BURBANK AVENUE,

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.

35 BURBANK AVENUE, EAST HILLS

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

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: -

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.

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

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.

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 20MPa MASS CONCRETE. BRICKWORK, BLOCKWORK, CONCRETE OR APPROVED PRECAST PITS

BENCHING TO BE HALF OUTGOING PIPE DEPTH. CONCRETE FOR

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

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

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

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:

DI OR OCCCCDDDDDD eFGGHJKLPKKKKNOORRRRRRNNNNNNNNNNTTTTUUWFTB OCCCCDDDDDDD eFGGHJKLPKKKKNOORRRRRRNNNNNNNNNNTTTTUUWFTB	DIAMETER CALIFORNIA BEARING RATIO CHAINAGE CENTER LINE CLEAR OUT DISH DRAIN DISH DRAIN OUTLET DOWELLED EXPANSION JOINT DENSE GRADED BASECOURSE DENSE GRADED SUB—BASE DOWNPIPE EXISTING FINISHED FLOOR LEVEL GRATED TRENCH DRAIN GRATED SURFACE INLET PIT HYDRANT ISOLATING JOINT INTEGRAL KERB INVERT LEVEL INTERSECTION POINT KERB ONLY KERB & GUTTER KERB RETURN NATURAL GROUND LEVEL OVERLAND FLOW PATH ON—SITE DETENTION RADIUS REINFORCED CONCRETE PIPE ROLL KERB & GUTTER REDUCED LEVEL RETAINING WALL RAINWATER TANK SAWN CONTROL JOINT SEWER MAN HOLE STORMWATER PIT STORMWATER PIT STORMWATER SUMP STOP VALVE TOP OF KERB TOP OF WALL TOP WATER LEVEL TANGENT POINT UNPLASTICISED POLYVINYL CHLORIDE UNLESS NOTED OTHERWISE WEAKENED PLANE JOINT FIRST FLUSH DEVICE TYPICAL BENCH MARK
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www.dialbeforeyoudig.com.au

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.

DRAWING REGISTER						
NUMBER	NAME	REVISION				
SW001	COVER SHEET	В				
SW010	GROUND FLOOR, NOTES & DETAILS	В				
SW020	BASEMENT & LOWER BASEMENT PLAN, NOTES & DETAIL	В				
SW021	BASEMENT PLAN, NOTES & DETAILS (CONT.)	В				
SW030	ROOF PLAN, NOTES & DETAILS	В				
SW031	ROOF PLAN, NOTES & DETAILS (CONT.)	В				
ER001	EROSION & SEDIMENT CONTROL PLAN	В				

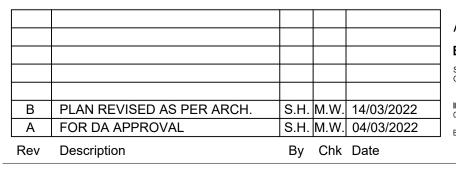
LEGEND:			
• DP	DOWNPIPE	eSMH	EXISTING SEWER MANHOLE
	STORMWATER LINE		EXISTING JUNCTION PIT
	STORMWATER LINE DRAINING TO RWT		
—— OF ——	OVER FLOW PIPE		EXISTING KERB INLET PIT
——————————————————————————————————————	SUBSOIL LINE	eTEL	EXISTING TELSTRA PIT
SWRM	STORMWATER RISING MAIN	⊞ eHYD	EXISTING HYDRANT
e	EXISTING STORMWATER LINE	⊠ eSV	EXISTING STOP VALVE
s	AUTHORITY SEWER LINE	□ eGAS	EXISTING GAS VALVE
w	AUTHORITY WATER LINE	O ePP	EXISTING POWER POLE
G G	AUTHORITY GAS LINE		EXISTING GRATED SURFACE INLET PIT
— — E —	AUTHORITY ELECTRICITY LINE	ø FF	FIRST FLUSH
—F0—F0—F0—	AUTHORITY FIBRE OPTIC LINE	⊘ RWO	RAINWATER OUTLET
TEL	AUTHORITY COMMS LINE	ø 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	3	CAPPING
		⊠ RH	RAINHEAD
	SEALED JUNCTION PIT	♣ SP	DOWNPIPE SPREADER
	PROPOSED KERB INLET PIT	-	WARNING LIGHT
	GRATED TRENCH DRAIN	♥ 144.37	SPOT LEVELS

PROPOSED TWO STOREY DWELLING

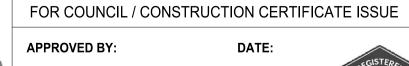
Scale 1:100 @ A1 Date 04/03/2022 Consultants

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

S.H.







14/03/2022 PAUL EL-BAYEH B.E. (Civil), M.E. (Structural & Foundation EAust, CPEng No. 3132148, NER, RPEQ.

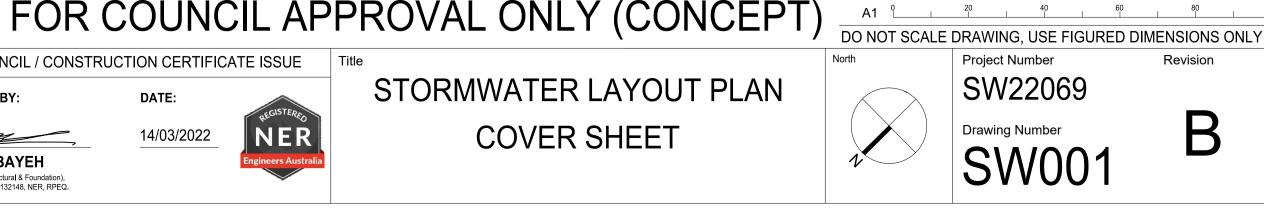
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RWT

STORMWATER LAYOUT PLAN **COVER SHEET**

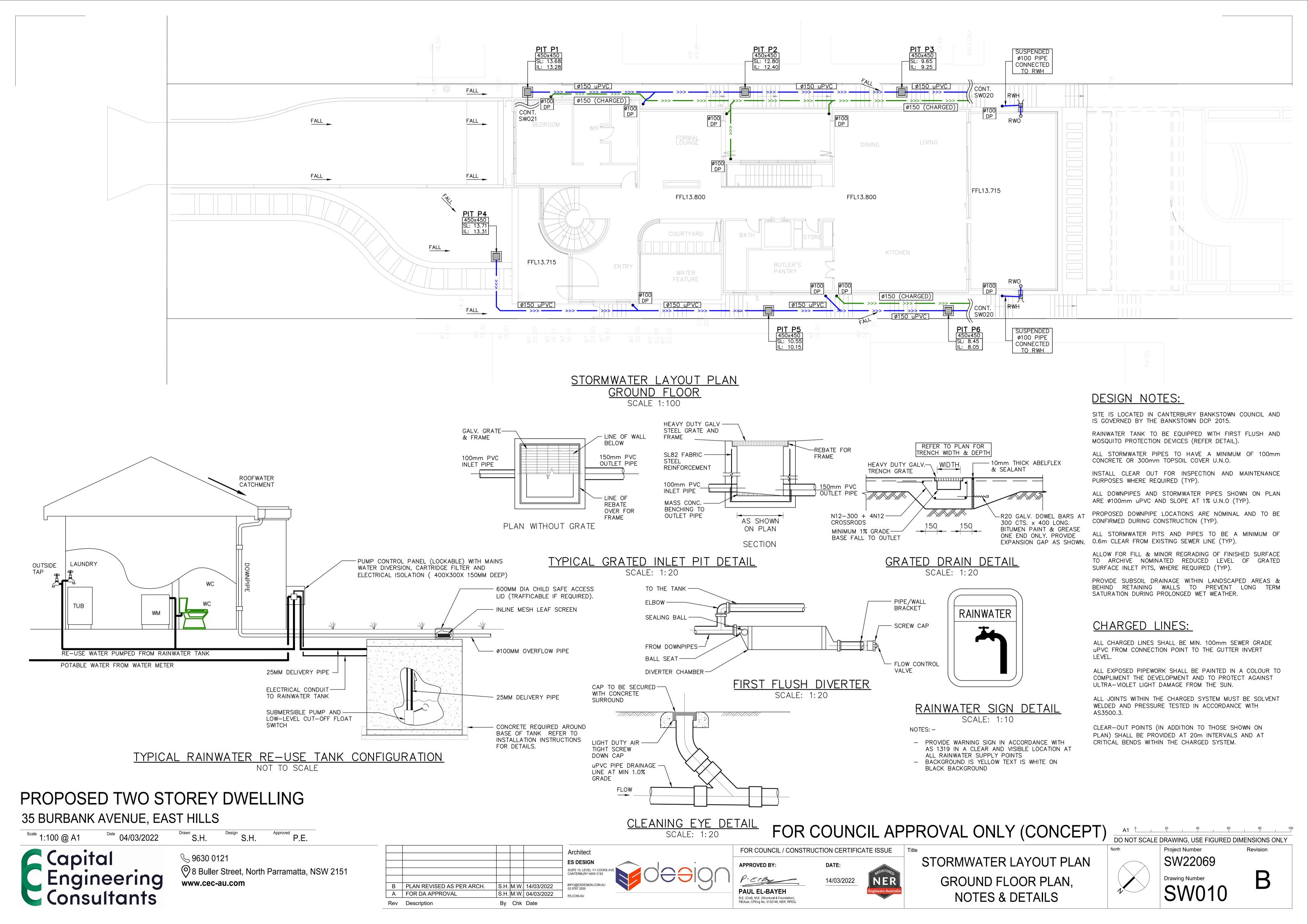
RAINWATER RE-USE TANK

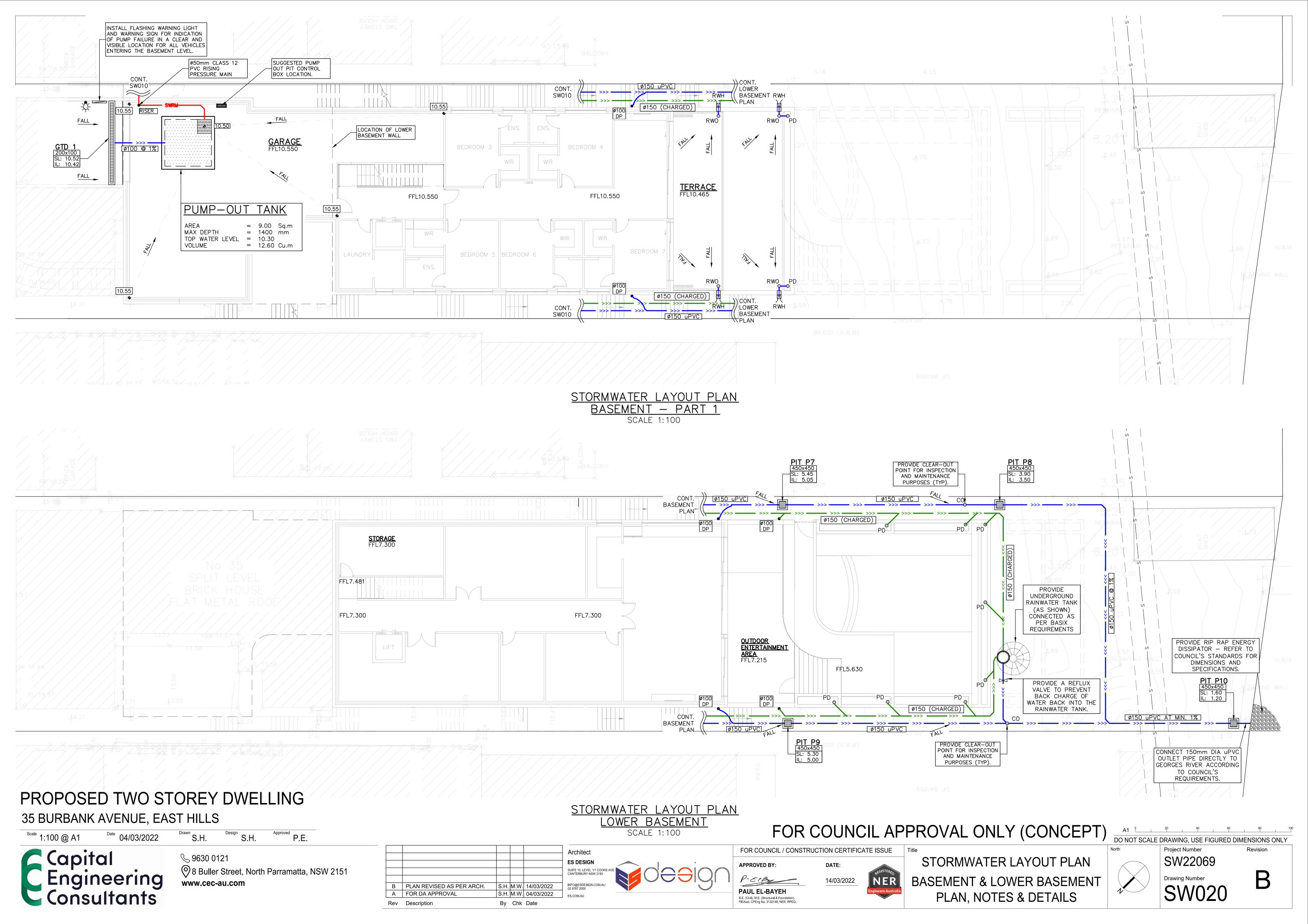
PROPOSED RETAINING WALL

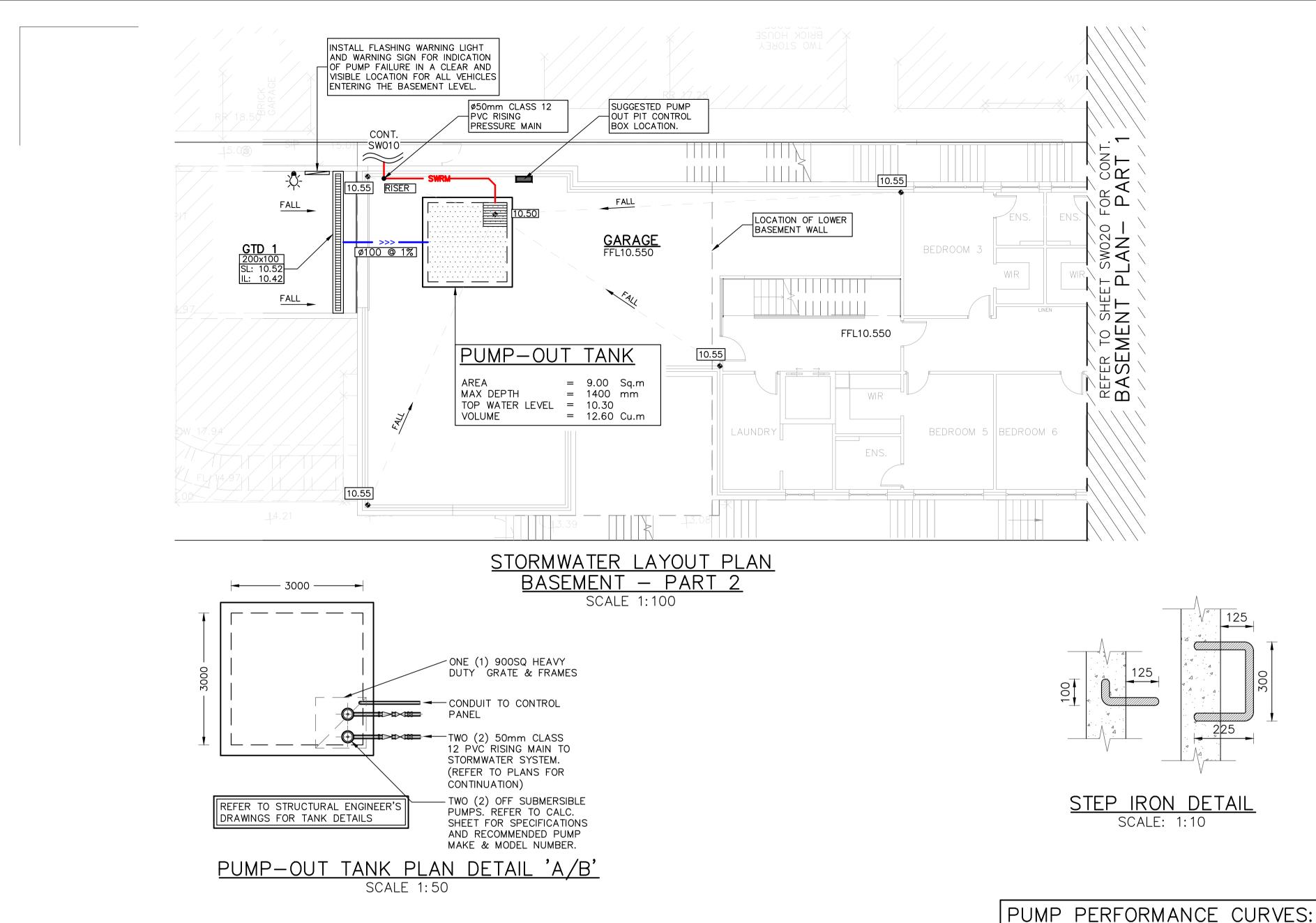


BENCHMARK

OVERLAND FLOW PATH







DANGER **CONFINED SPACE** NO ENTRY WITHOUT **CONFINED SPACE TRAINING**

CONFINED SPACE SIGN DETAIL SCALE 1:20

WARNING

FAILURE IN BASEMENT WHEN LIGHT IS FLASHING AND SIREN SOUNDING

PUMP-OUT WARNING SIGN DETAIL SCALE 1:20

PUMP OUT SYSTEM

STANDARD PUMP OUT DESIGN NOTES:

THE PUMP OUT SYSTEM SHALL BE DESIGNED TO BE OPERATED IN THE FOLLOWING MANNER: -

. THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY TO ÁLLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP

II). A FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS AT THE MINIMUM WATER LEVEL. THE SAME FLOAT SHALL BE SET TO TURN ONE OF THE PUMPS ON UPON THE WATER LEVEL IN THE TANK RISING TO APPROXIMATELY 300MM ABOVE THE MINIMUM WATER LEVEL. THE PUMF SHALL OPERATE UNTIL THE TANK IS DRAINED TO THE MINIMUM WATER

III). A SECOND FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHALL START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.

IV). AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBELIGHT AND A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.

V). A CONFINED SPACE DANGER SIGN SHALL BE PROVIDED AT ALL ACCESS POINTS TO THE PUMP OUT STORAGE TANK IN ACCORDANCE WITH THE UPPER PARRAMATTA RIVER CATCHMENT TRUST OSD HANDBOOK.

KEY NOTES:

INSTALL STEP IRONS FOR EASE OF ACCESS DURING MAINTENANCE OF PUMP OUT CONTROL PIT TO COUNCIL SATISFACTION.

AWARENESS AND WARNING.

INSTALL CONFINED SPACE SIGN ABOVE PUMP OUT PIT FOR PUBLIC

ALL STORMWATER PIPES ARE Ø100mm uPVC AND SLOPING @ 1.0% U.N.O (TYP).

ALL BUILDING AND HYDRAULIC SERVICES TO BE PROPERLY CO-ORDINATED WITH STORMWATER PIPES AND ENSURE NO CLASHES ARE PRESENT DURING CONSTRUCTION (TYP).

STORMWATER PIPE ARRANGEMENT TO BE CO-ORDINTED WITH STRUCTURAL SLAB AND BEAMS WHERE REQUIRED (TYP).

PUMP STORAGE CALCS:

BELOW GROUND STORAGE:

100yr 12hr ARI STORM= 170mm CATCHMENT AREA = 70.0m²

V=Axd

=70x(170/1000)=11.9m³ ŘEQUIŘED

PUMP-OUT VOLUME REQUIRED = 11.9 m^3 $PUMP-OUT VOLUME PROVIDED = 12m^3$

PUMP DISCHARGE RATE WAS DESIGNED FOR THE 100yr 5 MIN STORM:

Q=CIA/3600

 $=1.0 \times 195 \times 70.0 / 3600$

=3.8 L/s REQUIRED @ 4.53 m OF HEAD

RECOMMENDED PUMP: DUAL SABRE MODEL NO. KS-08 PUMPS WITH 50mm PVC CLASS 12 OUTLETS.

WATER DISCHARGE TO BE PUMPED UP TO IL 13.48 TO PIT 1 (REFER TO SW010)

DUTY POINT-4 6 8 10 12 14 16 18 20 22 24 26 28 3 FLOW RATE (1/s)

PUMP MAKE & MODEL DETAILS SCALE N.T.S.

PUMP TO BE USED (IN ----ACCORDANCE WITH AS/NZS 3500.3 A 3.8L/S PUMP IS REQUIRED AT MINUMUM)

FOR COUNCIL APPROVAL ONLY (CONCEPT)

Туре		Output		Outlet		Rateo		Maximum		Weigh	Dimension		
	Type					Head Capacity		Head	Capacity	o Eigi	Dilligitation		
		HP	kW	mm	Inch	Δ	LPM	Μ	LPM	Кg	L(mm)	W(mm)	H(mm)
	KS-03	1/3	0.25	40	1 1/2"	3	130	8	180	9	188	141	305
	KS-04	1/2	0.4	50	2"	5	150	8	220	11	208	140	359
	KS-05	1/2	0 4	50	2"	5	160	10	260	14	230	156	375
	KS-08	1	0 75	50	2"	6	240	13	380	21	290	180	425
	KS-20	2	1.5	80	3"	10	300	16	600	31	278	182	475
	KS-30	3	2 2	80	3	10	500	18	800	42	390	250	450
	KS-50	5	3.7	100	4"	10	800	21	1100	48	450	240	530
	KS-75	7 1/2	5.6	100	4"	15	800	23	1300	60	550	310	590
	KS-100	10	7.5	150	6"	18	900	25	1600	70	550	310	610

PROPOSED TWO STOREY DWELLING

35 BURBANK AVENUE, EAST HILLS



ø100 INLET

WELL DRAINED -

MEMBRANE

MATERIAL

100mm AG LINE

GRANULAR BACKFILL

WATER PROOFING -

GRANULAR DRAINAGE -

REFER TO STRUCTURAL ENGINEER'S

DRAWINGS FOR TANK DETAILS

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

900SQ HEAVY DUTY-GRATE & FRAME

HIGH LEVEL FLOAT RL: 10.30-

PROVIDE CONFINED

STEP IRONS AT 300mm

PUMP CUT IN RL: 9.20

PUMP-OUT TANK SECTION DETAIL'

SCALE N.T.S.

S.H.

PUMP CUT OUT RL: 8.90

PROVIDE 400mm DEEP SUMP

TO MANUFACTURERS DETAIL

CENTRES TO AS 1657

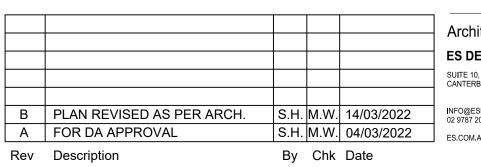
SPACE WARNING SIGN TO ALL TANK OPENINGS

3000x3000

CONDUIT TO CONTROL PANEL

SL: 10.50

600



-GATE VALVE

CHECK VALVE

TWO (2) OFF SUBMERSIBLE PUMPS. REFER TO CALC.

SHEET FOR SPECIFICATIONS

AND RECOMMENDED PUMP

MAKE & MODEL NUMBER.

Architect **ES DESIGN**

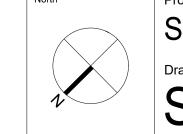


APPROVED BY: DATE: 14/03/2022 **PAUL EL-BAYEH**

TEAust, CPEng No. 3132148, NER, RPEQ.

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STORMWATER LAYOUT PLAN BASEMENT PLAN, NOTES & DETAILS (CONT.)

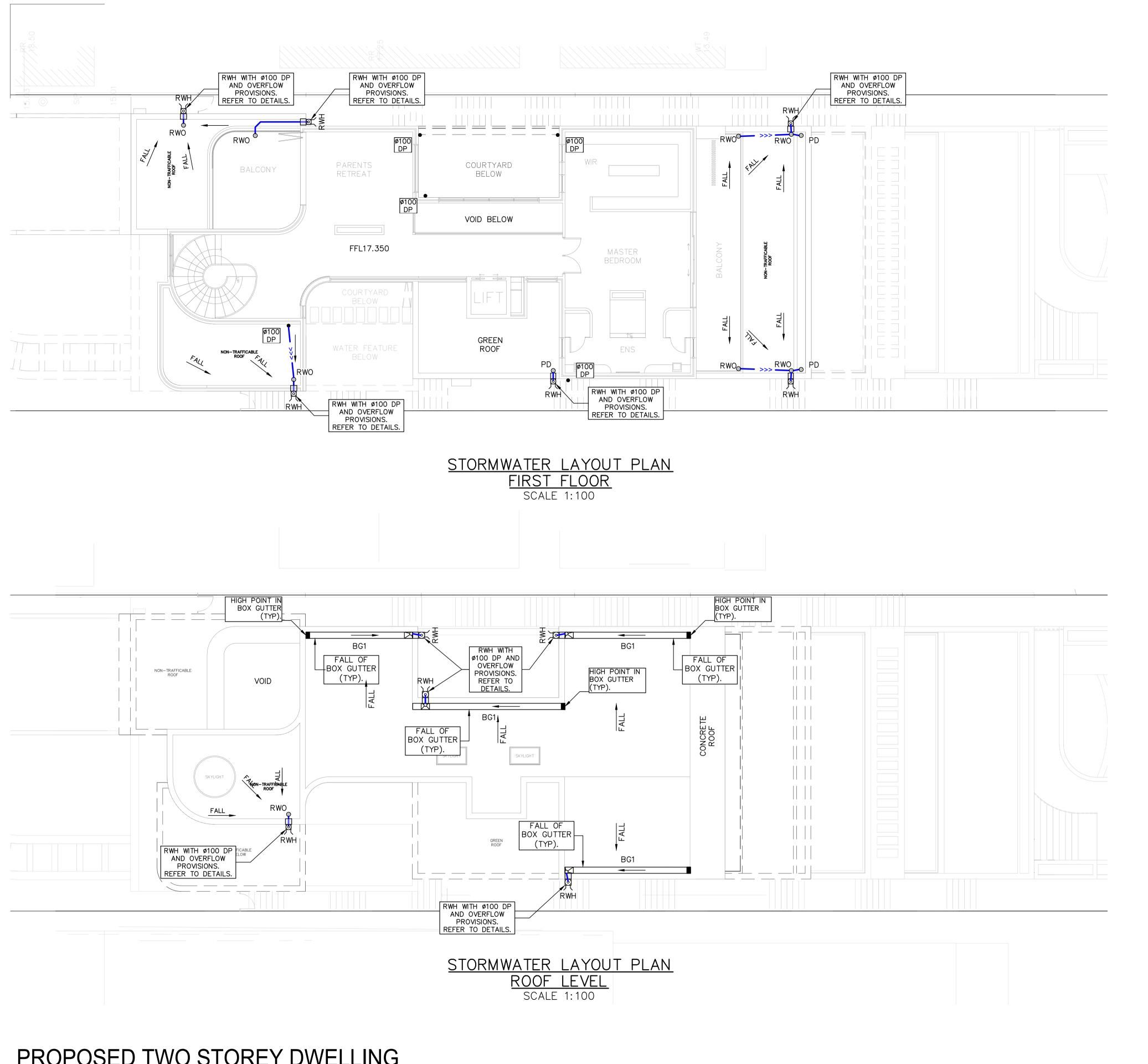


Project Number SW22069 **Drawing Number** SW021

DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY

B

Revision



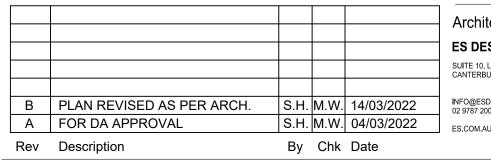
PROPOSED TWO STOREY DWELLING



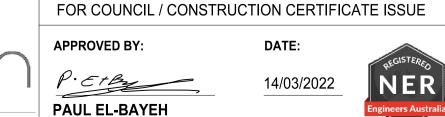


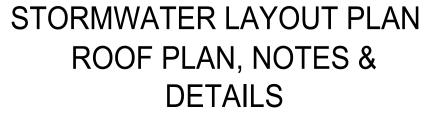
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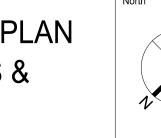








FOR COUNCIL APPROVAL ONLY (CONCEPT)



DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY SW22069 **Drawing Number**

FIRST FLOOR & ROOF NOTES:

ALL BUILDING AND HYDRAULIC SERVICES TO BE PROPERLY

STORMWATER PIPE ARRANGEMENT TO BE CO-ORDINTED WITH STRUCTURAL SLAB AND BEAMS WHERE REQUIRED (TYP).

TO CONFIRM LOCATION DURING CONSTRUCTION.

ARE PRESENT DURING CONSTRUCTION (TYP).

RAINWATER OUTLETS WHERE REQUIRED (TYP).

DURING CONSTRUCTION (TYP).

AREAS WHERE REQUIRED.

INSTALL 50mm uPVC SPITTER PIPES 20mm ABOVE SURFACE LEVEL FOR BALCONY AND CONCRETE ROOF AREAS TO ALLOW FOR EMERGENCY OVERFLOW INCASE OF BLOCKAGES DURING HEAVY STORMS. PLUMBER

CO-ORDINATED WITH STORMWATER PIPES AND ENSURE NO CLASHES

BALCONY, TERRACE & CONCRETE ROOF AREAS TO SLOPE TOWARDS

DOWNPIPES SHOWN ON PLAN ARE TO BE Ø100mm uPVC U.N.O. (TYP).

PROPOSED DOWNPIPE LOCATIONS ARE NOMINAL AND TO BE CONFIRMED

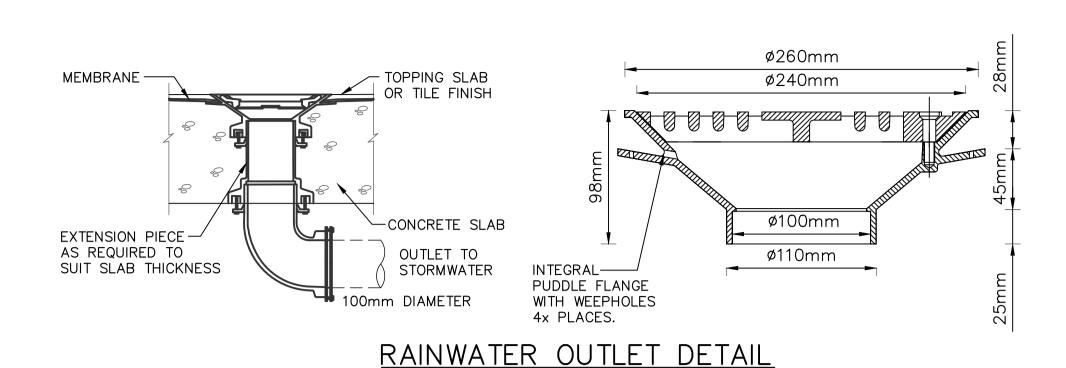
PROVIDE SURFACE DRAINAGE FOR ALL CONCRETE AND BALCONY ROOF

ARROW DENOTES THE SLOPE OF FINISHED SURFACE LEVEL (TYP).

INSTALL DOWNPIPE WITH SPREADER (IF REQUIRED) TO DISPERSE

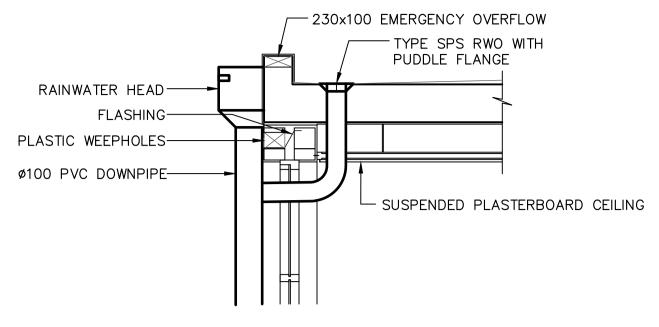
STORMWATER ONTO LOWER ROOF AREAS EFFECTIVELY.

B SW030

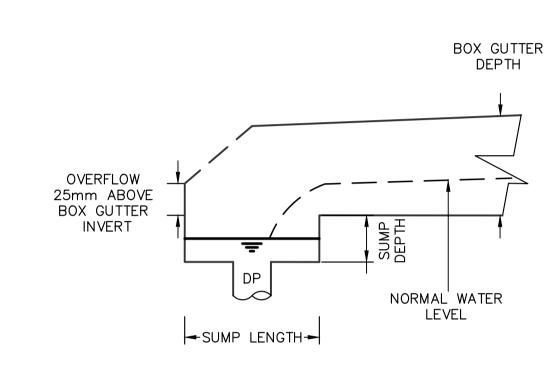


SCALE: 1:10

NOT TO SCALE



RAINWATER OUTLET TO RAINWATER HEAD SCALE 1:20



TWO LAYERS OF COUNCIL APPROVED -

AUSTRALIAN DRAINAGE MODULES -

(OR EQUAL) WITH GEOFABRIC LAID

FILTER FABRICTURN UP SIDES

ÖVER & DRAIN LAID ON THE BASE OF PLANTER BOX ON

BENCHING WITH FALLS

WATERPROOF MEMBRANE

REFER TO ARCHITECTS

DRAWINGS FOR DETAILS

CONCRETE BENCHING

TO ACHEIVE 1% BASE FALL TO OUTLET

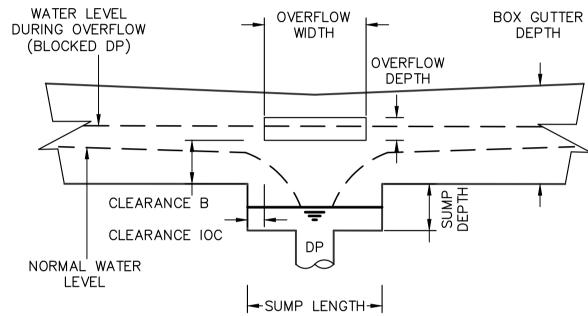
INTO SLAB (SPD)

SPS BD50/65 CAST IRON

ROOF DRAIN WITH MEMBRANE

CLAMP. PIPE & BODY CAST

300mm MIN.



SECTION THROUGH INTERNAL SUMP (TYP). SCALE 1:20

SECTION THROUGH RAINWATER HEAD (TYP). SCALE 1:20

BOX GUTTER TYPE 'BG1'

SUMP DIMENSIONS

ø100mm

50mm

400mm

300mm

200mm

75mm

300mm

150mm

25mm

18mm

375mm

200

300

DOWNPIPE

SUMP DEPTH

SUMP LENGTH

SUMP WIDTH

OVERFLOW WIDTH

OVERFLOW DEPTH

BOX GUTTER

WIDTH

BOX GUTTER

MIN CLEARANCE

MIN CLEARANCE

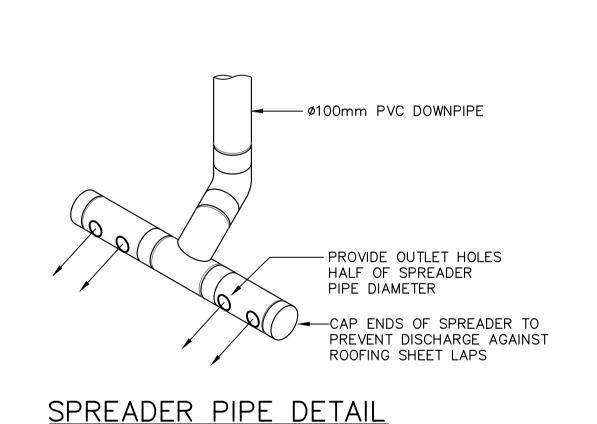
RWH DEPTH

RWH LENGTH

RWH WIDTH

FOR COUNCIL APPROVAL ONLY (CONCEPT)





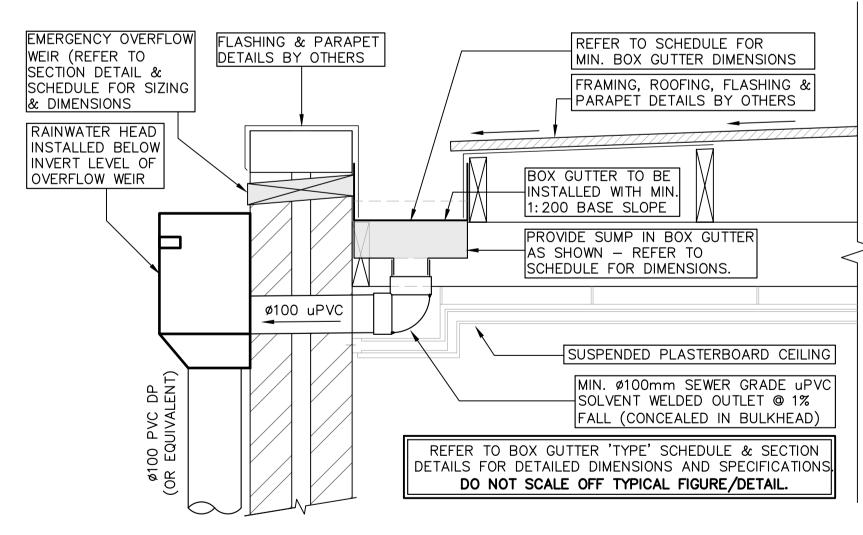
SCALE: 1:10

- OUTLET HOLES POSITIONS SHALL BE POSITIONED

SPREADER PIPE TO BE L-SHAPED OR SIMILAR

TO AVOID JOINTS IN ROOFING

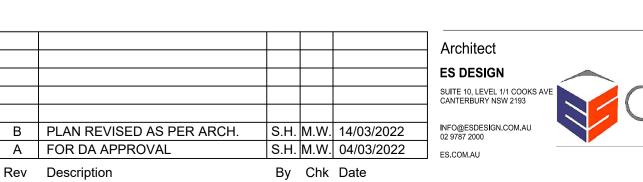
- WHEN DOWNPIPE IS LOCATED IN CORNER,



PROPOSED TWO STOREY DWELLING

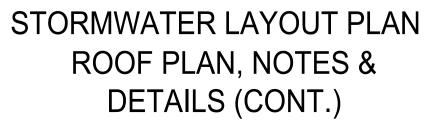
35 BURBANK AVENUE, EAST HILLS Scale 1:100 @ A1 S.H. P.E. Capital Engineering Consultants **9630 0121** 8 Buller Street, North Parramatta, NSW 2151 www.cec-au.com

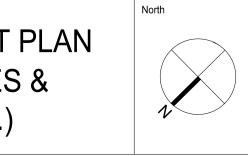
NOTES: -













MIN. Ø100 SAFETY OVERFLOW WITH SCREW CAP CLEARING ACCESS FOR MAINTENANCE OF FLOOR GRATE BELOW

ONE LAYER OF COUNCIL

APPROVED FILTER FABRIC

BETWEEN GARDEN MIX &

ø100 SLOTTED PVC RISER

WRAPPED IN FILTER FABRIC

-MIN. 200mm GRANULAR FILL

AT BASE OF PLANTER BOX

WITH MEMBRANE CLAMP, PUDDLE FLANGE, BODY CAST

OUTLET - PIPE SIZE AS

SPECIFIED ON PLANS

INTO SLAB (PD)

SPS PLANTER DRAIN OUTLET

GRANULAR FILL

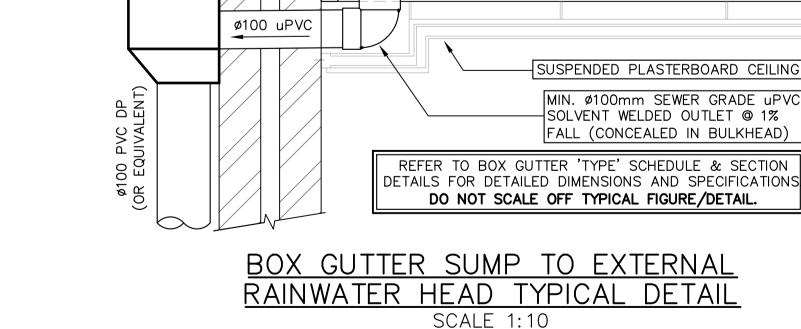
-GARDEN MIX

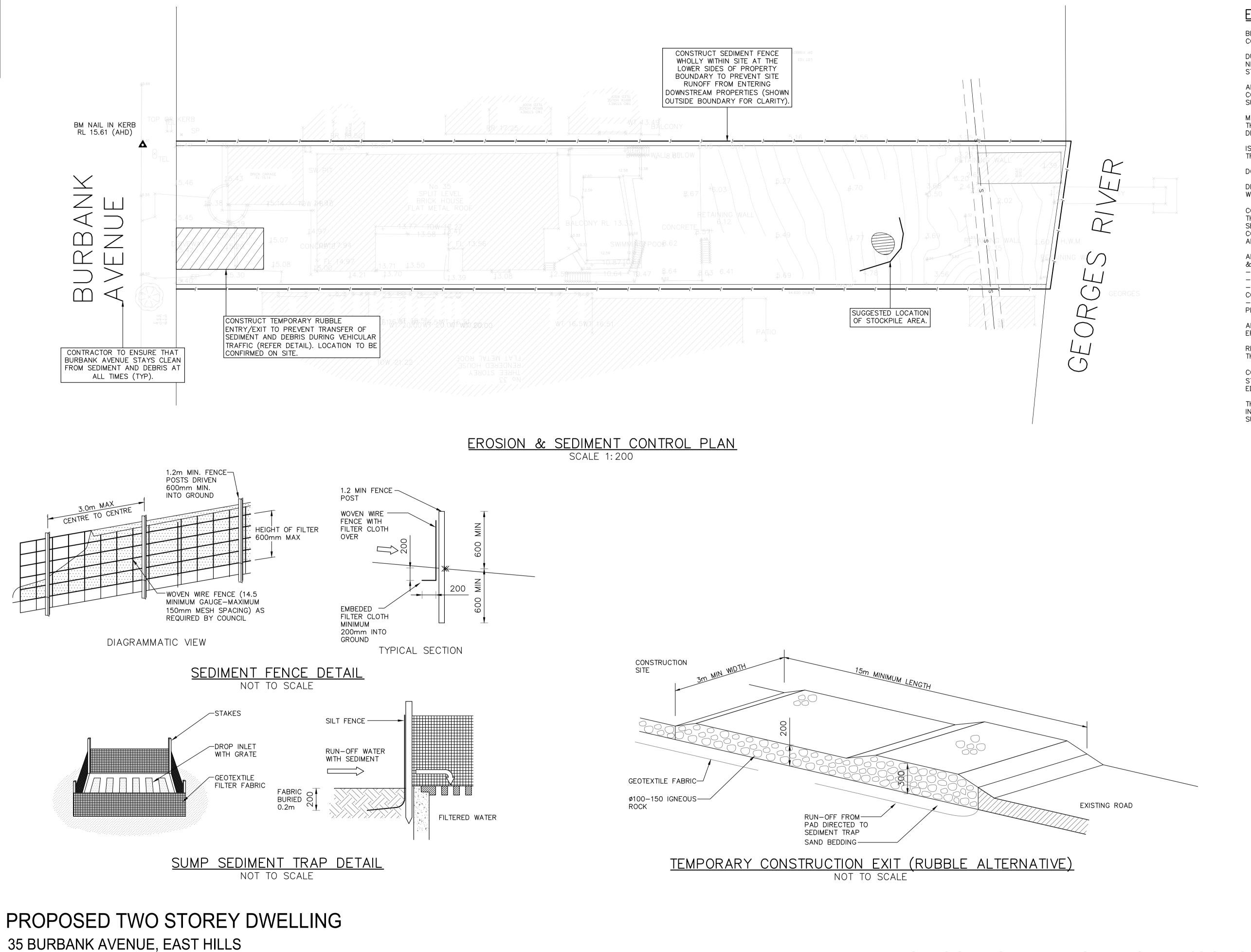
Jugan M. M. Karay M. M. Milling F

PLANTER DRAIN WITH VERTICAL

OVERFLOW PROVISION (PD)

SCALE 1:20





EROSION CONTROL

BEFORE EARTHWORKS CAN COMMENCE THE EROSION & SEDIMENT CONTROL MEASURES MUST BE IN PLACE.

DURING THE CONSTRUCTION PERIOD, THESE CONTROL MEASURES WILL NEED TO BE INSPECTED & MAINTAINED REGULARLY, ESPECIALLY AFTER STORM EVENTS, BY THE CONTRACTOR.

ALL WORK IS TO BE CARRIED OUT TO PREVENT EROSION, CONTAMINATION & SEDIMENTATION OF THE STORAGE SITE, SURROUNDING AREAS & DRAINAGE SYSTEMS.

MINIMIZE DISTURBED AREA COVERED WITH NATURAL VEGETATION. ONLY THOSE AREAS DIRECTLY REQUIRED FOR CONSTRUCTION ARE TO BE

ISOLATE EXISTING STORMWATER PITS WITH STRAW BALES OR SILT TRAPS TO FILTER ALL INCOMING FLOWS.

DO NOT STOCKPILE EXCAVATED MATERIAL ON THE ROAD WAY.

DIVERT CLEAN WATER FROM UNDISTURBED AREAS AROUND THE WORKING AREAS.

CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING AND LEAVING THE SITE DO SO IN A FORWARD DIRECTION.

ADOPT TEMPORARY MEASURES AS MAY BE NECCESSARY FOR EROSION & SEDIMENT CONTROL, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

DRAINS: TEMPORARY DRAINS AND CATCH DRAINS.
 SPREADER BANKS OR OTHER STRUCTURES: TO DISPERSE

CONCENTRATED RUNOFF.

— SILT TRAPS: CONSTRUCTION AND MAINTENANCE OF SILT TRAPS TO

- SILT TRAPS: CONSTRUCTION AND MAINTENANCE OF SILT TRAPS TO PREVENT DISCHARGE OF SCOURED MATERIAL TO DOWNSTREAM AREAS.

AFTER RAIN, INSPECT, CLEAN, AND REPAIR IF REQUIRED, TEMPORARY EROSION & SEDIMENT CONTROL MEASURES.

REMOVE TEMPORARY EROSION &SEDIMENT CONTROL MEASURES WHEN THEY ARE NO LONGER REQUIRED.

COMPLY WITH THE REQUIREMENTS OF LANDCOM'S MANAGING URBAN STORMWATER — SOIL AND CONSTRUCTION 'THE BLUE BOOK' LATEST EDITION

THE EROSION & SEDIMENT CONTROL PLAN PROVIDED IS ONLY INDICATIVE. THE CONTRACTOR SHOULD PREPARE A DETAILED ESCP SUITABLE FOR THE SPECIFIC SITE CONDITIONS

FOR COUNCIL APPROVAL ONLY (CONCEPT)

FOR COUNCIL / CONSTRUCTION CERTIFICATE ISSUE

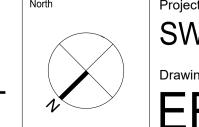
APPROVED BY:

DATE:

Title

STORMWATER LAYOUT PLAN

EROSION & SEDIMENT CONTROL
PLAN, NOTES & DETAILS



SW22069

Drawing Number

ER001

DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY

В



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ຶS.H.

Architect

ES DESIGN
SUITE 10, LEVEL 1
CANTERBURY NSV

B PLAN REVISED AS PER ARCH. S.H. M.W. 14/03/2022
A FOR DA APPROVAL S.H. M.W. 04/03/2022

Rev Description

By Chk Date

S DESIGN

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ANTERBURY NSW 2193

FO@ESDESIGN.COM.AU

9787 2000

S.COM.AU

PAUL EL-BAYEH

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

4/03/2022 NER
Engineers Austra