).
- . WHERE NOMINATED, THE CONTRACTOR SHALL ALLOW FOR ALL COMPONENTS OF PROPRIETARY JOINTING SYSTEMS INCLUDING FIXING. TEMPLATES & PEGGING TO ENSURE THAT ALL DOWEL BARS REMAIN IN THE CORRECT ALIGNMENT AND POSITION.
- 10. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TINSW. SPECIFICATION 3051, 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.
- 1. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TINSW. SPECIFICATION 3051, 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 50m3 OF SUB-BASE COURSE MATERIAL PLACED.
- 2. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (11) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH TINSW. SPECIFICATION 3051 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF THE COUNCIL ENGINEER.
- 3. 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.





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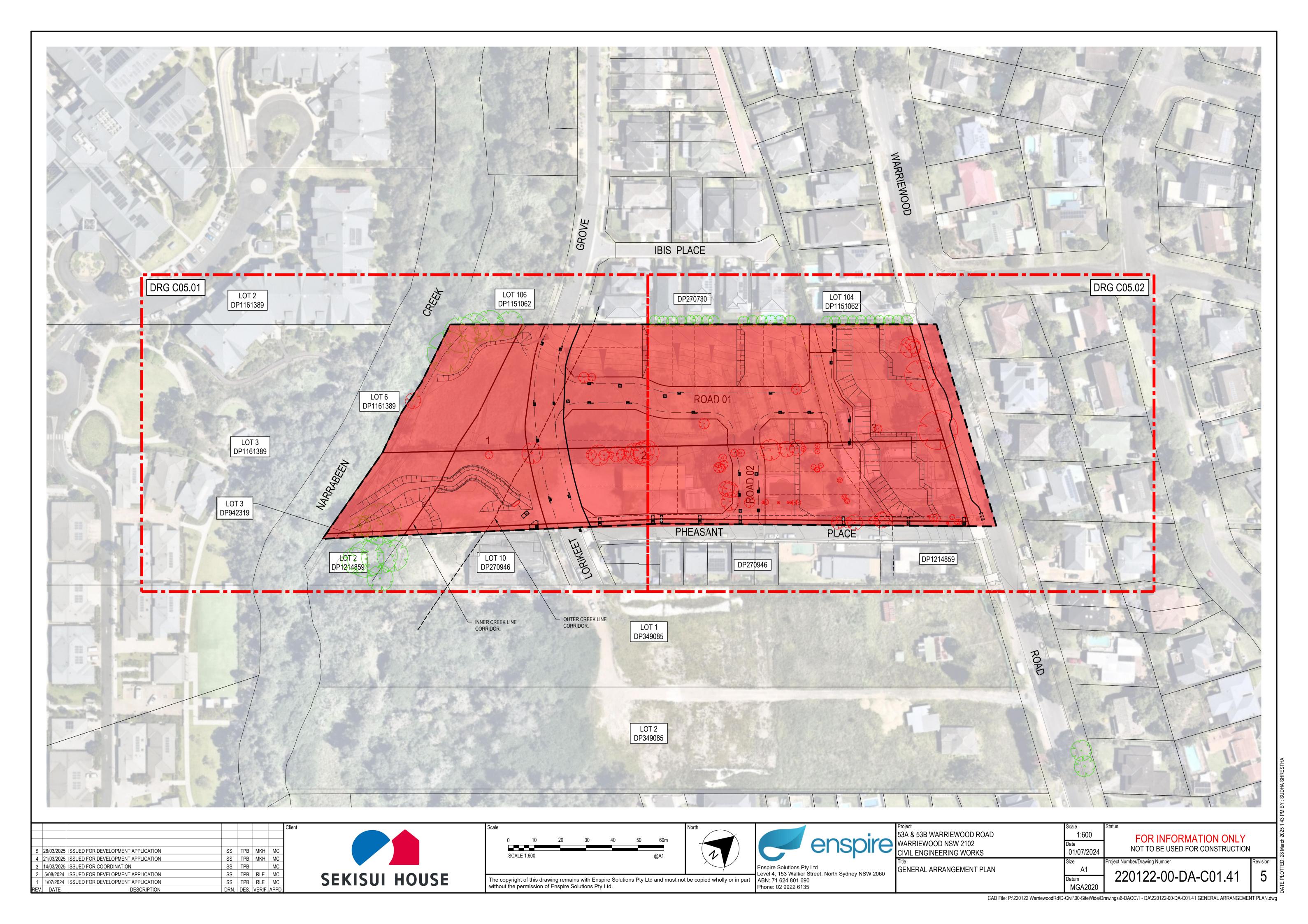
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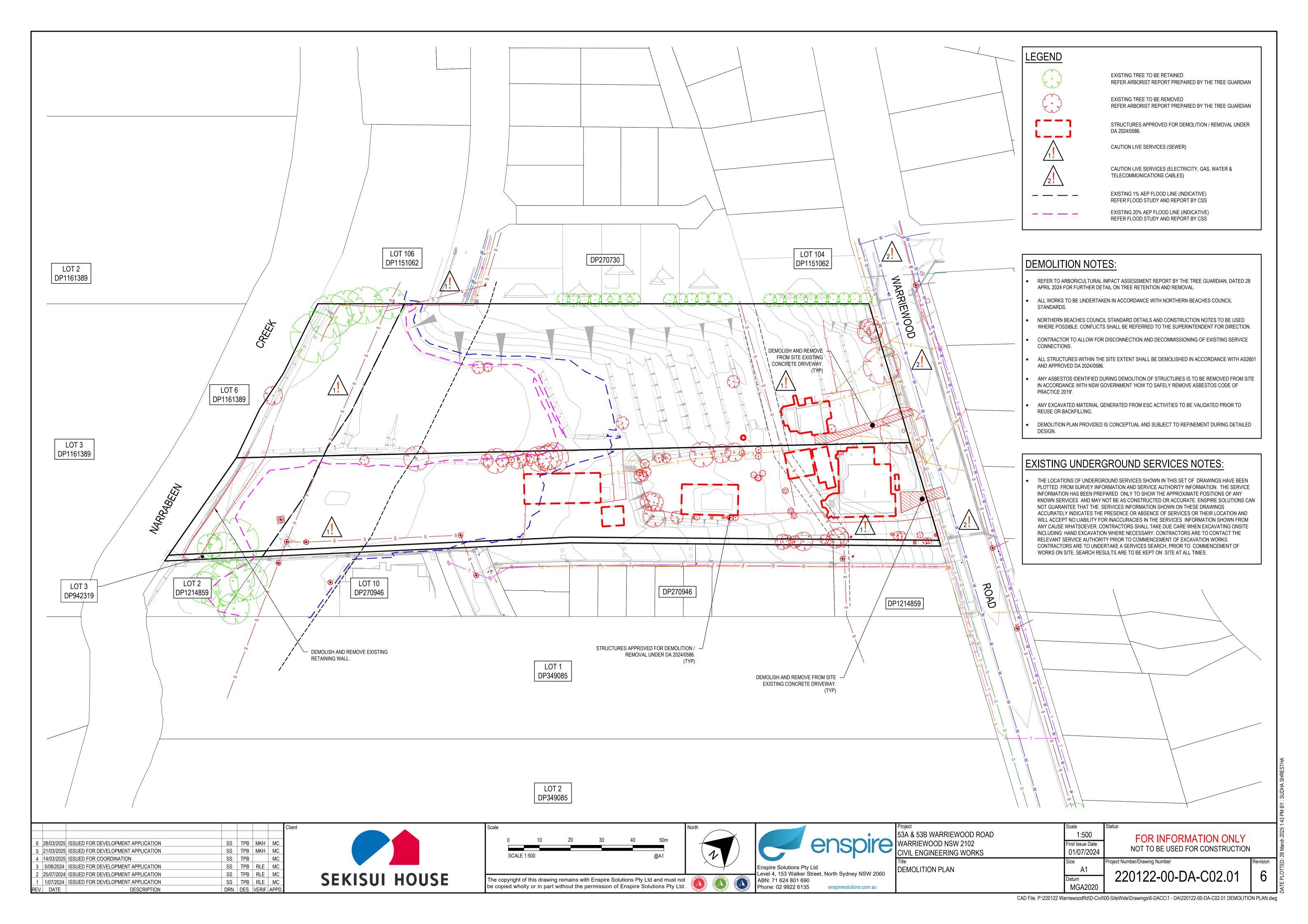
53A & 53B WARRIEWOOD ROAD WARRIEWOOD NSW 2102 VIL ENGINEERING WORKS SPECIFICATION NOTES

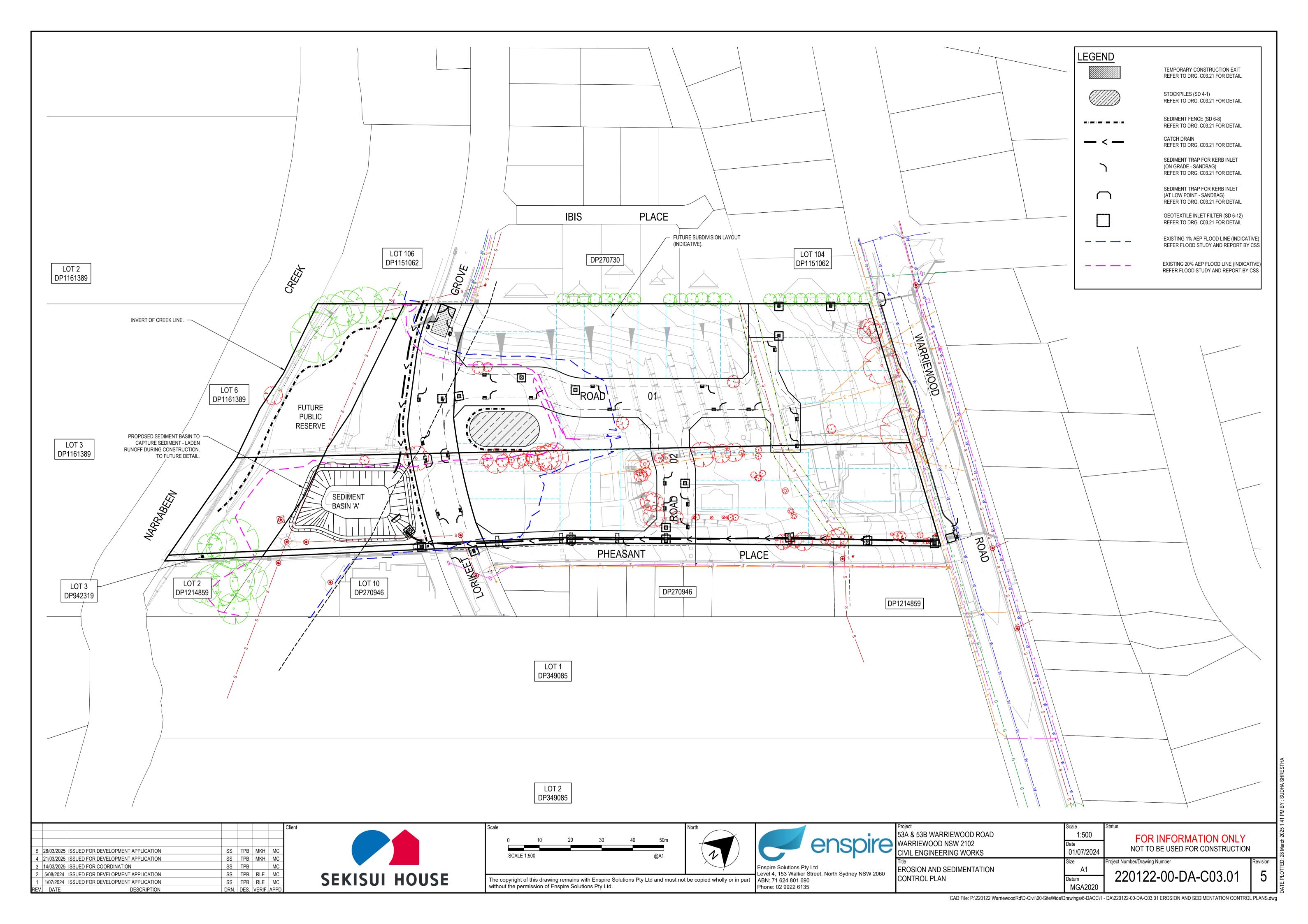
N.T.S FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTION 01/07/2024 oject Number/Drawing Number

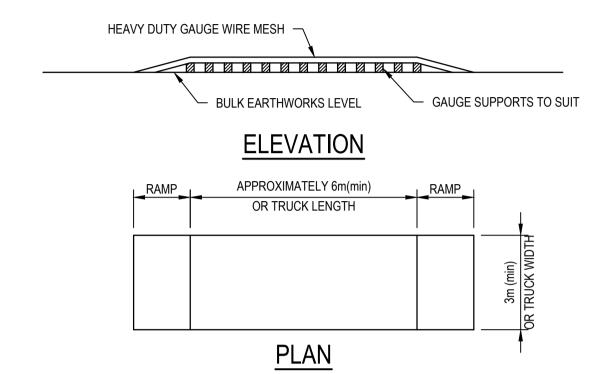
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A1



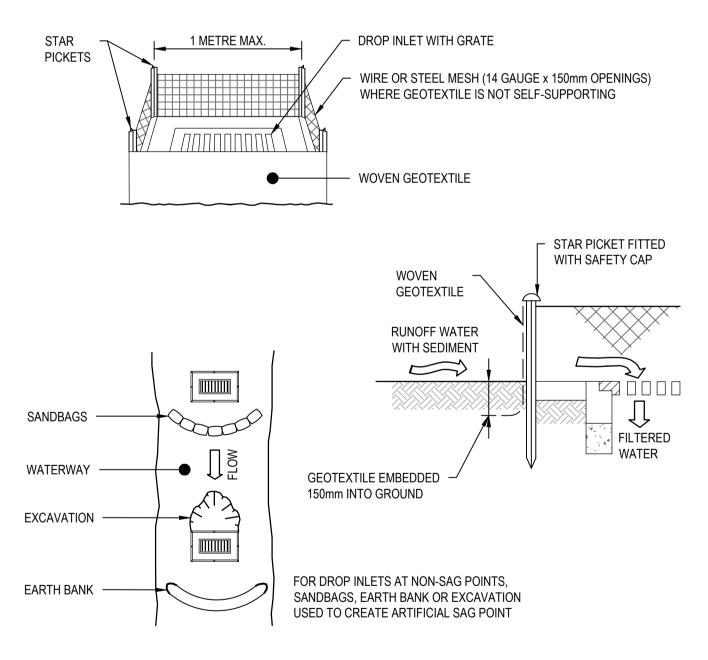






TEMPORARY CONSTRUCTION EXIT (SHAKER PAD DETAIL)

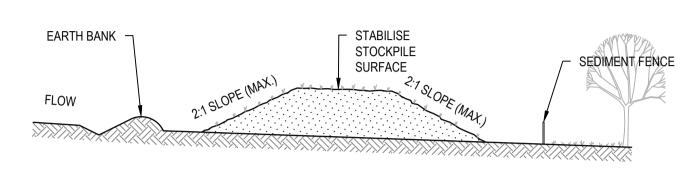
THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE REPAIR AND OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.



CONSTRUCTION NOTES

- FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
- 2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
- 3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN
- 4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS

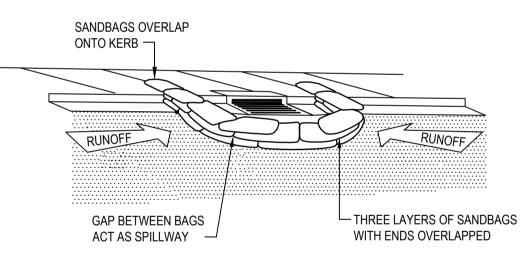
GEOTEXTILE INLET FILTER (SD 6-12)



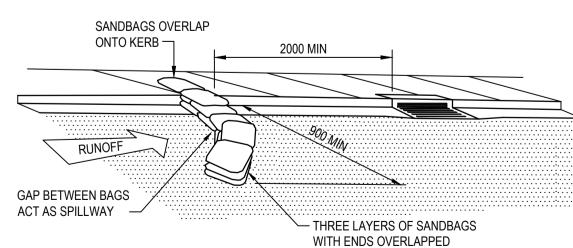
CONSTRUCTION NOTES

- 1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
- CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
- 3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
- 4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
- 5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

STOCKPILES (SD 4-1)



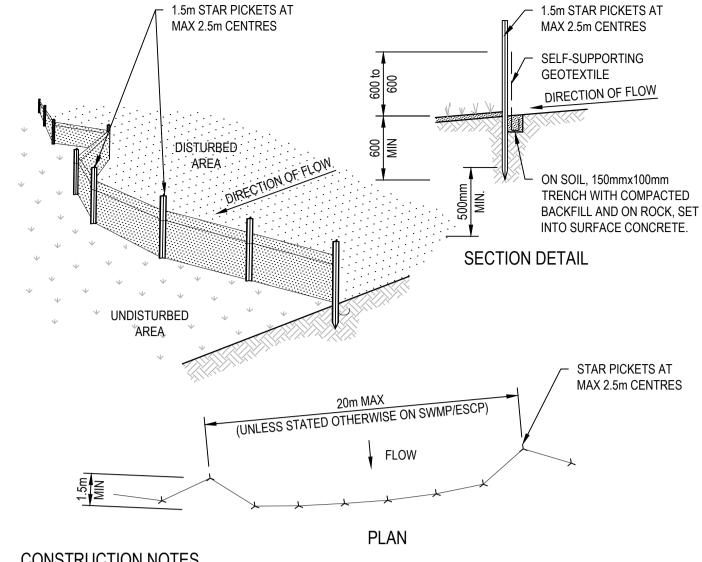
SEDIMENT TRAP FOR KERB INLET (AT LOW POINT - SANDBAG) NOT TO SCALE



SEDIMENT TRAP FOR KERB INLET (ON GRADE - SANDBAG)

NOT TO SCALE

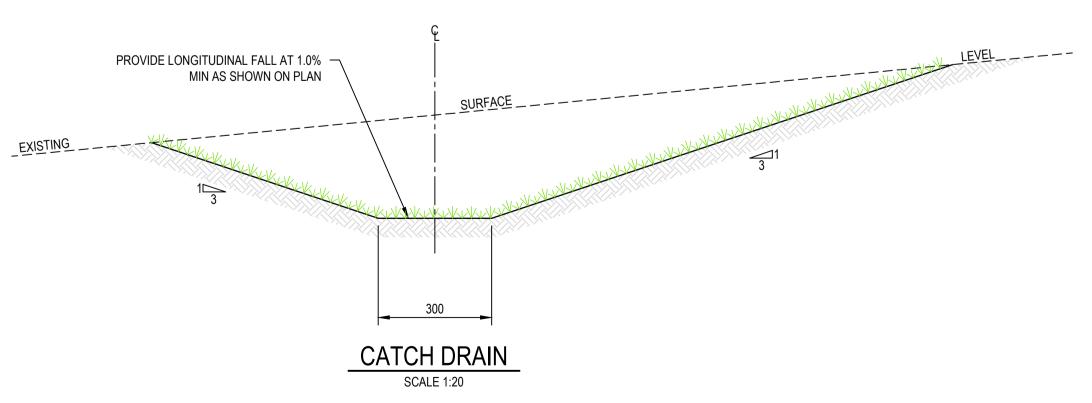
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CONSTRUCTION NOTES

- 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 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE 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.

SEDIMENT FENCE (SD 6-8)

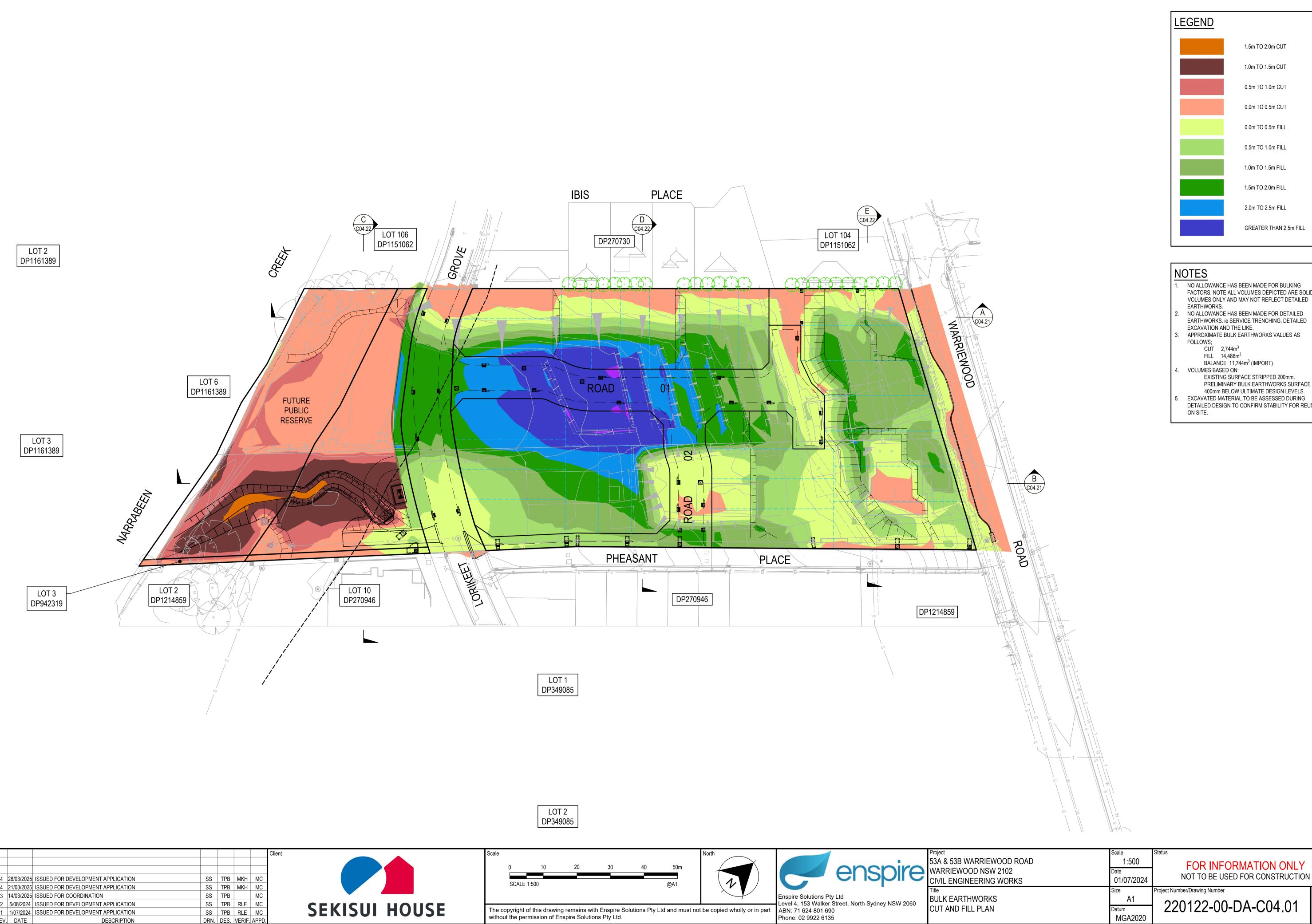


3 21/03/2025 ISSUED FOR DEVELOPMENT APPLICATION SS TPB MKH MC 2 | 14/03/2025 | ISSUED FOR COORDINATION SS TPB SS TPB RLE MC DRN. DES. VERIF. APPO /. DATE DESCRIPTION





53A & 53B WARRIEWOOD ROAD N.T.S FOR INFORMATION ONLY WARRIEWOOD NSW 2102 NOT TO BE USED FOR CONSTRUCTION 01/07/2024 CIVIL ENGINEERING WORKS EROSION AND SEDIMENTATION CONTROL DETAILS 220122-00-DA-C03.21 MGA2020



2 | 5/08/2024 | ISSUED FOR DEVELOPMENT APPLICATION

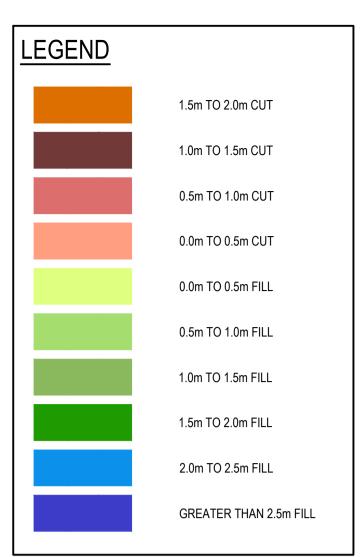
1/07/2024 ISSUED FOR DEVELOPMENT APPLICATION

EV. DATE

DESCRIPTION

DRN. DES. VERIF. APPD

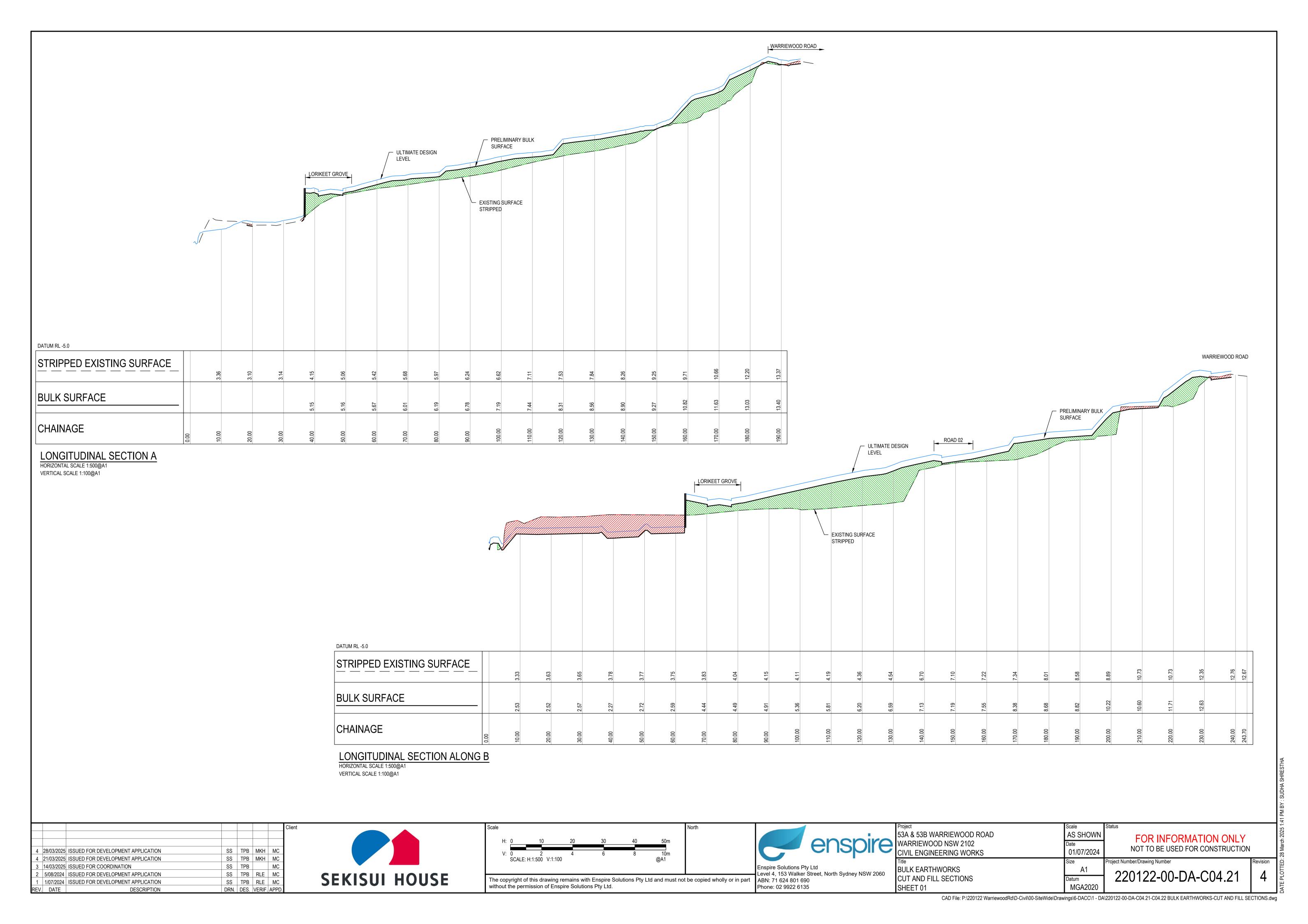
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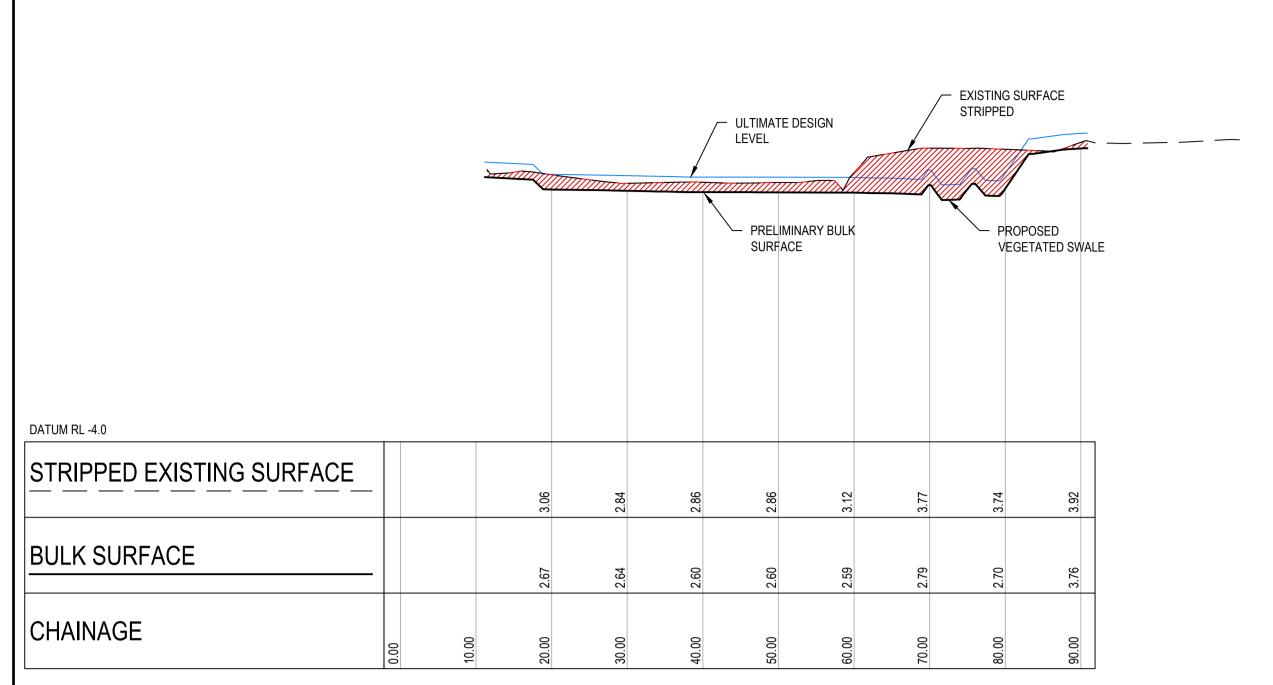


NOTES

- NO ALLOWANCE HAS BEEN MADE FOR BULKING FACTORS. NOTE ALL VOLUMES DEPICTED ARE SOLID VOLUMES ONLY AND MAY NOT REFLECT DETAILED EARTHWORKS.
- NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS. ie SERVICE TRENCHING, DETAILED
- EXCAVATION AND THE LIKE. APPROXIMATE BULK EARTHWORKS VALUES AS FOLLOWS;
 - CUT 2,744m³ FILL 14,488m³
 - BALANCE 11,744m³ (IMPORT)
- 4. VOLUMES BASED ON; EXISTING SURFACE STRIPPED 200mm.
- PRELIMINARY BULK EARTHWORKS SURFACE 400mm BELOW ULTIMATE DESIGN LEVELS.
- EXCAVATED MATERIAL TO BE ASSESSED DURING DETAILED DESIGN TO CONFIRM STABILITY FOR REUSE ON SITE.

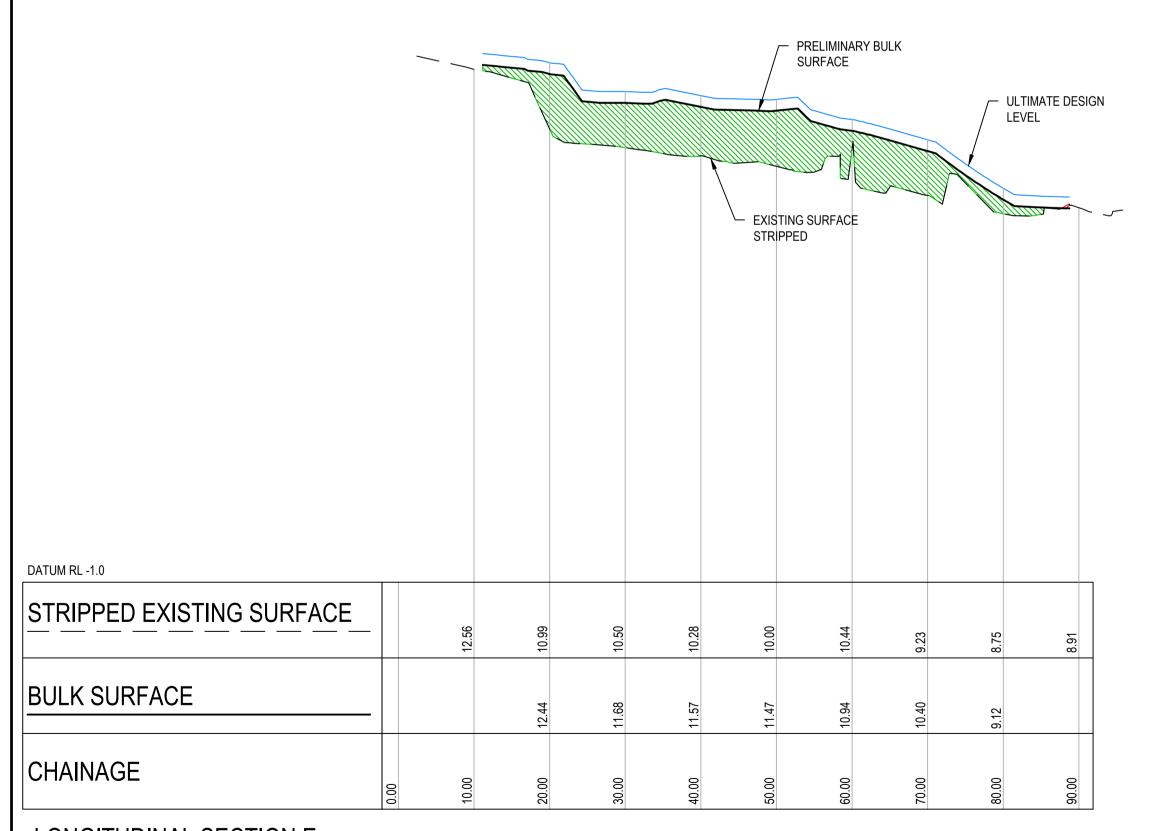
CUT AND FILL PLAN





LONGITUDINAL SECTION ALONG C HORIZONTAL SCALE 1:500@A1

VERTICAL SCALE 1:100@A1



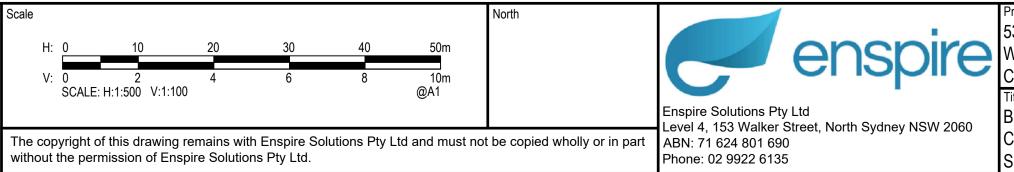
LONGITUDINAL SECTION E

HORIZONTAL SCALE 1:500@A1 VERTICAL SCALE 1:100@A1

4	28/03/2025	ISSUED FOR DEVELOPMENT APPLICATION	SS	TPB	MKH	MC
3	21/03/2025	ISSUED FOR DEVELOPMENT APPLICATION	SS	TPB	MKH	MC
2	14/03/2025	ISSUED FOR DEVELOPMENT APPLICATION	SS	TPB		MC
1	1/07/2024	ISSUED FOR DEVELOPMENT APPLICATION	SS	TPB	RLE	MC
RFV	DATE	DESCRIPTION	DRN	DES	VFRIF	APPD



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	H: 0	10	20	30	40	50m	
	V: 0 SCALE	2 :: H:1:500 V:1:1	4	6	8	10m @A1	



	Project	Scale
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7	WARRIEWOOD NSW 2102	Date
	CIVIL ENGINEERING WORKS	01/07
	Title	Size
	BULK EARTHWORKS	Α
	CUT AND FILL SECTIONS	Datum
	SHEET 02	MGA

- PRELIMINARY BULK

SURFACE

EXISTING SURFACE

STRIPPED

ULTIMATE DESIGN

PHEASANT PLACE

EXISTING
RETAINING WALL.

LEVEL

ROAD 01

				42 PM E
oject	Scale	Status		2025 1:
3A & 53B WARRIEWOOD ROAD /ARRIEWOOD NSW 2102	AS SHOWN	FOR INFORMATION ONLY		
IVIL ENGINEERING WORKS	Date 01/07/2024	NOT TO BE USED FOR CONSTRUCTION		28 March
tle	Size	Project Number/Drawing Number	Revision	
ULK EARTHWORKS	A1	220122-00-DA-C04.22	1	
UT AND FILL SECTIONS	Datum	ZZU1ZZ-UU-DA-CU4.ZZ	4	日担
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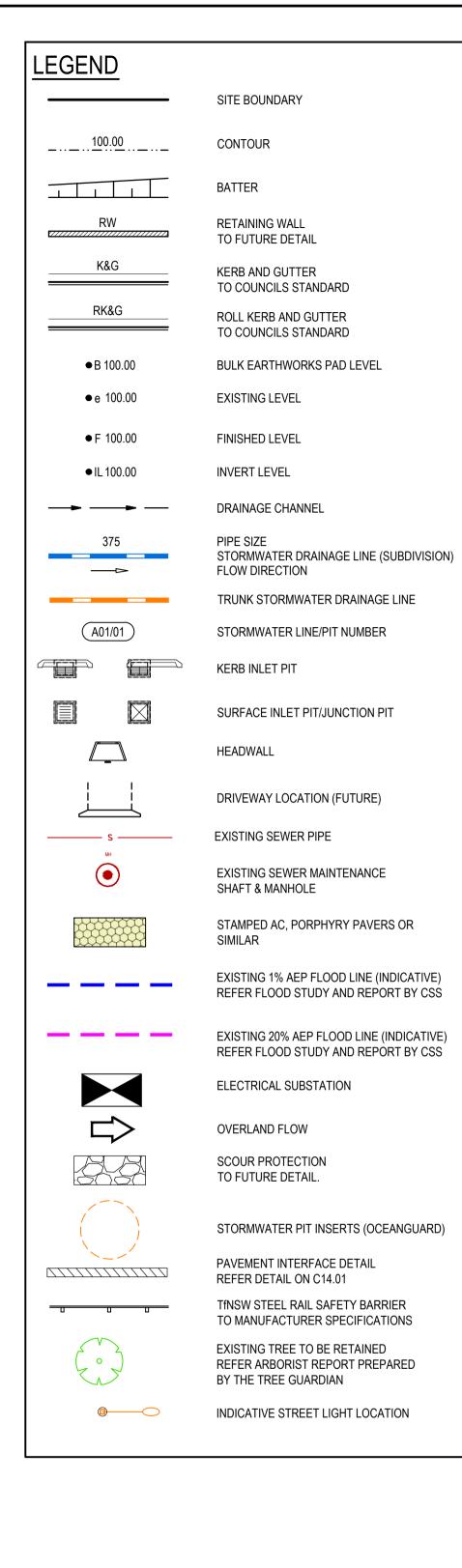
LONGITUDINAL SECTION D
HORIZONTAL SCALE 1:500@A1 VERTICAL SCALE 1:100@A1

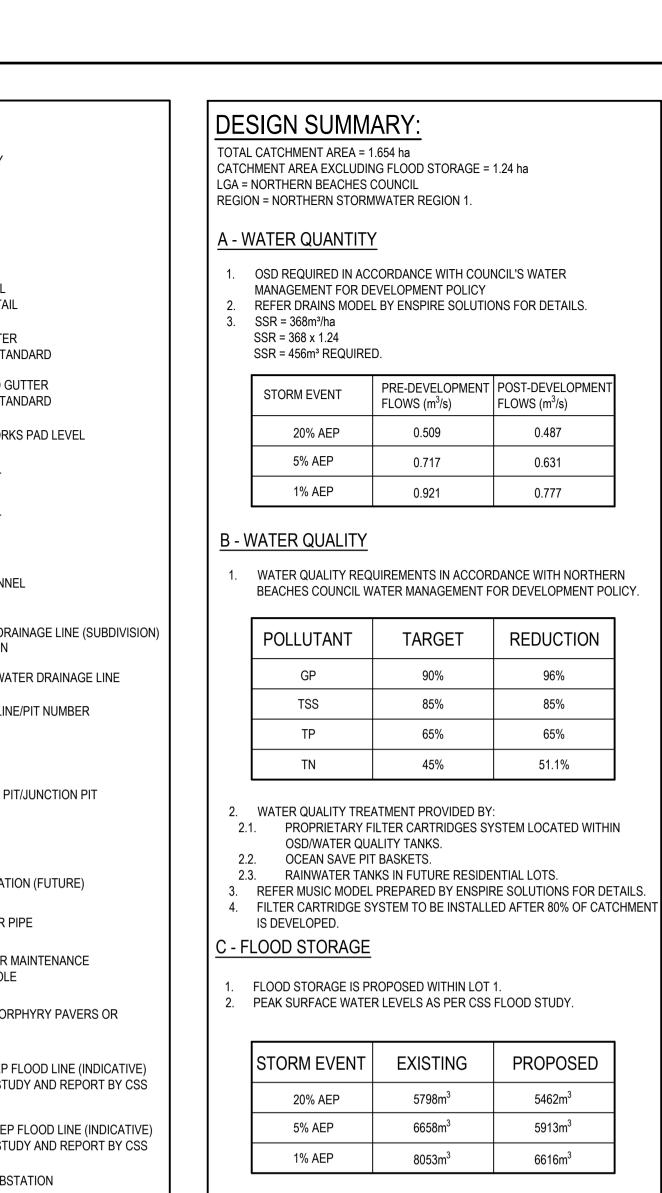
STRIPPED EXISTING SURFACE

DATUM RL -2.0

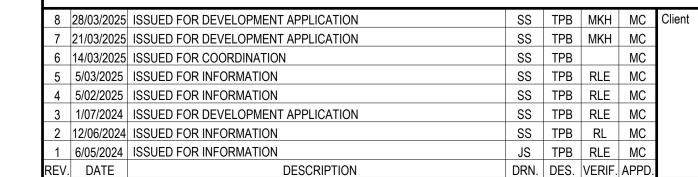
BULK SURFACE

CHAINAGE

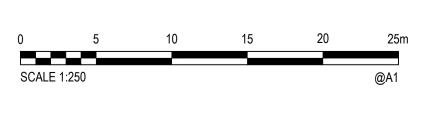




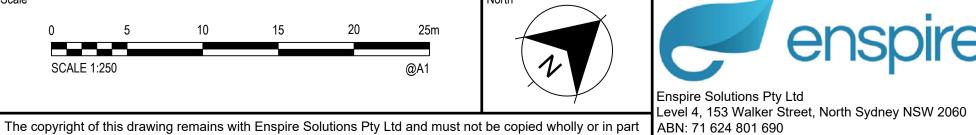
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E WITH COUNCIL'S WATER ENT POLICY PIRE SOLUTIONS FOR DETAILS.				MATCH NEATL		E KERB & GUTTER	2 FUTTURE CONNECTION. 12 CAP AND SEAL. TILE ROOF CAP AND SEAL. RIDGE RL13.59	
			1.95	EXISTING KEI	RB AND SUTTER. Sold Sold Sold Sold Sold Sold Sold Sold	S FPII	POSED 204m³ OSD/WATER QUALITY TANK A. SUBJECT TO FUTURE DETAIL. S90mm/ PSORB STORMFILTER CARTRIDGES GUTT R 11.79	
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90% 96% 85% 85%		RETAIN EXISTING LEVEL.	F 3.10		+			
65% 45% 51.1%		300	F 3.47		375 DD	99.60	ROAD & LBK	
ROVIDED BY: RTRIDGES SYSTEM LOCATED WITHIN KS.		T 6 61389 C		307 5.25	A02-3 A03-1 A03-1	37.5	3.0% K&G	20.02
O.S. SURE RESIDENTIAL LOTS. ED BY ENSPIRE SOLUTIONS FOR DETAILS. BE INSTALLED AFTER 80% OF CATCHMENT		13.01	FUTURE PUBLIC		375	A03-2 / A03-3	9251m ² DEED E C C C C C C C C C	DA-CO
BE INSTALLED AFTER 60 % OF CATOLINENT	EXISTING RETAINING WALL TO BE REMOVED AND TOP OF BANK		RESERVE	F 3.00				220122-00
WITHIN LOT 1. AS PER CSS FLOOD STUDY.	LOWERED, TO NEW LEVELS.		INDICATIVE LOCATION SUBSTATION SUBJECT	OF	375) ; ; ; ; ; ;		DRG:
STING PROPOSED		BATTER 1	CONFIRMATION DURI DETAILED DESIG		A02-2)	· 	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	N REFER
98m ³ 5462m ³ 5913m ³	PROVIDE ROCK ARMOUR TERRACING / SLOPE STABILISATION TO CREEKLINE BANK AS PER WARRIEWOOD VALLEY LANDSCAPE MASTERPLAN	335 CHAIN 370	280 327<92 307 307	3.09 - 23.04	216.6 WIRE	33,	0,30	NUATIO
53m ³ 6616m ³	TO FUTURE DETAIL.	e 3.50 F 3.00 VEGETATED SV		BATTER 31	出		(1) (1) (2) (1) (2) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	R CONTINU
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		(1)2:66	F 2.90	2.50m	4.25m	1.50m	in the second se	?
	LOT 3 DP942319		GRASS GRASS	F 5.05	375	31.80/DAS		
	6 D.P. 1161389		300. —	F 3.00	A02-1 315	\$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	GRA	A55.
	D.P. 1161389		325	(A01-1) (8)		000	NOMINAL 3m WIDE DRAINAGE EASEMENT.	
			\$ 3.50 PVC s	A01-2)	\$2 x 900 \ S		Pt 08H	K&G
	F 2.8019°	CHAIN 380 382	3.92 3.95 WIRE 4.00 SWP 4.00.77 4.2.53 9375 INV.2.76 9375 INV.2.77 4.2.53	3' FENCE \$ 4.26 'A' (A01-3)	GPEOOR O7	N 3.20 8 37	e 5.00 BITUPIEN D'D' OPEN ACCESSWAY KNOWN AS "PHEASANT P	一
DEMOLISH AND REMOVE EXISTING — ROCK RETAINING WALL.	BATTER 1C	## 375 INV2.47 SWP 387 WV.7.09	EXISTING SEWER STACK. MAINTAIN ACCESS AND EXISTING LEVELS.	PROVIDE CONNECTION EXISTING 2.5m WIDE SHA PATH. LOCATE ABOVE APPROXAEP FLOOD LE APPROX LEVEL 2 BALCONY RT.11.66	RED 20%	PPC	CONCRETE KERB OCONCRETE OCONCRETE KERB T T CONCRETE	— <u>E</u> —
LOWER TOP OF BANK LEVELS.	LOT 2	RETAINED. FILL UF	APPROX ROOF I APPROX LEVEL 2 BAL APPROX LEVEL 2 BAL APPROX GROUND FL APPROX LEVEL 2 BAL APPROX GROUND FL APPROX GROUND FL APPROX LEVEL 2 BAL APPROX GROUND FL APPROX GROUND FL APPROX LEVEL 2 BAL APPROX GROUND FL APPROX LEVEL 2 BAL APPROX GROUND FL APPROX GROUND F	CONY RL11.64 CONY RL8.81 .00R RL5.83 APPROX (REVERSE CROS OVERLAND FL	SSFALL FOR — X /		PROPOSED 2 x 900 Ø TRUNK	TO
	DP1214859	372	DP270946	RENDERED BY ILDING MULTI STUREY UNDER CONSTRUCTION EXISTING SEWE	ER MANHOLE RL. 4.34 TO BE ADJUSTED.		NARRABEEN CREEK VIA VEGE SWALE. AIM IS TO REDUCE PMF IMPACT ENSURE NO ADVERSE IMPACT	ETATED CT /
			DISCHARGE OUTLET TO VEGETATE PROPOSED ROCK PROTECTION T PROVIDE ENERGY DISSIPATOR I PIP	O OUTLET. D.P.270946 DEVICE TO RECONSTRUCT EX E OUTLET. BUTTERFLY GRA	KISTING KERB INLET PIT AS TE TO SUIT NEW LAYBACK.	EXIS	FLOODING TO CONFIRM. STING RETAINING WALL TO TO BE REMOVED TO	15.
	334	23.83 3.85	TO FUTUE	RE DETAIL. EXTEND EXIST	TING VEHICULAR CROSSING DUNCIL STANDARD DETAILS.	ALL ENG	OW ROAD CONNECTIONS, REFER STRUCTURAL SINEERS REPORT FOR FURTHER DETAILS.	_
		j ,	/					<u> </u>
	Scale 0 5 10 15	20 25m North	enspire	Project 53A & 53B WARRIEWOOD ROA WARRIEWOOD NSW 2102		Scale Status 1:250 Date	FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTIO	
	SCALE 1:250	@A1 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		CIVIL ENGINEERING WORKS		06/05/2024	NO. 10 DE GOLD I ON GONGINGONO	



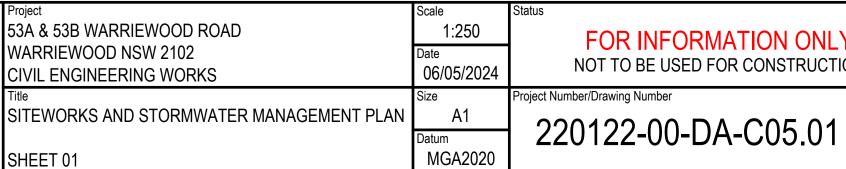




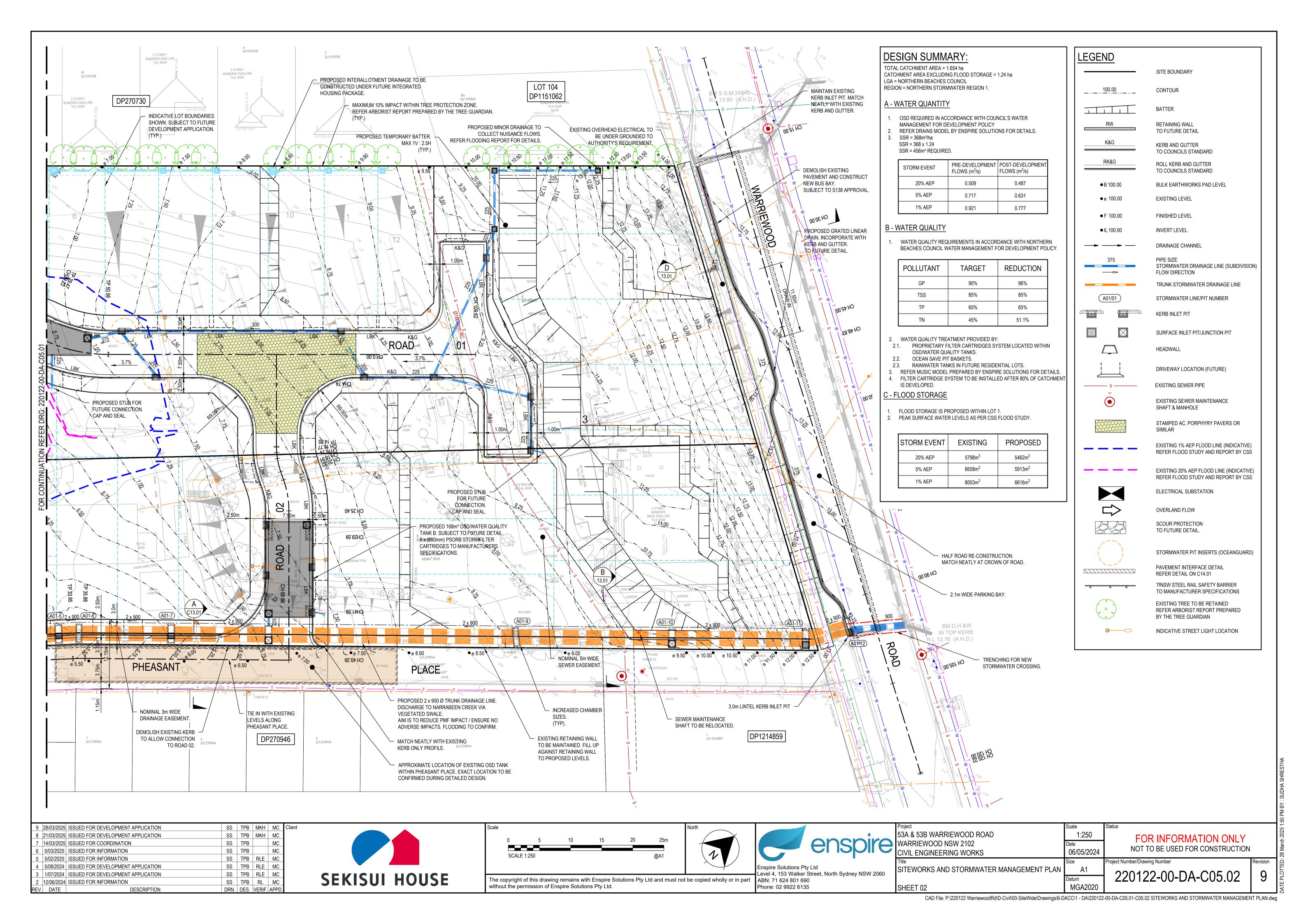
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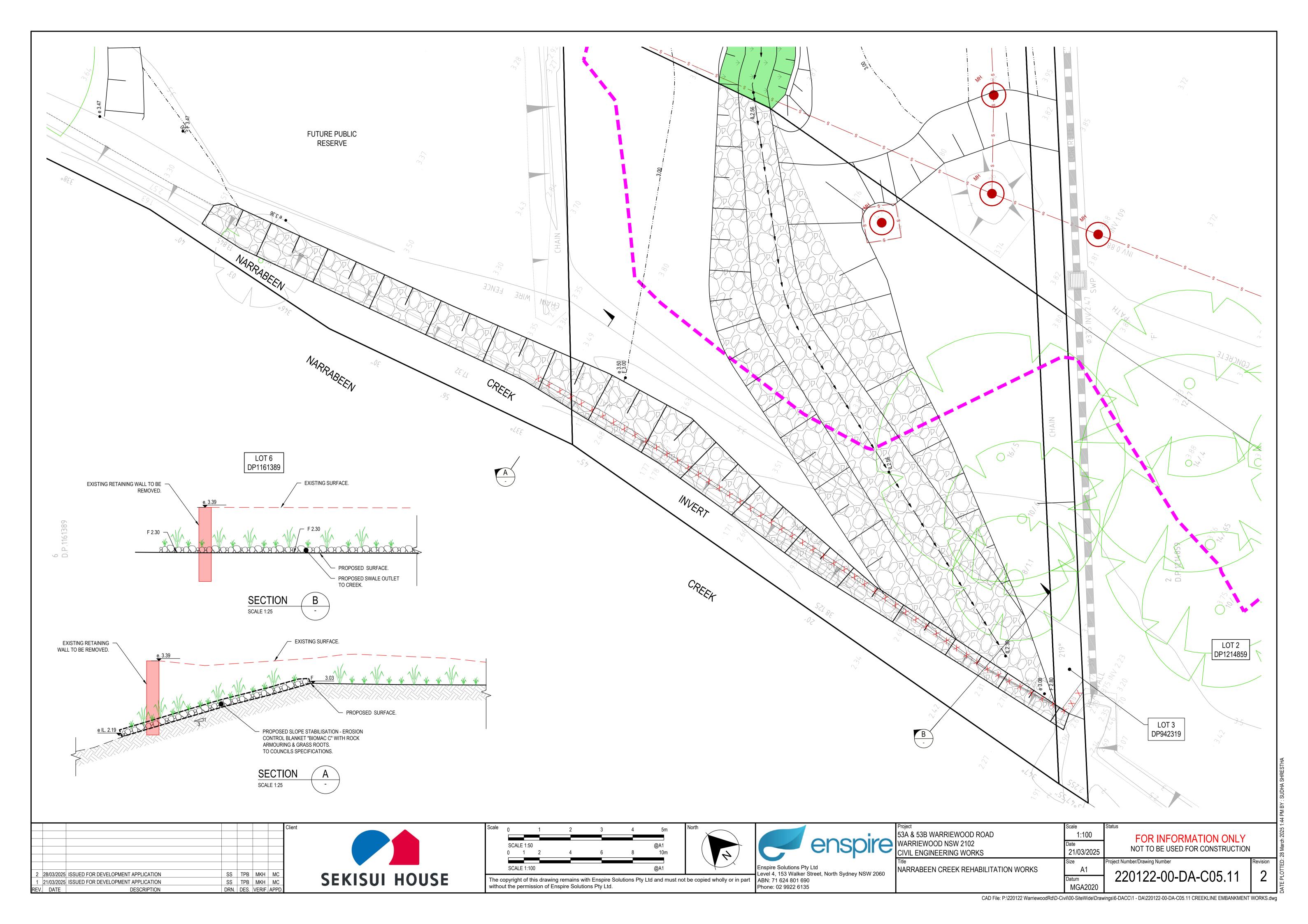


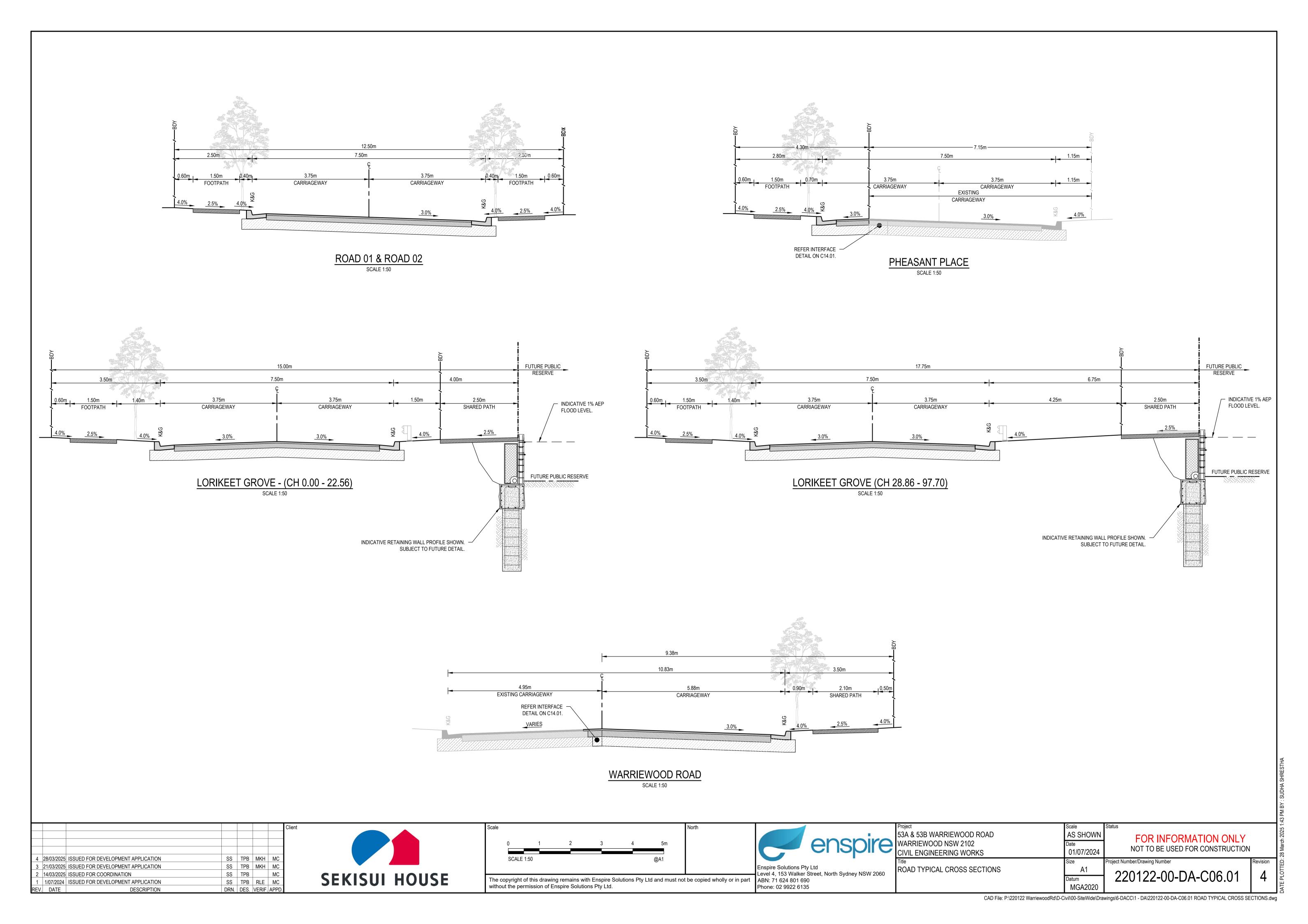
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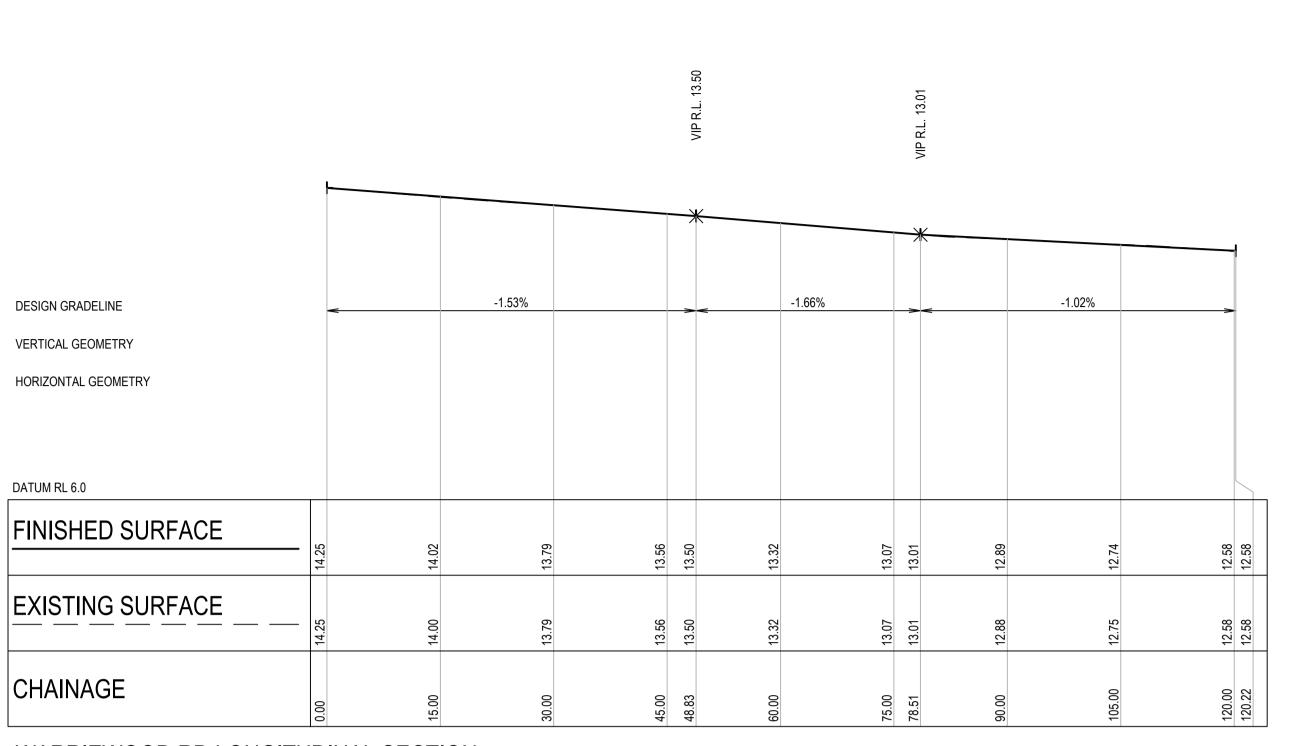


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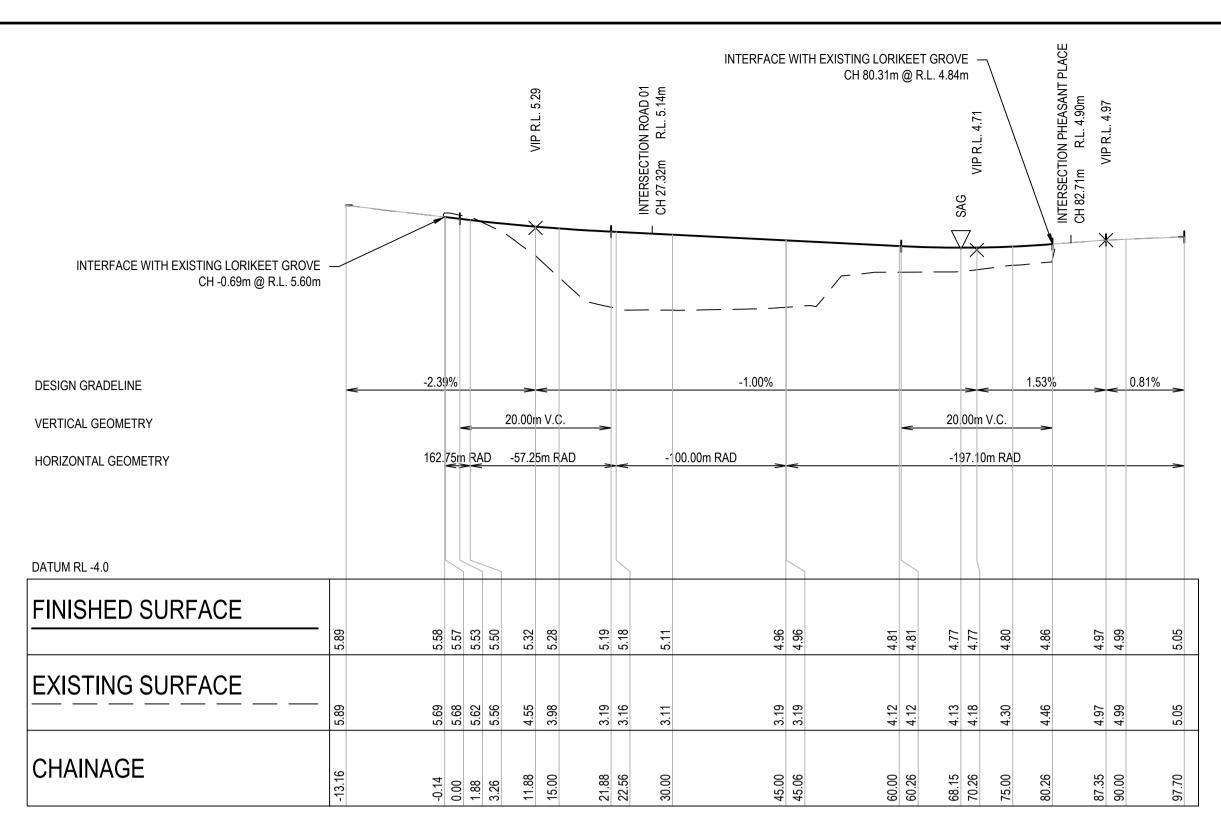






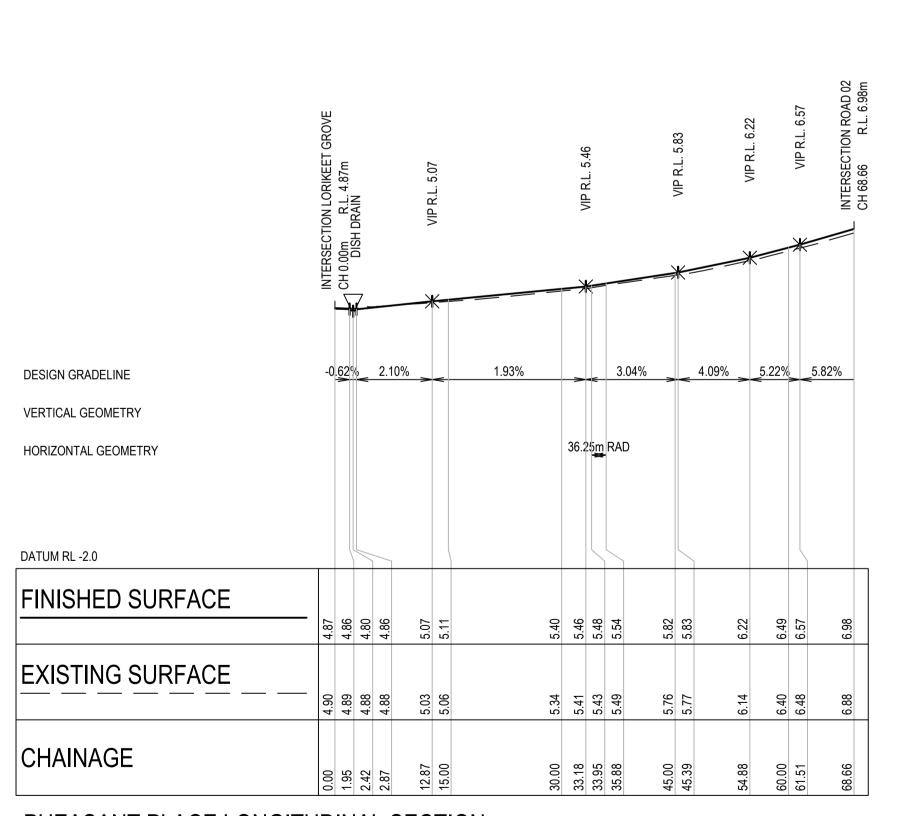
WARRIEWOOD RD LONGITUDINAL SECTION

SCALE 1:100 VERT



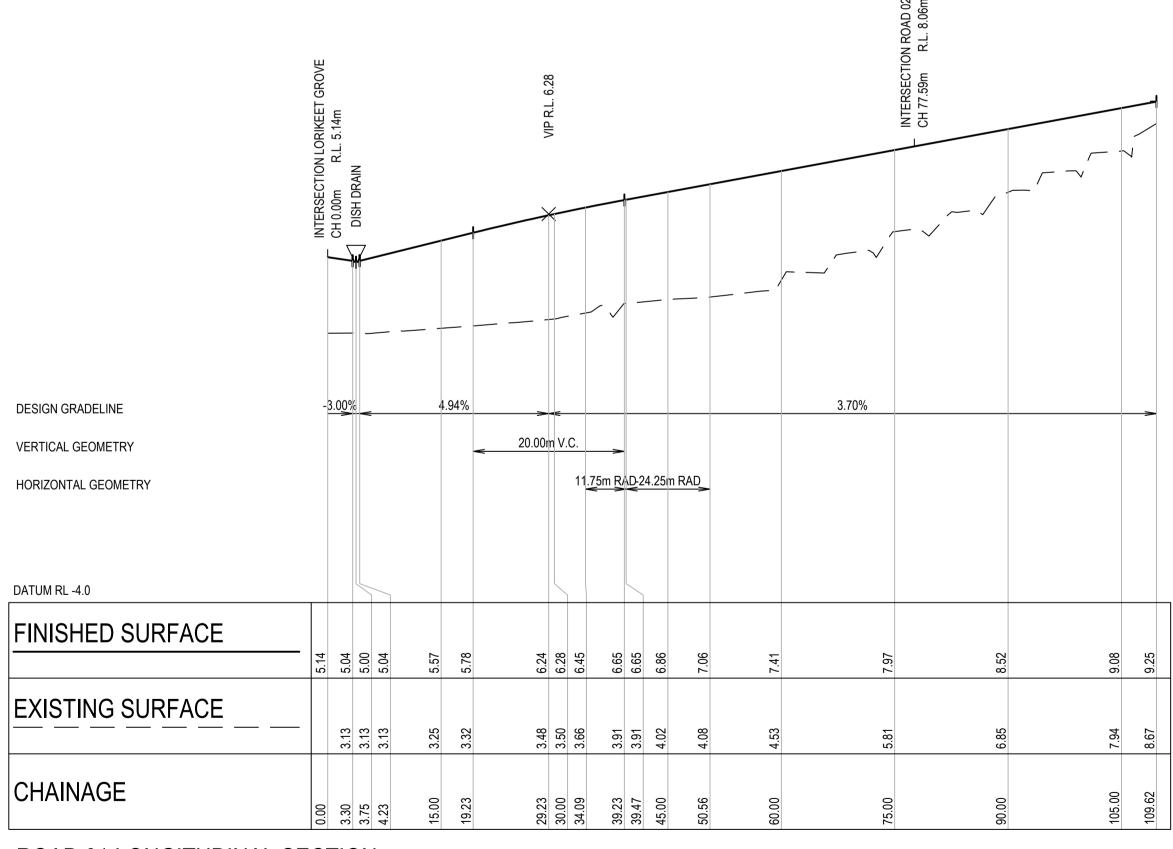
LORIKEET GROVE LONGITUDINAL SECTION

SCALE 1:500 HORI SCALE 1:100 VERT



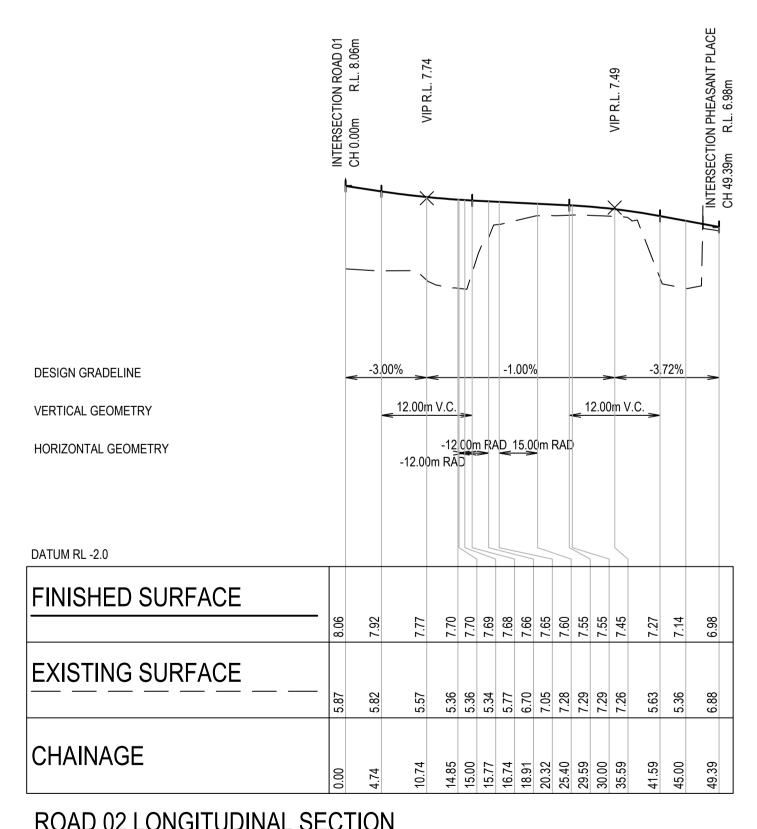
PHEASANT PLACE LONGITUDINAL SECTION

SCALE 1:500 HORI SCALE 1:100 VERT



ROAD 01 LONGITUDINAL SECTION
SCALE 1:500 HORI

SCALE 1:100 VERT



ROAD 02 LONGITUDINAL SECTION
SCALE 1:500 HORI

SCALE 1:100 VERT

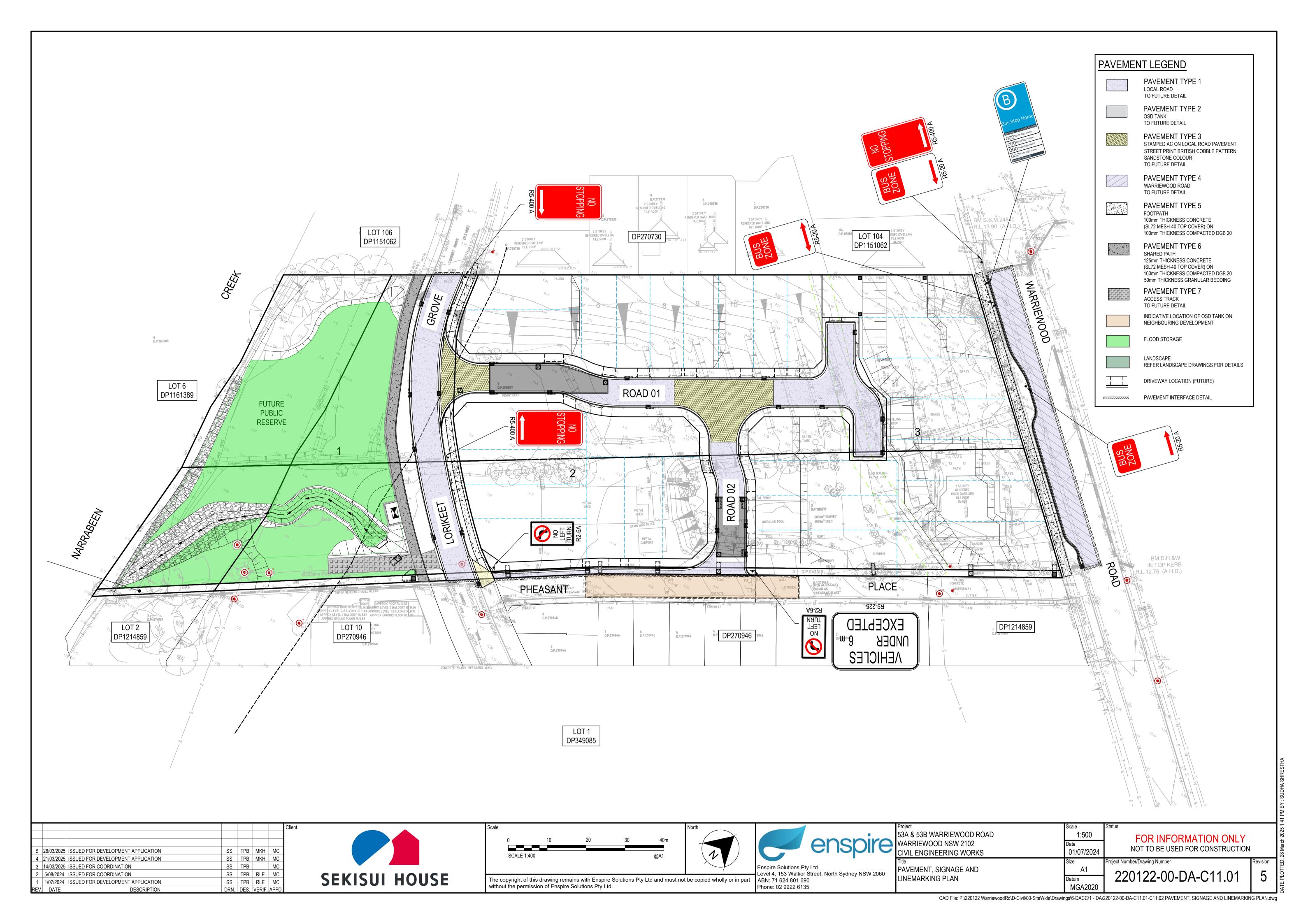
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3	21/03/2025	ISSUED FOR DEVELOPMENT APPLICATION	SS	TPB	MKH	MC	
2	14/03/2025	ISSUED FOR COORDINATION	SS	TPB		MC	
1	1/07/2024	ISSUED FOR DEVELOPMENT APPLICATION	SS	TPB	RLE	MC	
REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.	

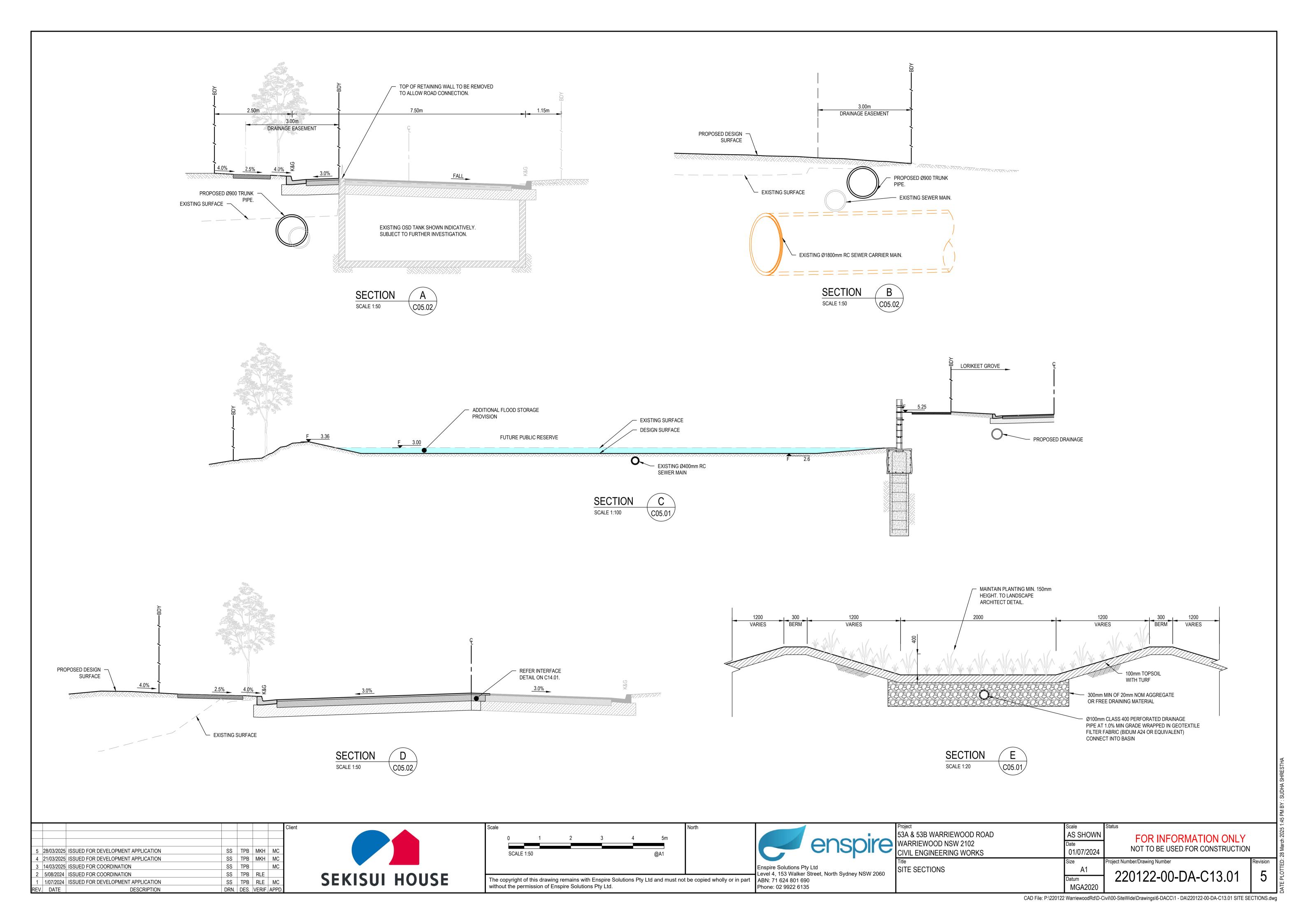


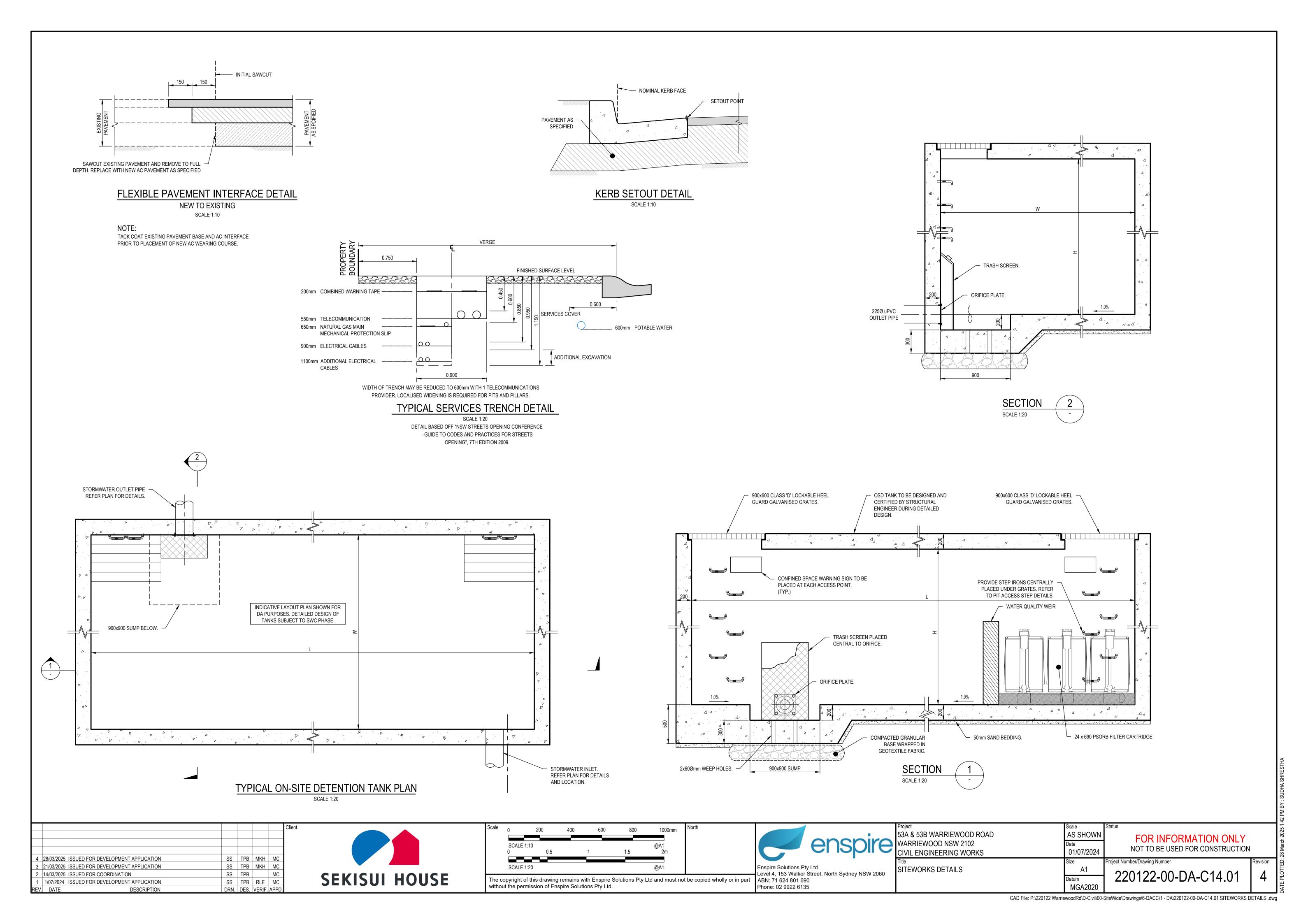
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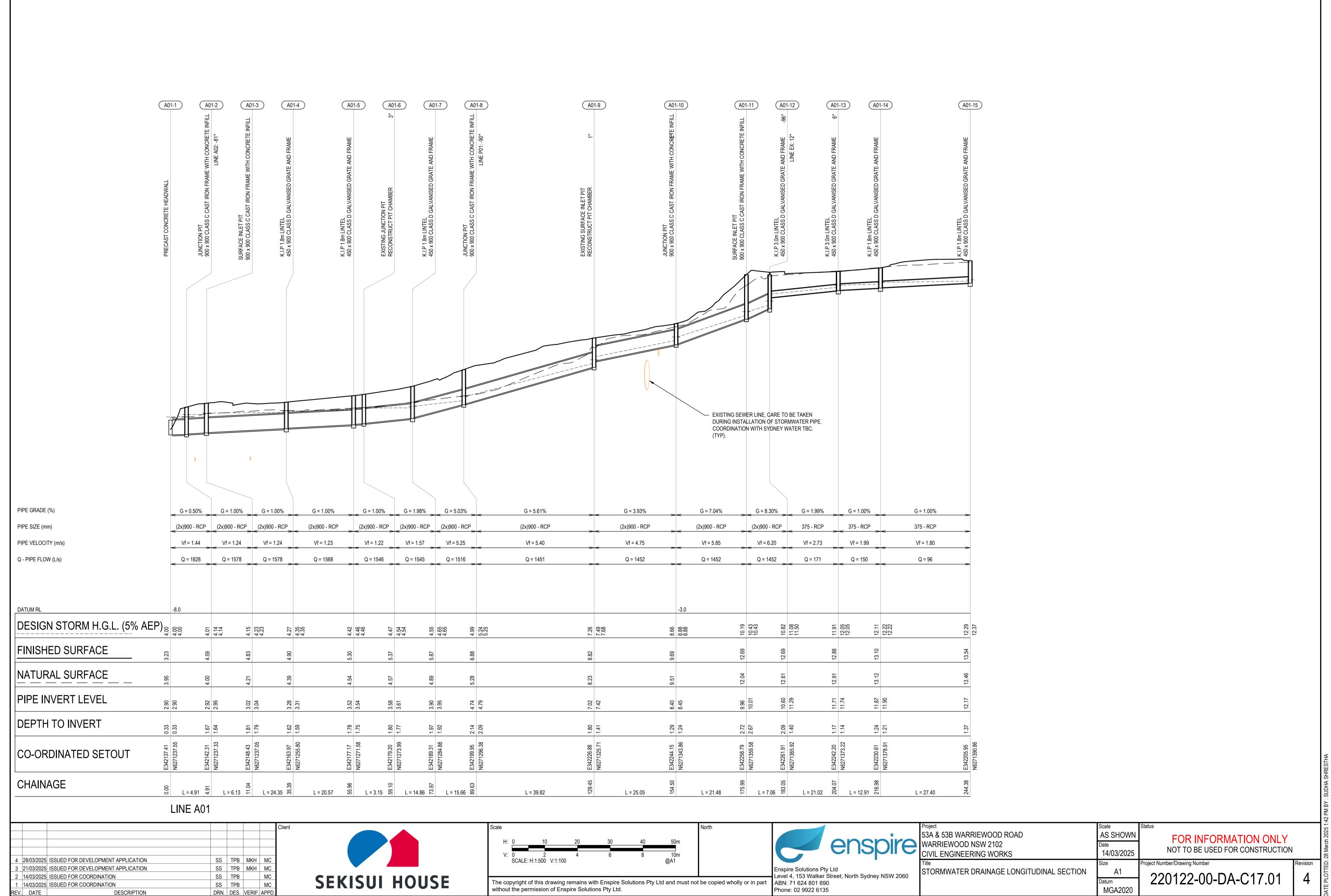
	enspire	P 5
	Enspire Solutions Pty Ltd Level 4, 153 Walker Street, North Sydney NSW 2060	F
in part	ABN: 71 624 801 690 Phone: 02 9922 6135	

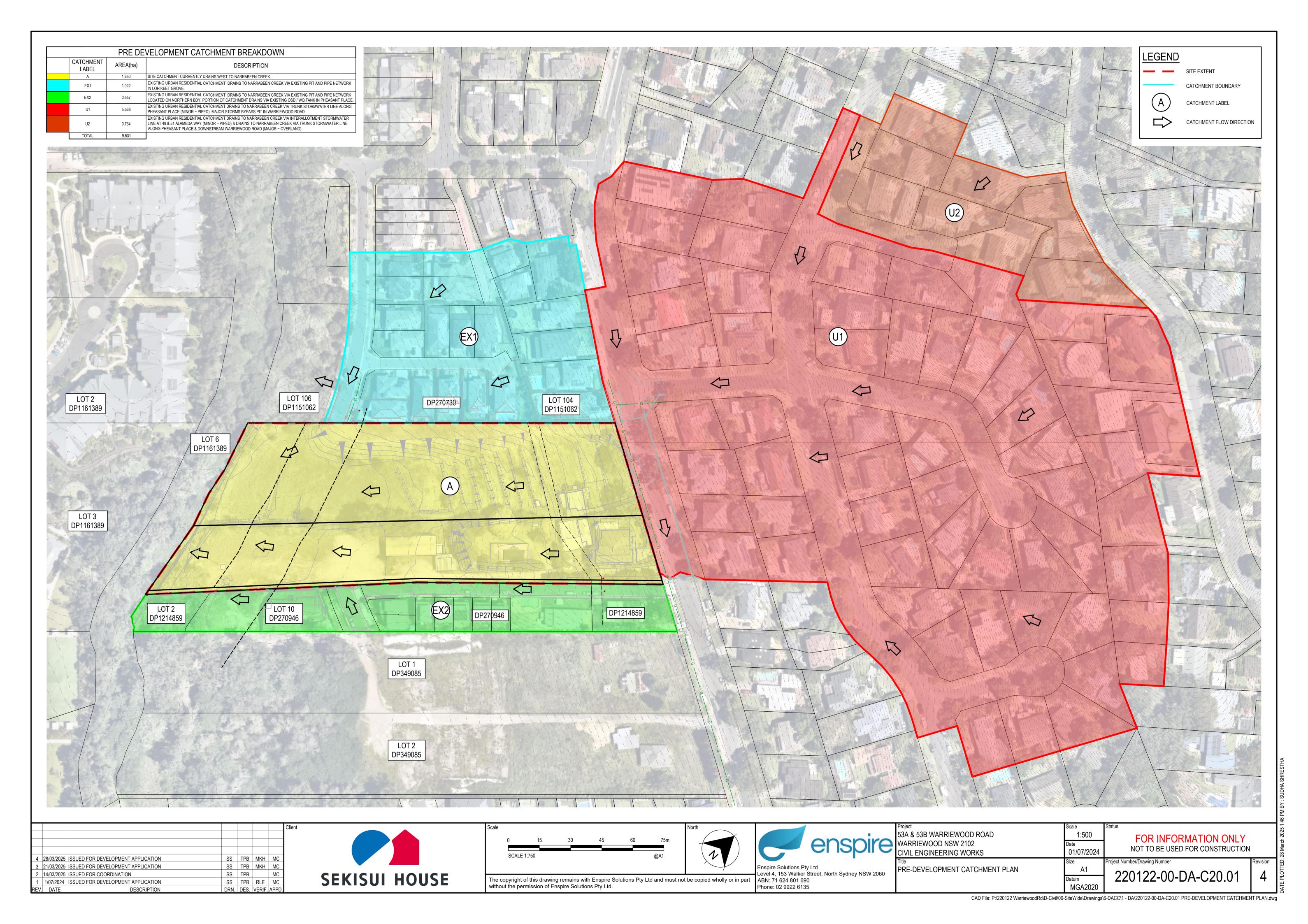
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oject 3A & 53B WARRIEWOOD ROAD	Scale AS SHOWN	FOR INFORMATION ONLY		h 2025 1:
/ARRIEWOOD NSW 2102 IVIL ENGINEERING WORKS	Date 01/07/2024	NOT TO BE USED FOR CONSTRUCTION		28 March
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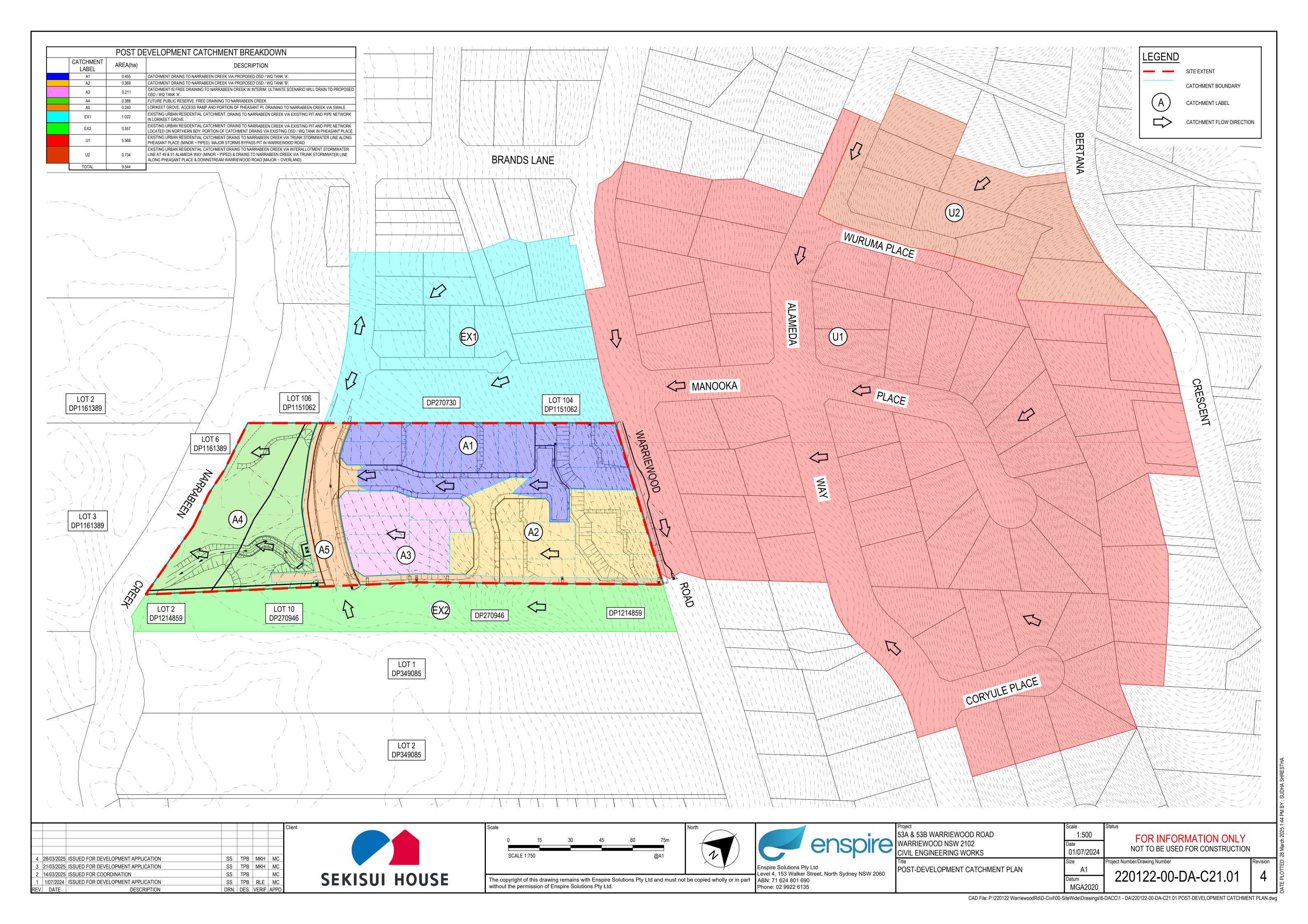


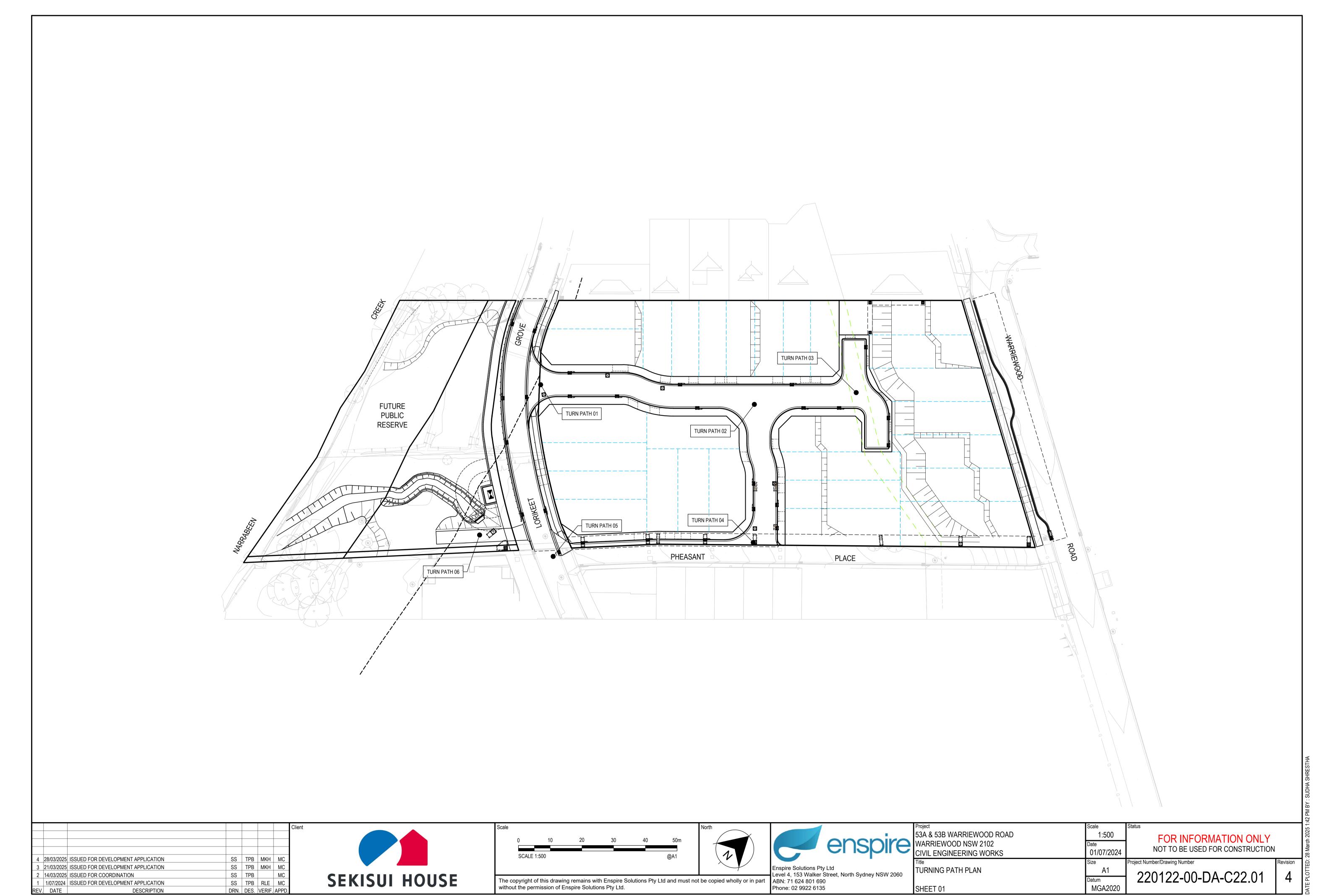


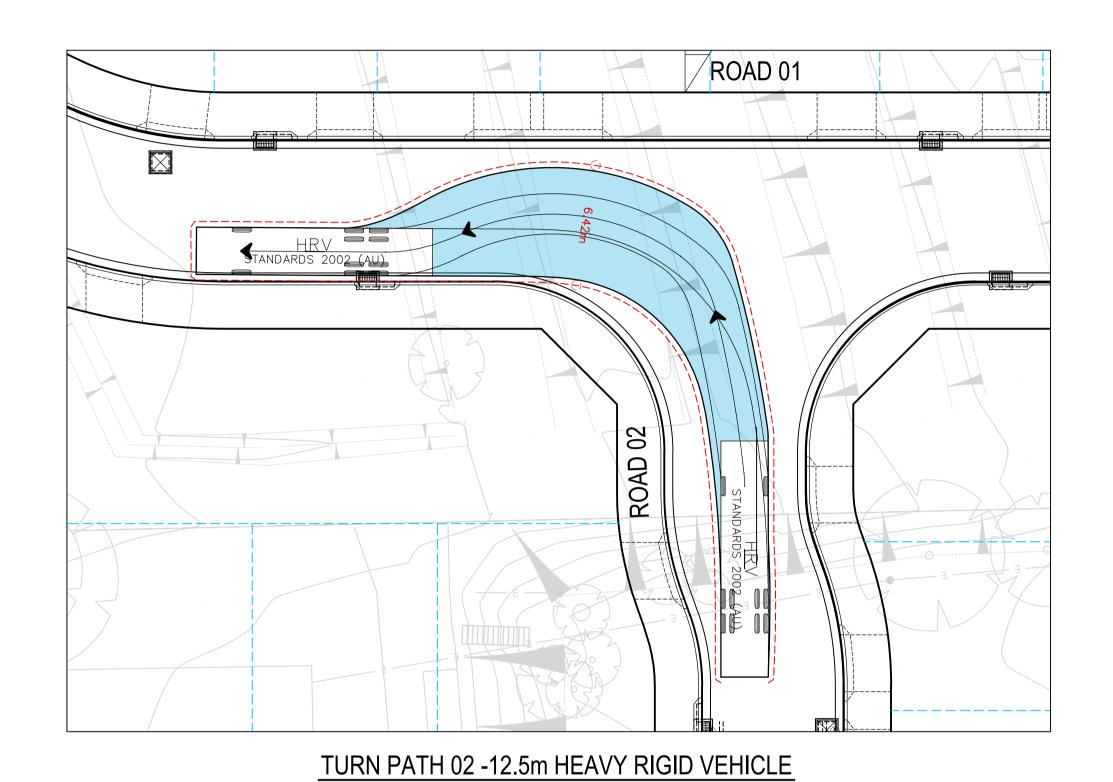


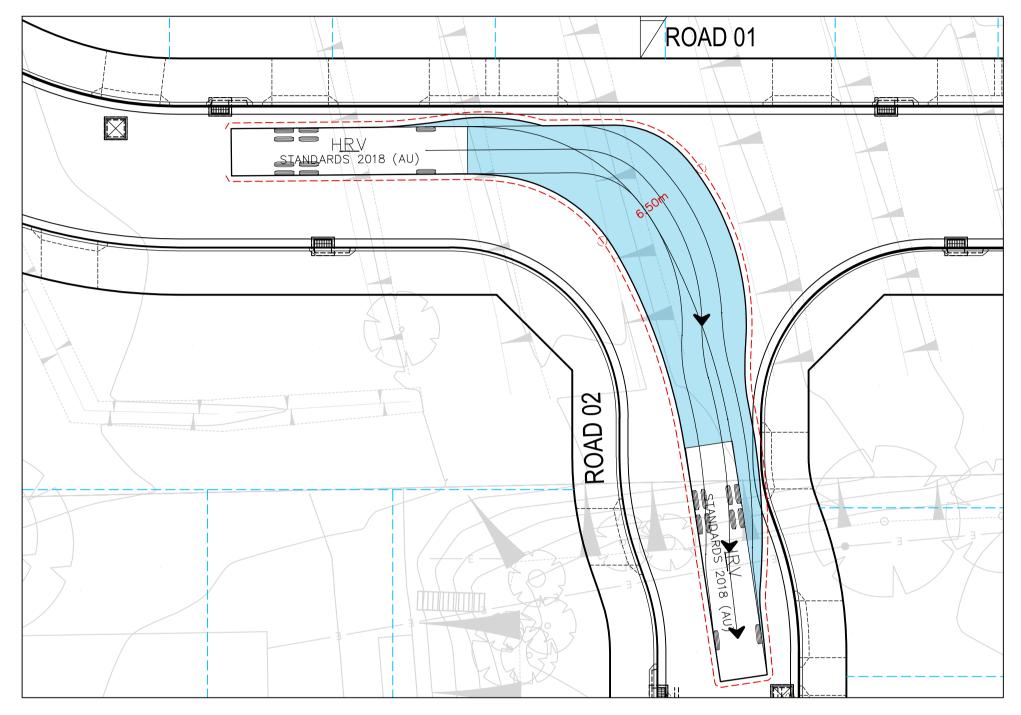




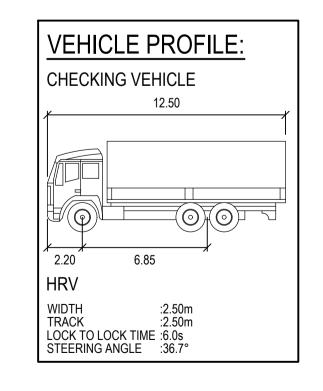


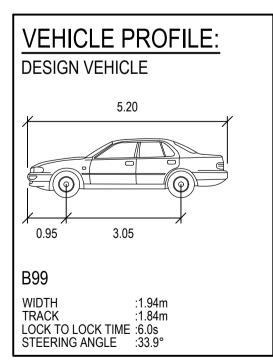






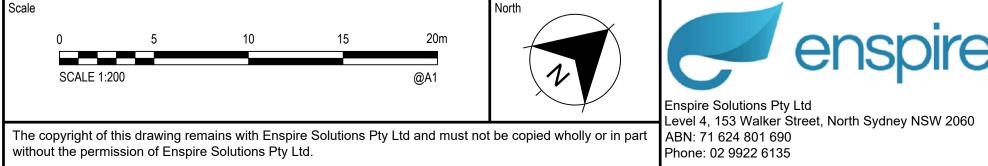
TURN PATH 02 -12.5m HEAVY RIGID VEHICLE SCALE 1:200

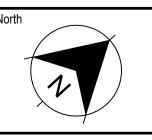




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							1
4	28/03/2025	ISSUED FOR DEVELOPMENT APPLICATION	SS	TPB	MKH	MC	
3	21/03/2025	ISSUED FOR DEVELOPMENT APPLICATION	SS	TPB	MKH	MC	
2	14/03/2025	ISSUED FOR COORDINATION	SS	TPB		MC	
1	1/07/2024	ISSUED FOR DEVELOPMENT APPLICATION	SS	TPB	RLE	MC	
REV	. DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.	

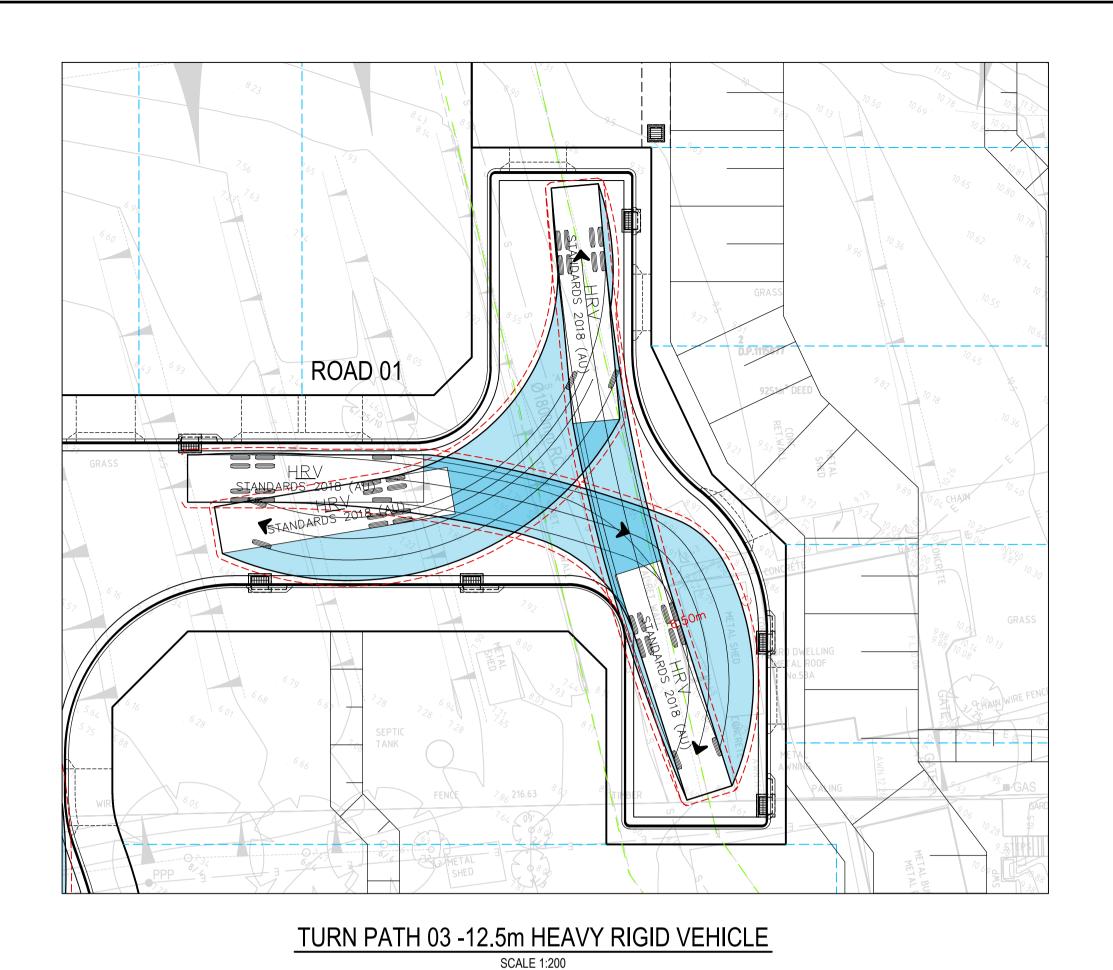


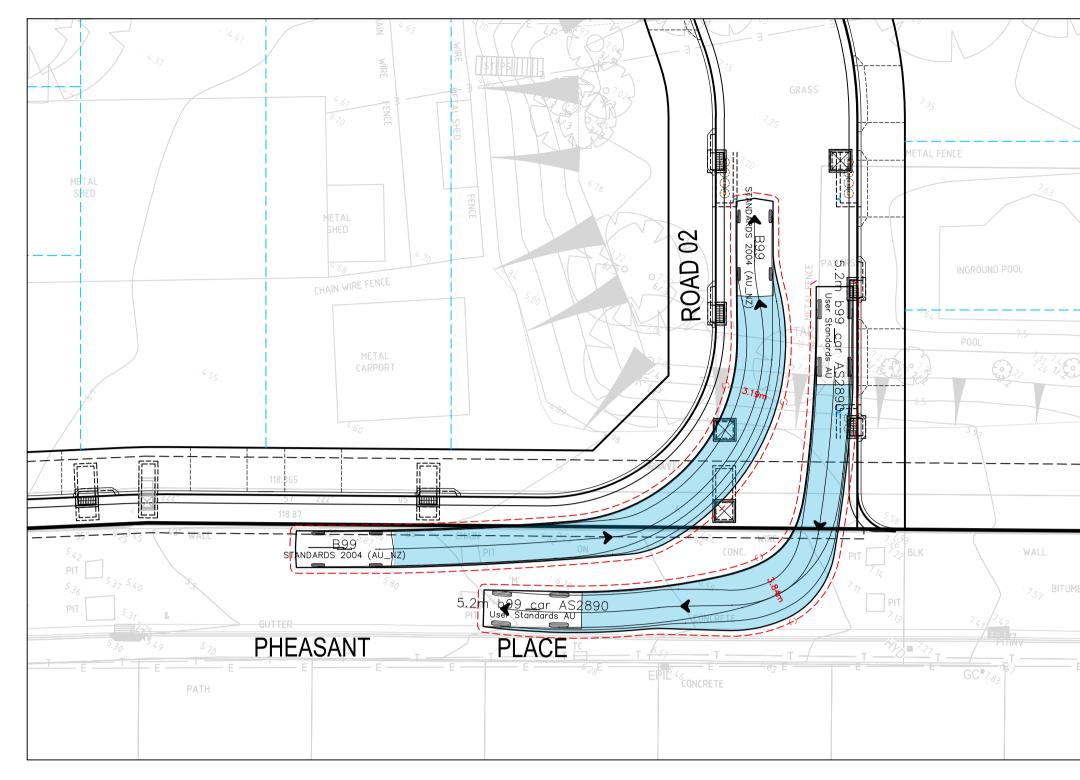




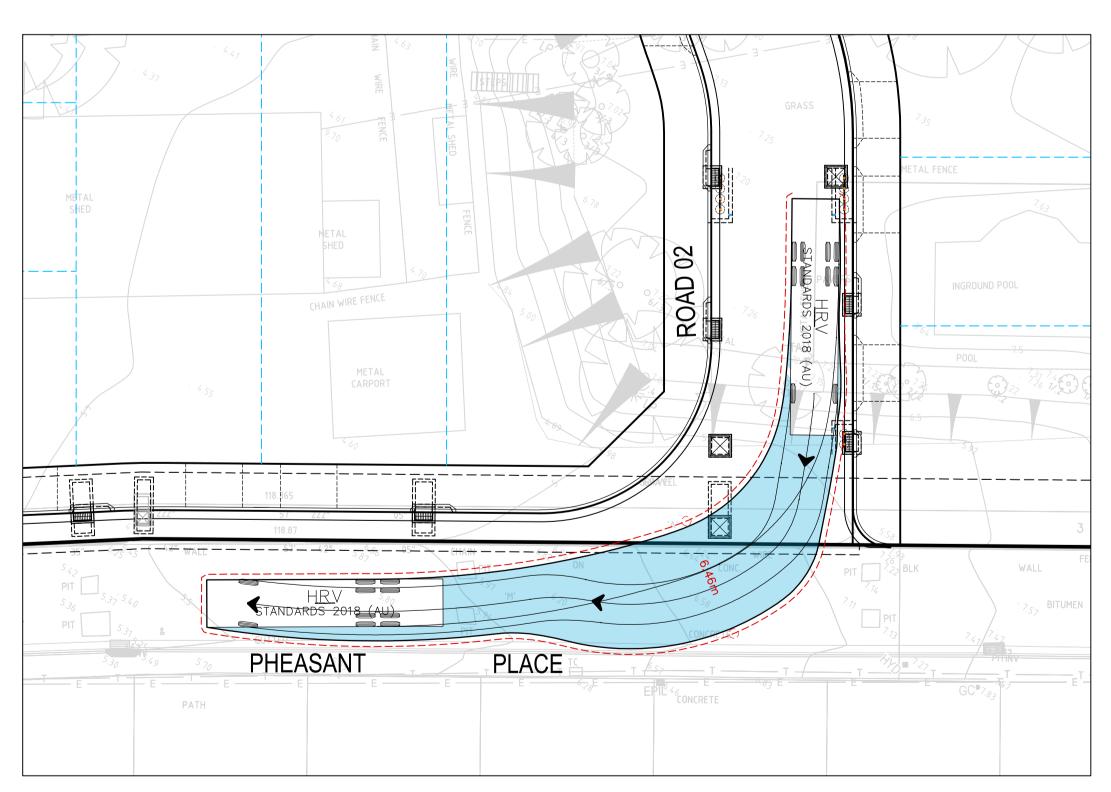


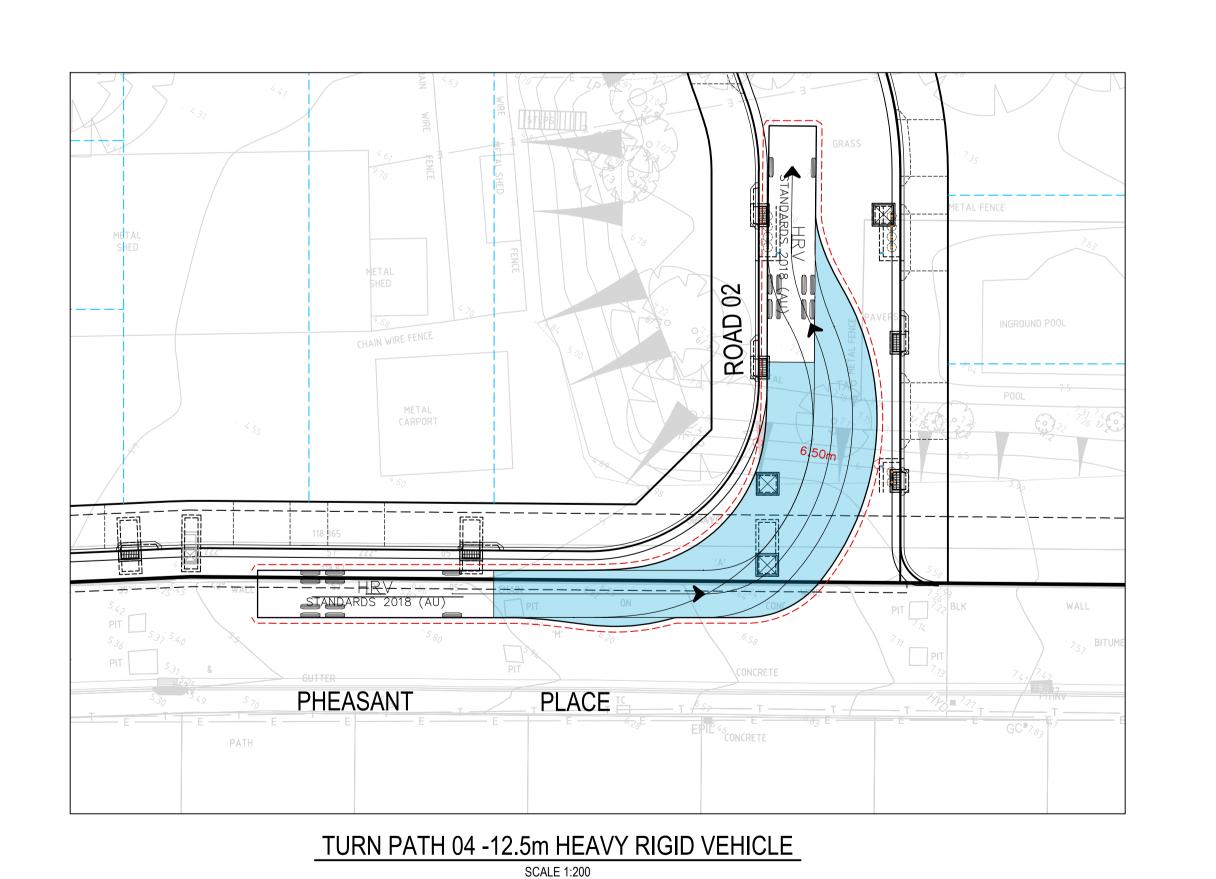
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	53A & 53B WARRIEWOOD ROAD	1:200	FOR INFORMATION ONLY	
١	WARRIEWOOD NSW 2102	Date		
	CIVIL ENGINEERING WORKS	01/07/2024	NOT TO BE USED FOR CONSTRUCTION	
	Title	Size	Project Number/Drawing Number	Revision
	TURNING PATH PLAN	A1	220422 00 DA C22 02	
		Datum	220122-00-DA-C22.02	4
	SHEET 02	MGA2020		



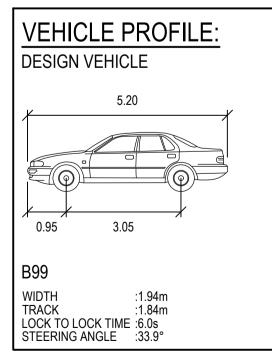


TURN PATH 04 -5.2m B99 CAR SCALE 1:200





VEHICLE PROFILE: CHECKING VEHICLE 12.50 WIDTH :2.50m TRACK :2.50m LOCK TO LOCK TIME :6.0s STEERING ANGLE :36.7°



TURN PATH 04 -12.5m HEAVY RIGID VEHICLE

SCALE 1:200

SS TPB MKH MC

SS TPB MKH MC
SS TPB MC
SS TPB RLE MC

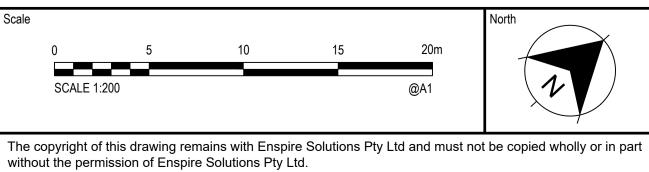
DRN. DES. VERIF. APPD.

EV. DATE

DESCRIPTION

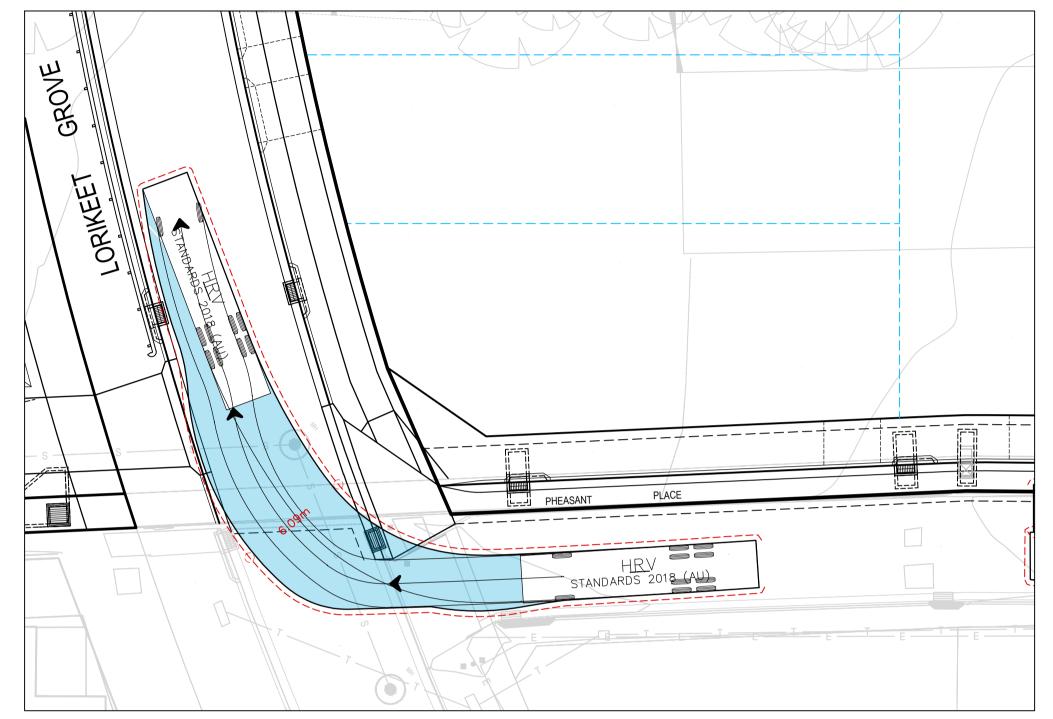
SEKISUI HOUSE



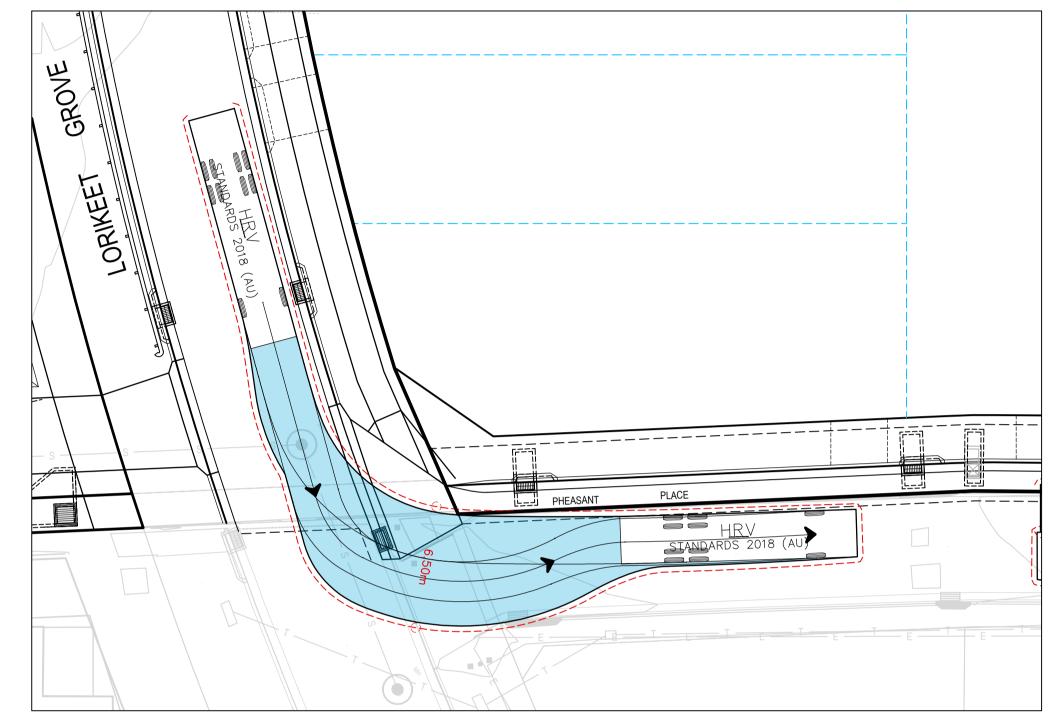


	enspire
rt	Enspire Solutions Pty Ltd Level 4, 153 Walker Street, North Sydney NSW 2060 ABN: 71 624 801 690 Phone: 02 9922 6135

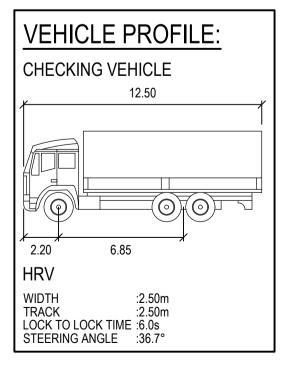
	Project	Scale	Status			
1	53A & 53B WARRIEWOOD ROAD	1:200	FOR INFORMATION ONLY			
	WARRIEWOOD NSW 2102	Date				
	CIVIL ENGINEERING WORKS	01/07/2024	NOT TO BE USED FOR CONSTRUCTION			
	Title	Size	Project Number/Drawing Number	Revision		
	TURNING PATH PLAN	A1	220422 00 DA C22 02	1		
		Datum	220122-00-DA-C22.03	4		
	SHEET 03	MGA2020				



TURN PATH 05 -12.5m HEAVY RIGID VEHICLE SCALE 1:200

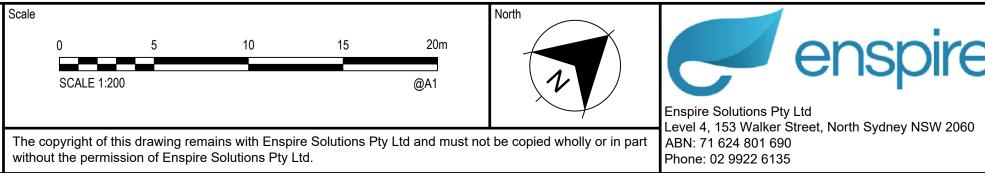


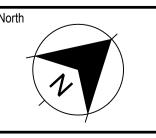
TURN PATH 05 -12.5m HEAVY RIGID VEHICLE SCALE 1:200



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1	1/07/2024	ISSUED FOR DEVELOPMENT APPLICATION	SS	TPB	RLE	MC
REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.









	Project	Scale	Status				
	53A & 53B WARRIEWOOD ROAD	1:200	FOR INFORMATION ONLY				
	WARRIEWOOD NSW 2102	Date					
	CIVIL ENGINEERING WORKS	01/07/2024	NOT TO BE USED FOR CONSTRUCTION				
	Title	Size	Project Number/Drawing Number	Revision			
	TURNING PATH PLAN	A1	220122-00-DA-C22.04	1			
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	SHEET 04	MGA2020					