A1

PROPOSED CHILDCARE AND DWELLINGS
21-23 ELLIS STREET, CONDELL PARK NSW 2200

GENERAL NOTES:

1. MAIN STORMWATER DRAINS ≥ 300mm DIAMETER SHALL FALL AS NOTED. HOWEVER, ALL OTHER BRANCH DRAINS SHALL HAVE A MINIMUM GRADE OF 1%.
2. STORMWATER DRAINS SHALL BE RUBBER RING JOINTED FRC (CLASS 2) OR RCP OF EQUIVALENT CLASS. PIPES OF SIZE LESS THAN 300mm SHALL BE DWV GRADE PVC WITH SOLVENT CEMENT JOINTS.
3. STORMWATER PIT LIDS LOCATED IN DRIVEWAY AREAS SHALL BE EQUAL TO CI & D CAST IRON GRATES AND FRAMES - CLASS D.
4. STORMWATER PIT LIDS TO LANDSCAPED AND PEDESTRIAN AREAS SHALL BE EQUAL TO CI & D CAST IRON GRATES AND FRAMES - CLASS A.
5. ALL WORKS SHALL BE CARRIED OUT TO THE REQUIREMENTS OF THE RELEVANT COUNCIL / AUTHORITY, AS 3500.3, AS 2032, AS 3996 AND AS 3725.
6. AT THE COMPLETION OF THE WORKS PROVIDE A "WORK AS EXECUTED" PLAN OF THE STORMWATER DRAINAGE AND DETENTION SYSTEM. THE PLAN SHALL BE PREPARED AND CERTIFIED BY THE REGISTERED SURVEYOR AND SHOW ALL PIPE SIZES, INVERTS, PIT COVER AND BASE LEVELS AND ALL DETENTION TANK DIMENSIONS, SURFACE LEVELS AND THE ORIFICE PLATE SIZE (IF APPLICABLE).
7. PITS SHALL BE CI & D PRECAST CONCRETE OR APPROVED EQUAL WITH EXTENSION RISERS AS REQUIRED. PITS SHALL BE BEDDED ON A 50mm LAYER OF 4:1 CEMENT MORTAR AND BACKFILLED WITH EXCAVATED MATERIAL IN 200mm THICK COMPACTED LAYERS TO FINISHED SURFACE LEVEL.
8. COVERS TO PITS LOCATED WITHIN PAVED AREAS SHALL BE CAST IN WITH THE CONCRETE POUR. ALL OTHER PIT COVERS SHALL BE PROVIDED WITH A 150mm CONCRETE SURROUND.
9. PROVIDE TO EACH STORMWATER PIT A 1m LONG SECTION OF SUB-SOIL DRAINAGE, Ø75mm WITH GEOTEXTILE, LAID WITHIN THE UPSTREAM TRENCH.
10. PROVIDE 25mm DIAMETER GALVANIZED STEP-IRONS AT INTERVALS OF 300mm WHERE THE INTERNAL DEPTH OF THE PIT EXCEEDS 1000mm, TO AS 4108.
11. RETENTION TANK TO BE CLEANED & ALL SLUDGE REMOVED ON AN ANNUAL INSPECTION.
12. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE THE POSITION & LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.
13. LOCATION OF DOWNPIPES & FLOOR WASTES ARE INDICATIVE ONLY. DOWNPIPE & FLOOR WASTE SIZE, LOCATION & QUANTITY TO BE DETERMINED BY BUILDER & IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
14. THE GRATES (HEAVY DUTY IN THE DRIVEWAYS) SHALL BE HINGED AND LOCKABLE.
15. THE PLANS SHALL INDICATE THAT DRIVEWAYS AND LAYBACKS MUST BE CONSTRUCTED AT LEAST 1-METRE CLEAR OF STORMWATER PITS/LINTELS, TREES, TELSTRA PITS AND EXISTING POWER POLES.
16. REFER TO ENGINEER ANY SERVICES THAT INTERFERE WITH THE REQUIREMENTS OF THESE PLANS.

SITEWORKS NOTES:

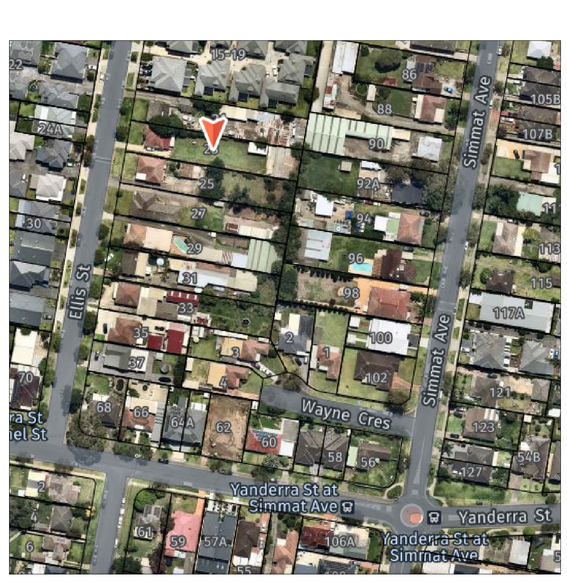
1. DATUM A.H.D.
2. ORIGIN OF LEVELS. REFER TO BENCH OR STATE SURVEY MARKS WHERE SHOWN ON PLAN.
3. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
4. ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS & THE DIRECTIONS OF THE SUPERINTENDENT.
5. EXISTING SERVICES UNLESS SHOWN ON SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND 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.
6. WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS ACHIEVED.
7. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
8. CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATION IS TO BE UNDERTAKEN OVER TELSTRA OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
9. CONTRACTOR TO OBTAIN AUTHORITY APPROVALS WHERE APPLICABLE.
10. MAKE SMOOTH TRANSITION NEW TO EXISTING SURFACES AND MAKE GOOD AS APPLICABLE.
11. THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE, ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING TO DEVELOPMENT AT THE SITE BY THE SUPERINTENDENT.
12. TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MINIMUM OF 50mm IN BITUMINOUS PAVING.
13. ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN 80Ø uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.
14. GRADES TO PAVEMENTS TO BE AS INDICATED ON PLAN . GRADE EVENLY BETWEEN NOMINATED RL'S. AREAS EXHIBITING PONDING GREATER THAN 5mm DEPTH WILL NOT BE ACCEPTED UNLESS IN A DESIGNATED SAG DRAINAGE LOCATION.
15. ALL COVERS AND GRATES ETC. TO EXISTING SERVICE UTILITIES ARE TO BE ADJUSTED TO SUIT NEW FINISHED SURFACE LEVELS WHERE APPLICABLE TO AUTHORITY REQUIREMENTS.

EROSION CONTROL NOTES:

1. ALL EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER, 4th EDITION PRODUCED BY LANDCOM.
2. ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORKS, AND ALL SILT TRAPS ARE TO HAVE DEPOSITED SILT REMOVED REGULARLY DURING CONSTRUCTION.
3. ALL TREES ARE TO BE PRESERVED UNLESS INDICATED OTHERWISE ON THE ARCHITECT'S OR LANDSCAPE ARCHITECT'S DRAWINGS. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENTS ETC.
4. INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADEN WATER.
5. NOT WITHSTANDING DETAILS SHOWN IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN WATERS ACT. DISCHARGE TURBIDITY NOT TO EXCEED 50mg/L

CHARGED PIPE SYSTEMS

1. GENERAL REQUIREMENTS FOR CHARGED PIPE SYSTEMS:
   (A) WHERE THE BOUNDARY LEVEL IS ABOVE ANY KERB WITHIN 15m OF THE SITE OR A COUNCIL PIPE IS AVAILABLE, THE ROOF WATER IS TO DRAIN BY GRAVITY FROM THE BOUNDARY TO THE COUNCIL SYSTEM VIA A SILT/LITTER ARRESTOR PIT. WHERE A GRAVITY DISCHARGE TO THE COUNCIL SYSTEM IS NOT VIABLE THE CHARGED PIPE MAY CONNECT DIRECTLY TO THE KERB.
   (B) FLAP (REFLUX) VALVES ARE TO BE INSTALLED ON THE OUTLET PIPES FROM THE CHARGED SYSTEM THAT DISCHARGE TO THE SILT/LITTER ARRESTOR PIT TO MINIMISE MOSQUITO NUISANCE.
   (C) THE LOWEST LEVEL OF THE CHARGED SYSTEM SHALL DRAIN BY GRAVITY TO A SMALL INSPECTION PIT (600mm x 600mm MIN.) WITH SUMP FOR CLEANING. There shall be a minimum of ONE METRE OF PIPE FROM THE LAST DOWNPIPE TO THE INSPECTION PIT. THE CONNECTION TO THE PIT IS TO HAVE A SEALED SCREW CAP TO ALLOW FOR PERIODIC CLEANING AND REMOVAL OF RUBBISH. THE CAP IS TO HAVE A 5mm DRIBBLE HOLE TO ALLOW TRAPPED WATER TO DISCHARGE SLOWLY. REFER TO CHARGED PIPE CLEAN-OUT PIT DETAIL.
   (D) ONLY SEWER GRADE PVC OR PRESSURE PIPES ARE TO BE USED TO CONVEY CHARGED FLOWS.
   (E) ALL PIPES AND DOWNPIPES ARE TO BE SEALED TO A MINIMUM OF 0.5m ABOVE THE MAXIMUM WATER LEVEL IN THE SYSTEM. THE SYSTEM SHALL BE PRESSURE TESTED PRIOR TO BACKFILLING. THE USE OF EXPOSED PIPELINE SHALL BE MINIMISED.
   (F) ALL GUTTERS MUST HAVE LEAF GUTTER GUARDS INSTALLED AND UNDERTAKE REGULARLY CLEANING OF THE DOWNPIPES TO ENSURE EFFECTIVENESS OF THE SYSTEM.
2. REQUIREMENTS FOR CHARGED PIPE SYSTEMS FOR ROOF SYSTEMS:
   (A) THE EAVE GUTTER LEVEL SHALL BE A MINIMUM OF 0.6m AN PREFERABLY 1.6m ABOVE THE HIGHER OF THE TOP OF THE KERB OUTLET OR THE TOP STORAGE LEVEL (E.G. RAINWATER TAKN). WHERE THE HEIGHT IS BEWTEEN 0.5m AND 1.5m AN ANALYSIS OF HEAD LOSSES SHALL BE PROVIDED.
3. REQUIREMENTS FOR CHARGED PIPE SYSTEMS FOR ABOVEGROUND RAINWATER TANKS:
   (A) THE OVERFLOW FROM THE RAINWATER TANK IS TO BE A MINIMUM OF 0.5m AND PREFERABLY 1.5m ABOVE THE TOP OF THE KERB OUTLET. WHERE THE HEIGHT IS BEWTEEN 0.5m AND 1.5m AN ANALYSIS OF HEAD LOSSES SHALL BE PROVIDED.
   (B) THE INLET PIPES FROM THE ROOF SYSTEM TO THE RAINWATER TANK MAY ENTER DIRECTLY, OR THROUGH A CHARGE SYSTEM, WHERE A CHARGE SYSTEM IS USED EACH LINE WILL HAVE A CLEAN-OUT PIT.
   (C) FLAP VALVES ARE TO BE INSTALLED ON THE INLET PIPES TO THE RAINWATER TANK FROM THE CHARGED SYSTEM TO MINIMISE MOSQUITO NUISANCE.
   (D) THE DESIGN AND INSTALLATION SHALL COMPLY WITH HB 230 - RAINWATER TANK DESIGN AND INSTALLATION HANDBOOK.



FOR APPROVAL

www.dialbeforeyoudig.com.au
DIAL BEFORE YOU DIG

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
1	ISSUED FOR D.A. SUBMISSION	HW	DY	28/02/2022

CLIENT
-

ARCHITECT
FEMME BUILD

CATES CONSULTING ENGINEERS
Address: 30 Nambour Road, Engadine New South Wales 2233, Australia
Telephone: (02) 8501 4689
Email: info@cates.com.au

PROJECT
PROPOSED CHILDCARE AND DWELLINGS
21-23 ELLIS STREET, CONDELL PARK NSW 2200

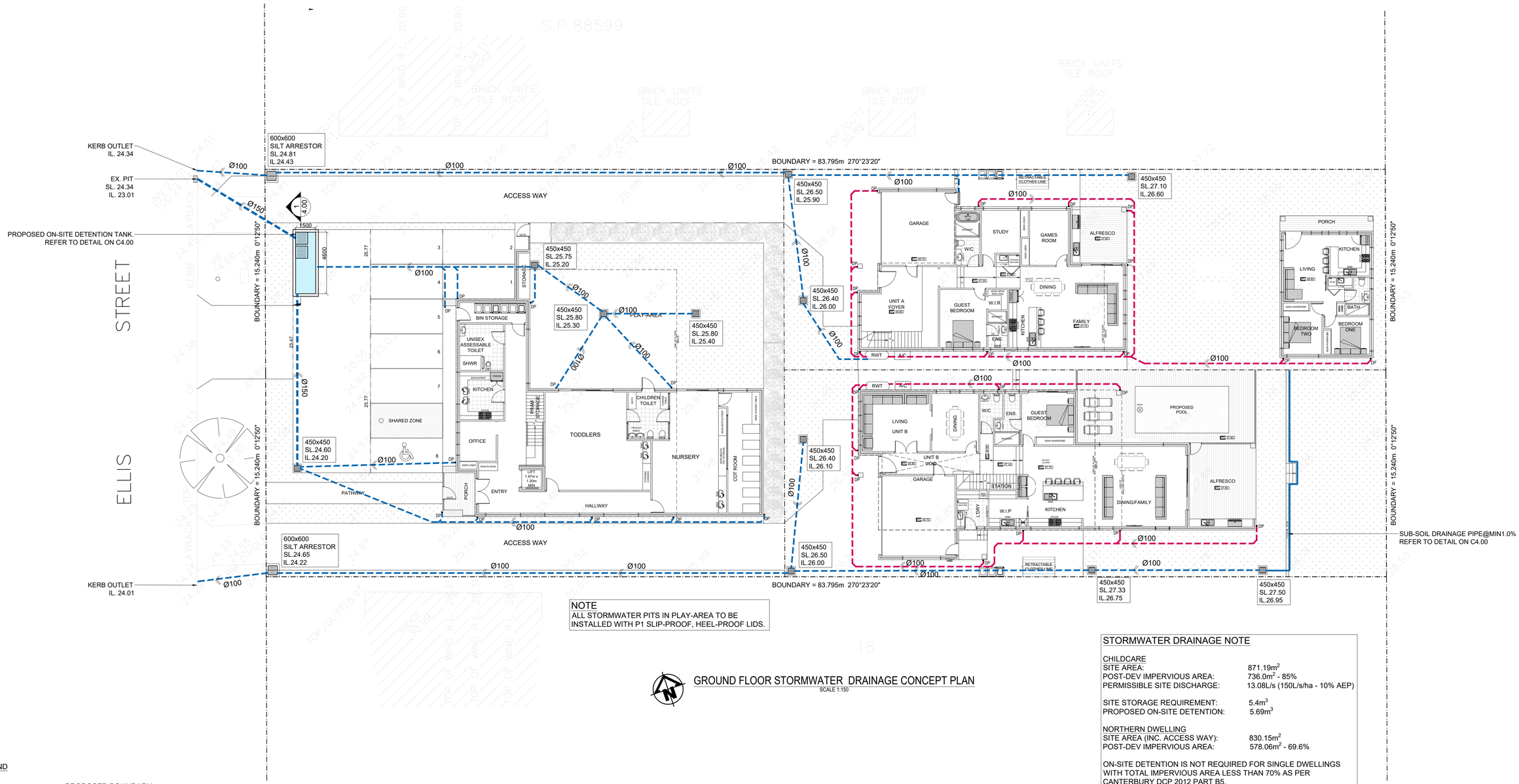
TITLE
GENERAL NOTES & LOCALITY PLAN

DRAWN	DESIGNED	DATE
HW	DY	FEBUARY 2022
CHECKED	APPROVED	SCALE
DY	DY	NOT TO SCALE

DRAWING NUMBER
22037 C1.00

REVISION
1

A1



NOTE
ALL STORMWATER PITS IN PLAY-AREA TO BE INSTALLED WITH P1 SLIP-PROOF, HEEL-PROOF LIDS.

GROUND FLOOR STORMWATER DRAINAGE CONCEPT PLAN
SCALE 1:150

LEGEND

- PROPOSED BOUNDARY
- 25.60 PROPOSED CONTOUR
- 25.90 EXISTING SPOT LEVEL
- PROPOSED SURFACE INLET PIT
- Ø100 Ø100 PIPE @1% MIN. FALL U.N.O
- Ø150 Ø150 PIPE @1% MIN. FALL U.N.O
- Ø100 Ø100 CHARGED PIPE U.N.O
- PROPOSED BELOW GROUND OSD
- PO PLANTER DRAIN
- FW Ø150 OR 150 SQR SPS FLOOR DRAIN U.N.O
- DP Ø100 DOWNPIPE U.N.O.
- SP DOWNPIPE SPREADER

STORMWATER DRAINAGE NOTE

CHILDCARE
SITE AREA: 871.19m²
POST-DEV IMPERVIOUS AREA: 736.0m² - 85%
PERMISSIBLE SITE DISCHARGE: 13.08L/s (150L/s/ha - 10% AEP)

SITE STORAGE REQUIREMENT: 5.4m³
PROPOSED ON-SITE DETENTION: 5.69m³

NORTHERN DWELLING
SITE AREA (INC. ACCESS WAY): 830.15m²
POST-DEV IMPERVIOUS AREA: 578.06m² - 69.6%

ON-SITE DETENTION IS NOT REQUIRED FOR SINGLE DWELLINGS WITH TOTAL IMPERVIOUS AREA LESS THAN 70% AS PER CANTERBURY DCP 2012 PART B5.

SOUTHERN DWELLING
SITE AREA (INC. ACCESS WAY): 851.74m²
POST-DEV IMPERVIOUS AREA: 594.51m² - 69.8%

ON-SITE DETENTION IS NOT REQUIRED FOR SINGLE DWELLINGS WITH TOTAL IMPERVIOUS AREA LESS THAN 70% AS PER CANTERBURY DCP 2012 PART B5.

FOR APPROVAL

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
1	ISSUED FOR D.A. SUBMISSION	HW	DY	28/02/2022

CLIENT
-

ARCHITECT
FEMME BUILD

CATES CONSULTING ENGINEERS
Address: 30 Nambour Road, Engadine New South Wales 2233, Australia
Telephone: (02) 8501 4689
Email: info@cates.com.au

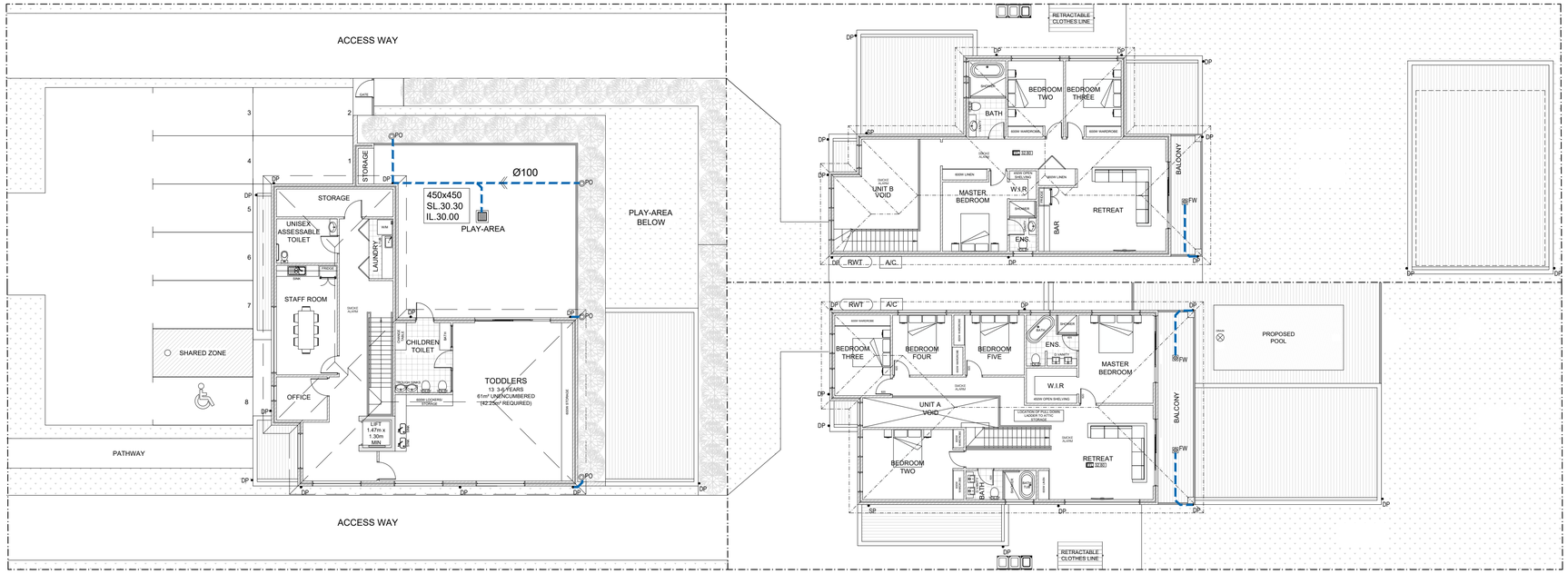
PROJECT
PROPOSED CHILDCARE AND DWELLINGS
21-23 ELLIS STREET, CONDELL PARK NSW 2200

TITLE
GROUND FLOOR STORMWATER DRAINAGE PLAN

DRAWN	DESIGNED	DATE
HW	DY	FEBUARY 2022
CHECKED	APPROVED	SCALE
DY	DY	1:150

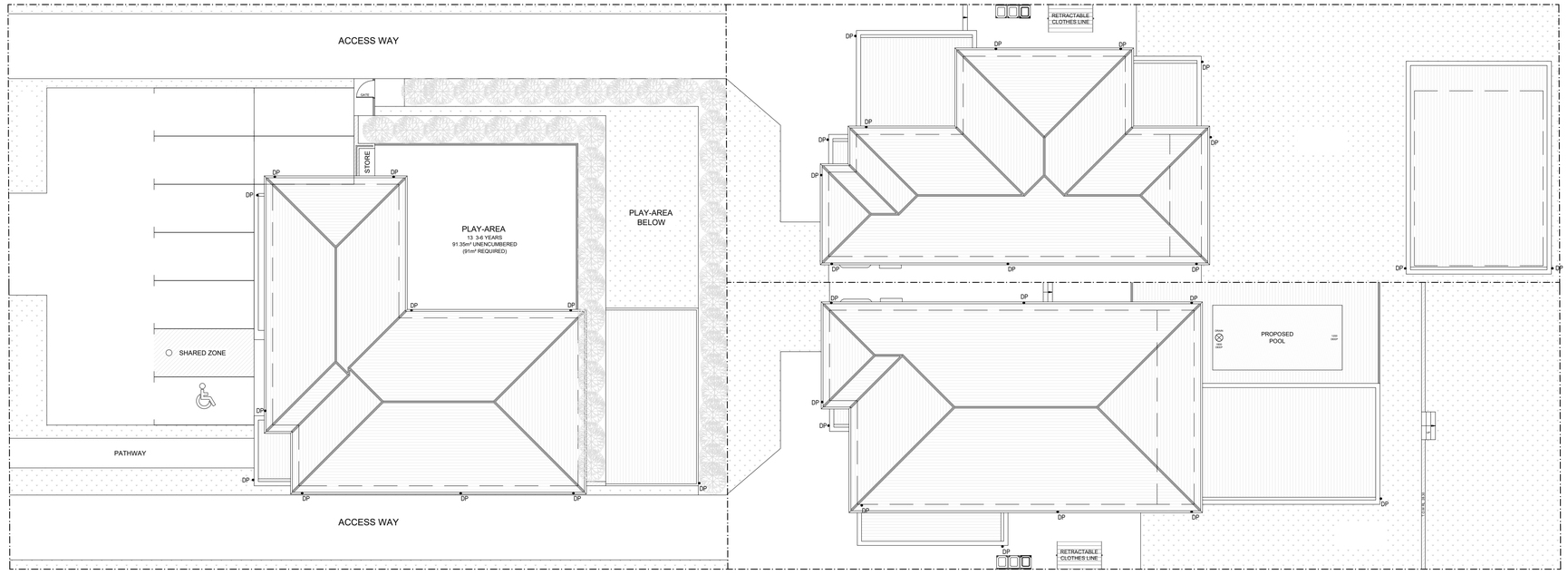
DRAWING NUMBER: 22037 C2.00
REVISION: 1

A1



NOTE
ALL STORMWATER PITS IN PLAY-AREA TO BE INSTALLED WITH P1 SLIP-PROOF, HEEL-PROOF LIDS.

FIRST FLOOR STORMWATER DRAINAGE CONCEPT PLAN
SCALE 1:150



ROOF STORMWATER DRAINAGE CONCEPT PLAN
SCALE 1:150

LEGEND

- PROPOSED BOUNDARY
- 25.60 — PROPOSED CONTOUR
- 25.90 — EXISTING SPOT LEVEL
- PROPOSED SURFACE INLET PIT
- Ø100 — Ø100 PIPE @1% MIN. FALL U.N.O
- Ø150 — Ø150 PIPE @1% MIN. FALL U.N.O
- Ø100 — Ø100 CHARGED PIPE U.N.O
- PROPOSED BELOW GROUND OSD
- PO — PLANTER DRAIN
- FW — Ø150 OR 150 SQR SPS FLOOR DRAIN U.N.O
- DP — Ø100 DOWNPIPE U.N.O.
- SP — DOWNPIPE SPREADER

FOR APPROVAL

www.dialbeforeyoudig.com.au
DIAL BEFORE YOU DIG

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
1	ISSUED FOR D.A. SUBMISSION	HW	DY	28/02/2022

CLIENT
-

ARCHITECT
FEMME BUILD

CATES CONSULTING ENGINEERS
Address: 30 Nambour Road, Engadine New South Wales 2233, Australia
Telephone: (02) 8501 4689
Email: info@cates.com.au

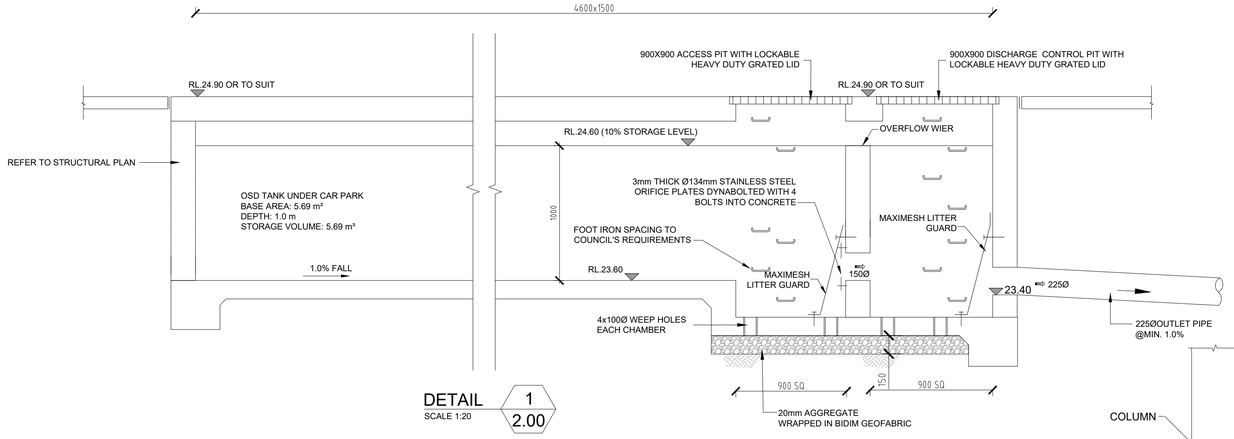
PROJECT
PROPOSED CHILDCARE AND DWELLINGS
21-23 ELLIS STREET, CONDELL PARK NSW 2200

TITLE
UPPER LEVEL STORMWATER DRAINAGE PLAN

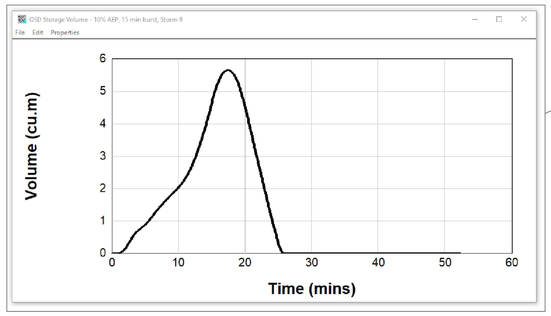
DRAWN	DESIGNED	DATE
HW	DY	FEBUARY 2022
CHECKED	APPROVED	SCALE
DY	DY	1:150

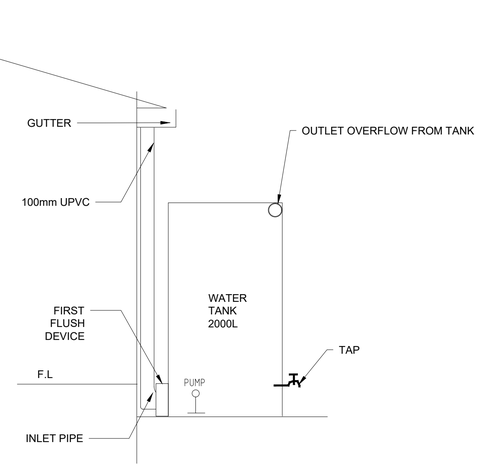
DRAWING NUMBER: 22037 C3.00
REVISION: 1

A1

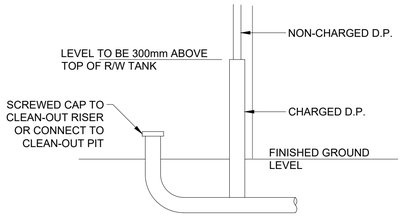


DETAIL 1/2.00
SCALE 1:20

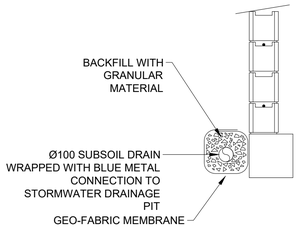




TYPICAL WATER TANK SECTION WITH FIRST FLUSH DEVICE
N.T.S.

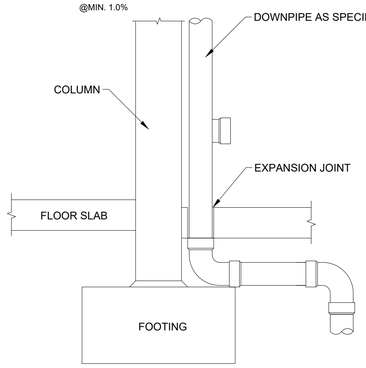


STORMWATER CHARGED SYSTEM CLEAN-OUT DETAIL
N.T.S.

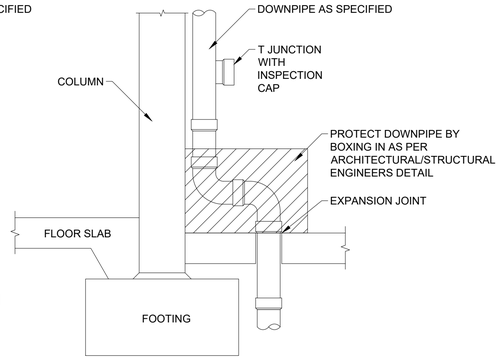


TYPICAL RETAINING WALL DRAINAGE DETAIL
SCALE 1:20

NOTE: WALL STRUCTURAL DESIGN TO STRUCTURAL ENGINEER'S DETAILS

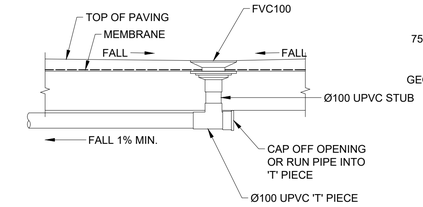


SUFFICIENT CLEARANCE FROM TOP OF COLUMN FOOTING TO PAVEMENT SLAB

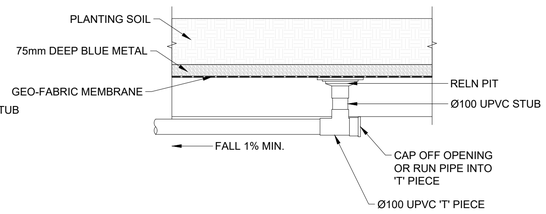


TOP OF COLUMN FOOTING AT SHALLOW PATH

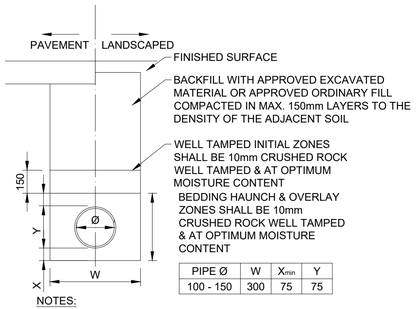
DOWNPIPE ADJACENT TO COLUMN - TYPICAL DETAIL
SCALE 1:20



TYPICAL BALCONY FLOOR DRAIN DETAIL
SCALE 1:20



TYPICAL PLANTER DRAIN DETAIL
SCALE 1:20

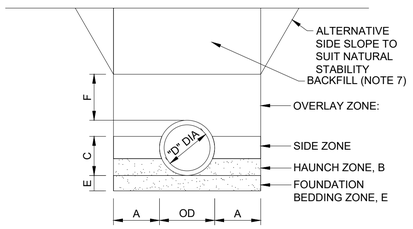


PIPE Ø	W	X_{min}	Y
100 - 150	300	75	75

NOTES:

1. BACKFILL CRUSHED ROCK WETMIX. PLACED & COMPACTED IN MAX. 150mm LAYERS TO 95% MODIFIED MAX. DRY DENSITY.
2. REFER TO PIPE LAYING SPECIFICATIONS FOR DETAILS

TYPICAL PIPE LAYING DETAILS
N.T.S.



TRENCH INSTALLATION - SINGLE PIPE

TYPE HS3 SUPPORT FOR STORMWATER PVC PIPES
SCALE 1:20

NOMINAL INTERNAL DIAMETER D	NOMINAL EXTERNAL DIAMETER OD	MINIMUM WIDTH A	HAUNCH DEPTH, B	SIDE PLUS HAUNCH DEPTH, C	FOUNDATION BEDDING E	SPACING BETWEEN CULVERTS S
150	170	150			75	150
225	250	150			75	150
300	362	300	110	255	100	300
375	445	300	135	310	100	300

OVERLAY ZONE F = 300mm MINIMUM

TRENCH NOTES:

1. WINGWALLS: FILL/BACKFILL MATERIAL SHALL BE PLACED 300 WIDE BEHIND WINGWALLS FOR THE LENGTH AND HEIGHT OF THE WALLS.
2. OVERLAY MATERIAL: MATERIAL PROPERTIES AND COMPACTION SHALL BE AS FOR THE SIDE ZONE.
3. SIDE SUPPORT COMPACTION: THE TRENCH WALLS SHALL HAVE A DENSITY AND STIFFNESS NOT LESS THAN THOSE OF THE ADJACENT COMPACTED FILL FOR A MINIMUM WIDTH 2500 EACH SIDE OF THE TRENCH AND TO A MINIMUM HEIGHT OF 700 ABOVE THE BOTTOM OF THE PIPE.
4. WORKING LOADS ARE THOSE DUE TO FILL MATERIAL AND STANDARD HIGHWAY VEHICLES AS PER AS 3725. CONSTRUCTION LOADS HAVE NOT BEEN ALLOWED FOR.
5. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
6. ALL BEDDING, HAUNCH, SIDE ZONE & OVERLAY ZONE SHALL CONSIST OF COURSE GRADED SAND.
7. BACKFILL SHALL CONSIST OF GRANULAR OR SANDY FILL WHERE UNDER THE ZONE OF INFLUENCE OF PAVEMENTS OR STRUCTURES OR GENERAL FILL COMPACTED TO 95% SMDD WHERE UNDER LANDSCAPED AREAS.

REFERENCED DOCUMENTS:

1. AUSTRALIAN STANDARDS AS 3725-1989 LOADS ON BURIED CONCRETE PIPES
2. RTA QA MODEL SPECIFICATION PART R11 STORMWATER DRAINAGE.

TRENCH PROFILE:

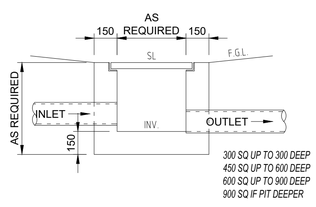
ALL TRENCH BEDDING BACKFILL MUST BE NON COHESIVE & COMPLY WITH THE FOLLOWING GRADING TABLES:

(A) BEDDING & HAUNCH ZONE

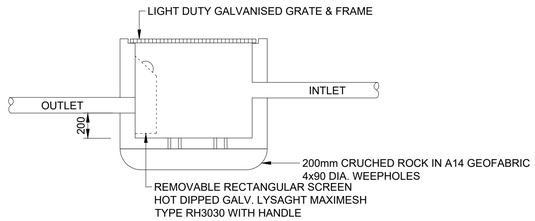
SIEVE SIZE (mm)	19	2.36	0.6	0.3	0.15	0.075
% MASS PASSING	100	100-50	90-20	60-10	25-0	10-0

(B) OVERLAY ZONE & BACKFILL UP TO SUBGRADE LEVEL IN CARRIAGEWAYS & UNDER KERB & GUTTER

SIEVE SIZE (mm)	75	9.5	2.36	0.6	0.15
% MASS PASSING	100	100-50	100-30	50-15	0



TYPICAL PIT DETAIL
SCALE 1:20



600x600SILT ARRESTOR PIT DETAIL
N.T.S.

FOR APPROVAL

www.dialbeforeyoudig.com.au
DIAL BEFORE YOU DIG

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
1	ISSUED FOR D.A. SUBMISSION	HW	DY	28/02/2022

CLIENT
-

ARCHITECT
FEMME BUILD

CATES CONSULTING ENGINEERS
Address: 30 Nambour Road, Engadine New South Wales 2233, Australia
Telephone: (02) 8501 4689
Email: info@cates.com.au

PROJECT
PROPOSED CHILDCARE AND DWELLINGS
21-23 ELLIS STREET, CONDELL PARK NSW 2200

TITLE
STORMWATER DRAINAGE DETAILS

DRAWN	DESIGNED	DATE
HW	DY	FEBUARY 2022
CHECKED	APPROVED	SCALE
DY	DY	AS SHOWN

DRAWING NUMBER
22037 C4.00

REVISION
1