

CIVIL ENGINEERING - PROPOSED CHILD CARE CENTRE, NEPEAN HOSPITAL REDEVELOPMENT, KINGSWOOD, NSW

DRAWING SCHEDULE

- EXISTING SITE PLAN

29929-C02 - PROPOSED SITE PLAN

PROPOSED PAVEMENT PLAN

29929-C04 - STORMWATER MANAGEMENT PLAN

29929-C05 ROOF DRAINAGE PLAN

29929-C06 - PROPOSED SEWER RETICULATION PLAN 29929-C07 - PROPOSED WATER RETICULATION PLAN

REFERENCE DRAWINGS: FOR ARCHITECTURAL DRAWINGS, REFER TO BARNSON PTY LTD DRAWINGS 29929-AC1-AC10 FOR SURVEY DRAWINGS REFER TO CARDNO PTY LTD, REFERENCE 118117502 PAGES 1-55.



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HEALTH INFRASTRUCTURE PROPOSED CHILD CARE CENTRE NEPEAN HOSPITAL REDEVELOPMENT

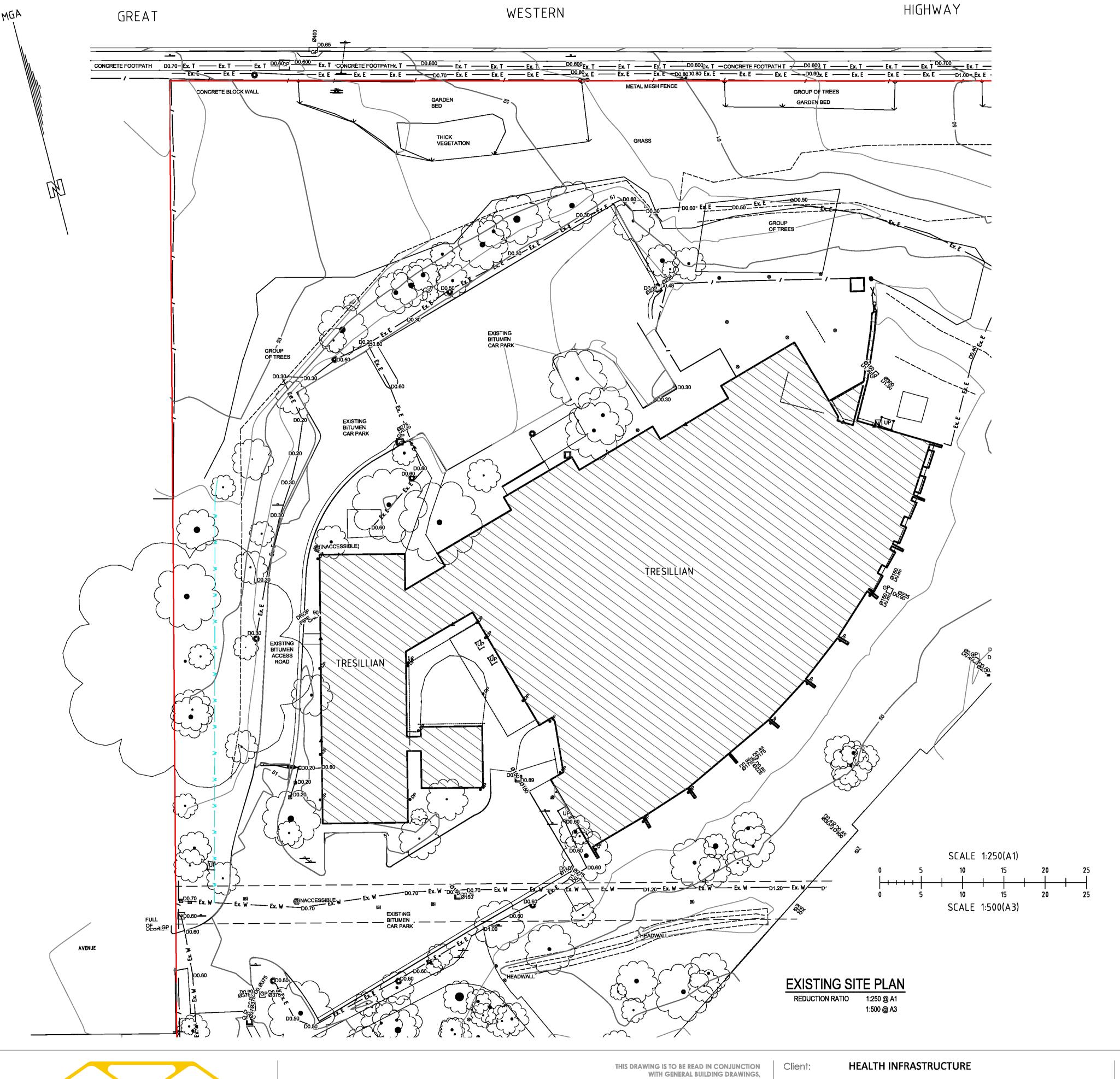
KINGSWOOD, NSW Drawing Title: COVER SHEET

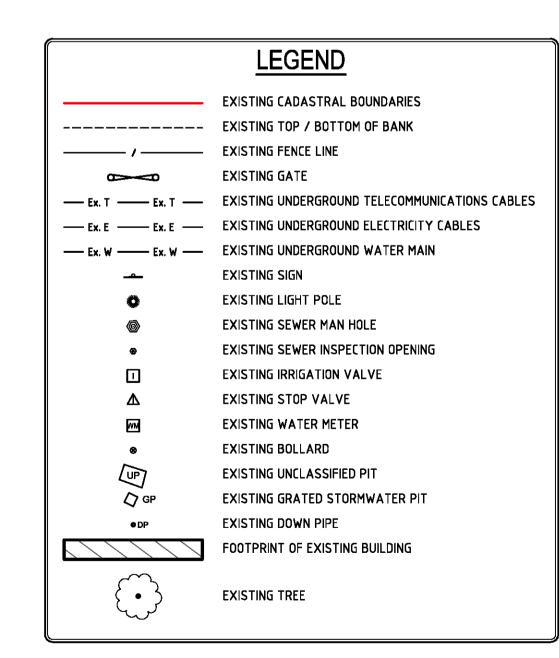
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Drawn LT

Drawing Number 29929_C00

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Project: HEALTH INFRASTRUCTURE
Project: PROPOSED CHILD CARE CENTRE
NEPEAN HOSPITAL REDEVELOPMENT

KINGSWOOD, NSW

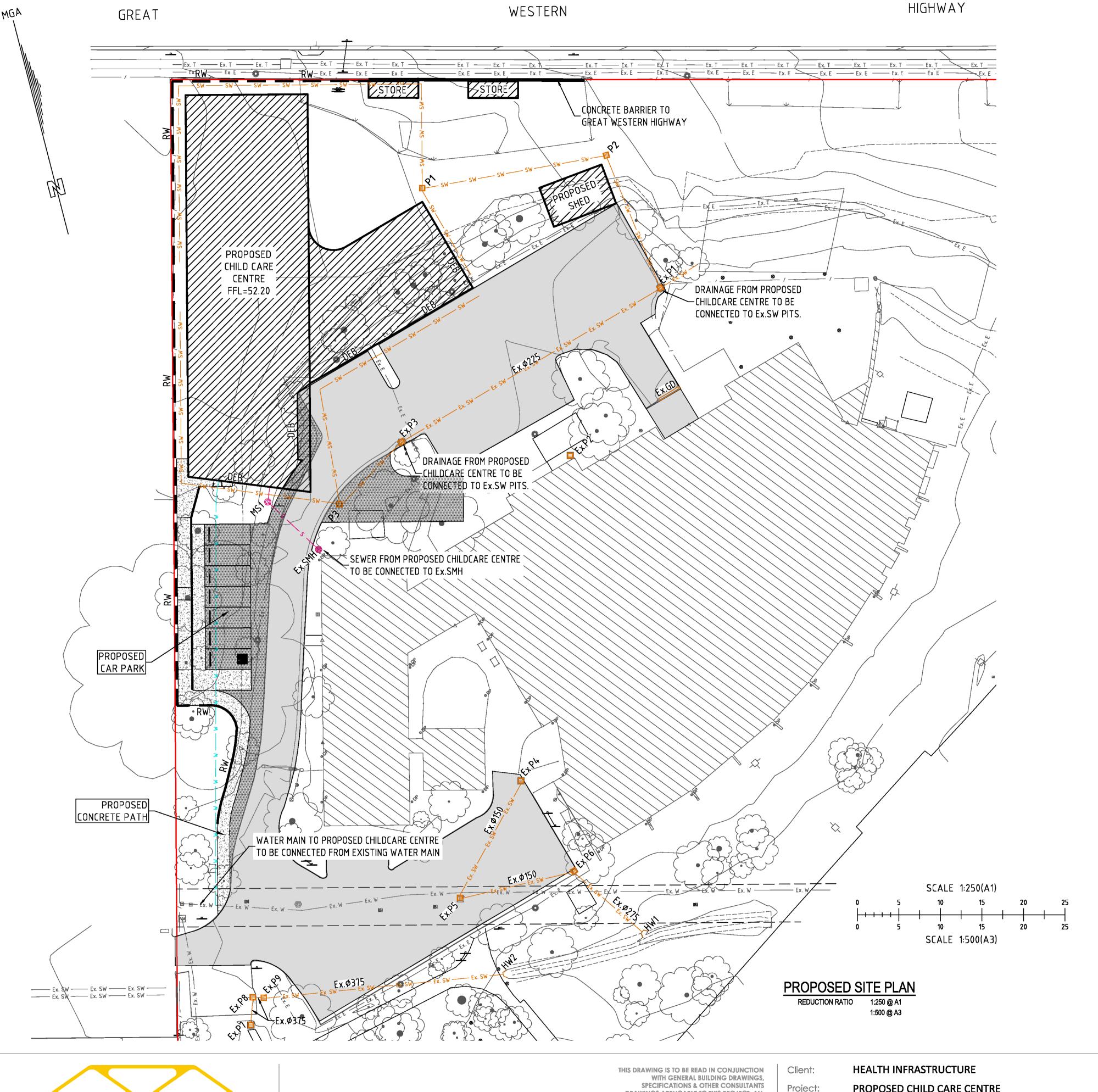
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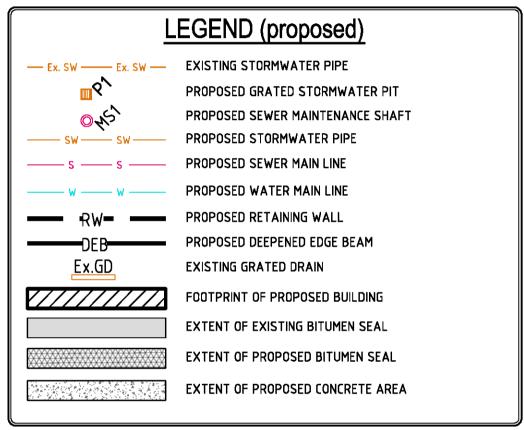
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Original Sheet Size = A1 29929_C01





LEGEND (existing) EXISTING CADASTRAL BOUNDARIES EXISTING TOP / BOTTOM OF BANK EXISTING FENCE LINE EXISTING GATE EXISTING UNDERGROUND TELECOMMUNICATIONS CABLES EXISTING UNDERGROUND ELECTRICITY CABLES EXISTING UNDERGROUND WATER MAIN EXISTING SIGN EXISTING LIGHT POLE EXISTING SEWER MAN HOLE EXISTING SEWER INSPECTION OPENING EXISTING IRRIGATION VALVE EXISTING STOP VALVE EXISTING WATER METER EXISTING BOLLARD EXISTING UNCLASSIFIED PIT EXISTING GRATED STORMWATER PIT EXISTING DOWN PIPE FOOTPRINT OF EXISTING BUILDING EXISTING TREE

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PROPOSED CHILD CARE CENTRE NEPEAN HOSPITAL REDEVELOPMENT

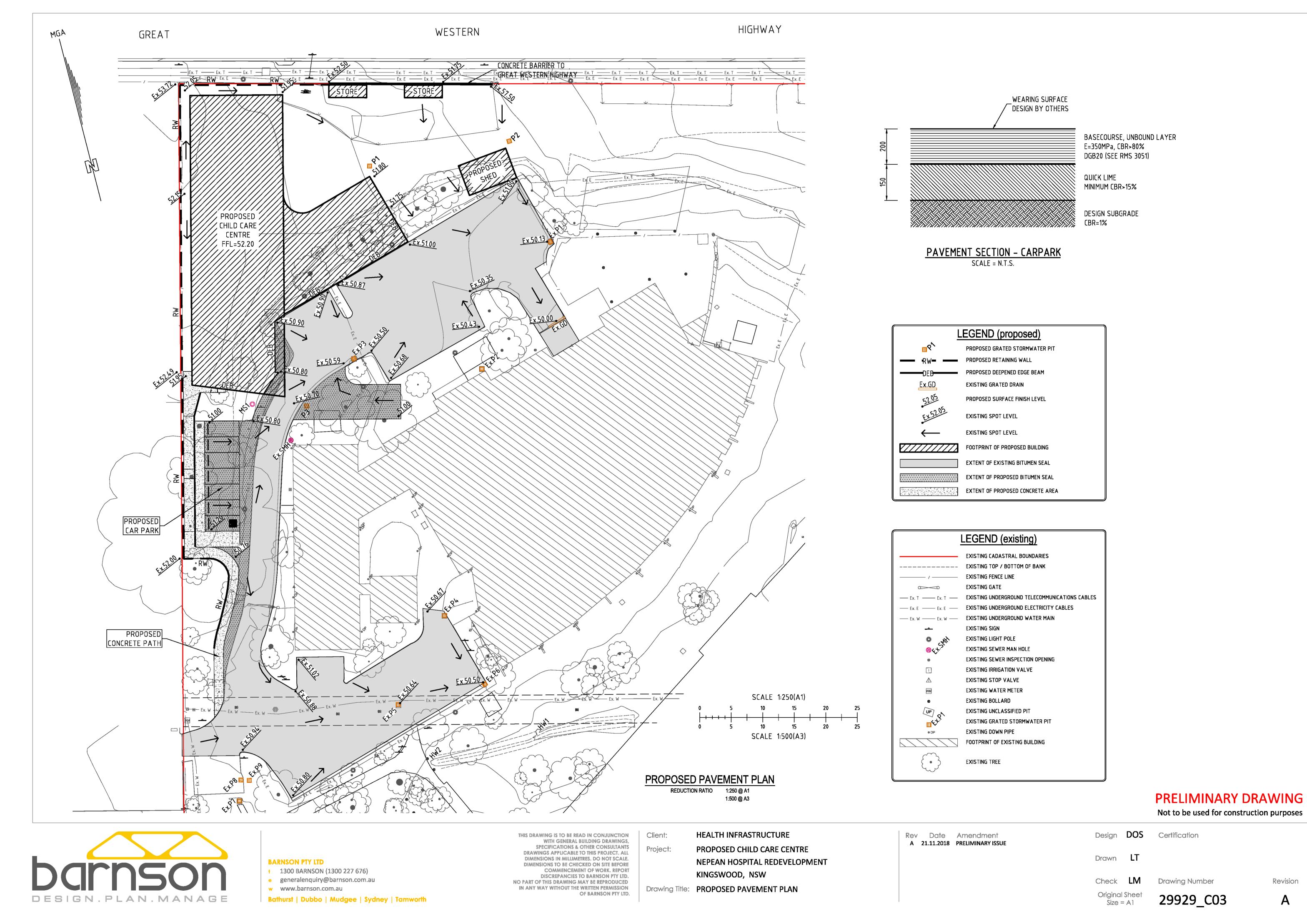
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Drawing Title: PROPOSED SITE PLAN

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A 21.11.2018 PRELIMINARY ISSUE

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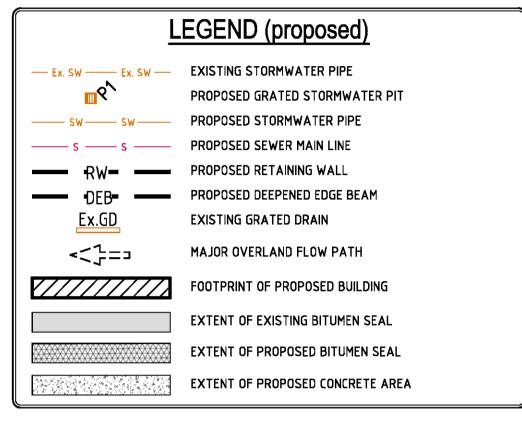


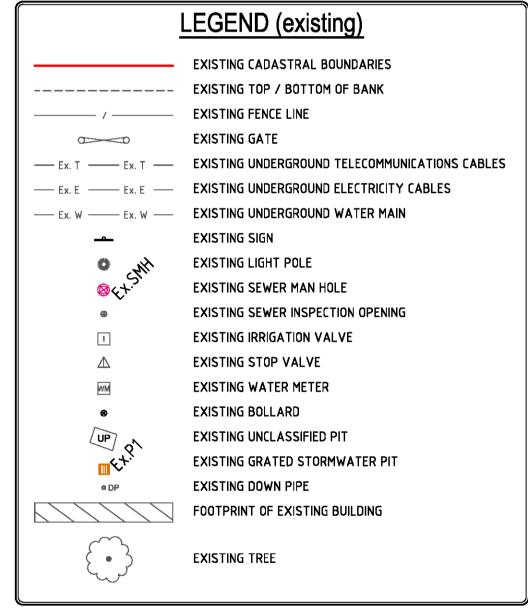
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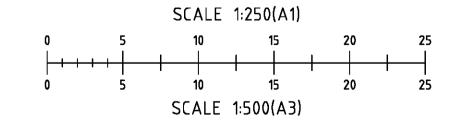
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ALL STORMWATER & SEWER PIPES AND PLUMBING SHALL BE FITTED WITH SLEEVED UNIVERSAL FLEXIBLE COUPLINGS WHERE THEY PASS UNDER FOOTINGS, THROUGH FOOTINGS, THROUGH SLABS AND INTO GROUND. FITTINGS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS3500-2015.

DESIGN NOTE: ARI = 1 in 20 YEAR STORM 5 MIN. INTERVAL RAINFALL INTENSITY = 180mm/hr ARI = 1 in 100 YEAR STORM 5 MIN. INTERVAL RAINFALL INTENSITY =243mm/hr







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HEALTH INFRASTRUCTURE Client: Project: PROPOSED CHILD CARE CENTRE

NEPEAN HOSPITAL REDEVELOPMENT KINGSWOOD, NSW

Drawing Title: PROPOSED STORMWATER MANAGEMENT PLAN

Rev Date Amendment A 21.11.2018 PRELIMINARY ISSUE

-TOTAL APPLICABLE CATCHMENT AREA (A) = $1,330 \text{ m}^2$

-RAINFALL INTENSITY (I_{100}) = 243 mm/hr (5min 100 ARI)

-Ci = RUNOFF COEFFICIENT FOR UNROOFED IMPERVIOUS AREA = 0.9

-TOTAL FLOW QPRE = (Cr Ar + Ci Ai + Cp Ap). 400 / 3600 = 26.93 l/s

-Ci = RUNOFF COEFFICIENT FOR UNROOFED IMPERVIOUS AREA = 0.9

-TOTAL FLOW QPOST = (Cr Ar + Ci Ai + Cp Ap). 100 / 3600) = 87.51 l/s

-Cr = RUNOFF COEFFICIENT FOR ROOF AREA = 1.0

-Ai = TOTAL UNROOFED IMPERVIOUS AREA = 0 m²

-Ap = TOTAL PERVIOUS GRASS AREA = 1,330 m²

-Cp = RUNOFF COEFFICIENT FOR PERVIOUS AREA = 0.3

-TOTAL APPLICABLE CATCHMENT AREA (A) = 1,330 m² -RAINFALL INTENSITY (l_{100}) = 243 mm/hr (5min 100 ARI)

-Cr = RUNOFF COEFFICIENT FOR ROOF AREA = 1.0

-Ai = TOTAL UNROOFED IMPERVIOUS AREA= 335 m² -Cp = RUNOFF COEFFICIENT FOR PERVIOUS AREA = 0.3

-Ap = TOTAL PERVIOUS GRASS AREA = 0 m²

-Ar = TOTAL ROOF AREA = 995 m²

-Ar = TOTAL ROOF AREA= 0 m²

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29929_C04



ALL STORMWATER & SEWER PIPES AND PLUMBING SHALL BE FITTED WITH SLEEVED UNIVERSAL FLEXIBLE COUPLINGS WHERE THEY PASS UNDER FOOTINGS, THROUGH FOOTINGS, THROUGH SLABS AND INTO GROUND. FITTINGS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS3500-2015.

DESIGN NOTE: ARI = 1 in 20 YEAR STORM 5 MIN. INTERVAL RAINFALL INTENSITY =180mm/hr ARI = 1 in 100 YEAR STORM 5 MIN. INTERVAL RAINFALL INTENSITY =243mm/hr

LEGEND (proposed) — Ex. SW — EX. SW — EXISTING STORMWATER PIPE **™**8/ PROPOSED GRATED STORMWATER PIT, SEE 29929_C06 PROPOSED STORMWATER PIPE, SEE 29929_C06 — PROPOSED SEWER MAIN LINE PROPOSED RETAINING WALL, SEE 29929 C04 PROPOSED DEEPENED EDGE BEAM EXISTING GRATED DRAIN Ex.GD <<1=== MAJOR OVERLAND FLOW PATH FOOTPRINT OF PROPOSED BUILDING EXTENT OF EXISTING BITUMEN SEAL EXTENT OF PROPOSED BITUMEN SEAL, SEE 29929_C04 EXTENT OF PROPOSED CONCRETE AREA, SEE 29929_C04

> LEGEND (existing) EXISTING CADASTRAL BOUNDARIES

HYDRAULIC CALCULATIONS ROOF

PRE & POST DEVELOPMENT ANALYSIS
DESIGN CALCULATIONS AS PER AS3500.3-2015 A) PRE-DEVELOPED:

-TOTAL APPLICABLE CATCHMENT AREA (A) = 995 m² -RAINFALL INTENSITY (I₁₀₀) = 243 mm/hr (5min 100 ARI)

-Cr = RUNOFF COEFFICIENT FOR ROOF AREA = 1.0 -Ar = TOTAL ROOF AREA= 0 m²

-Ci = RUNOFF COEFFICIENT FOR UNROOFED IMPERVIOUS AREA = 0.9 -Ai = TOTAL UNROOFED IMPERVIOUS AREA = 0 m²

-Cp = RUNOFF COEFFICIENT FOR PERVIOUS AREA = 0.35

-Ap = TOTAL PERVIOUS GRASS AREA = 995 m^2 -TOTAL FLOW QPRE = (Cr Ar + Ci Ai + Cp Ap). 100 / 3600 = 23.50/s

B) POST-DEVELOPED FLOW:

-TOTAL APPLICABLE CATCHMENT AREA (A) = 955 m² -RAINFALL INTENSITY (I₁₀₀) = 243 mm/hr (5min 100 ARI) -Cr = RUNOFF COEFFICIENT FOR ROOF AREA = 1.0

-Ar = TOTAL ROOF AREA= 995 m²

-TOTAL FLOW QPOST = (Cr Ar + Ci Ai + Cp Ap). 100 / 3600) = 64.461/s

OSD REQUIREMENT

-QPOST VS QPRE FLOW = 64.46 - 23.50 = 40.96 l/s-REQUIRED OSD = $40.96 \times 5 \times 60 = 12.30 \text{ m}^3$

-OSD PROVIDED = 20m3 (RWT)

RAINWATER TANK ORIFICE CALCULATION

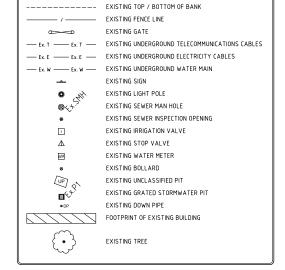
-AVAILABLE HEAD ABOVE PIPE CENTER LINE = 2.00 m-EXIT VELOCITY = $\sqrt{(2gh)}$ -ORIFICE COEFFICIENT = 6.26m/s

= 0.8 -FLOW THROUGH Ø77mm ORIFICE = $(0.8 \times 6.26) \times 0.077^2/4 \times \pi = 0.023 \text{ m}^3/\text{s}$

-CONTROL OUTFLOW THROUGH Ø43mm ORIFICE =23.5 l/s FROM RAINWATER TANK

WSUD REQUIREMENT:

- SEE MUSIC MODELING REPORT BY BONNACI GROUP.



SCALE 1:250(A1) SCALE 1:500(A3)

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Project: PROPOSED CHILD CARE CENTRE NEPEAN HOSPITAL REDEVELOPMENT KINGSWOOD, NSW

Drawing PROPOSED STORMWATER MANAGEMENT PLAN

Rev Date Amendment A 21.11.2018 PRELIMINARY ISSUE

B 23.11.2018 ISSUED FOR DA

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Drawing Number

29929 C05

C

STORMWATER NOTES

- 1. CONTRACTOR IS TO ADEQUATELY INFORM HIMSELF AS TO THE DEPTH AND LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 2. PIPE IS TO BE LAID AT UNIFORM GRADE BETWEEN INVERT LEVELS SHOWN WITH MINIMUM COVER MAINTAINED UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.
- 3. MINIMUM COVER OVER ALL PIPES IN NON-TRAFFICABLE AREAS TO BE 450mm UNO. MINIMUM COVER OVER ALL PIPES IN TRAFFICABLE AREAS TO BE 600mm UNO. WHEN THIS CRITERIA CANNOT BE ACHIEVED, PIPES TO BE ENCASED IN 150 CONCRETE.
- 5.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 FINISH.
- 6.PRECAST PITS MAY BE USED AS APPROVED BY THE
- 7.ALL PIPES SHALL BE RUBBER RING JOINTED CLASS '2' UNLESS NOTED OTHERWISE

FINISHED SURFACE

0D+450mm

N.T.S.

TYPICAL SECTION - TRENCH IN ROADWAY

200 MIN

ROADBASE

× PIPE COLLAR IS NOT TO REST ON ORIGINAL MATERIAL

COMPACTION OF BACKFILL

1. BEDDING SAND

BEDDING SAND SHALL BE GRANULAR MATERIAL HAVING A LOW PERMEABILITY AND HIGH STABILITY WHEN SATURATED, CONFORMING TO THE GRADING LIMITS FOR BEDDING SAND AS INDICATED IN THE CONTRACT DOCUMENTS. BEDDING SAND SHALL BE COMPACTED TO A DENSITY INDEX OF 70% AS DETERMINED IN ACCORDANCE WITH AS1289.

2. APPROVED IMPORTED GRANULAR FILL

ONLY IMPORTED GRANULAR FILL MATERIAL APPROVED BY THE SUPERINTENDENT SHALL BE USED. THIS FILL MATERIAL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 150mm THICK TO A DRY DENSITY OF 95% OF THE STANDARD MAXIMUM DRY DENSITY OF THE MATERIAL AND WITH A MOISTURE CONTENT NO MORE THAN 1% ABOVE OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH AS1289.

3. ORDINARY EXCAVATED FILL MATERIAL

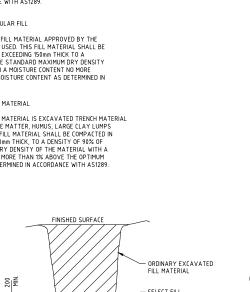
– APPROVED IMPORTED NON-COHESIVE GRANULAR FILL MATERIAL

BEDDING SAND

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ORDINARY EXCAVATED FILL MATERIAL IS EXCAVATED TRENCH MATERIAL THAT IS FREE OF VEGETABLE MATTER. HUMUS, LARGE CLAY LUMPS AND ROCK BOULDERS. THIS FILL MATERIAL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 300mm THICK, TO A DENSITY OF 50% OF THE STANDRAD MAXIMUM DRY DENSITY OF THE MATERIAL WITH A MOISTURE CONTENT OF NOTE THAT IX, ABOVE THE OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH AS1289.

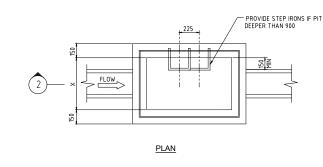
0.33D MN.



- BEDDING SAND

TYPICAL SECTION - EARTH FOUNDATION TRENCH N.T.S.

0D+450mm



50 FALL UNO

SECTION (2)

COVER (WITH SUITABLE LIFTING HOLES OR GRATE & FRAME AS SPECIFIED

MORTAR BED

71111

MASS CONCRETE BENCHING

GRATED INLET PIT

FLOOD IMPACT ASSESSMENT

1. FINISHED FLOOR LEVEL

PROPOSED FSL IS ABOVE THE 1:100YR ARI + 0.5m FREEBOARD.

2. FLOODING IMPACT - CATCHMENT

IN ACCORDANCE WITH THE COLLEGE, ORTH AND WERRINGTON CREEKS CATCHMENT OVERLAND FLOW FLOOD STUDY WHICH WAS ADOPTED BY COUNCIL ON 22 MAY 2017. THE SUBJECT SITE (AS A WHOLE) IS WITHIN A THE FLOOD PLANNING AREA BUT NOT NOT IDENTIFIED IN FLOOD PLANNING AREA MAPPING. SEE FIGURE 1

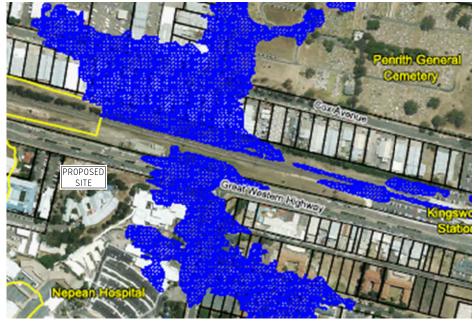


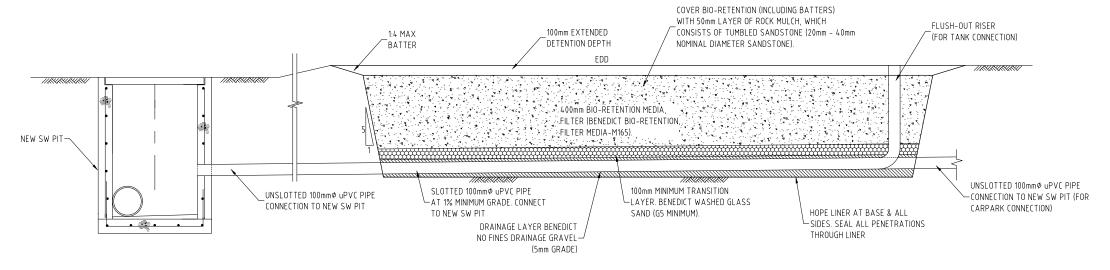
FIGURE 1 - COLLEGE, ORTH AND WERRINGTON CREEKS CATCHMENT OVERLAND FLOW STUDY EXTRACT

3. FLOODING IMPACT - OVERLAND FLOW

GENERAL HEIGHT OF NEW BUILDING TO BE APPROXIMATELY 0.5m - 1.0m BELOW EXISTING NATURAL SURFACE LEVELS. ALL ROOF WATER COLLECTED DIRECTED TO NEW 12 500LRWT WITH ORIFICE PLATE SO THAT POST DEVELOPMENT FLOW DOES NOT EXCEED PRE-DEVELOPMENT FLOW.
SITE ABOVE 1:100YR FLOOD LEVEL, THEREFORE NO IMPACT ON EXISTING
OVERLAND FLOW PATH.

4. WATER SENSISTIVE URBAN DESIGN

ALL ROOF AREAS TO BE DIRECTED TO NEW OSD RWT TANKS THEN BIO-RETENTION BASIN. SEE DETAIL.
ADDITIONAL CARPARK RUNOFF TO BE DIRECTED TO NEW SW BIO-RETENTION BASIN. SEE DETAIL.



BIO-RETENTION BASIN TYPICAL SECTION

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- N12 AT 300 BOTHWAYS OR SL82 FABRIC (40 COVER TO INSIDE FACE) IF PIT DEEPER THAN 1500

NEPEAN HOSPITAL REDEVELOPMENT KINGSWOOD, NSW

Drawing STORMWATER SPECIFICATION PLAN

B 23.11.2018 ISSUED FOR DA

A 21.11.2018 PRELIMINARY ISSUE

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Size = A1

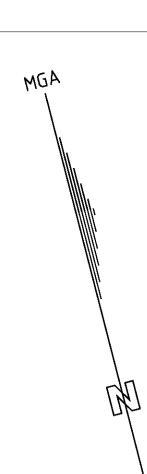
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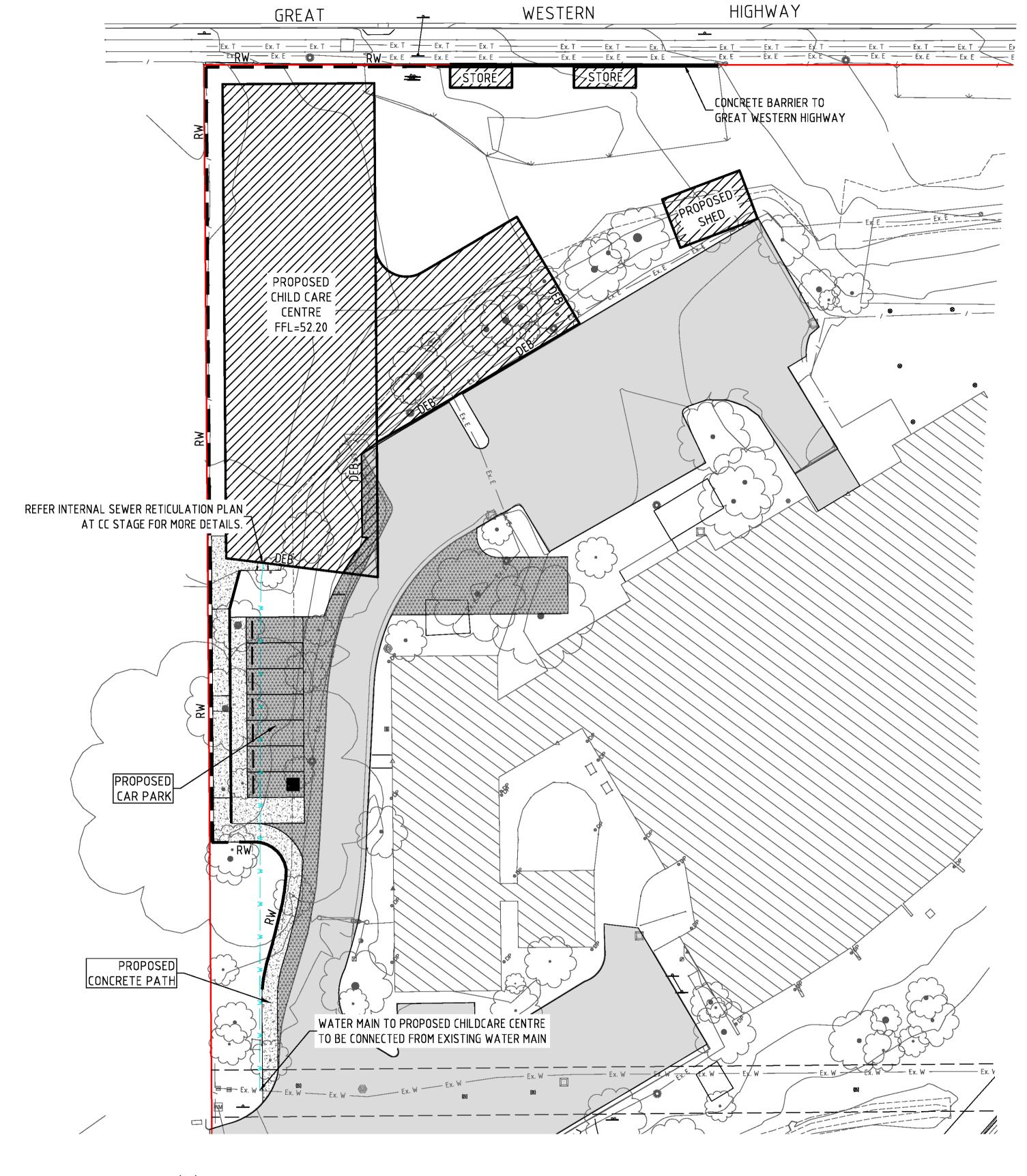
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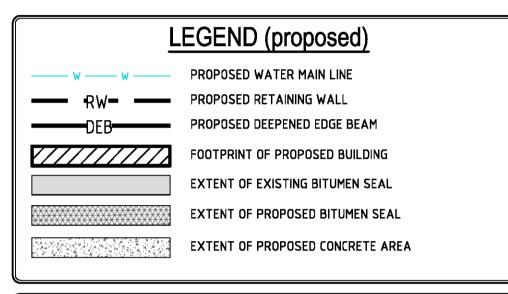
29929 C06

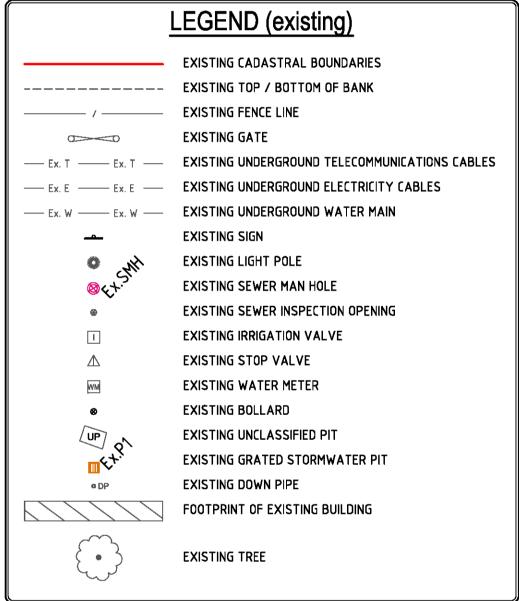
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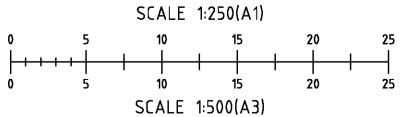
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PROPOSED WATER RETICULATION PLAN REDUCTION RATIO 1:250 @ A1

1:500 @ A3

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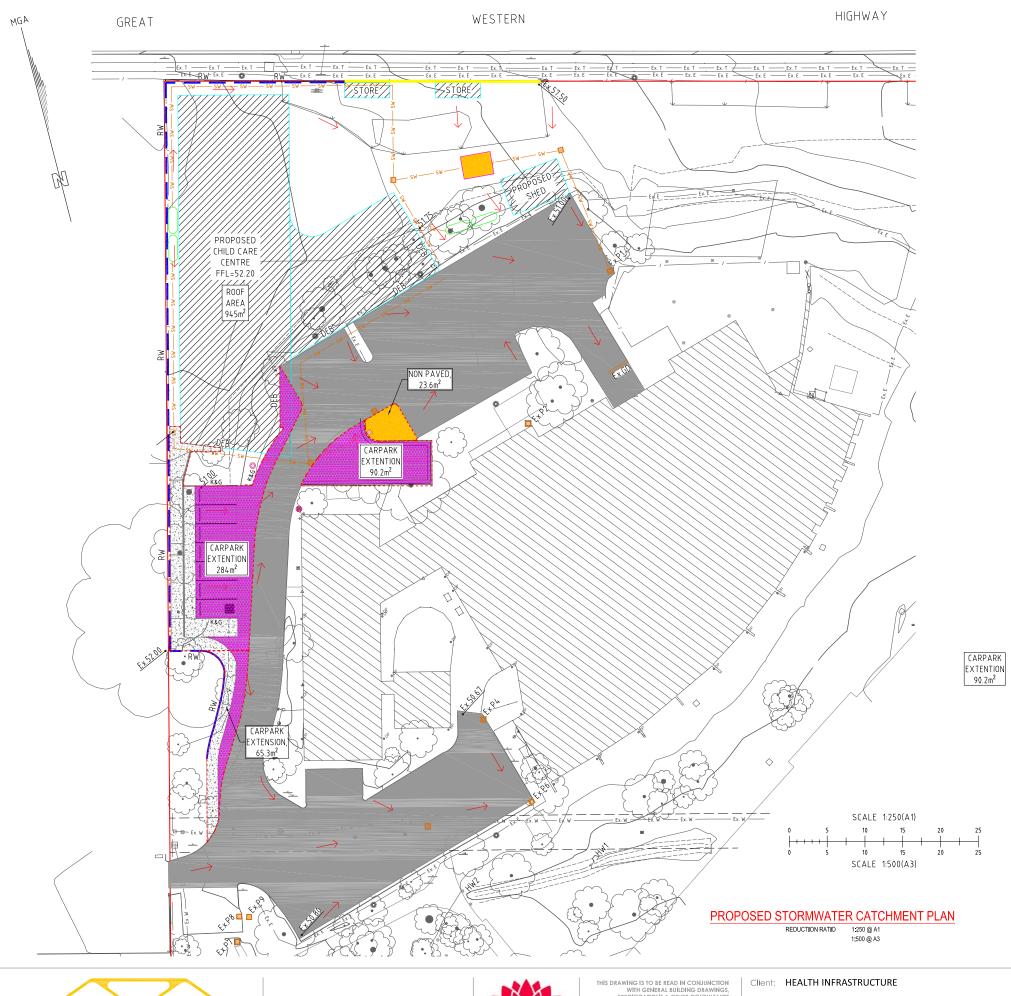
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HEALTH INFRASTRUCTURE Client:

PROPOSED CHILD CARE CENTRE NEPEAN HOSPITAL REDEVELOPMENT KINGSWOOD, NSW

Drawing Title: PROPOSED WATER RETICULATION PLAN

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Project: PROPOSED CHILD CARE CENTRE NEPEAN HOSPITAL REDEVELOPMENT KINGSWOOD, NSW Drawing PROPOSED STORMWATER
Title: CATCHAGENT SHAPE CATCHMENT PLAN

Rev Date Amendment A 25.03.2019 ISSUED FOR DA Design DOS Certification Drawn LT Check LM

LEGEND (proposed) PROPOSED GRATED STORMWATER PIT PROPOSED RETAINING WALL, SEE 29929_C04 PROPOSED DEEPENED EDGE BEAM EXISTING GRATED DRAIN

PROPOSED SURFACE FINISH LEVEL

FOOTPRINT OF PROPOSED BUILDING EXTENT OF EXISTING BITUMEN SEAL

EXTENT OF PROPOSED CONCRETE AREA, SEE 29929_C04

LEGEND (existing) EXISTING CADASTRAL BOUNDARIES ---- EXISTING TOP / BOTTOM OF BANK

— Ex. E — EXISTING UNDERGROUND ELECTRICITY CABLES

EXISTING SEWER INSPECTION OPENING EXISTING IRRIGATION VALVE EXISTING STOP VALVE

EXISTING WATER METER EXISTING BOLLARD

EXISTING TREE

EXISTING UNCLASSIFIED PIT EXISTING GRATED STORMWATER PIT EXISTING DOWN PIPE

FOOTPRINT OF EXISTING BUILDING

EXISTING GATE

--- Ex. W ---- Ex. W --- EXISTING UNDERGROUND WATER MAIN EXISTING SIGN EXISTING LIGHT POLE EXISTING SEWER MAN HOLE

EXTENT OF PROPOSED BITUMEN SEAL, SEE 29929_C04

EXISTING UNDERGROUND TELECOMMUNICATIONS CABLES

PROPOSED KERB & GUTTER, SEE 29929_C04

EXISTING SPOT LEVEL EXISTING SPOT LEVEL

Ex.GD 52.05

EX52.05

K&G

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