NEW MINISTRY CENTRE BUILDING

ST PAUL'S ANGLICAN, CARLINGFORD NSW

CONSTRUCTION NOTES

GENERAL

- G1 ALL DIMENSIONS ARE IN MILLIMETRES AND ALL LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
 G2 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 ARCHITECT AND ENGINEER FOR DECISION BEFORE PROCEEDING WITH THE WORK.

 G3 DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
- 4 SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE BUILDER.
- DURING CONSTRUCTION, THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVER-STRESSED. TEMPORARY STRUCTURES, FORMWORK, FALSEWORK, TEMPORARY BRACING, SHORING AND THE LIKE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- G6 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITIONS, INCLUDING AMENDMENTS, OF THE RELEVANT SAA STANDARDS AND SAA CODES OF PRACTICE, EXCEPT AS VARIED BE THE CONTRACT DOCUMENTS AND THE LAWS AND REQUIREMENTS OF STATUTORY AUTHORITIES.
- G7 SUBSTITUTIONS ARE TO BE MADE ONLY WITH THE APPROVAL OF THE ENGINEER.
- WHERE THE ENGINEERS ARE ENGAGED FOR INSPECTIONS AND/OR SUPERVISION, A MINIMUM OF 24 HOURS NOTICE SHALL BE GIVEN.

GROUND PREPARATION NOTES

- GP1 EXCAVATION AND GROUND PREPARATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION FOLLOWING THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT № 85995.00R.001 PREPARED BY DOUGLAS PARTNERS PTY LTD (DATED JUN 2017) AND ANY ADDITIONAL INSTRUCTIONS THAT MAY BE PROVIDED BY A GEOTECHNICAL ENGINEER DURING THE COURSE OF THE PROJECT.
- GP3 STRIP ALL VEGETATION, TOPSOIL, ROOT AFFECTED OR OTHER POTENTIALLY DELETERIOUS MATERIAL AND CUT SITE WHERE REQUIRED TO LEVELS INDICATED.
- GP4 ANY EXISTING FILL MATERIAL UNDER PROPOSED AREA OF CONSTRUCTION TO BE REMOVED AND REPLACED WITH COMPACTED FILL.
- GP5 FOLLOWING STRIPPING, THE EXPOSED SUBGRADE MATERIALS SHALL BE PROOF ROLLED WITH 5 PASSES OF A 10 TONNE ROLLER TO IDENTIFY ANY WET OR EXCESSIVELY DEFLECTING MATERIAL (SOFT SPOTS). ALL SUCH AREAS ARE TO BE OVER EXCAVATED AND BACKFILLED WITH AN APPROVED SELECT MATERIAL
- GP6 WHERE FILLING IS REQUIRED, LAY SELECT FILL MATERIAL IN NEAR HORIZONTAL LAYERS NOT EXCEEDING 200mm LOOSE THICKNESS AND COMPACTED AT OPTIMUM MOISTURE CONTENT ±2%, TO 80% MIN. DENSITY INDEX FOR COHESIONLESS SOILS OR 98% MIN. STANDARD DENSITY INDEX FOR COHESIVE
- GP7 TESTING OF SUBGRADE AND FILLING COMPACTION TO BE IN ACCORDANCE WITH LEVEL 2
 TESTING AS DESCRIBED IN AS3798-2007. GP8 EXCAVATIONS SHALL NOT BE MADE BELOWTHE TOP
 LEVEL OF EXISTING ADJOINING FOOTINGS WITHOUT THE APPROVAL OF THE ENGINEER.

FOUNDATION NOTES

- F1 DESIGN SITE CLASSIFICATION CLASS: CLASS 'M' TO AS2870-2011.
- F2 FOOTINGS HAVE BEEN DESIGNED FOR:
 - ALLOWABLE BEARING PRESSURE = 700kPa (ULTIMATE 3000kPa) ALLOWABLE SIDE SHEAR = 70kPa
- REACTIVITY CLASS 'M' TO AS2870

 F4 FOOTING EXCAVATIONS SHALL BE CLEANED TO REMOVE ALL LOOSE OR SOFTENED MATERIAL AND DEBRIS PRIOR TO PLACING OF CONCRETE.
- F5 WHERE SIDE SHEAR IS REQUIRED TO BE DEVELOPED, CLEAN AND ROUGHEN THE SIDES OF THE
- EXCAVATION TO THE SATISFACTION OF THE ENGINEER.

 F6 CONCRETE SHOULD BE POURED AS SOON AS POSSIBLE AFTER EXCAVATION. IF EXCAVATIONS ARE LIKELY TO REMAIN OPEN FOR MORE THAN 24 HOURS A BLINDING LAYER OF CONCRETE SHALL BE
- PLACED TO PROTECT THE FOUNDATION BASE.

 F8 LOCATE ALL PIPES RETAINING WALLS AND EXCAVATION OUTSIDE A
- F8 LOCATE ALL PIPES, RETAINING WALLS AND EXCAVATION OUTSIDE A
 1:1.5 (VERTICAL: HORIZONTAL) ZONE OF INFLUENCE FROM THE BOTTOM EDGE OF THE FOOTING.
- F9 FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE. F10 CONTRACTOR IS TO ALLOW FOR COST OF GEOTECHNICAL INSPECTIONS AND ANY REQUIRED

PROGRESSIVE CERTIFICATION. ALL BASES OF BORED PIERS WILL BE INSPECTED.

DEMOLITION AND CLEARING NOTES

- PRIOR TO CLEARING AND DEMOLITION OPERATIONS REMOVE WITHOUT DAMAGING, ALL EXISTING INFRASTRUCTURE TO BE REUSED OR STORED AS NOTED AND DIRECTED BY THE SUPERINTENDENT.
- 2. CLEARING AND DEMOLITION OPERATIONS SHALL BE CARRIED OUT ONLY WITHIN THOSE AREAS AFFECTED BY THE PROPOSED WORKS UNLESS NOTED OTHERWISE.
- 3. DEMOLISH EXISTING REDUNDANT INFRASTRUCTURE SUCH AS KERBS, PAVEMENT SEALS, INTERFERING FOUNDATIONS (AS NOTED ON PLANS), CONCRETE FOOTPATHS, ABANDONED SERVICE STRUCTURES ETC. TO A DEPTH OF 500mm BELOW PROPOSED PAVEMENT SUBGRADE LEVEL AND 300mm BELOW FINISHED
- LEVEL IN ALL OTHER AREAS AND REFILL AS NOTED BELOW. DISPOSE OF ALL SUCH MATERIAL OFF SITE.

 4. CLEAR RUBBISH, SCRUB, TREES, STUMPS ETC. AND GRUB OUT STUMPS AND ROOTS OVER 50mm
 DIAMETER TO A DEPTH OF 500mm BELOW PROPOSED PAVEMENT SUBGRADE LEVEL AND 300mm BELOW
- FINISHED LEVEL IN ALL OTHER AREAS AND REFILL AS NOTED BELOW.

 5. REFILL DEMOLITION EXCAVATIONS AND GRUB HOLES WITH ON SITE MATERIAL WON FROM CUT AREAS SUITABLE FOR USE AS FILL MATERIAL (REFER EARTHWORKS NOTES). PLACE AND COMPACT FILL MATERIAL IN ACCORDANCE WITH EARTHWORKS NOTES.

EROSION CONTROL:

- EC1 TEMPORARY PROTECTION FROM WIND AND WATER EROSION WILL BE UNDERTAKEN ON LANDS WHERE WORKS ARE UNLIKELY TO PROCEED FOR PERIODS OF AT LEAST TWO MONTHS AND FINAL SHAPING HAS NOT BEEN COMPLETED (eg. TOPSOIL STOCKPILES). THIS MAY BE ACHIEVED WITH A VEGETATIVE COVER. A RECOMMENDED LISTING OF PLANT SPECIES FOR TEMPORARY COVER IS AS FOLLOWS:-SEPTEMBER MARCH SOWING JAPANESE MILLET @ 50 KG/HA

 APRIL AUGUST SOWING OATS/RYECORN @ 50 KG/HA
 - TETILA RYE @ 5 KG/HA
 FOOT AND VEHICULAR TRAFFIC SHOULD BE KEPT AWAY FROM ANY REHABILITATED AREAS WHERE
- EC2 DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS ARE TO BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER FOR DUST CONTROL.
- EC3 FINAL SITE LANDSCAPING WILL BE UNDERTAKEN ON EACH PRECINCT/AREA AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL:

- THE ARRANGEMENT OF SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN ARE INDICATIVE ONLY AND RELATE TO A PARTICULAR STAGE OF THE CONSTRUCTION WORKS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN, CONSTRUCT AND MAINTAIN ANY ADDITIONAL MEASURES THAT MAY BE REQUIRED FOR THE CONTRACTOR'S CONSTRUCTION METHODOLOGIES, IN ORDER TO
- MEET ALL CONDITIONS AND REQUIREMENTS IMPOSED BY ANY STATUTORY AUTHORITY.

 SC2 ALL SEDIMENT CONTROL MEASURES TO BE INSTALLED PRIOR TO ANY SITE DISTURBANCE.
- SC3 STOCKPILES ARE NOT TO BE LOCATED WITHIN 2m OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS. WHERE THEY ARE BETWEEN 2m AND 5m FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION OF DOWNSLOPE WATERWAYS (eg. THROUGH INSTALLATION OF SEDIMENT FENCING).
- SC4 WATER IS TO BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
- SC5 CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
 SC6 A STRIP OF TURF 600mm WIDE IS TO BE PLACED IMMEDIATELY BEHIND THE KERB ON ALL NEW ROADS
- TO ACT AS A FILTER TRAP.

 SC7 ALL EXPOSED FILL AREAS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END OF
- EACH DAYS OPERATION.

 SC8 ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND MULCHED WITHIN 10 DAYS OF COMPLETION OF
- FORMATION.
 SC9 ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) IS TO BE
- REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS AFTER PLACEMENT.

 SC10 TEMPORARY SEDIMENT AND EROSION CONTROL STRUCTURES ARE TO BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED AND WHEN REMOVAL IS APPROVED BY THE SITE

LAND DISTURBANCE

- THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE AND PRACTICAL. TO THIS END, WORKS IS TO BE UNDERTAKEN IN THE FOLLOWING GENERAL SEQUENCE:
 - a) CONSTRUCTION OF SEDIMENT AND EROSION CONTROLS PRIOR TO ANY WORK COMMENCING.
 - b) REHABILITATION OF ANY DISTURBED LANDS WITHIN 20 WORKING DAYS.
 c) UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE
- POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.
- THE SITE MANAGER (PRINCIPAL CONTRACTOR) IS TO INFORM ALL CONTRACTORS AND SUBCONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION AND SEDIMENT CONTROL PLAN.
- L3 TOPSOIL FROM ALL AREAS THAT WILL BE DISTURBED IS TO BE STRIPPED AND STOCKPILED AT THE NOMINATED LOCATION.
- L4 CUT AND FILL BATTER GRADIENTS TO BE 1 VERTICAL (MAX): 2 HORIZONTAL (MIN).

INSPECTION AND MAINTENANCE:

- IM1 THE SITE MANAGER (PRINCIPAL CONTRACTOR) WILL ENSURE THAT ALL SEDIMENT AND EROSION CONTROL WORKS ARE LOCATED AS INSTRUCTED IN THIS SPECIFICATION OR IN ANY SUBSEQUENT SITE INSTRUCTION.
- IM2 ALL BUILDERS AND SUB-CONTRACTORS SHALL BE INFORMED OF THEIR RESPONSIBILITIES BY THE SITE MANAGER (PRINCIPAL CONTRACTOR) IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.
- IM3 RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER ARE TO BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT AND GENERALLY OFF SITE.
- IM4 AT LEAST WEEKLY, THE CONTRACTOR SHALL INSPECT THE SITE AND ENSURE THAT:—

 a) DRAINS OPERATE EFFECTIVELY AND INITIATE REPAIR OR MAINTENANCE AS REQUIRED.

 b) SPILLED SOIL (OR OTHER MATERIAL) IS REMOVED FROM HAZARD AREAS, INCLUDING LIKELY
- AREAS AND DRIVEWAYS.
 c) SEDIMENT IS REMOVED FROM BASINS AND/OR TRAPS WHEN LESS THAN 20m OF TRAPPING CAPACITY REMAIN PER 1000m OF DISTURBED LANDS, AND/OR LESS THAN 500mm DEPTH REMAINS IN THE SETTLING ZONE. ANY COLLECTED SEDIMENT WILL BE DISPOSED IN AREAS

AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS, GUTTERS, PAVED

- WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS IS UNLIKELY.

 d) REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND INITIATE
- UPGRADING OR REPAIRS AS APPROPRIATE.

 THE CONTRACTOR SHALL PROVIDE A DETAILED 'LOG BOOK' RECORDING INFORMATION & DATA WITH RESPECT TO THE SEDIMENT & EROSION CONTROL PLAN AND TO ENSURE SEDIMENT CONTROL DEVICES ARE FUNCTIONING PROPERLY. THIS IS TO BE KEPT ON SITE AT ALL TIMES AND UPDATED DAILY.
- a) RAINFALL EVENTSb) RAINFALL IN MILLIMETRES
- c) RESULTS OF ANY INSPECTIONS

INFORMATION RECORDED MUST INCLUDE:-

ADDITIONAL MATTERS

- ACCEPTABLE RECEPTORS SHALL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID
- WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.

 A2 ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN ARE TO BE PROTECTED
- FROM CONSTRUCTION ACTIVITIES BY:
 a) PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE
 - DRIP LINE.
- b) ENSURING THAT NOTHING IS NAILED TO THEM.
- c) PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS:-
- i) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5m OR HALF DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICHEVER IS THE GREATER.
- ii) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (eg. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300mm DEPTH
- iii) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND

KERBING:

- K1 ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MINIMUM 75mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289 5.2.1.
- K2 EXPANSION JOINTS (EJ) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN SLABS.
- WEAKENED PLANE JOINTS TO BE MINIMUM 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN SLABS.
- K4 PROVIDE BROOM FINISH TO ALL RAMPS AND VEHICULAR CROSSINGS. ALL OTHER KERBS OR DISH
 DRAINS TO BE STEEL FLOAT FINISHED.
- WHERE REPLACEMENT OF EXISTING KERBING IS REQUIRED, ROAD PAVEMENT IS TO BE SAWCUT 900mm FROM LIP OF GUTTER. UPON COMPLETION OF NEW KERBS, NEW BASECOURSE AND SURFACE IS TO BE LAID 900mm WIDE. MAKE GOOD ANY DAMAGE TO SURROUNDING KERBING OR PAVEMENT. EXISTING KERBS ARE TO BE COMPLETELY REMOVED WHERE NEW KERBS ARE SHOWN.

CONCRETE:

- C1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600, CURRENT EDITION WITH
 - AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

C2 CONCRETE QUALITY:

ELEMENT	SLUMP (mm)	MAX. SIZE AGGREGATE	CEMENT TYPE	STRENGTH (MPa)	ADMIXTURE	SHRINKAGE STRAIN μ (MAX)
ALL (U.N.O.)	80	20	GP	20	NIL WITHOUT APPROVAL	650

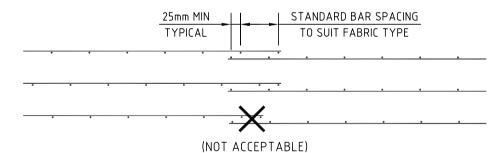
- C3 CONCRETE QUALITY CONTROL TESTING AS FOLLOWS:-
- PLANT CONTROL TESTING IN ACCORDANCE WITH AS3600, CURRENT EDITION.
- C4 CONCRETE THICKNESSES SHOWN DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- C5 BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS, IF ANY.
 C6 NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE
- IN CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

 CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED SUBJECT TO THE APPROVAL OF THE
- ENGINEER.

 C8 REINFORCEMENT IS SHOWN DIAGRAMATICALLY, IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.

 C9 SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN. THE WRITTEN
- APPROVAL OF THE ENGINEER SHALL BE OBTAINED FOR ANY OTHER SPLICES WHERE THE LAP LENGTH IS NOT SHOWN.

 C10 WELDING OF REINFORCEMENT WILL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL
- DRAWINGS.
 C11 PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE CONCRETE COVER TO REINFORCEMENT
- WITHOUT THE APPROVAL OF THE ENGINEER.
- C12 REINFORCEMENT SYMBOLS:'Y' DENOTES GRADE 400Y HOT ROLLED DEFORMED BAR TO AS/NZS4671.
 - 'S' DENOTES GRADE 250S HOT ROLLED DEFORMED BAR TO AS/NZS4671.
- 'R' DENOTES GRADE 250R HOT ROLLED PLAIN BARS TO AS/NZS4671.
- 'F' DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS/NZS4671.
 'W' DENOTES HARD-DRAWN PLAIN WIRE TO AS/NZS4671.
- 'N' DENOTES GRADE D500N DEFORMED BAR WITH 'NORMAL' DUCTILITY TO AS/NZS4671.
- 'L' DENOTES GRADE D500L DEFORMED WELDED MESH WITH 'LOW' DUCTILITY TO AS/NZS4671.
 'SL' DENOTES SQUARE CONFIGURATION.
 'RL' DENOTES RECTANGULAR CONFIGURATION.
- C13 ALL REINFORCEMENT FABRIC SHALL COMPLY WITH AS/NZS4671, AND SHALL BE SUPPLIED AS FLAT SHEETS.
- C14 AT SPLICES FABRIC SHALL BE LAPPED AS FOLLOWS:-



- C15 ALL CONCRETE TO BE EFFICIENTLY COMPACTED WITH AN APPROVED VIBRATOR.
- C16 ALL CONCRETE SHALL BE PLACED AND 'CURED' IN ACCORDANCE WITH AS3600. WHERE APPROVED CURING COMPOUND IS USED, IT MUST BE APPLIED ONTO:—

 a) SLABS WITHIN 2 HOURS OF FINISHING OPERATION.
- b) WALLS AND COLUMNS IMMEDIATELY AFTER REMOVAL OF FORMWORK. PVA CURING COMPOUNDS ARE NOT PERMITTED.
 C17 TOP AND BOTTOM REINFORCEMENT IN SLABS SHALL BE SUPPORTED IN BOTH DIRECTIONS AT

MAXIMUM CENTERS OF 60 DIAMETERS FOR BARS AND 800mm FOR FABRIC. BAR CHAIRS TO ALL

- EXTERNAL AREAS TO BE PLASTIC CHAIRS OR CONCRETE ASPROS. PLASTIC TIPPED OR STEEL CHAIRS ARE NOT PERMITTED IN EXTERNAL CONCRETE AREAS.

 C18 CLEAR CONCRETE COVER TO REINFORCEMENT IS AS FOLLOWS UNLESS SHOWN OTHERWISE ON THE
- DRAWINGS:
 ELEMENT BOTTOM (mm) SIDES (mm) TOP (mm)
- C19 IF HOT AND/OR WINDY CONDITIONS ARE ANTICIPATED AT THE TIME OF CONCRETING, ALIPHATIC ALCOHOL (eq. CONFILM) IS TO BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS TO
- PREVENT PLASTIC SHRINKAGE CRACKING.

 C20 PROVIDE 10mm ABLEFLEX (FULL DEPTH) AGAINST ALL VERTICAL SURFACES WHICH ARE TO BE USED AS FORMWORK (U.N.O.)
- C21 SAW-CUT JOINTS TO BE SAWN AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY THAT IT WILL NOT BE DAMAGED BY SAWING. DEPTH OF SAW-CUT TO BE D/4 (WHERE D = SLAB THICKNESS).
- C22 LAP LENGTHS FOR DEFORMED BARS AS FOLLOWS UNLESS SHOWN OTHERWISE ON THE DRAWINGS:
 BAR SIZE N12 N16 N20 N24 N28

 LAP LENGTH 450 600 800 1100 1400

NOTE: WHERE BARS OF DIFFERENT DIAMETERS ARE LAPPING, USE THE LAP LENGTH OF THE SMALLER



COO CONSTRUCTION NOTES & DRAWING LISTCO1 SEDIMENT & EROSION CONTROL PLAN

RETAINING WALL DETAILS

CO2 SEDIMENT & EROSION CONTROL DETAILS

CO3 BULK EARTHWORKS PLAN

CO4 DEMOLITION PLAN
CO5 RETAINING WALL PLAN

NOT FOR CONSTRUCTION

| No. | DATE | DRAWING STATUS

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DIAMETER BAR.

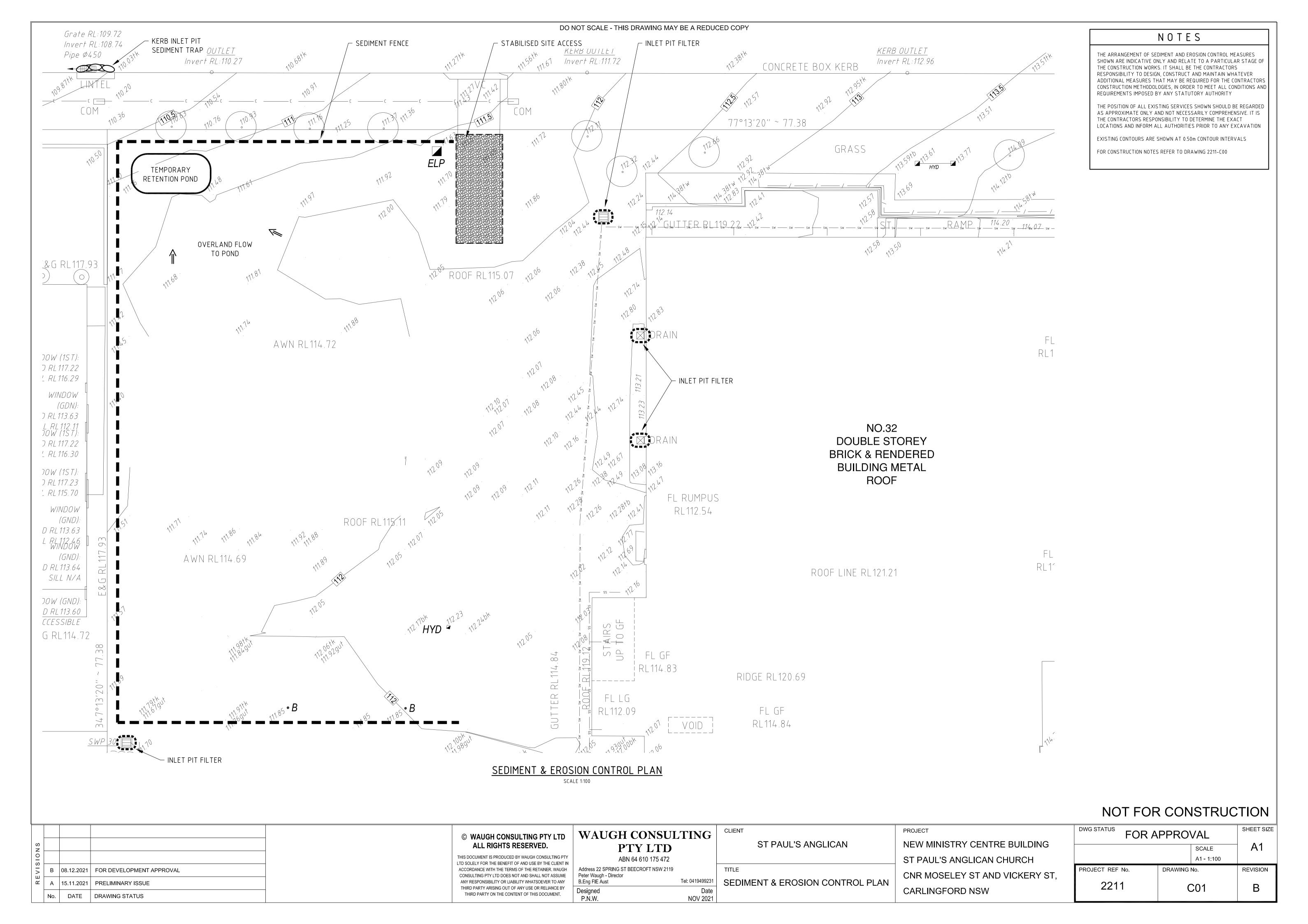
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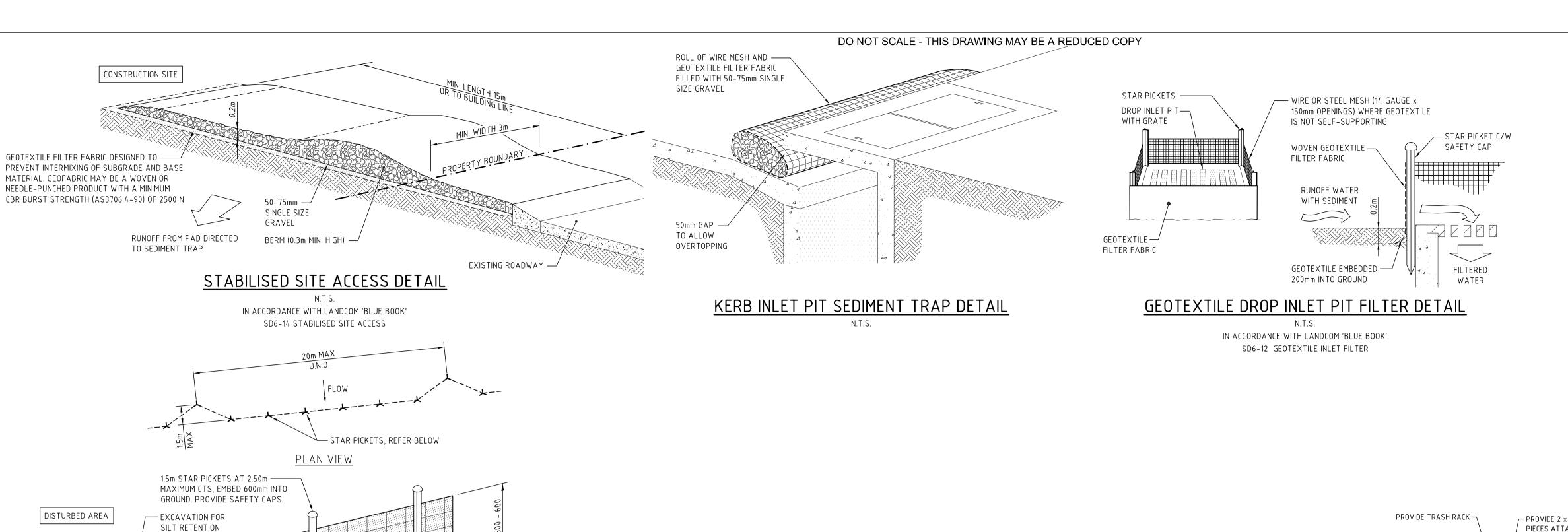
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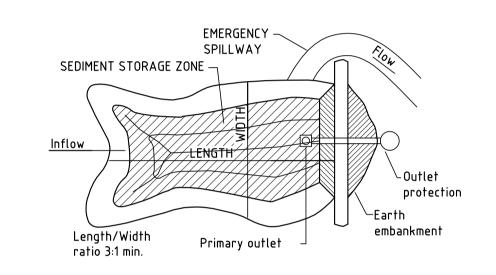
ST PAUL'S ANGLICAN

NEW MINISTRY CENTRE BUILDING
ST PAUL'S ANGLICAN CHURCH
CNR MOSELEY ST AND VICKERY ST,
CARLINGFORD NSW

DWG STATUS FOR A	SHEET SIZE	
	A1	
PROJECT REF No.	DRAWING No.	REVISION
2211	C00	В







UNDISTURBED AREA

GEOTEXTILE FILTER FABRIC

ATTACHED TO STAR PICKETS

SELF-SUPPORTING

ON SOIL - 150mm DEEP x 100mm WIDE

TRENCH WITH COMPACTED BACKFILL

ON ROCK - SET INTO SURFACE WITH MASS CONCRETE

SEDIMENT CONTROL FENCE DETAIL

N.T.S.

IN ACCORDANCE WITH LANDCOM 'BLUE BOOK'

SD6-8 SEDIMENT FENCE

TYPICAL SEDIMENT BASIN CONCEPT PLAN

NOTE: LAYOUT IS INDICATIVE ONLY. REFER TO SEDIMENT

& EROSION CONTROL PLAN FOR SITE-SPECIFIC LAYOUT

SEDIMENT BASIN CONSTRUCTION NOTES

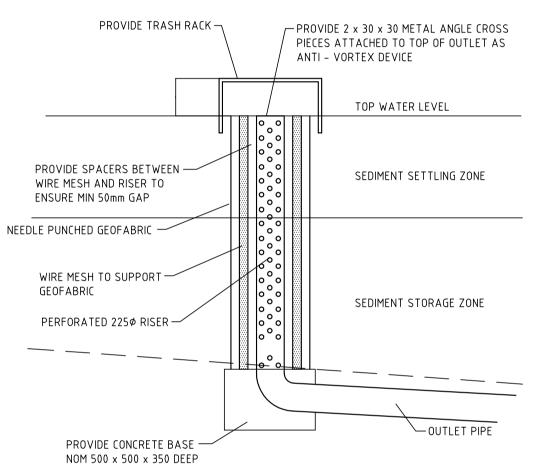
- REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
 CONSTRUCT A CUT-OFF TRENCH 500mm DEEP AND 1200mm WIDE ALONG THE CENTRELINE OF THE EMBANKMENT
- THE RISER CREST.

 MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO

EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH

- 95 PER CENT STANDARD PROCTOR DENSITY.
 4. SELECT FILL FOLLOW THE SWMP THAT IS FREE OF ROOTS,
- WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.

 5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100mm TO HELP BOND COMPACTED FILL TO THE EXISTING SUBSTRATE.
- 6. SPREAD THE FILL IN 100mm TO 150mm LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE SWMP.
 7. CONSTRUCT THE EMERGENCY SPILLWAYY.
- 8. REHABILITATE THE STRUCTURE FOLLOWING THE SWMP.



RISER PIPE DETAIL

NOT FOR CONSTRUCTION

NOTES

THE ARRANGEMENT OF SEDIMENT AND EROSION CONTROL MEASURES

RESPONSIBILITY TO DESIGN, CONSTRUCT AND MAINTAIN WHATEVER

THE CONSTRUCTION WORKS. IT SHALL BE THE CONTRACTORS

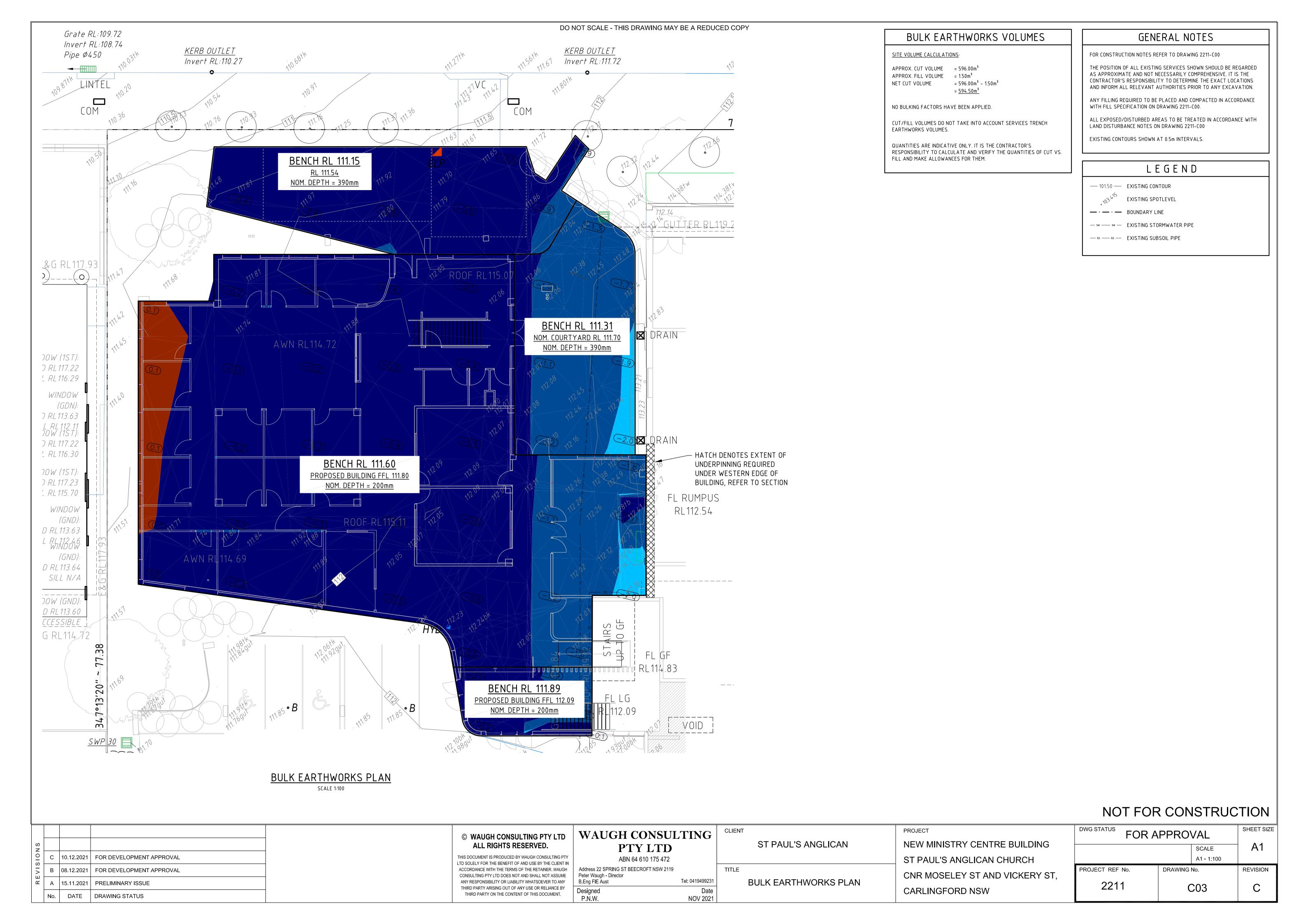
REQUIREMENTS IMPOSED BY ANY STATUTORY AUTHORITY

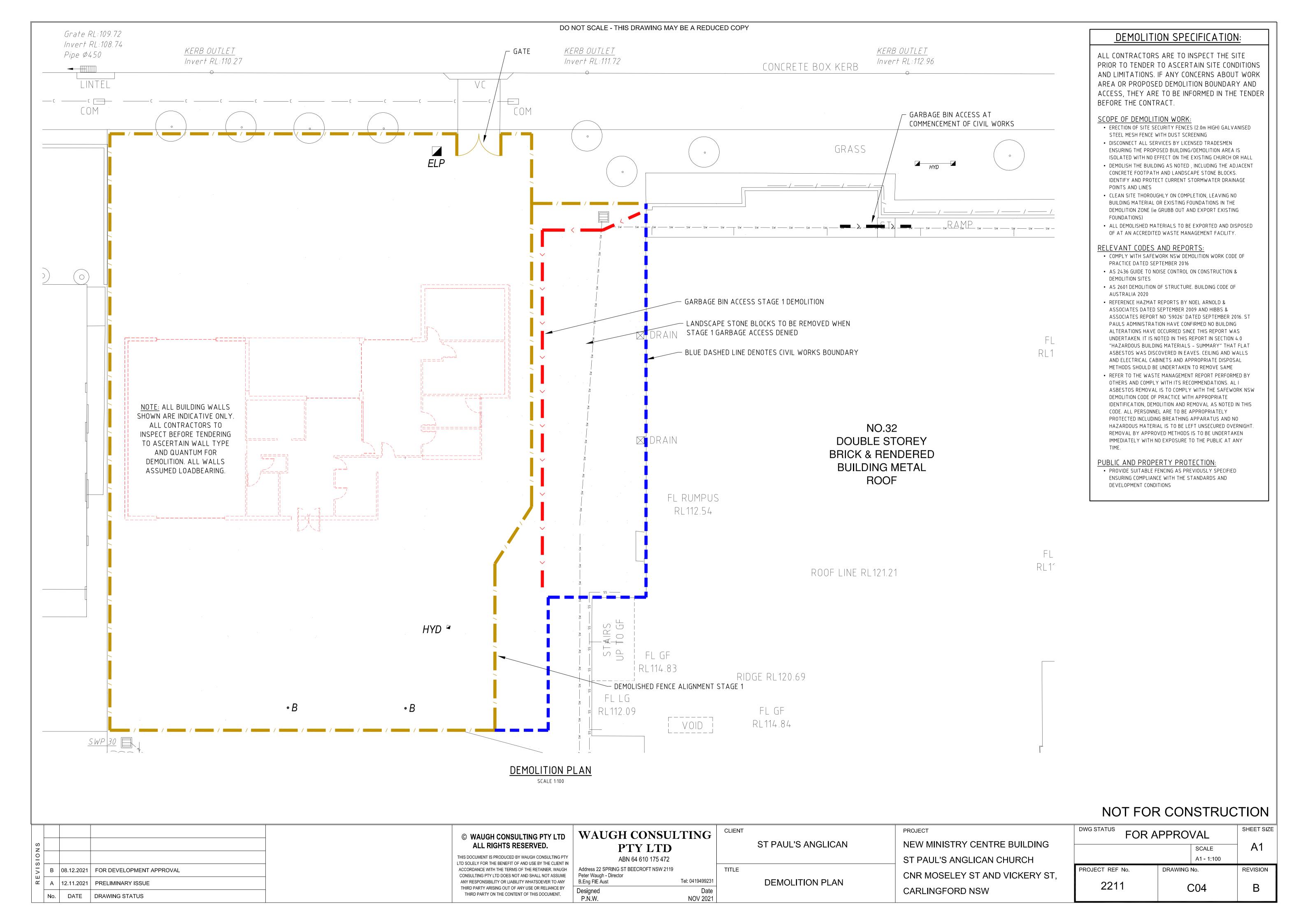
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ADDITIONAL MEASURES THAT MAY BE REQUIRED FOR THE CONTRACTORS

CONSTRUCTION METHODOLOGIES, IN ORDER TO MEET ALL CONDITIONS AND

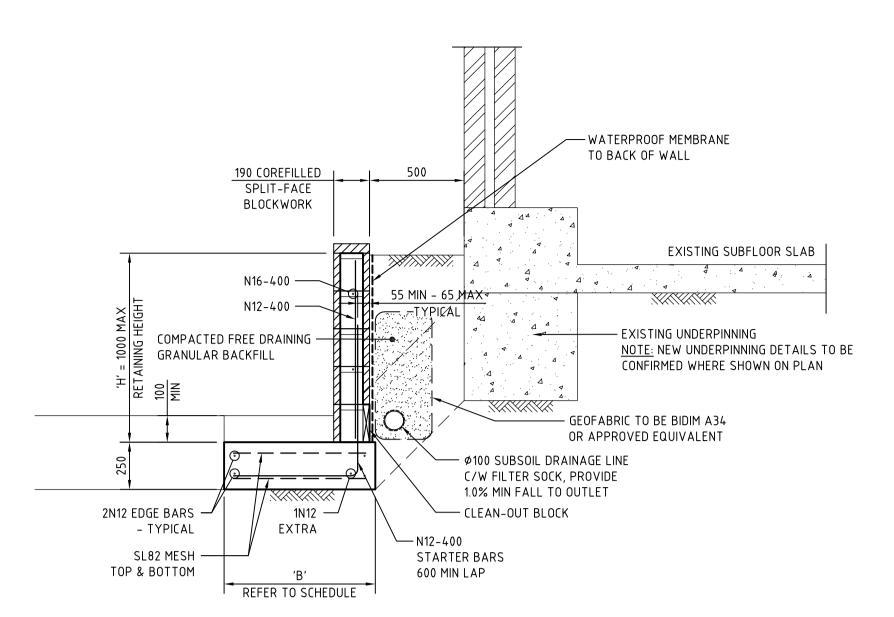
σ ₂	© WAUGH CONSULTING PTY LTD ALL RIGHTS RESERVED.	WAUGH CONSULTING PTY LTD	CLIENT	ST PAUL'S ANGLICAN	PROJECT NEW MINISTRY CENTRE BUILDING	DWG STATUS FOR	R APPROVAL SCALE	SHEET SIZE A1
B 08.12.2021 FOR DEVELOPMENT APPROVAL	THIS DOCUMENT IS PRODUCED BY WAUGH CONSULTING PTY LTD SOLELY FOR THE BENEFIT OF AND USE BY THE CLIENT IN ACCORDANCE WITH THE TERMS OF THE RETAINER. WAUGH CONSULTING PTY LTD DOES NOT AND SHALL NOT ASSUME	ABN 64 610 175 472 Address 22 SPRING ST BEECROFT NSW 2119 Peter Waugh - Director	TITLE	SEDIMENT & EROSION	ST PAUL'S ANGLICAN CHURCH CNR MOSELEY ST AND VICKERY ST,	PROJECT REF No.	A1 - 1:100 DRAWING No.	REVISION
A 15.11.2021 PRELIMINARY ISSUE No. DATE DRAWING STATUS	ANY RESPONSIBILITY OR LIABILITY WHATSOEVER TO ANY THIRD PARTY ARISING OUT OF ANY USE OR RELIANCE BY THIRD PARTY ON THE CONTENT OF THIS DOCUMENT.	B.Eng FIE Aust Tel: 0419499231 Designed Date P.N.W. NOV 2021		CONTROL DETAILS	CARLINGFORD NSW	2211	C02	В

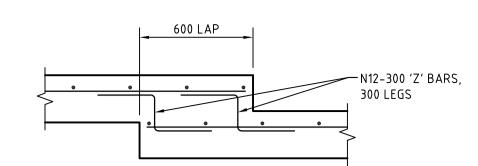




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В	08.12.2021	FOR DEVELOPMENT APPROVAL	ACCORDANCE WITH THE TERMS OF THE RETAINER. WAUGH CONSULTING PTY LTD DOES NOT AND SHALL NOT ASSUME	Address 22 SPRING ST BEECROFT NSW 2119 Peter Waugh - Director	TITLE		CNR MOSELEY ST AND VICKERY ST,	PROJECT REF
А	15.11.2021	PRELIMINARY ISSUE	ANY RESPONSIBILITY OR LIABILITY WHATSOEVER TO ANY	B.Eng FIE Aust Tel: 0419499231		RETAINING WALL PLAN	,	221
No.	DATE	DRAWING STATUS	THIRD PARTY ARISING OUT OF ANY USE OR RELIANCE BY THIRD PARTY ON THE CONTENT OF THIS DOCUMENT.	Designed Date P.N.W. NOV 2021			CARLINGFORD NSW	

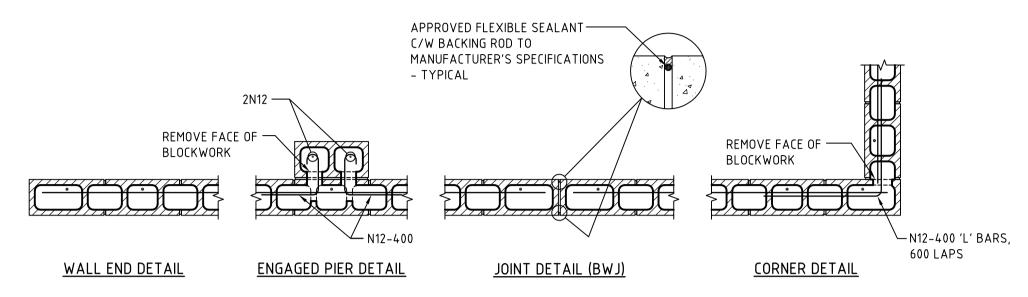
DWG STATUS FOR	SHEET SIZE			
	A1			
		A1 - 1:100		
PROJECT REF No.	DRAWING	DRAWING No.		
2211	(C05		





TYPICAL STEP IN FOOTING DETAIL

SCALE 1:20



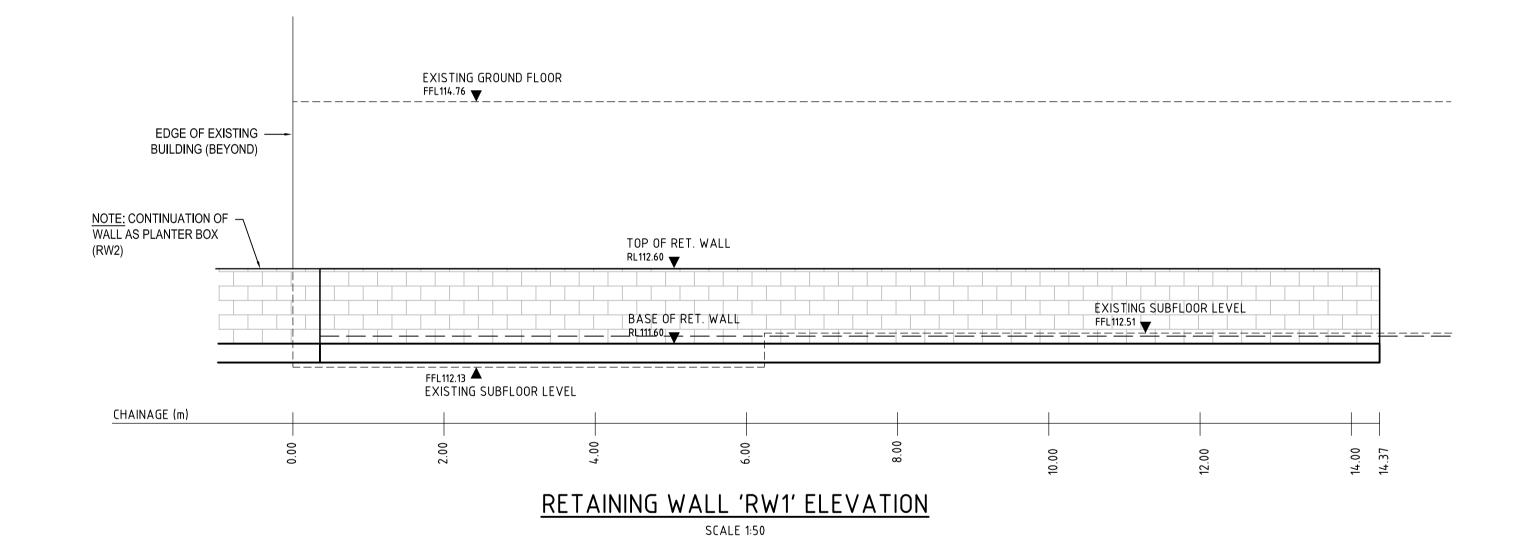
BLOCK RETAINING WALL - RW1

SCALE 1:20

RETAINING WA	ALL SCHEDULE					
′H′	'B'					
WALL HEIGHT	BASE WIDTH					
0-600	500					
800	600					
1000	800					

190mm CONCRETE BLOCKWALL DETAILS

SCALE 1:20



NOT FOR CONSTRUCTION

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σ 2		ALL RIGHTS RESERVED.	PTY LTD	ST PAUL'S ANGLICAN	NEW MINISTRY CENTRE BUILDING		SCALE	A1
0 0	10.12.2021 FOR DEVELOPMENT APPROVAL	THIS DOCUMENT IS PRODUCED BY WAUGH CONSULTING PTY LTD SOLELY FOR THE BENEFIT OF AND USE BY THE CLIENT IN	ABN 64 610 175 472		ST PAUL'S ANGLICAN CHURCH		A1 - 1:20	
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R V	15.11.2021 PRELIMINARY ISSUE	ANY RESPONSIBILITY OR LIABILITY WHATSOEVER TO ANY	B.Eng FIE Aust Tel: 0419499231	RETAINING WALL DETAILS	,	2211	C06	\Box
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