		Regulated D	Design R	lecord	
Proje	ct Address: 1	TRACEY AVENUE	E, CARL	INGFORD, NSW	
Proje	ct Title: PROF	POSED CHILDCAF	RE CEN	TRE	
Cons	ent No:		Body C	orporate Reg No:	
Draw	ing Title:STO	RMWATER PLAN	Drawinę	g No: SW23120-S	W001
Rev	Date dd.mm.yy	Description	_	DP Full Name	Reg No
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GENERAL NOTES:

ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS, BUILDING CODE OF AUSTRALIA, NSW CODE OF PRACTICE AND THE TO THE RELEVANT SERVICE CODES.

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT FOR DECISION BEFORE PROCEEDING WITH THE WORK.

ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE IN MILLIMETERS (U.N.O.). DIMENSIONS SHALL NOT BE OBTAINED BY SCALING OF THESE DRAWINGS. USE FIGURED DIMENSIONS ONLY.

BENCHMARKS HAVE BEEN ESTABLISHED WHERE INDICATED ON THE DRAWINGS. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.). THE CONTRACTOR SHALL UNDERTAKE ALL NECESSARY SURVEY WORK TO ENSURE THAT THE WORKS ARE CONSTRUCTED TO DESIGN LINE AND LEVEL.

SETTING OUT DIMENSIONS AND LEVELS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR.

ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT SAA CODES AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SAFETY FENCES, WARNING SIGNS, TRAFFIC DIVERSIONS AND THE LIKE DURING CONSTRUCTION. ALL WORKS TO COMPLY WITH WORK HEALTH AND SAFETY REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY REQUIREMENTS.

NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.

WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.

ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND THESE SPECIFICATIONS.

DESIGN LEVELS GIVEN ARE TO FINISHED SURFACE LEVEL AND INCLUSIVE OF TOPSOIL. (TOPSOIL DEPTH VARIES)

THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A N.A.T.A. REGISTERED SURVEYOR.

CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER TELECOMMUNICATIONS OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THE DRAWING HAVE BEEN PLOTTED FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES. THIS INFORMATION HAS BEEN PREPARED SOLELY FOR THE AUTHORITIES OWN USE AND MAY NOT NECESSARILY BE UPDATED OR ACCURATE.

THE POSITION OF SERVICES AS RECORDED BY THE AUTHORITY AT THE TIME OF INSTALLATION MAY NOT REFLECT CHANGES IN THE PHYSICAL ENVIRONMENT SUBSEQUENT TO INSTALLATION.

CAPITAL ENGINEERING CONSULTANTS DOES NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THE DRAWING SHOWS MORE THAN THE PRESENCE OR ABSENCE OF SERVICES, AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FROM THE UTILITY SERVICES AUTHORITIES A CURRENT COPY OF UNDERGROUND SERVICES SEARCH FOR THE LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORK AND NOTIFY ANY CONFLICT WITH THE DRAWINGS IMMEDIATELY. CLEARANCE SHALL BE OBTAINED FROM THE RELEVANT REGULATORY AUTHORITY. CONTRACTOR TO KEEP COPY OF UNDERGROUND SERVICES SEARCH ON SITE AT ALL TIMES. ANY DAMAGES TO SERVICES OR SERVICES ADJUSTMENTS SHALL BE CARRIED OUT BY THE CONTRACTOR OR RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE.

VISIT THE SITE BEFORE SUBMITTING THE FINAL TENDER PRICE TO ASSESS 'ON SITE' CONDITIONS. FAILURE TO DO SO WILL FORFEIT ANY CLAIM FOR NOT BEING AWARE OF CONDITIONS AFFECTING THE TENDER.

THE CONTRACTOR SHALL PREPARE ACCURATE WORK-AS-EXECUTED DRAWINGS FOLLOWING THE COMPLETION OF ALL WORKS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE IN PLACE & MAINTAIN TRAFFIC FACILITIES AT ALL TIMES DURING CONSTRUCTION.

'되망 1 TRACEY AVENUE, CARLINGFORD, NSW

STORMWATER NOTES:

ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE AS3500.3-2018: 'STORMWATER DRAINAGE'

FOR STORMWATER DRAINAGE PIPES THAT EXCEED 1:5 GRADE, REINFORCED CONCRETE ANCHOR BLOCKS SHALL BE INSTALLED. ANCHOR BLOCKS TO BE CONSTRUCTED TO SPECIFICATIONS SET OUT IN AS3500.3-2018.

COORDINATE THE INSTALLATION OF NEW SERVICES WITH ALL NEW & EXISTING SERVICES & STRUCTURAL PROVISIONS AS DETERMINED ON SITE.

ALL PIPEWORK TO BE SUPPORTED IN ACCORDANCE WITH AS3500.3-2018.

ALL PIPEWORK IS TO BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS AS SET DOWN IN AS3500.3-2018. ALL IN-GROUND PIPEWORK TO BE INSPECTED BY THE SUPERINTENDENT UNDER TEST CONDITIONS PRIOR TO BACKFILLING.

PIPES SHALL BE TRUE TO GRADES SHOWN AND ALIGNED SO THAT THE CENTRE OF THE INLET PIPE INTERSECTS WITH THE CENTRE OF THE OUTLET PIPE AT THE DOWNSTREAM FACE OF THE PIT.

BED ALL PIPES FIRMLY AND EVENLY WITH IMPORTED FILL ONLY. THICKNESS OF BEDDING LAYER SHALL BE 75mm IN SOIL AND 200mm IN ROCK.

LAY AND JOINT ALL PIPES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS3725-2007: 'DESIGN FOR INSTALLATION OF BURIED CONCRETE PIPES'.

ALLOW TO TEST ALL PIPES AND PITS TO LOCAL AUTHORITY'S REQUIREMENTS.

EXCAVATE TRENCHES AND STOCKPILE ALL MATERIAL FOR INSPECTION WITH REGARD TO REUSE FOR TRENCH BACKFILL. REMAINING MATERIAL TO BE REMOVED FROM SITE.

BACKFILL PIPES WITH IMPORTED FILL. PROVIDE 200mm SIDE SUPPORT AND 150mm OVERLAY ABOVE PIPE CROWN. TRENCH FILL ABOVE THE EMBEDMENT ZONE TO THE UNDERSIDE OF THE ROAD PAVEMENT OR THE FOOTWAY SHALL BE AS FOLLOW: -

UNDER ROADWAY TRENCH FILL MATERIAL SHALL CONSIST OF IMPORTED FILL AS SPECIFIED HEREIN OF EITHER HIGH GRADE COMPACTION SAND OR APPROVED CRUSHED ROAD GRAVEL CONFORMING TO RMS QA SPECIFICATION 3051 OR SIMILAR.

OTHER THAN ROADWAY TRENCH MATERIAL EXCAVATED SHALL CONSIST OF SELECT FILL AS SPECIFIED HEREIN AND SHALL NOT CONTAIN MORE THAN 20% OF STONES OF SIZE BETWEEN 25mm AND 75mm AND NONE LARGER THAN 75mm. PRIOR TO USE OF THE EXCAVATED MATERIAL IT SHALL BE INSPECTED AND APPROVED BY THE ENGINEER.

COMPACT BEDDING. EMBEDMENT AND TRENCH FILL MATERIALS AS FOLLOW: -EMBEDMENT: -

FOR GRANULAR FILL MATERIAL (NON-COHESIVE SOIL) e.g. COARSE AGGREGATE FILL, THE DENSITY INDEX (ID) SHALL BE NOT LESS THAN 70%.

TRENCH FILL: -FOR GRANULAR MATERIAL (NON COHESIVE SOILS). THE DENSITY INDEX (ID) SHALL BE NOT LESS THAN 70%. FOR NON-GRANULAR FILL MATERIAL (COHESIVE SOILS), THE DRY DENSITY RATIO (RD) SHALL BE NOT LESS THAN 95%.

UTILITY INFORMATION SHOWN ON THE PLANS IS NOT INTENDED TO DEPICT MORE THAN THE PRESENCE OF ANY SERVICES. ACTUAL LOCATIONS SHOULD BE VERIFIED BY HAND EXCAVATION PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF ALL EXISTING SERVICES IN AREAS AFFECTED BY THE WORKS

GEOTEXTILE FABRIC MATERIAL TO BE BIDIM A24 OR APPROVED EQUIVALENT AND SHALL COMPLY WITH AS3705-2012: 'GEOTEXTILES - IDENTIFICATION, MARKING AND GENERAL DATA'

THE CONTRACTOR SHALL ENSURE THAT SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED AT ALL TIMES. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING WHERE REQUIRED. ONCE THE WORKS ARE COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD ALL DISTURBED AREAS.

С	FOR APPROVAL
В	FOR APPROVAL
А	FOR APPROVAL
Rev	Description

C.S. M.W. 13/07/2023

C.S. M.W. 05/07/2023

P.C. M.W. 28/04/2023

By Chk Date

PROPOSED CHILDCARE CENTRE 1 TRACEY AVENUE, CARLINGFORD, NSW

["]P.C.



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P.C.

Approved

P.E.

STORMWATER NOTES (CONT):

EXISTING PIPES WHICH FORM NO PART OF THE DRAINAGE SYSTEM SHALL BE REMOVED OR SEALED AS INDICATED ON THE PLANS. PIPES UP TO 300mm DIAMETER SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS (U.N.O.). ALL PIPE JUNCTIONS AND TAPERS SHALL BE VIA PURPOSE MADE FITTINGS.

WHERE DOWNPIPES PASS UNDER FLOOR SLABS, SEWER GRADE uPVC WITH RUBBER RING JOINTS ARE TO BE USED.

MINIMUM GRADE TO DRAINAGE PIPES TO BE 1% (U.N.O.), MIN. SIZE 100mm DIAMETER (U.N.O.).

PIPES LARGER THAN OR EQUAL TO 300mm DIAMETER TO BE REINFORCED CONCRETE RUBBER RING JOINTED TYPE (CLASS 2) MANUFACTURED TO AS4058 (U.N.O.).

PIPE INSTALLATION UNDER TRAFFICABLE AREAS SHALL BE IN ACCORDANCE WITH CONCRETE PIPE ASSOCIATION OF AUSTRALIA PUBLICATION "CONCRETE PIPE SELECTION & INSTALLATION" TYPE HS3 SUPPORT.

EQUIVALENT STRENGTH FRC PIPES MAY BE USED SUBJECT TO AUTHORITY APPROVAL.

MINIMUM PIPE COVER TO BE 600mm UNDER TRAFFICABLE AREAS AND 300mm ELSEWHERE (U.N.O.).

CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.

PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS.

STORMWATER DRAINAGE CONNECTIONS TO COUNCIL'S SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL.

PITS DEEPER THAN 1200mm TO BE FITTED WITH STEP IRONS AT 300 CENTRES TO AS1657-2013: FIXED PLATFORMS, WALKWAYS, STAIRWAYS AND LADDERS - DESIGN, CONSTRUCTION AND INSTALLATION'.

ALL EXPOSED EDGES TO BE ROUNDED WITH 20mm RADIUS, OR CHAMFERED 20mm x 20mm.

PIT REINFORCEMENT - MESH SL82 LAP TO BE 400mm MIN. CLEAR COVER 40 MIN. CAST AGAINST BLINDING OR FORMWORK. CORNER RETURNS MAY BE FABRIC OR EQUIVALENT BARS.

BENCHING TO BE HALF OUTGOING PIPE DEPTH. CONCRETE FOR BENCHING TO BE 20MPa MASS CONCRETE.

BRICKWORK, BLOCKWORK, CONCRETE OR APPROVED PRECAST PITS ARE TO BE USED IN TRAFFICABLE AREAS SUBJECT TO APPROVAL.

FIBREGLASS. HARD-PLASTIC OR APPROVED PRECAST PITS ARE TO BE USED IN NON-TRAFFICABLE AREAS SUBJECT TO APPROVAL.

100mm DIAMETER HOLE FOR SUBSOIL DRAINAGE OUTLET TO BE LOCATED 100mm ABOVE INVERT OF ALL INLET PIPES. SUBSOIL DRAINAGE TO EXTEND FOR A DISTANCE OF 3m UPSTREAM OF PIT (AT EACH INLET TRENCH) WITH THE UPSTREAM END SEALED.

ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.

PIT GRATE, FRAMES AND SOLID COVERS SHALL BE CLASS B IN NON TRAFFIC AREAS AND CLASS C IN TRAFFICABLE AREAS IN ACCORDANCE WITH AS3996 U.N.O.

ALL GRATES SHALL BE PROVIDED WITH A 'J-LOCK' TYPE LOCKING CLIPS.

GRATES TO PITS IN FOOTPATH AREAS SHALL BE HEEL SAFE COMPLYING WITH THE DISABLED ACCESS CODE

PIT GRATING TO BE GALVANISED STEEL TYPE 'WELDLOK' OR APPROVED EQUIVALENT

SUBSOIL PIPES SHALL BE LAID AT A MIN GRADE OF 1% (U.N.O.).

ADDITIONAL SUBSOIL DRAINAGE SHALL BE LAID TO SUIT SITE CONDITIONS AND GROUNDWATER PRESENCE AS DIRECTED. SUBSOIL PIPES SHALL BE LAID BEHIND KERBS IN CUT AREAS OF THE SITE.

PROVIDE A MINIMUM OF 150mm GRAVEL AROUND SUBSOIL PIPE TRENCH TO BE LINED WITH GEOTEXTILE FABRIC TYPE BIDIM A24

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DESIGN&BUILDINGGROU

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SURVEY

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN.

CAPITAL ENGINEERING CONSULTANTS DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION OR DESIGN.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT CAPITAL ENGINEERING CONSULTANTS.

ABBREVIATIONS:

ø or DIA CBR CH	DIAMETER CALIFORNIA BEARING RATIO CHAINAGE	LEGEN
CL CO DD	CENTER LINE CLEAR OUT DISH DRAIN	• D
DDO DEJ DGB DGS	DISH DRAIN OUTLET DOWELLED EXPANSION JOINT DENSE GRADED BASECOURSE DENSE GRADED SUB-BASE	>>>
DP	DOWNPIPE	>>>
FFL GTD GSIP	FINISHED FLOOR LEVEL GRATED TRENCH DRAIN GRATED SURFACE INLET PIT	OF
HYD IJ IK	HYDRANT ISOLATING JOINT INTEGRAL KERB	SWR
IP KIP KO	INVERTILEVEL INTERSECTION POINT KERB INLET PIT KERB ONLY	
K&G KR	KERB & GUTTER KERB RETURN	
NGL OFP OSD	NATURAL GROUND LEVEL OVERLAND FLOW PATH ON-SITE DETENTION	w ·
R RCP RK RI	RADIUS REINFORCED CONCRETE PIPE ROLL KERB & GUTTER REDUCED EVEL	G
	RETAINING WALL RAINWATER TANK	
SJ SMH	SAWN CONTROL JOINT SEWER MAN HOLE STORMWATER	— FO— FO
SWP SWRM SWS	STORMWATER PIT STORMWATER RISING MAIN STORMWATER SUMP	TEL
SV TOK TOW	STOP VALVE TOP OF KERB TOP OF WALL	/
TWL TP	TOP WATER LEVEL TANGENT POINT	
UPVC UNO WPJ FF	UNPLASTICISED POLYVINYL CHLORIDE UNLESS NOTED OTHERWISE WEAKENED PLANE JOINT FIRST FLUSH DEVICE	
TYP BM	TYPICAL BENCH MARK	

DRAWING REGISTER			
NUMBER	NAME	REVISION	
SW001	COVER SHEET	С	
SW010	BASEMENT PLAN, NOTES & DETAILS	С	
SW020	GROUND FLOOR PLAN, NOTES & DETAILS (1/2)	С	
SW021	GROUND FLOOR PLAN, NOTES & DETAILS (2/2)	С	
SW022	ON-SITE DETENTION PLAN, NOTES & DETAILS	С	
ER001	EROSION & SEDIMENT CONTROL PLAN	С	

EGEND:

● DP	DOWNPIPE	eSMH	EXISTING SEWER MANHOLE
	STORMWATER LINE		EVICTING JUNCTION DIT
	STORMWATER LINE DRAINING TO RWT		EXISTING JUNCTION PIT
OF	OVER FLOW PIPE		EXISTING KERB INLET PIT
— —— SSD——	SUBSOIL LINE	etel	EXISTING TELSTRA PIT
SWRM	STORMWATER RISING MAIN	🗎 eHYD	EXISTING HYDRANT
e	EXISTING STORMWATER LINE	⊠ eSV	EXISTING STOP VALVE
S	AUTHORITY SEWER LINE	🛛 eGAS	EXISTING GAS VALVE
W	AUTHORITY WATER LINE	⊖ ePP	EXISTING POWER POLE
G G	AUTHORITY GAS LINE		EXISTING GRATED SURFACE INLET PIT
— —— E —	AUTHORITY ELECTRICITY LINE	Ø FF	FIRST FLUSH
– FO FO FO	AUTHORITY FIBRE OPTIC LINE	Ø RWO	RAINWATER OUTLET
TEL	AUTHORITY COMMS LINE	⊘ CO	CLEAR OUT POINT
//////	SEDIMENT FENCE	Ø DDO	DISH DRAIN OUTLET
	GRATED SURFACE INLET PIT	Ø PD	PLANTER DRAIN
	GRATED SURFACE INLET PIT WITH OCEANGUARD INSERT	C	CAPPING
		Ø RH	RAINHEAD
	SEALED JUNCTION PIT	FTTT SP	DOWNPIPE SPREADER
	PROPOSED KERB INLET PIT	-	WARNING LIGHT
	GRATED TRENCH DRAIN	♥ [144.37]	SPOT LEVELS
(R/W TANK)	RAINWATER RE-USE TANK	Δ	BENCHMARK
	PROPOSED RETAINING WALL		OVERLAND FLOW PATH



DIAL BEFORE YOU DIG SHOULD BE CONTACTED PRIOR TO ANY EXCAVATION ON SITE

TM: TRADE MARK OF THE ASSOCIATION OF DIAL BEFORE YOU DIG SERVICES LTD. USED UNDER LICENSE.

FOR COUNCIL APPROVAL ONLY (CONCEPT)

FOR COUNCIL / CONSTRUCTION CERTIFICATE ISSUE **APPROVED BY:** DATE:

NER









Title



B.E. (Civil), M.E. (Structural & Foundation EAust, CPEng No. 3132148, NER, RPEQ.



COVER SHEET



Project Number

SW23120



Drawing Number SW001



Revision



		Regulated E	Design R	ecord	
Proje	ct Address: 1	TRACEY AVENUE	E, CARL	INGFORD, NSW	
Proje	ct Title: PROF	POSED CHILDCAF	RE CEN	TRE	
Cons	ent No:		Body C	orporate Reg No:	
Draw	ing Title:STO	RMWATER PLAN	Drawing	g No: SW23120-SW	/020
Rev	Date dd.mm.yy	Description	-	DP Full Name	Reg No

DESIGN	NOTES:

SITE IS LOCATED IN PARRAMATTA CITY COUNCIL.

RAINWATER TANK TO BE EQUIPPED WITH FIRST FLUSH AND MOSQUITO PROTECTION DEVICES (REFER DETAIL).

ALL STORMWATER PIPES TO HAVE A MINIMUM OF 100mm CONCRETE OR 300mm TOPSOIL COVER U.N.O.

INSTALL CLEAR OUT FOR INSPECTION AND MAINTENANCE PURPOSES WHERE REQUIRED (TYP).

ALL DOWNPIPES AND STORMWATER PIPES SHOWN ON PLAN ARE Ø100mm uPVC AND SLOPE AT 1% U.N.O (TYP).

PROPOSED DOWNPIPE LOCATIONS ARE NOMINAL AND TO BE CONFIRMED DURING CONSTRUCTION (TYP).

ALL STORMWATER PITS AND PIPES TO BE A MINIMUM OF 0.6m CLEAR FROM EXISTING SEWER LINE (TYP).

ALLOW FOR FILL & MINOR REGRADING OF FINISHED SURFACE TO ARCHIVE NOMINATED REDUCED LEVEL OF GRATED SURFACE INLET PITS, WHERE REQUIRED (TYP).

PROVIDE SUBSOIL DRAINAGE WITHIN LANDSCAPED AREAS & BEHIND RETAINING WALLS TO PREVENT LONG TERM SATURATION DURING PROLONGED WET WEATHER.

ALL GRATES LOCATED IN TRAFFICABLE AREAS SHALL BE OF A HEEL AND WHEEL CHAIR SAFE TYPE AND FITTED WITH CHILD-PROOF LOCKING MECHANISMS



PROPOSED CHILDCARE CENTRE

Drawn P.C.

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8 Buller Street, North Parramatta, NSW 2151 www.cec-au.com

Approved

^e P.E.

P.C.

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Α	FOR APPROVAL
Rev	Description

STORMWATER LAYOUT PLAN GROUND FLOOR SCALE 1:100





FOR COUNCIL / CONSTRUCTION CERTIFICATE ISSUE

DATE:

APPROVED BY:

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Title

P.EtBy PAUL EL-BAYEH B.E. (Civil), M.E. (Structural & Foundation), FIEAust, CPEng No. 3132148, NER, RPEQ. 13/07/2023



		Regulated D	esign R	ecord	
Projec	ct Address: 1	TRACEY AVENUE	E, CARL	INGFORD, NSW	
Projec	ct Title: PROF	POSED CHILDCAF	RE CEN	TRE	
Conse	ent No:		Body C	orporate Reg No:	
Drawi	ng Title:STO	RMWATER PLAN	Drawing	g No: SW23120-SW	021
Rev	Date dd.mm.yy	Description	_	DP Full Name	Reg No

WSUD MEASURES

THE FOLLOWING WSUD MEASURES ARE IMPLEMENTED IN THIS DESIGN:

M2 LOW-IMPACT LANDSCAPE DESIGN:

- THE DESIGN AND CONSTRUCTION OF LANDSCAPING SATISFIES EACH OF THE FOLLOWING CRITERIA: LANDSCAPING IS DESIGNED TO RETAIN OR RESTORE THE NATURAL LANDSCAPE, PROVIDE HABITAT FOR INDIGENOUS SPECIES AND MINIMISE INPUTS OF WATER, ENERGY, FERTILISERS AND HERBICIDES
- NATURAL LANDFORMS. WATERCOURSES AND OTHER WATER FEATURES ARE RETAINED. RESTORED OR EMPHASISED
- EXISTING NATIVE VEGETATION (INCLUDING UNDERSTOREY) IS RETAINED OR RESTORED, BEYOND THREE METRES OF THE CONSTRUCTED HARDSTAND SURFACE AREAS.
- VEGETATED LINKS ARE PROVIDED WITH NATIVE VEGETATION ON ADJOINING OR NEARBY LAND PLANTING IS SUBSTANTIALLY COMPOSED OF LOCALLY INDIGENOUS SPECIES
- PROVISION IS MADE FOR FAUNA HABITAT MEASURES SUCH AS PONDS, WETLANDS, NATIVE SHRUBS, NEST BOXES OR ROOST BOXES
- CONTROL STRUCTURES ARE INSTALLED TO DIVERT STORMWATER RUNOFF FROM NATIVE
- VEGETATION SO AS TO MAINTAIN SUITABLE SOIL MOISTURE AND NUTRIENT CONDITIONS GRASSED AREAS ARE PLANTED WITH NATIVE GRASSES TO ELIMINATE FERTILISING, MOWING AND WATERING
- LANDSCAPING IS DESIGNED TO PROMOTE THE CAPTURE AND INFILTRATION OF RUNOFF THROUGH THE USE OF DEPRESSIONS, GRASSED CHANNELS, INFILTRATION SWALES, ROCK CHANNELS, SEDGES, REED BEDS OR SIMILAR
- WHERE PRACTICAL, LOW-LYING AREAS ARE UTILISED FOR TREATMENT PONDS OR WETLANDS AREAS LIKELY TO BE SUBJECT TO HIGH WATER DEMAND ARE FITTED WITH A WATER-EFFICIENT IRRIGATION SYSTEM THAT INCORPORATES AN ELECTRONIC CONTROLLER AND RAIN SWITCH.

M4 RAINWATER UTILISATION-TOILET:

A RAINWATER UTILISATION SYSTEM IS INSTALLED FOR TOILETS, AND SATISFIES EACH OF THE FOLLOWING CRITERIA:

- RAINWATER IS SOURCED ONLY FROM ROOF SURFACES VIA A TANK STORAGE SYSTEM THE SYSTEM IS FITTED WITH AN EFFECTIVE FIRST FLUSH DEVICE FOR REMOVING ROOF SURFACE CONTAMINATION.
- THE SYSTEM MUST BE CONNECTED TO THE TOILET FIXTURES AND MAY ALSO BE CONNECTED IRRIGATION FIXTURES, BUT TO NO OTHER FIXTURES.
- ANY CONSENT REQUIRED FROM THE WATER SUPPLY AUTHORITY MUST BE OBTAINED PRIOR TO INSTALLATION OF ANY RAINWATER TANK (SYDNEY WATER HAVE ADVISED THAT THEY WISH TO BE ADVISED OF ALL RAINWATER TANK INSTALLATIONS)
- SYSTEMS THAT USE MAINS WATER AS A BACKUP SUPPLY ARE FITTED WITH A BACKFLOW PREVENTION DEVICE' THAT IS SATISFACTORY TO THE LOCAL WATER SUPPLY AUTHORITY
- TANKS AND PUMPS ARE LOCATED SO THAT THEY DO NOT IMPACT UPON THE SAFETY OF
- PEDESTRIANS OR VEHICLES AND DO NOT IMPACT UPON THE AMENITY OF ADJOINING RESIDENTIAL PROPERTIES BY REASON OF NOISE OR VISUAL APPEARANCE
- OVERFLOW FROM TANKS IS DIRECTED TO AN INFILTRATION TRENCH OR A PUBLIC DRAINAGE SYSTEM.

M8 STORMWATER UTILISATION - IRRIGATION:

A STORM WATER UTILISATION SYSTEM IS INSTALLED FOR IRRIGATION USE, AND SATISFIES EACH

- OF THE FOLLOWING CRITERIA: THE IRRIGATION SYSTEM SERVES AN ACTIVELY MANAGED AREA OF AT LEAST 1000 M2 RAINWATER IS SOURCED FROM ROOF, DRIVEWAY OR PAVED SURFACES VIA A TANK STORAGE SYSTEM
- THE SYSTEM IS FITTED WITH SUITABLE TREATMENT DEVICES, SUCH AS A FIRST FLUSH PIT, OIL/ SEDIMENT SEPARATOR, ARTIFICIAL WETLAND ETC.
- FIXTURES ARE MARKED 'NOT SUITABLE FOR DRINKING'
- TANKS AND PUMPS ARE LOCATED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS CONTAINED IN OTHER COUNCIL DOCUMENTS
- ANY CONSENT REQUIRED FROM THE WATER SUPPLY AUTHORITY MUST BE OBTAINED PRIOR TO
- INSTALLATION OF ANY RAINWATER TANK (SYDNEY WATER HAVE ADVISED THAT THEY WISH TO BE ADVISED OF ALL RAINWATER TANK INSTALLATIONS).
- OVERFLOW FROM TANKS IS DIRECTED TO AN INFILTRATION TRENCH OR A PUBLIC DRAINAGE SYSTEM.



P.C.

1 TRACEY AVENUE, CARLINGFORD, NSW



-ELBOW CHAMFER -BALL SEAT-SEALING BALL-DIVERTER CHAMBER PIPE/WALL-BRAĆKET SCREW CAP FLOW CONTROL VALVE

DOWNPIPE -

FIRST FLUSH DIVERTER SCALE: 1:20

SURROUND

TIGHT SCREW DOWN CAP GRADE

-			
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	В	FOR APPROVAL	(
	А	FOR APPROVAL	
	Rev	Description	

S 9630 0121 S 8 Buller Street, North Parramatta, NSW 2151 www.cec-au.com

[^] P.C.

Approved

P.E.



NOT TO SCALE







REFER TO PLAN FOR

TRENCH WIDTH & DEPTH

FOR COUNCIL APPROVAL ONLY (CONCEPT)



FOR COUNCIL / CONSTRUCTION CERTIFICATE ISSUE

APPROVED BY:

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PARRAMATTA NSW 2150

DATE: NER 13/07/2023



Title

PETBY **PAUL EL-BAYEH** B.E. (Civil), M.E. (Structural & Foundation IEAust, CPEng No. 3132148, NER, RPEQ.



LINE OF WALL



RAINWATER SIGN DETAIL SCALE: 1:10

NOTES: -

- PROVIDE WARNING SIGN IN ACCORDANCE WITH AS 1319 IN A CLEAR AND VISIBLE LOCATION AT
- ALL RAINWATER SUPPLY POINTS
- BACKGROUND IS YELLOW TEXT IS WHITE ON

BLACK BACKGROUND

		Regulated D)esign R	lecord	
Projec	t Address: 1	TRACEY AVENUE	E, CARL	INGFORD, NSW	
Projec	t Title: PROP	OSED CHILDCAF	RE CEN	TRE	
Conse	ent No:		Body C	orporate Reg No:	
Drawi	ng Title:STOF	RMWATER PLAN	Drawing	g No: SW23120-S	W022
Rev	ev Date Description dd.mm.yy			DP Full Name	Reg No
<u> </u>					
		•		•	-







PROPOSED CHILDCARE CENTRE 1 TRACEY AVENUE, CARLINGFORD, NSW

Design P.C. ^{Scale} 1:100 @ A1 ^{Date} 13/07/2023 P.C.



Section 2630 9630 0121 8 Buller Street, North Parramatta, NSW 2151 www.cec-au.com

С	FOR APPROVAL
В	FOR APPROVAL
Α	FOR APPROVAL
Rev	Description

By Chk Date

DESIGN&BUILDINGGROU

INFO@DABG.COM.AU

On-Sit Propos Project: 1 TRAC Location: Patrick Designer: 9630 0 Phone: OSD Area: Site Area Basic Storage Volume Basic Discharge Area of Site to Storage Percentage of Site Storage per ha of cont Volume/PSD Adjustm PSD for site Maximum Head to Ori Calculated Orifice Dia Maximum discharge Head for high early dis High Early Discharge Mean Discharge Average Discharge per Final Site Storage Rat Site Storage Volume Rainwater Offset Final Volume Required Volume Provided

Date Checked:

EAust, CPEng No. 3132148, NER, RPEQ.

Title



te Detention Calculation Sheet					
ed Child Care Center					
Chahine					
121					
		BHSC		BHSC	
		DIIOO		Drowned	
		0.094		0.094	
Э		34.06		34.06	
		9.79		9.79	
е		0.083	88%	0.083	88%
		87.96		87.96	
tributing area		411.57		411.57	
ent		96.15		96.15	
		7.95		7.95	
ifice Centre		1.800		1.180	
meter		0.052		0.052	
		7.952		6.443	
scharge		1.700		1.080	
		7.728	97%	6.164	78%
		7.840		6.303	
r Hectare		94.727		76.155	
tio		418		490	
		34.60		40.59	
		0.00		0.00	
d		34.60		40.59	
		44.66	129%	44.660	110%
	28-4	hr-23			
	20-7				

OSD CALCULATION SHEET



