

APPENDIX D

Preliminary Civil Engineering Designs

Civil Design Documentation

Proposed Child Care Centre

Lot 111 in D.P.1272283

2 Premiers Street, Nemingha, NSW, 2340

SCHEDULE OF DRAWINGS

SHEET No.	DESCRIPTION
43564-C00	COVER SHEET AND DRAWING SCHEDULE
43564-C01	EXISTING SITE PLAN
43564-C02	PROPOSED SITE PLAN & WATER/FIRE SERVICES CONCEPT PLAN
43564-C10	PROPOSED STORMWATER MANAGEMENT PLAN
43564-C11	PROPOSED ROOF DRAINAGE PLAN
43564-C12	STORMWATER SPECIFICATION



LOCALITY PLAN

NOT TO REDUCTION RATIO

ISSUED FOR APPROVAL

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Rev	Date	Description
0	11-12-2024	ISSUED FOR APPROVAL
1	11-02-2025	REVISE ROOF DRAINAGE DESIGN

Project

PROPOSED CHILD CARE CENTRE

Site Address

Lot 11 in D.P.1272283

2 PREMIERS STREET, NEMINGHA, NSW, 2340

Client

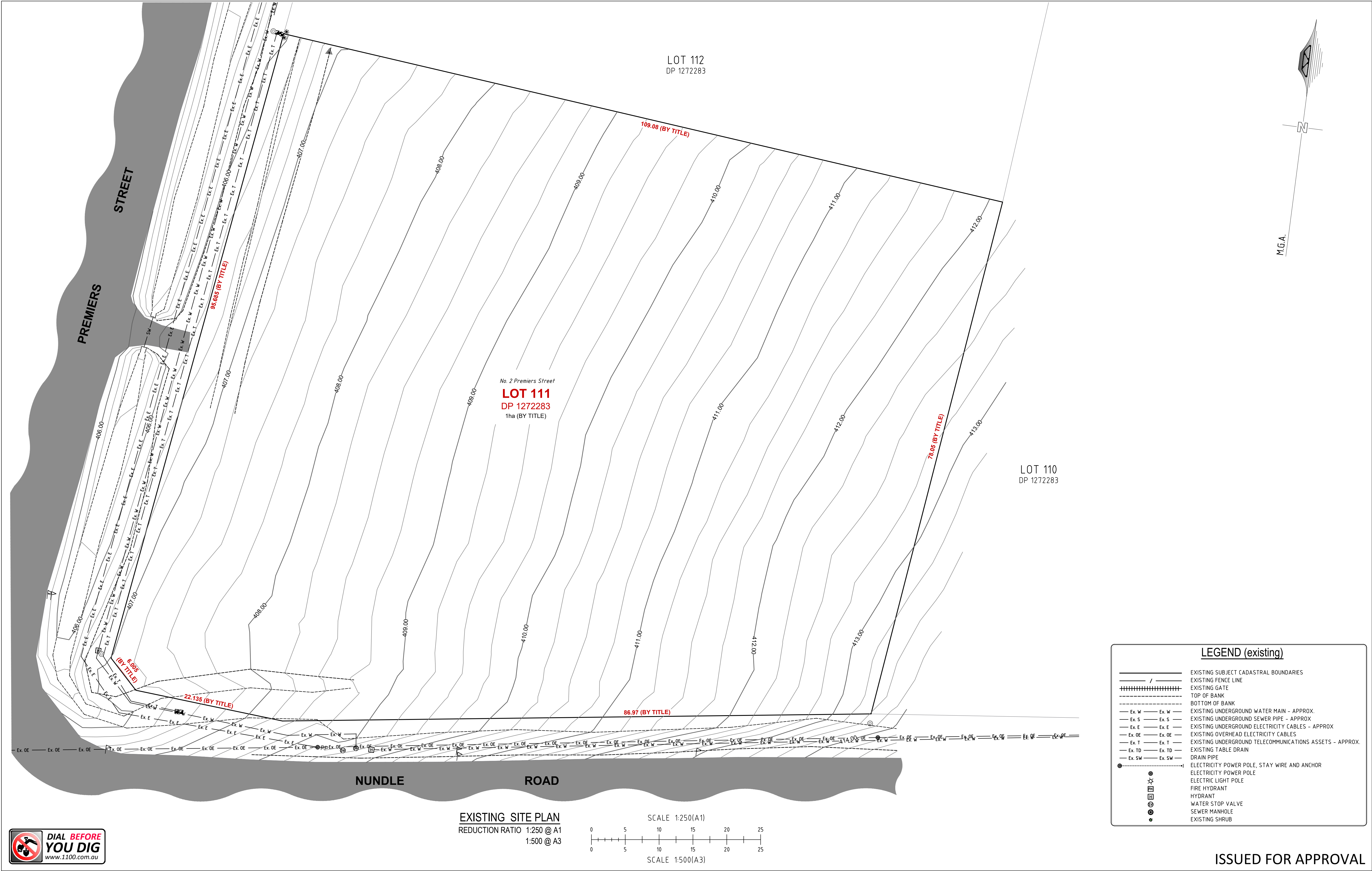
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COVER SHEET & NOTES

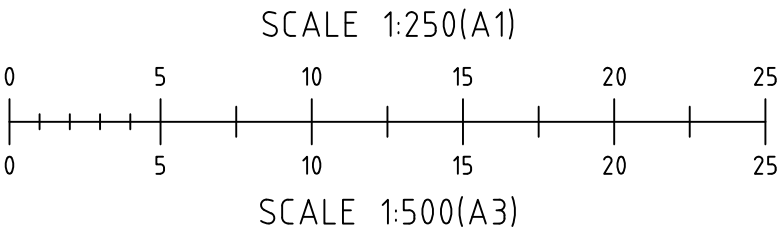
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Drawn	AR		
Check	LM	Revision	1

Certification

Project No	43564
Drawing No	C00



EXISTING SITE PLAN
REDUCTION RATIO 1:250 @ A1
1:500 @ A3



LEGEND (existing)	
	EXISTING SUBJECT CADASTRAL BOUNDARIES
	EXISTING FENCE LINE
	EXISTING GATE
	TOP OF BANK
	BOTTOM OF BANK
	EXISTING UNDERGROUND WATER MAIN - APPROX.
	EXISTING UNDERGROUND SEWER PIPE - APPROX
	EXISTING UNDERGROUND ELECTRICITY CABLES - APPROX
	EXISTING OVERHEAD ELECTRICITY CABLES
	EXISTING UNDERGROUND TELECOMMUNICATIONS ASSETS - APPROX.
	EXISTING TABLE DRAIN
	DRAIN PIPE
	ELECTRICITY POWER POLE, STAY WIRE AND ANCHOR
	ELECTRICITY POWER POLE
	ELECTRIC LIGHT POLE
	FIRE HYDRANT
	HYDRANT
	WATER STOP VALVE
	SEWER MANHOLE
	EXISTING SHRUB

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Project
PROPOSED CHILD CARE CENTRE

Site Address
Lot 11 in D.P.1272283
2 PREMIERS STREET, NEMINGHA, NSW, 2340

Drawing Title
EXISTING SITE PLAN

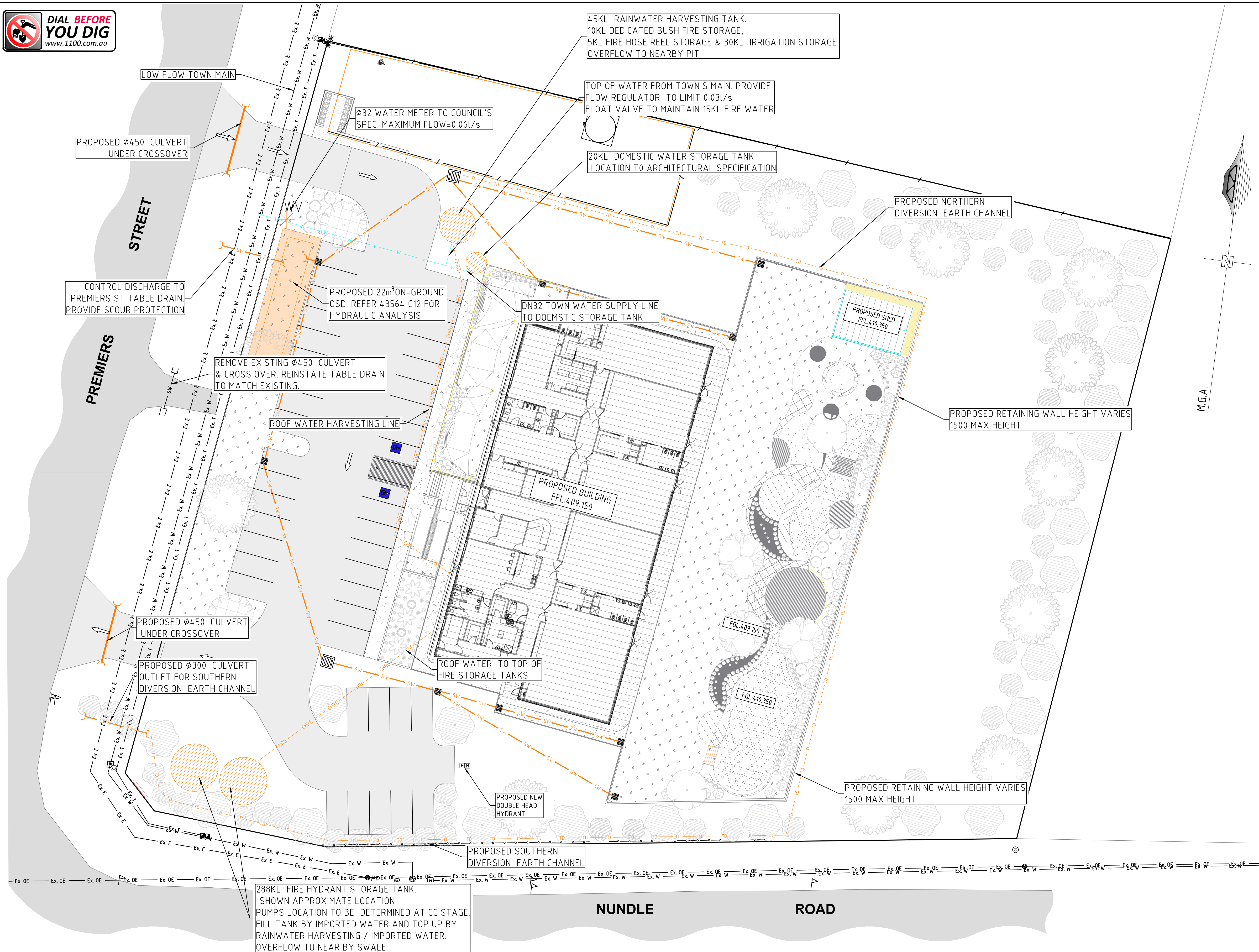
Design ST
Drawn AR
Check LM

Original Sheet Size A1
Revision 0

Certification

Project No
Drawing No

43564
C01



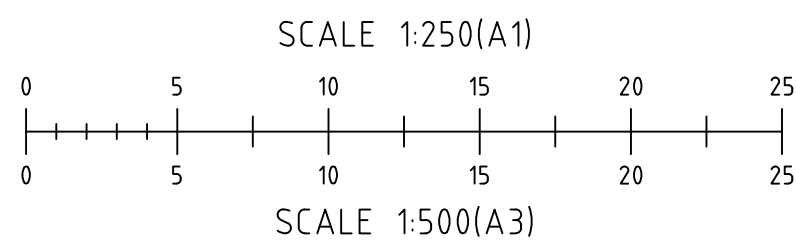
LEGEND (proposed)

- K&G PROPOSED BARRIER KERB AND GUTTER
- K0 PROPOSED KERB ONLY
- EXTENT OF PROPOSED AC CARPARK
- EXTENT OF PROPOSED CONCRETE PATH/CROSS OVER
- EXTENT OF PROPOSED LANDSCAPED AREA
- TO PROPOSED EARTH SWALE
- SW PROPOSED UNDERGROUND STORMWATER PIPE
- CHRG PROPOSED CHARGED ROOF DRAINAGE PIPE
- PROPOSED GRATED STORMWATER PIT (WITH SPELL STORMSACK IN HARDSTAND AREA)
- PROPOSED SURFACE FALL DIRECTION
- 150 uPVC 1.0% Q_{max} = 26.7 l/s PROPOSED PIPE SIZE & MATERIAL GRADIENT 5% AEP FLOW
- PROPOSED SURFACE FALL DIRECTION
- PROPOSED/EXISTING GROUND LEVEL
- FALL ROOF - DIRECTION OF FALL

LEGEND (existing)

- EXISTING SUBJECT CADASTRAL BOUNDARIES
- EXISTING FENCE LINE
- EXISTING GATE
- TOP OF BANK
- BOTTOM OF BANK
- Ex W EXISTING UNDERGROUND WATER MAIN - APPROX.
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- Ex E EXISTING UNDERGROUND ELECTRICITY CABLES - APPROX.
- Ex OE EXISTING OVERHEAD ELECTRICITY CABLES
- Ex T EXISTING UNDERGROUND TELECOMMUNICATIONS ASSETS - APPROX.
- Ex TD EXISTING TABLE DRAIN
- Ex SW DRAIN PIPE
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- ELECTRICITY POWER POLE
- ELECTRIC LIGHT POLE
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- HYDRANT
- WATER STOP VALVE
- SEWER MANHOLE
- EXISTING SHRUB

PROPOSED SITE PLAN
REDUCTION RATIO 1:250 @ A1
1:500 @ A3



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Rev	Date	Description
0	11-12-2024	ISSUED FOR APPROVAL
1	11-02-2025	AMEND ROOF PLAN
2	18-03-2025	SITE PLAN UPDATED

Project
PROPOSED CHILD CARE CENTRE

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Client

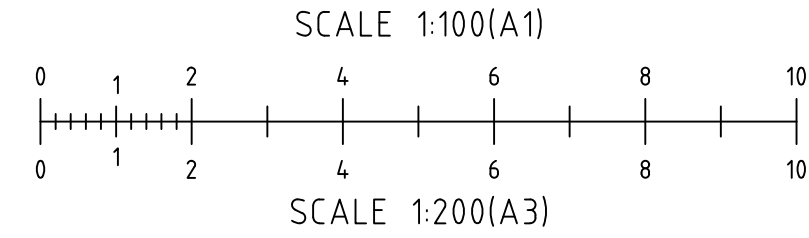
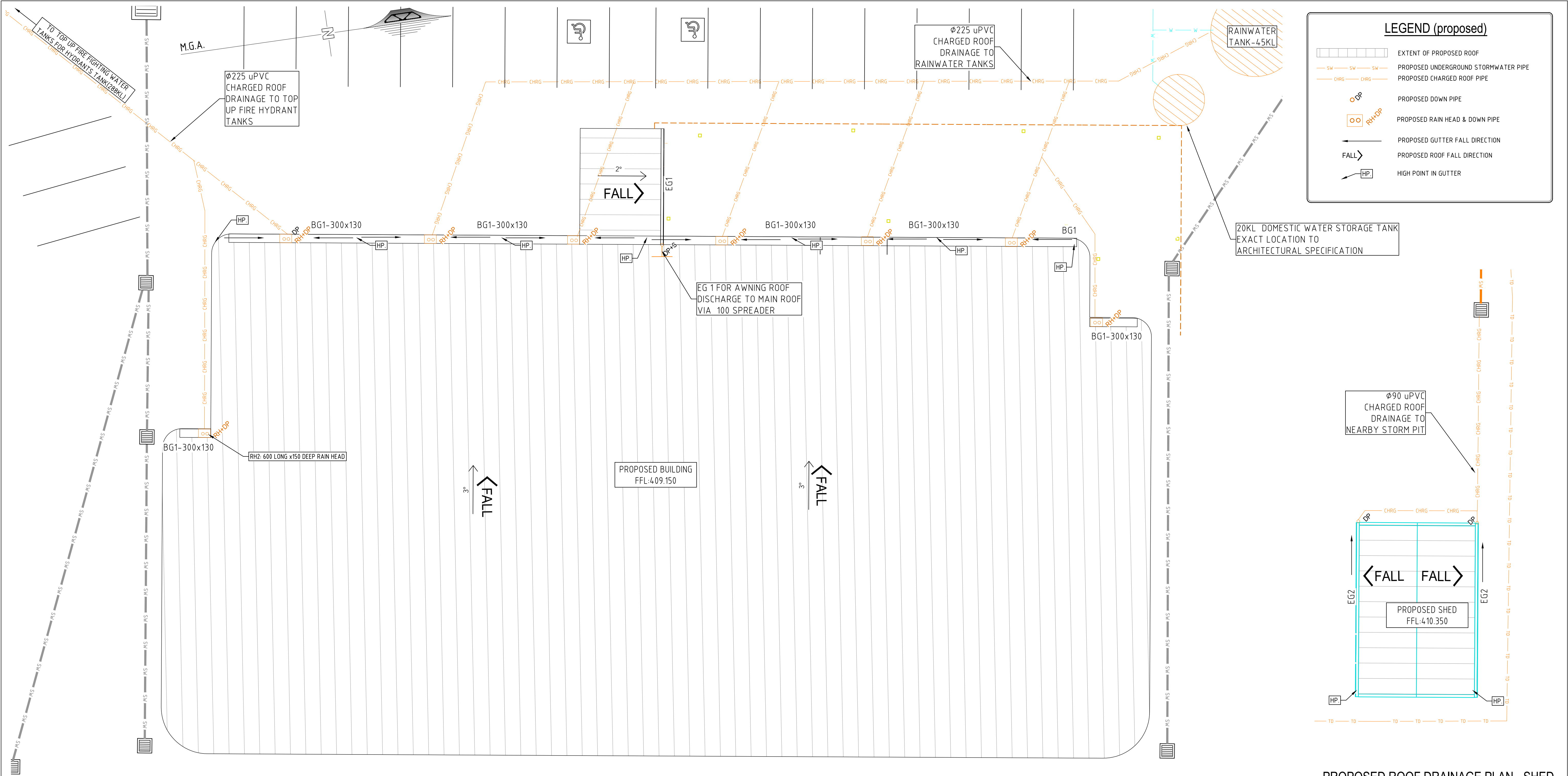
Drawing Title
**PROPOSED SITE PLAN &
WATER/ FIRE SERVICING CONCEPT PLAN**

Design	ST	Original Sheet Size	A1
Drawn	AR		
Check	LM	Revision	2

Certification

Project No
Drawing No

43564
C02



PROPOSED ROOF DRAINAGE PLAN - MAIN BUILDING

REDUCTION RATIO 1:100 @ A1
1:200 @ A3

EAVES GUTTERS					
FLOW (l/s)					
GUTTER ID	MAX AREA PER DP (m ²)	FLOW (TOTAL)	MIN. GUTTER CROSS-SECTIONAL AREA (mm ²)	APPROVED PRODUCT ¹	MIN. DOWNPIPE DIAMETER (mm)
EG1	26	1.2 l/s	6,100	LYSAGHT QUD 115	Ø90
EG2	40	3.3 l/s	6,100	LYSAGHT QUD 115	Ø90

- ANY ALTERNATIVE PRODUCT MAY BE SELECTED IF THE MIN CROSS-SECTIONAL AREA IS ACHIEVED
- ALL ROOF AREA TO BE DRAINED INTO RESPECTIVE RAINWATER TANK

BOX GUTTER SPECIFICATION							
LOCATION	GUTTER	FLOW l/s	RAIN HEAD No.	Ha	Hr	W	DP's
MAIN ROOF	BG1	76 l/s	8	130	150	300	Ø150

PROPOSED ROOF DRAINAGE PLAN - SHED

REDUCTION RATIO 1:100 @ A1
1:200 @ A3

DESIGN NOTE:
ARI = 5% AEP STORM
DURATION = 5 MIN.
RAINFALL INTENSITY = 158mm/hr

STORMWATER ANALYSIS
1. DESIGN CALCULATIONS AS PER AS3500.3-2021
2. EAVES GUTTERS DESIGNED FOR 5% AEP STORM, 5 MINUTE INTENSITY. GUTTERS TO BE INSTALLED AT FALL 1500 OR STEEPER. EAVE GUTTERS: GUTTER TO HAVE EQUIVALENT CROSS SECTIONAL AREA AS SPECIFIED



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Project
PROPOSED CHILD CARE CENTRE

Site Address
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2 PREMIERS STREET, NEMINGHA, NSW, 2340
Client
ROBJIE SUPERANNUATION PTY LTD

Drawing Title
PROPOSED ROOF DRAINAGE PLAN

Design	ST	Original Sheet Size	A1
Drawn	AR		
Check	LM	Revision	1

Certification

Project No	43564
Drawing No	C11

SITEWORKS NOTES

- ORIGIN OF LEVELS :- AHD
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
- ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATIONS AND THE DIRECTIONS OF THE SUPERINTENDENT.
- EXISTING SERVICES HAVE BEEN OBTAINED FROM SURFACE INSPECTION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND THE LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- WHERE NEW WORKS ABOUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A QUALIFIED SURVEYOR.
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER TELECOM OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- ON COMPLETION OF CONSTRUCTION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS.
- MAKE SMOOTH TRANSITION TO EXISTING AREAS.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DIVERSION DRAINS AND MOUNDS TO ENSURE THAT AT ALL TIMES EXPOSED SURFACES ARE FREE DRAINING AND WHERE NECESSARY EXCAVATE SUMPS AND PROVIDE PUMPING EQUIPMENT TO DRAIN EXPOSED AREAS. ALL WORK TO BE UNDERTAKEN WITH ADHERENCE TO THE REQUIREMENTS OF THE SOIL AND WATER MANAGEMENT PLAN.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS.

SURVEY NOTES

- CONTOURS SHOWN DEPICT THE TOPOGRAPHY. EXCEPT AT SPOT LEVELS SHOWN THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT.
- SERVICES SHOWN HEREON HAVE BEEN DETERMINED FROM VISUAL EVIDENCE AND ARE INDICATIVE ONLY. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE THE RELEVANT AUTHORITY SHOULD BE CONTACTED TO ESTABLISH DETAILED LOCATION AND DEPTH.

PIPE TRENCH - FILL NOTES:

- 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 95% AS DETERMINED IN ACCORDANCE WITH AS1289.
- 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 300mm THICK TO A DRY DENSITY OF 100% 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.
- ORDINARY EXCAVATED FILL MATERIAL**
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 95% OF THE STANDARD MAXIMUM DRY DENSITY OF THE MATERIAL WITH A MOISTURE CONTENT OF NOT MORE THAN 1% ABOVE THE OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH AS1289.

STORMWATER NOTES

- ALL DOWNPIPE LINES SHALL BE SEWER GRADE uPVC WITH SOLVENT WELD JOINTS (U.N.O)
- EQUIVALENT STRENGTH VCP OR FCP PIPES MAY BE USED.
- MINIMUM GRADE TO STORMWATER LINES TO BE 0.5% MINIMUM (U.N.O)
- CONTRACTORS TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
- 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.
- APPROVED PRECAST PITS MAY BE USED.
- WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50mm CONCRETE BED (75mm THICK BED OF 12mm BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR THE ROCK. IN OTHER THAN ROCK, PIPES SHALL BE LAID ON A 75mm THICK SAND BED. IN ALL CASES, BACKFILL THE TRENCH WITH THE SAND TO 200mm ABOVE THE PIPE. WHERE THE PIPE IS UNDER PAVEMENTS, BACKFILL REMAINDER OF TRENCH WITH SAND OR APPROVED GRANULAR BACKFILL COMPACTED IN 150mm LAYERS TO 98% MAX. DRY DENSITY.
- WHERE STORMWATER LINES PASS UNDER FLOOR SLABS, SEWER GRADE RUBBER RING JOINTS ARE TO BE USED.
- ALL PIPES IN THE ROADWAY AND FOOTPATH AREAS, WHERE THE DEPTH OF PIPE IS LESS THAN 500mm FROM THE FINISHED SURFACE LEVEL ARE TO BE CONCRETE ENCASED.

STORMWATER ANALYSIS

DESIGN CALCULATIONS AS PER AS3500.3-2021

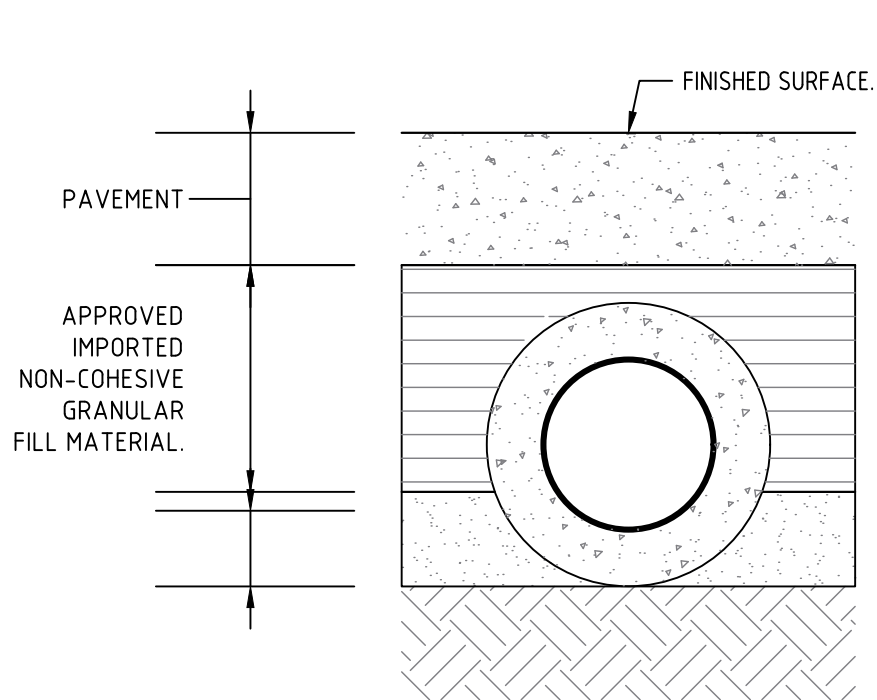
- A) **PRE-DEVELOPED:**
- TOTAL APPLICABLE CATCHMENT AREA (A) = 10,000m²
 - RAINFALL INTENSITY (I_h) = 158 mm/hr (5min- 5% AEP)
 - RAINFALL INTENSITY (I_h) = 208 mm/hr (5min- 1% AEP)
 - Cr = RUNOFF COEFFICIENT FOR ROOFED AREA = 1.0
 - Ar = TOTAL ROOFED AREA= 0 m²
 - Ci = RUNOFF COEFFICIENT FOR UNROOFED IMPERVIOUS AREA = 0.9
 - Ai = TOTAL UNROOFED IMPERVIOUS AREA= 0 m²
 - Cp = RUNOFF COEFFICIENT FOR PERVIOUS AREA = 0.3
 - Ap = TOTAL PERVIOUS GRASS AREA = 10,000m²
 - TOTAL FLOW Q_{PRE-5% AEP} = (Cr Ar + Ci Ai + Cp Ap). I_h / 3600 = 131.6 l/s
 - TOTAL FLOW Q_{PRE-1% AEP} = (Cr Ar + Ci Ai + Cp Ap). I_h / 3600 = 173.3 l/s
- B) **POST-DEVELOPED:**
- TOTAL APPLICABLE CATCHMENT AREA (A) = 10,000m²
 - RAINFALL INTENSITY (I_h) = 158 mm/hr (5min- 5% AEP)
 - RAINFALL INTENSITY (I_h) = 208 mm/hr (5min- 1% AEP)
 - Cr = RUNOFF COEFFICIENT FOR ROOFED AREA = 1.0
 - Ar = TOTAL ROOFED AREA/SHADES SAIL=1,460m²
 - Ci = RUNOFF COEFFICIENT FOR UNROOFED IMPERVIOUS AREA = 0.9
 - Ai = TOTAL UNROOFED IMPERVIOUS AREA= 2,510 m²
 - Cp = RUNOFF COEFFICIENT FOR PERVIOUS AREA = 0.3
 - Ap = TOTAL PERVIOUS AREA = 6,030 m²
 - TOTAL FLOW Q_{POST} = (Cr Ar + Ci Ai + Cp Ap). I_h / 3600 = 242.6 l/s
 - TOTAL FLOW Q_{PRE-1% AEP} = (Cr Ar + Ci Ai + Cp Ap). I_h / 3600 = 319.4 l/s

PERMISSIBLE PEAK DISCHARGE FOR R5 INTENSITY DEVELOPEMNT

- MAXIMUM IMPERVIOUSNESS OF SITE=25% OF IMPERVIOUSNESS OF THE SITE
- PERMISSIBLE FLOW-5%AEP= (25% OF 10,000 x1.0 +75% OF10,000x0.3) x $\frac{158}{3600}$ =208.5 l/s
- PERMISSIBLE FLOW-1%AEP= (25% OF 10,000 x1.0 +75% OF10,000x0.3) x $\frac{208}{3600}$ =274.4 l/s

- C) **OSD CALCULATION**
- REQUIRED OSD VOLUME FOR 5% AEP = (242.6-208.5)x5x60/1000= 10.3 CUM
 - REQUIRED OSD VOLUME FOR 1% AEP = (319.4-274.4)x5x60/1000= 13.5 CUM
 - PROPOSED ON GROUND OSD = 22 CUM
 - OSD-BY-PASS =X l/s(Xm2 OF PERVIOUS AREA)
 - REQUIRED CONTROL FLOW FROM OSD = (X-X)=Xl/s

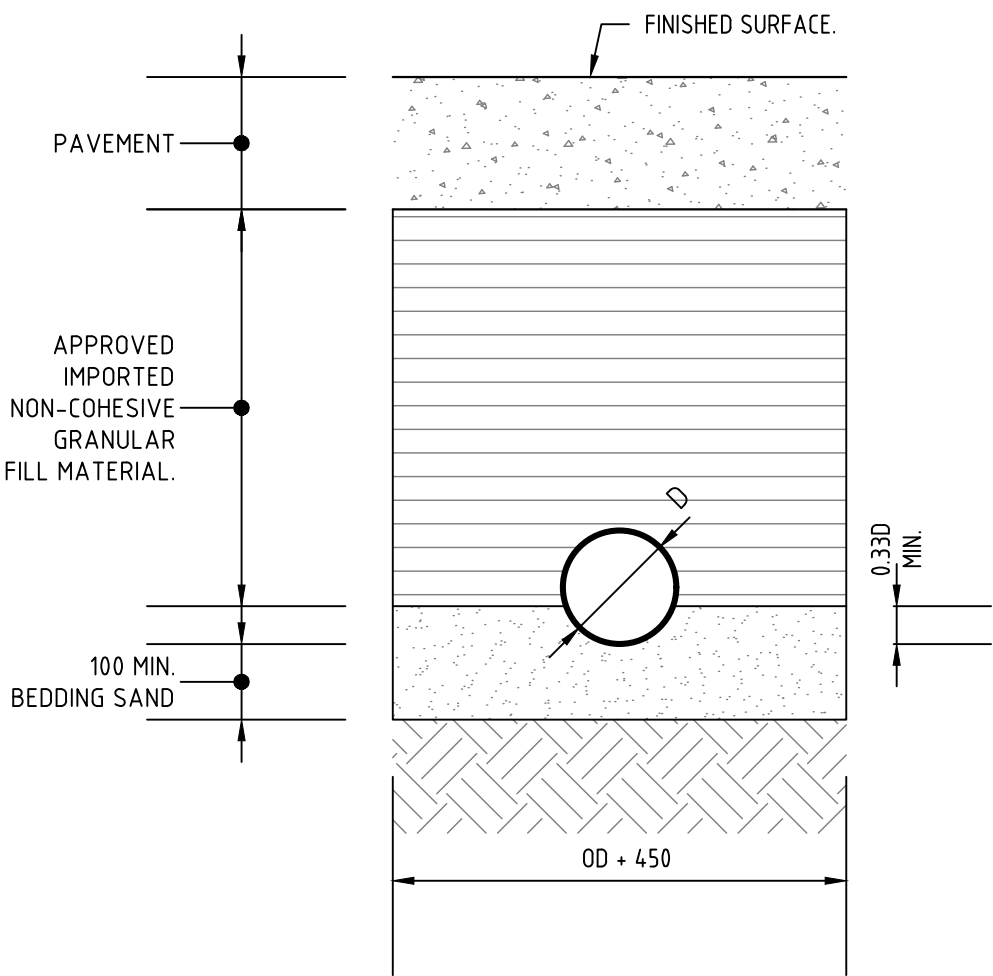
- F) **ORIFICE CALCULATION (ONGROUND)**
- HEAD ABOVE THE CENTRELINE,D = Xm
 - ORIFICE COEFFICIENT,C = 0.8
 - ORIFICE DIAMETER,D = XXmm
 - CONTROL FLOW=Xl/s



TYPICAL PIPE ENCASEMENT

SCALE 1:10

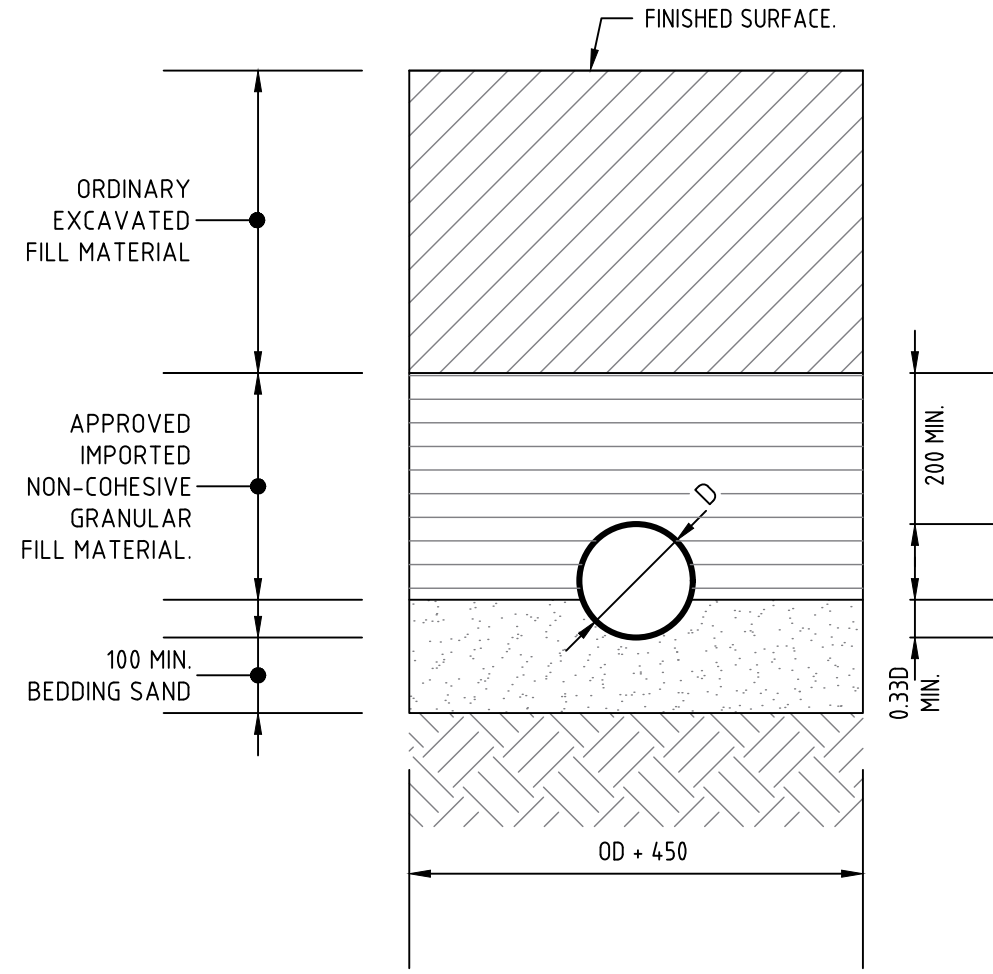
NOTE: PIPE COLLAR IS NOT TO REST ON ORIGINAL MATERIAL



TYPICAL SECTION TRENCH IN ROADWAY

SCALE 1:10

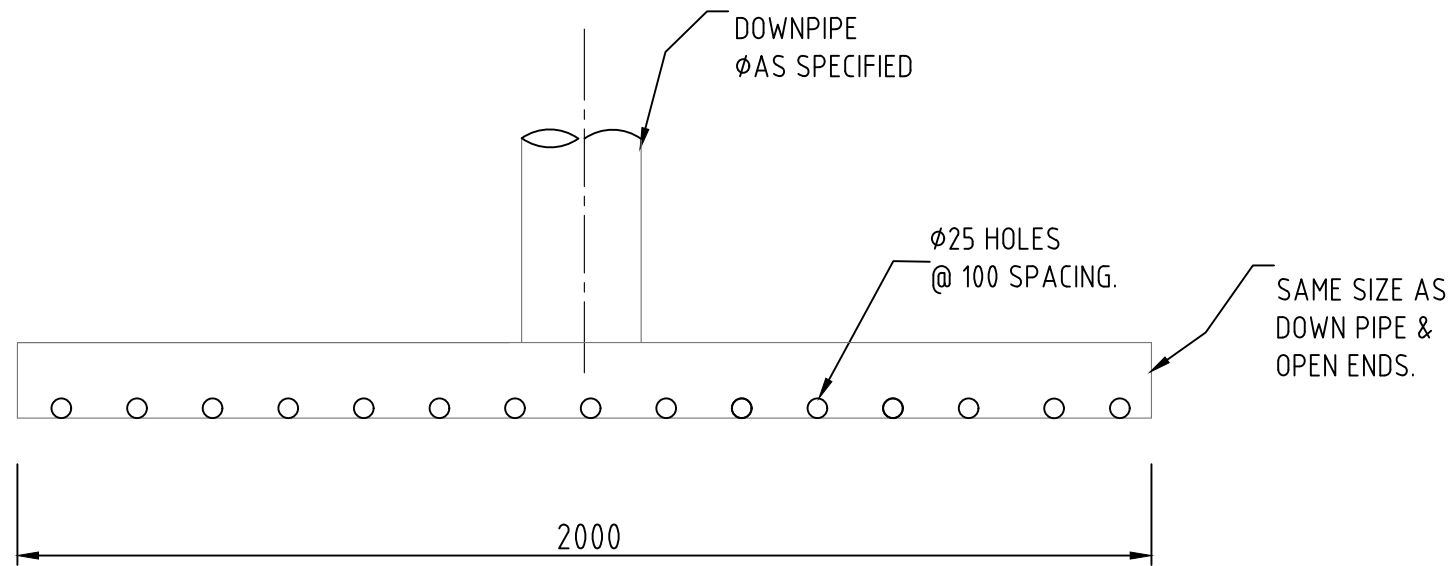
NOTE: PIPE COLLAR IS NOT TO REST ON ORIGINAL MATERIAL



TYPICAL SECTION EARTH FOUNDATION TRENCH

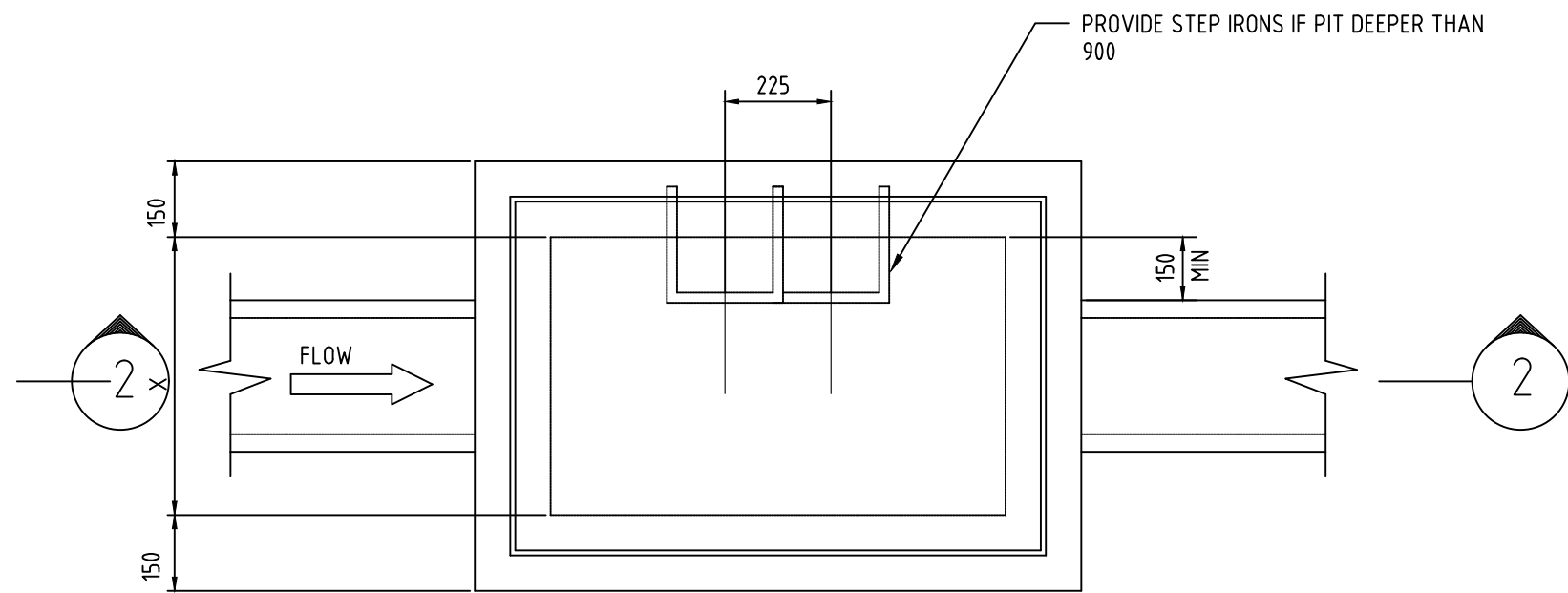
SCALE 1:10

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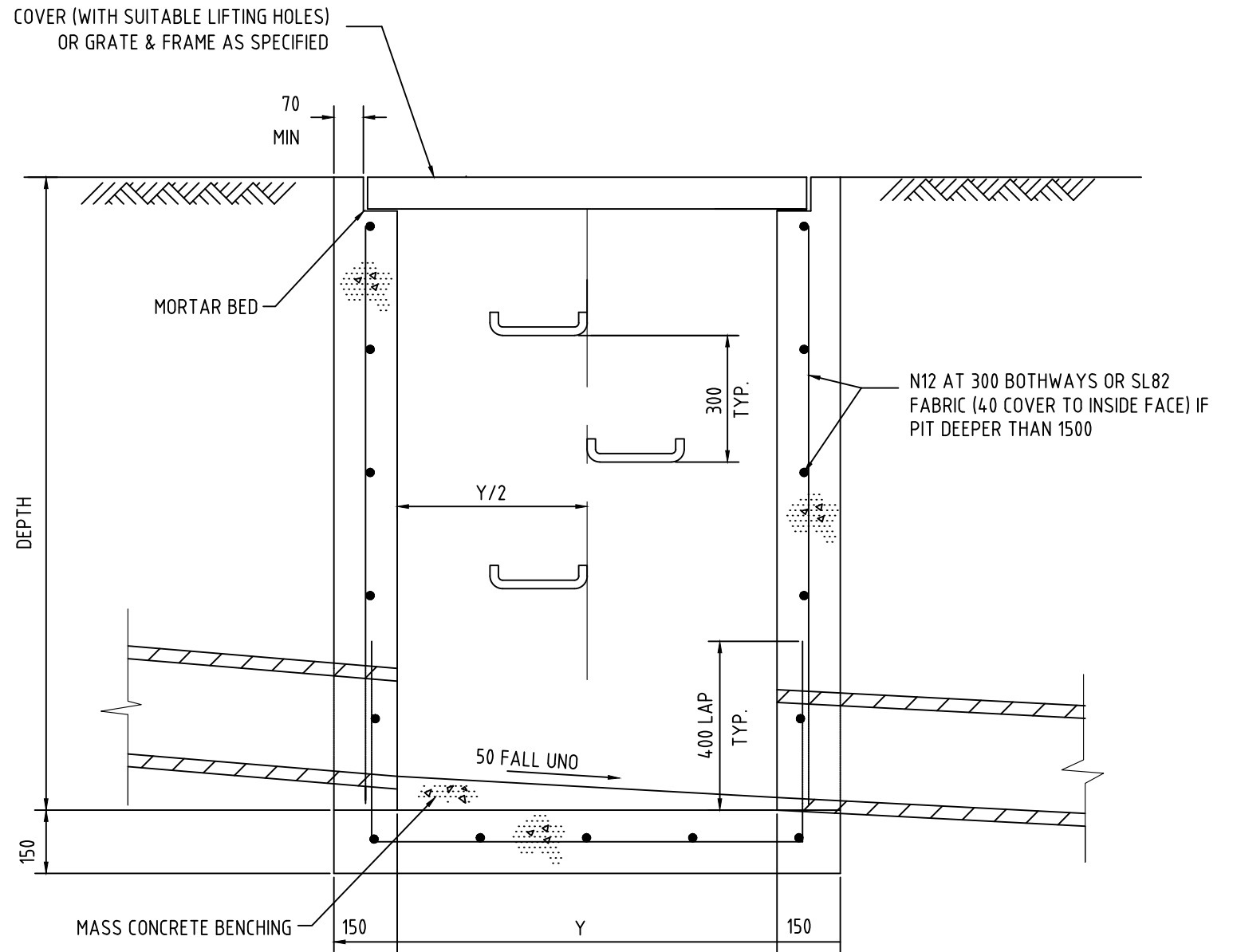
SPREADER DETAIL

SCALE = 1:10



PLAN
GRADED INLET PIT

N.T.S.



SECTION 2

PIT DIMENSIONS		
DEPTH	X	Y
D<600	450	450
D<1000	600	600
D<1500	600	900
1500<D<2400	900	900
D>2400	750	1200

INSPECTION HOLD POINTS

- INSTALLATION OF SEDIMENT & EROSION CONTROL MEASURES.
- WATER & SEWER LINE INSTALLATION PRIOR TO BACKFILL.
- ESTABLISHMENT OF LINE & LEVEL FOR KERB & GUTTER PLACEMENT.
- ROAD PAVEMENT CONSTRUCTION.
- ROAD PAVEMENT SURFACING.
- PRACTICAL COMPLETION.

SERVICES INSTALLATION

- INSTALLATION OF ALL UNDERGROUND PIPES BE INSTALLED PRIOR TO INSTALLATION OF ROAD PAVEMENT.

ISSUED FOR APPROVAL

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1	11-02-2025	UPDATED HYDRAULIC ANALYSIS

Project
PROPOSED CHILD CARE CENTRE

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Drawing Title
STORMWATER SPECIFICATIONS

Design	ST	Original Sheet Size	A1
Drawn	AR		
Check	LM	Revision	1

Certification

Project No

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43564
C12