

ALL NEW ZEALAND LOCATIONS

STRUCTURAL WORKS - GENERIC DESIGN

JOB No.	DWG No.	TITLE	REV	DATE	DESCRIPTION
DT-02	SS-RD-01	DRAWING SCHEDULE	1	31/10/2025	FOR CONSENT
DT-02	SS-RD-02	STANDARD NOTES AND DETAILS	1	31/10/2025	FOR CONSENT
DT-02	SS-RD-03	SUGGESTED TANK LAYOUT COMBINATIONS & RETENTION / DETENTION DETAILS	1	31/10/2025	FOR CONSENT
DT-02	SS-RD-04	3500x300 STORMSLAB TANK UNDER CONCRETE DRIVEWAY	1	31/10/2025	FOR CONSENT

NOTE: DRAWINGS SHOWN FOR 300 HIGH STORMSLAB. THE SAME DETAILS APPLY FOR THE 220 HIGH STORMSLAB.

UNDER SINGLE OR MULTI-UNIT RESIDENTIAL DRIVEWAY
 INSTALLATION OF APD TANKS - VEHICLES UP TO 10,000kg
 "MEDIUM" TRAFFIC TABLE 3.1(g) NZS 1170.1, 5kPA / 31kN
 OVER 0.025m² & LOADS FROM C/AS2 CLAUSE 6.1.1.(a). ALL
 NEW ZEALAND LOCATIONS

NOTES:

CONTRACTOR TO CONFIRM ALL LEVELS AND DIMENSIONS AND LOCATE AND MARK ALL SERVICES & DRAINS ON SITE BEFORE COMMENCING WORK

CONTRACTOR TO FOLLOW MATERIAL SPECIFICATION AND LIMITS OF LOCATION WITH RELATION TO STRUCTURES AND RETAINING WALLS

CONTRACTOR TO NOTIFY A CHARTERED PROFESSIONAL ENGINEER IF ANY OF THE DESIGN REQUIREMENTS OUTLINED IN THIS DRAWING PACKAGE ARE NOT ACHIEVEABLE

DEFINITIONS:
 UNO - UNLESS NOTED OTHERWISE

REFER TO STRUCTURAL SPECIFICATION SHEET FOR CONCRETE REINFORCING AND OTHER NOTES

SLAB DESIGNED FOR LIVE LOAD AS PER NZS 1170.1 TABLE 3.1: MEDIUM VEHICLE TRAFFIC AREAS OF 5kPA AND 31kN

CONTRACTOR AND TANK OWNER TO ENSURE TANK IS PLACED IN A POSITION THAT VEHICLE LOADS WILL NOT EXCEED 10,000 kg DURING THE LIFE OF THE TANK.

FOR CONSENT 31-10-25 1

REVISION: DATE: No.:

JOB TITLE:
 UNDER RESIDENTIAL DRIVEWAY
 (10,000 kg VEHICLE OR LESS)
 INSTALLATION OF APD STORMSLAB
 TANKS
 ADDRESS:
 ALL NEW ZEALAND LOCATIONS

DRAWING TITLE:
 DRAWING SCHEDULE

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ORIGINAL SHEET SIZE: A3	JOB No: DT-02
DRAWN: RCE	DRAWING No: SS-RD-01
DATE: SEP 2025	REVISION No: 1
DESIGN: AG	
CHECKED:	SCALE: NTS NTS



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 49 McLaughlins Road, Wiri, Auckland,
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STANDARD NOTES:

DURABILITY ZONE D (NZS3604)

GENERAL:

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

ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED. THE ENGINEERS DRAWINGS SHALL NOT BE SCALED.

DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE STRUCTURE UNTIL ITS COMPLETION AND SHALL ENSURE THAT NO PART OF THE STRUCTURE IS OVERSTRESSED BY EXCESSIVE LOADING.

WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT NEW ZEALAND STANDARDS AND LOCAL AUTHORITY REGULATIONS, EXCEPT WHERE VARIED IN CONTRACT DOCUMENTS.

THE LOCATION, SIZE, AND DETAILS OF ALL PENETRATIONS, HOLES, ETC IN STRUCTURAL MEMBERS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION UNLESS OTHERWISE SHOWN ON STRUCTURAL DRAWINGS.

SUBSTITUTION FOR OR AMENDMENT OF SPECIFIED DETAILS OR MATERIALS SHALL NOT BE CARRIED OUT WITHOUT THE APPROVAL OF THE ENGINEER.

CONCRETE:

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH NZS 3101:2006

NO HOLES CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE APPROVAL OF THE ENGINEER.

CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER.

ALL CONCRETE TO BE MECHANICALLY VIBRATED AND CAREFULLY WORKED AROUND THE REINFORCEMENT AND INTO THE CORNERS OF THE FORMWORK.

MINIMUM COMPRESSIVE STRENGTHS OF CONCRETE AT 28 DAYS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

ELEMENT	GRADE(MPa)
SITE CONCRETE	17.5
SLAB ON GRADE	30
SUSPENDED SLAB	30

ALL CONCRETE IS TO HAVE 15 x 15 CHAMFER TO ALL EXPOSED EDGES UNLESS NOTED OTHERWISE.

FINISHES TO CONCRETE TO BE IN ACCORDANCE WITH NZS 3114.

WATER / CEMENT RATIOS FOR CONCRETE USED IN SLABS ON GRADE SHALL NOT EXCEED 0.45.

REINFORCEMENT:

ALL REINFORCEMENT SHALL CONFORM TO AS/NZS 4671. ALL HOOK BARS AND BENDS SHALL BE MADE WITHOUT FRACTURE IN ACCORDANCE TO NZS 3101. GRADE 300 BARS MAY BE BENT ONCE ONLY.

ALL REINFORCEMENT SHALL BE AS FOLLOWS:

SYMBOL	TYPE - TO AS/NZS 4671
R	PLAIN BARS GRADE 300 MPa
D	DEFORMED BARS GRADE 300 MPa
HD	DEFORMED BARS GRADE 500 MPa - MA
HR	PLAIN BARS GRADE 500 MPa - MA
	MESH TO NZS 3421 (500 MPa)

* REINFORCEMENT SHALL BE CLASS E TO AS/NZS 4671 MANUFACTURED USING THE MICRO ALLOY PROCESS.

REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.

CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DWGS. WHERE NOT SPECIFICALLY DESIGNATED COVER IS TO BE IN ACCORDANCE WITH NZS 3109.

MEMBER	CAST AGAINST NOT EXPOSED TO WEATHER OR WATER	FORMWORK EXPOSED TO WEATHER OR WATER	CAST AGAINST GROUND (SEE NOTE BELOW)
STRIP FOOTINGS	N/A	50	75 *
SLABS	35	50	75 *

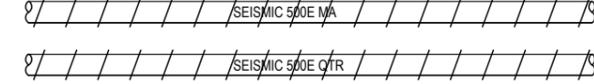
* WHERE THERE IS A PERMANENT IMPERMEABLE MEMBRANE BETWEEN CONCRETE AND GROUND USE 50mm COVER. FOR SITES WITHIN 500M OF MEAN HIGH WATER MARK INCREASE COVER BY 10mm.

NO REINFORCEMENT SPLICES SHALL BE MADE, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS. WITHOUT THE PRIOR APPROVAL OF THE ENGINEER. MINIMUM LAP FOR FABRIC SHALL BE ONE MESH PLUS 50mm.

WELDING OF REINFORCEMENT IS NOT PERMITTED UNLESS SHOWN ON THE DRAWINGS OR

APPROVED BY THE ENGINEER. WHERE WELDING OF REINFORCEMENT IS PERMITTED GRADE 500 STEEL SHALL NOT BE WELDED OR REBENT UNLESS IT IS CLEARLY MARKED AS MICRO ALLOY GRADE 500, QUENCHED AND TEMPERED STEEL SHALL NOT BE WELDED OR REBENT.

BAR MARKING FOR IDENTIFICATION OF MICRO ALLOY (MA) AND QUENCHED AND TEMPERED (QTR) REINFORCING ARE SHOWN BELOW: (INDICATIVE ONLY)



REINFORCEMENT SHALL BE ADEQUATELY FIXED AND SUPPORTED TO PREVENT IT SAGGING OR MOVING. MESH TO BE FULLY SUPPORTED ON PROPRIETARY CHAIRS. REFER TO SPECIFICATION FOR MINIMUM FIXING REQUIREMENTS.

THE MINIMUM CLEAR SPACING BETWEEN CONDUITS, CABLES, PIPES AND BARS SHALL BE AS REQUIRED BY NZS 3101 BUT NOT LESS THAN THREE DIAMETERS. CONDUITS IN SLABS ARE TO BE PLACED ABOVE BOTTOM REINFORCEMENT AND BELOW TOP REINFORCEMENT.

LEGEND USED FOR REINFORCEMENT LOCATION

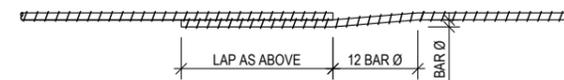
- BS BOTH SIDES
- BB BOTTOM BOTTOM
- B BOTTOM
- TT TOP TOP
- T TOP
- EW EACH WAY
- EF EACH FACE
- NF NEAR FACE
- FF FAR FACE
- ABR ALTERNATE BARS REVERSED

STANDARD SPLICE LAP LENGTHS FOR DEFORMED BARS:-

BAR SIZE DIA.	CONCRETE LAPS	
	D GRADE 300	HD GRADE 500
10	400	600
12	450	750
16	600	1000
20	750	1200
25	900	1500
28	1100	1700
MESH	1 MESH SQ. + 50mm	

NOTE: FOR ROUND BARS SPLICE LAP LENGTH TO BE TWICE THE SPLICE LENGTH OF DEFORMED BARS.

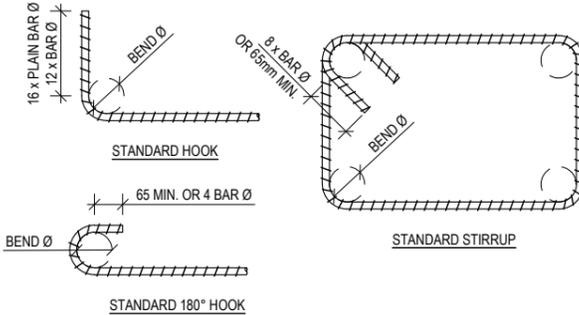
LAPS IN BEAMS & COLUMNS SHALL BE VIA AN OFFSET LAP CREATED BY CRANKING OF THE BAR AS SHOWN BELOW:



REVERSE COLD BENDING SHALL NOT BE CARRIED OUT ON-SITE. HOT BENDING MAY BE CARRIED OUT AT THE DISCRETION AND WITH THE WRITTEN APPROVAL OF THE ENGINEER. REFER TO SPECIFICATION FOR HEATING & HOT BENDING PROCEDURE.

COLD BENDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH NZS 3109.

BENDS FOR ALL BARS EXCEPT STIRRUPS & TIES:-



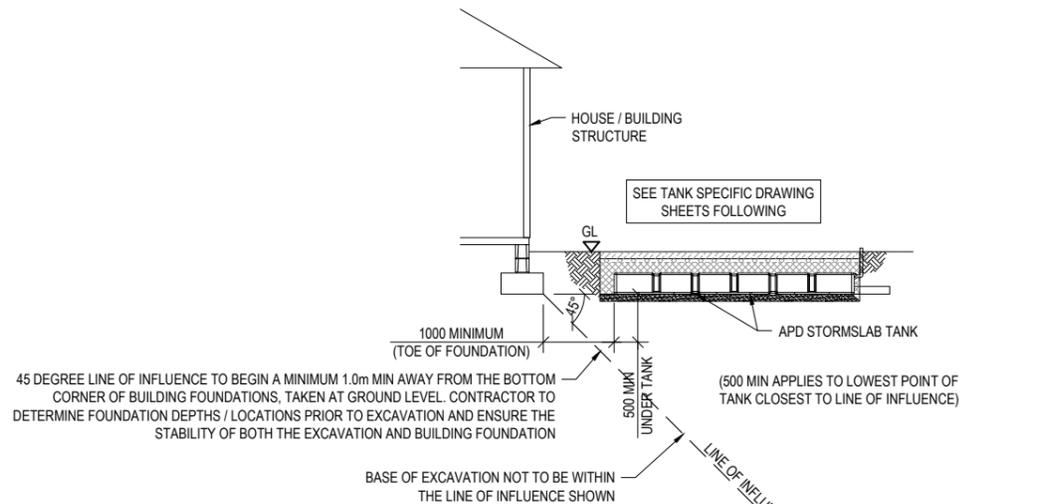
STEEL GRADE	BAR DIAMETER	MINIMUM BEND DIAMETER
300 & 500	6 to 20	5 BAR DIAMETERS
300 & 500	25 to 40	7 BAR DIAMETERS

FOUNDATIONS:

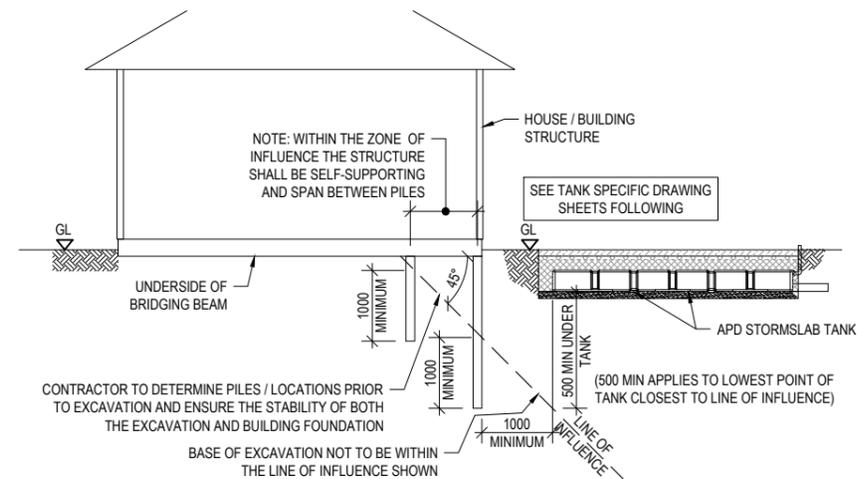
FOUNDATIONS ARE TO BE FOUNDED ON ORIGINAL UNDISTURBED GROUND, AT A MINIMUM DEPTH OF 600mm. BEFORE ANY CONCRETE IS PLACED THE SOILS SHALL BE VERIFIED TO BE 'GOOD GROUND' TO NZS3604.

50mm OF SITE CONCRETE MAY BE PLACED UNDER FOUNDATIONS TO CREATE A CLEAN SURFACE TO PLACE REINFORCING ON WHEN REQUIRED.

NOTE: IF THE TANK EXCAVATION DOES NOT COMPLY WITH THE REQUIREMENTS BELOW - CONTRACTOR TO NOTIFY CHARTERED PROFESSIONAL ENGINEER FOR A SITE SPECIFIC CONSULTATION

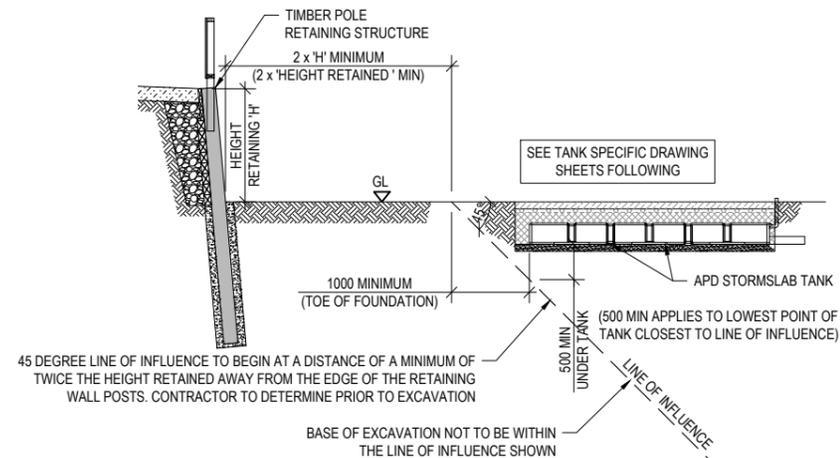


A TANK POSITION NEAR BUILDING FOUNDATIONS
SCALE: NTS



B TANK POSITION NEAR PILED FOUNDATIONS
SCALE: NTS

NOTE: REFER TO STORMWATER CODE OF PRACTICE DRAWING SW22.



C TANK POSITION BELOW TIMBER RETAINING WALL
SCALE: NTS

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SLAB DESIGNED FOR LIVE LOAD AS PER NZS1170.1 TABLE 3.1: MEDIUM VEHICLE TRAFFIC AREAS OF 5kPa AND 31kN

CONTRACTOR AND TANK OWNER TO ENSURE TANK IS PLACED IN A POSITION THAT VEHICLE LOADS WILL NOT EXCEED 10,000 kg DURING THE LIFE OF THE TANK.

FOR CONSENT 31-10-25 1

REVISION: DATE: No.:

JOB TITLE:
UNDER RESIDENTIAL DRIVEWAY (10,000 kg VEHICLE OR LESS) INSTALLATION OF APD STORMSLAB TANKS

ADDRESS:
ALL NEW ZEALAND LOCATIONS

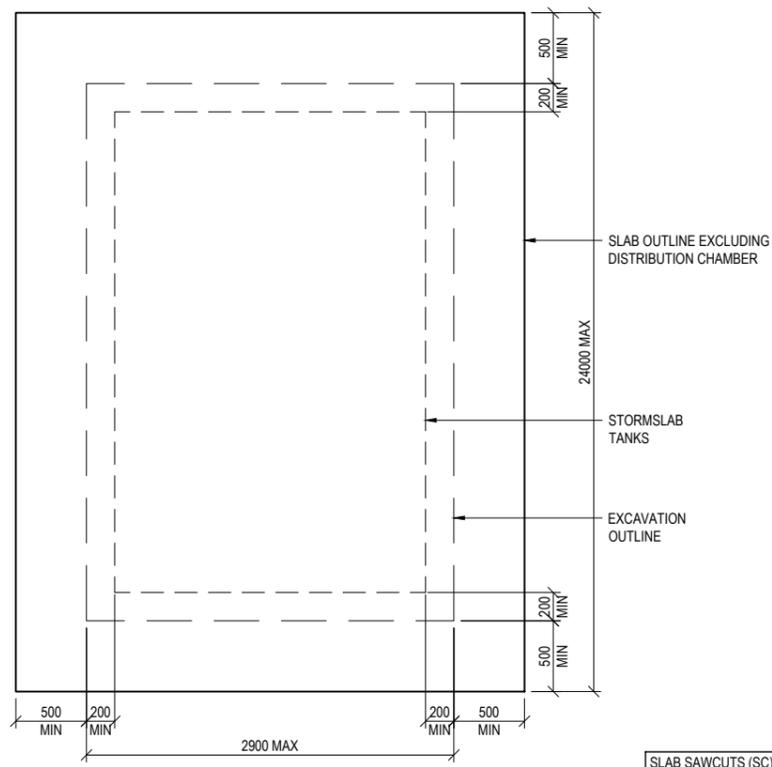
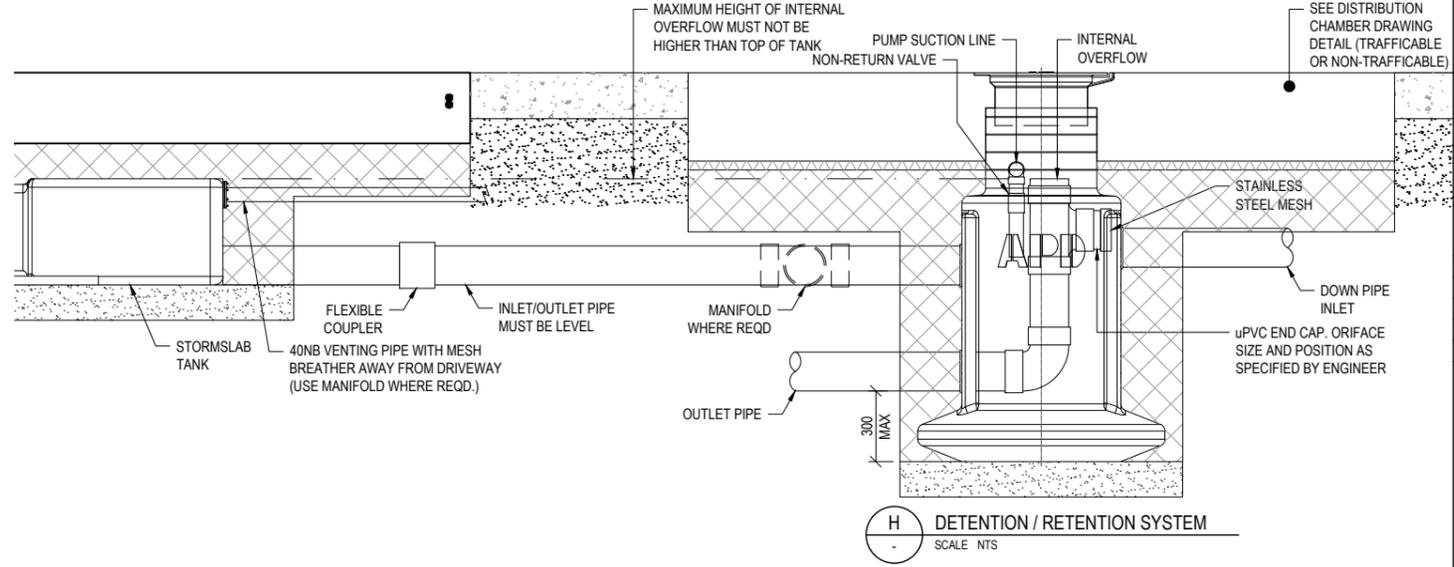
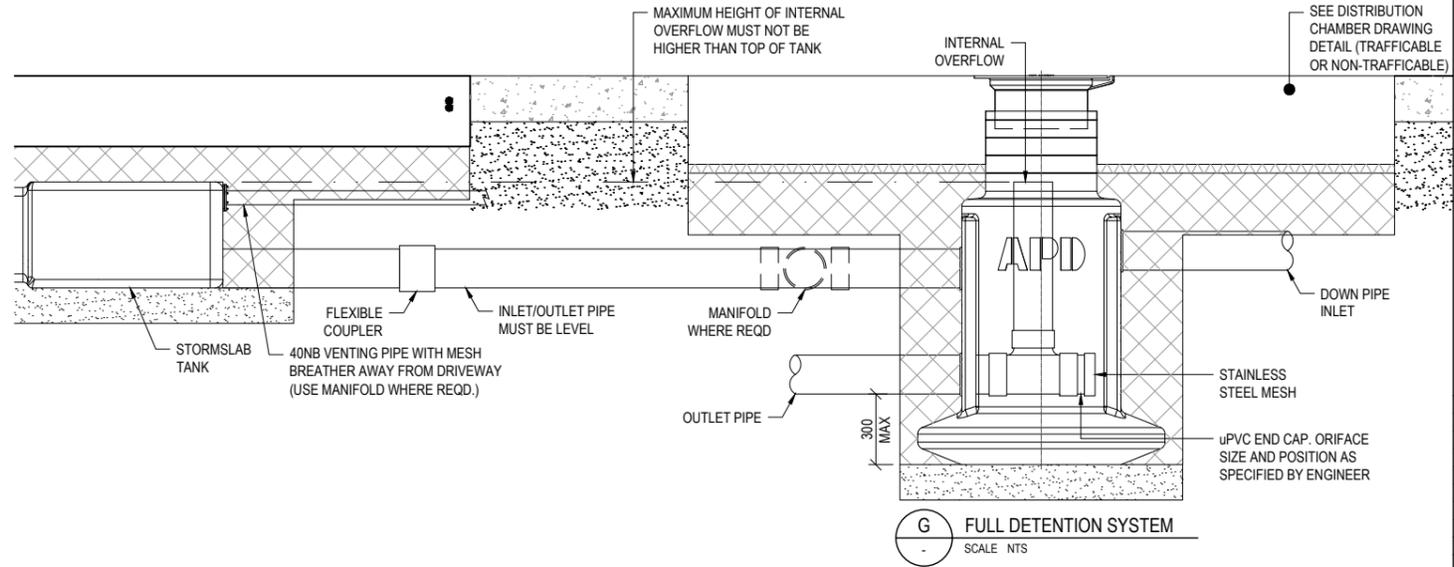
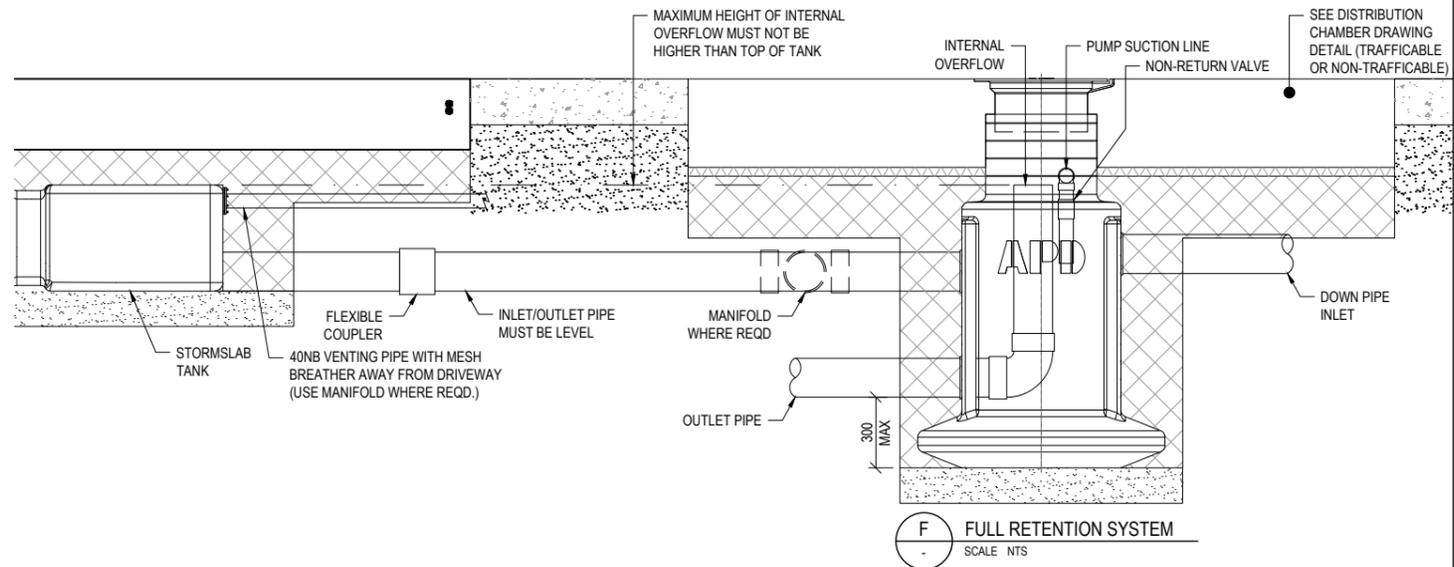
DRAWING TITLE:
STANDARD NOTES AND DETAILS

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STORMSLAB TANKS WITHOUT DISTRIBUTION CHAMBER
SCALE NTS

- SLAB SAWCUTS (SC):
1. SAWCUTS SHOULD BE PLACED AT 5m CRS MAX.
 2. PLACE 40mm DEEP x 3mm WIDE SAWCUTS WITHIN 24-48 HOURS AFTER POURING CONCRETE

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FOR CONSENT 31-10-25 1
REVISION: DATE: No.:

JOB TITLE:
UNDER RESIDENTIAL DRIVEWAY (10,000 kg VEHICLE OR LESS) INSTALLATION OF APD STORMSLAB TANKS

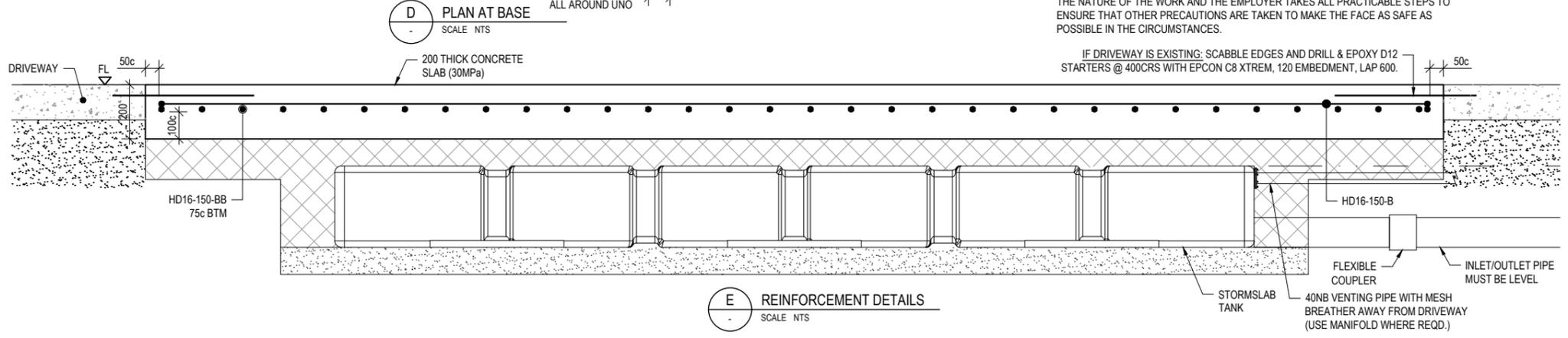
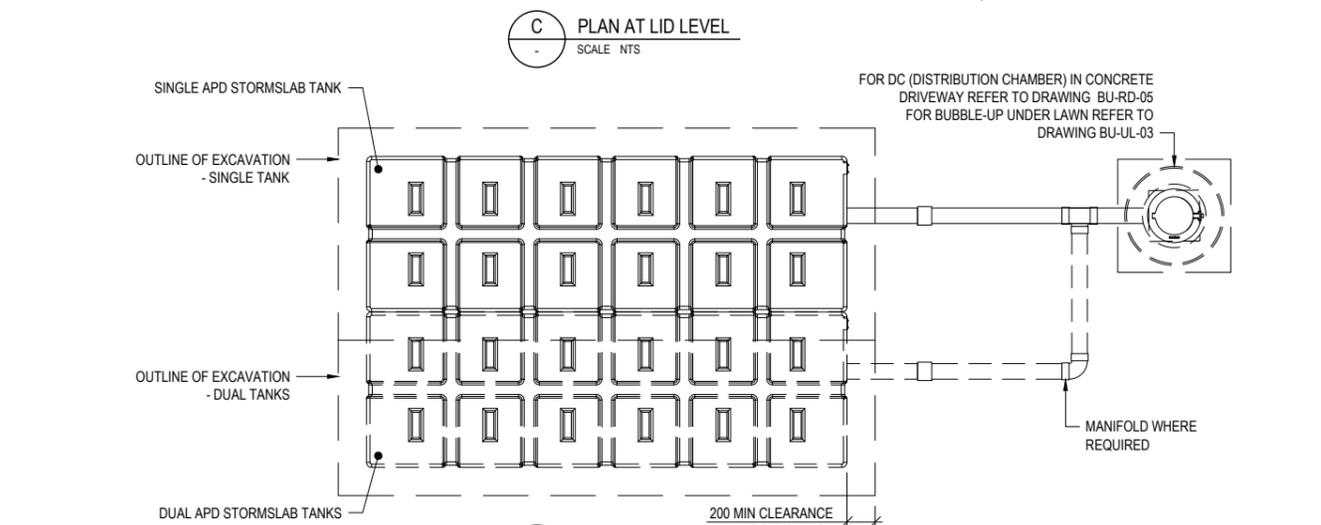
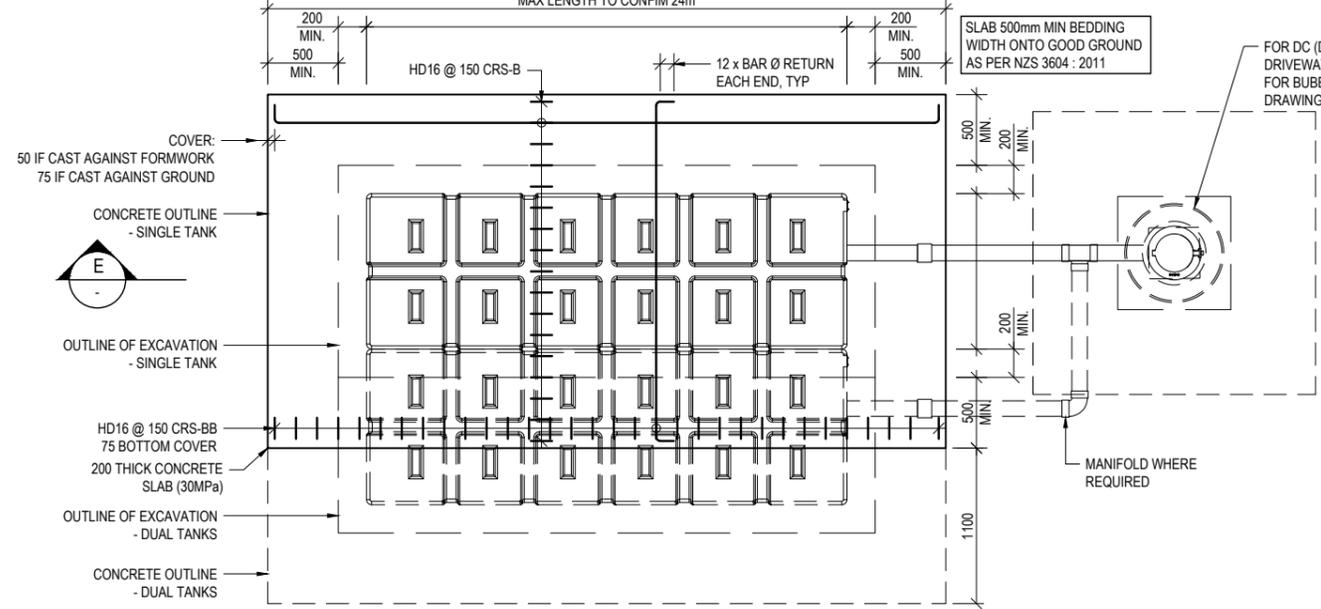
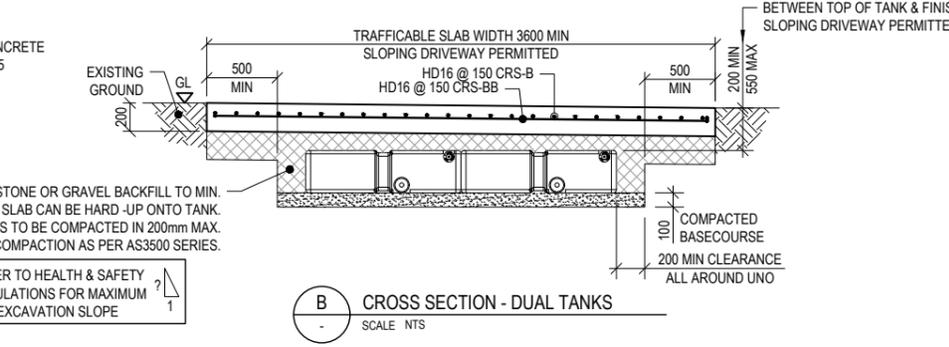
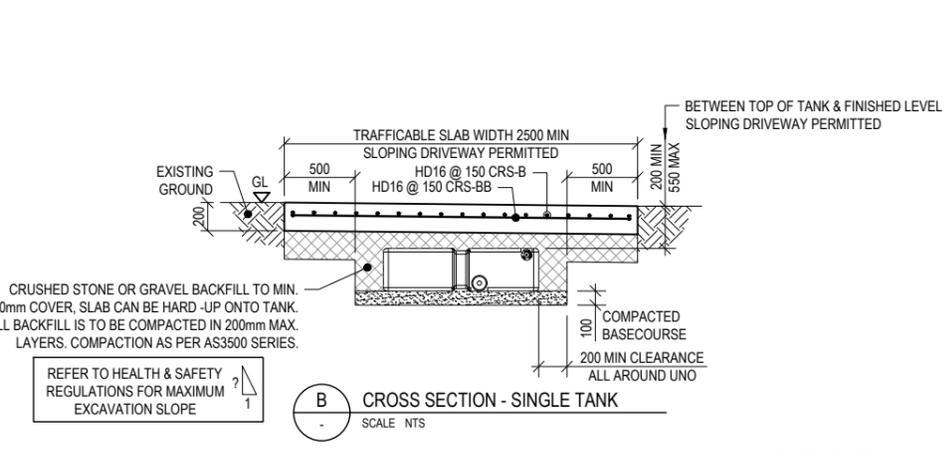
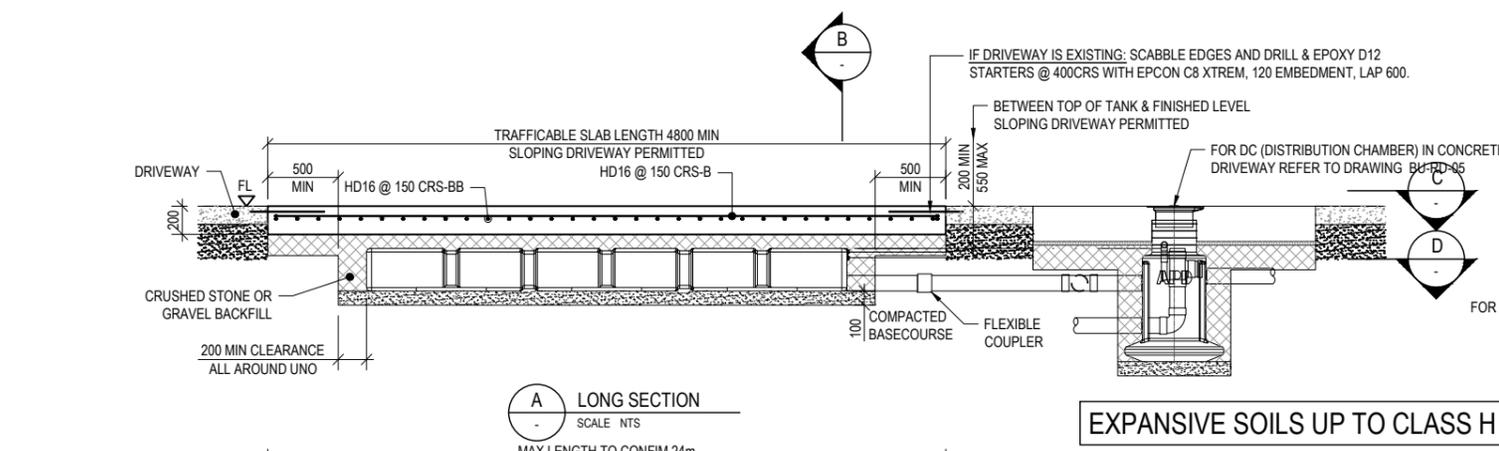
ADDRESS:
ALL NEW ZEALAND LOCATIONS

DRAWING TITLE:
SUGGESTED TANK LAYOUT COMBINATIONS & RETENTION / DETENTION DETAILS

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ORIGINAL SHEET SIZE: A3 JOB No: DT-02
DRAWN: RCE DRAWING No: **SS-RD-03**
DATE: SEP 2025 REVISION No: 1
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CHECKED: SCALE: NTS

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49 McLaughlins Road, Wiri, Auckland,
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EXPANSIVE SOILS UP TO CLASS H

TANK LOCATION - PROXIMITY TO NEARBY STRUCTURES:

THE LOCATION OF THE TANK EXCAVATION IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE TANK OWNER. THE CONTRACTOR IS TO FOLLOW THE LIMITATIONS OF THE DIAGRAMS SHOWN OR NOTIFY A CHARTERED PROFESSIONAL ENGINEER FOR A SITE SPECIFIC CONSULTATION. THE CONTRACTOR IS TO ENSURE NEARBY FOUNDATIONS OF NEW AND / OR EXISTING STRUCTURES ARE NOT UNDERMINED BY THE EXCAVATION FOR THE TANK.

EXCAVATION CLEARANCE:

THE CONTRACTOR IS TO ENSURE A MINIMUM OF 200mm BETWEEN EDGE OF TANK AND EDGE OF EXCAVATION WALL AT THE NARROWEST LOCATION.

SOIL CONDITIONS:

THIS DESIGN ASSUMES SITE SOILS WILL MEET THE REQUIREMENTS OF NZS3604:2011 CLASSIFICATION OF 'GOOD GROUND' AND AS2870:2011 SOIL EXPANSIVITY CLASS 'H'. THE CONTRACTOR IS TO CONFIRM THE SITE EXHIBITS THESE PROPERTIES OR NOTIFY A CHARTERED PROFESSIONAL ENGINEER FOR CONSULTATION. FOR IL2, 50 YEARS DESIGN LIFE, Z <= 0.4

TEMPORARY SUPPORT & SHORING:

TEMPORARY SUPPORT AND SHORING DURING EXCAVATION AND PREPARATION IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE IN ACCORDANCE WITH HEALTH AND SAFETY AT WORK ACT 2015 (HSWA), THE HEALTH AND SAFETY AT WORK (GENERAL RISK AND WORKPLACE MANAGEMENT) REGULATIONS 2016 (GRWM REGULATIONS) AND THE HEALTH AND SAFETY IN EMPLOYMENT REGULATIONS 1995 (HSE REGULATIONS), REGULATION 24 FOR EXCAVATIONS WITH FACE MORE THAN 1.5m HIGH (AS BELOW):

- 1) SUBJECT TO SUBCLAUSE (2) OF THIS REGULATION, EVERY EMPLOYER SHALL TAKE ALL PRACTICABLE STEPS TO ENSURE THAT, WHERE ANY FACE OF ANY EXCAVATION IS MORE THAN 1.5m HIGH, THAT FACE IS SHORED.
- 2) SUBCLAUSE (1) OF THIS REGULATION DOES NOT APPLY WHERE:
 - a) THE FACE IS CUT BACK TO A SAFE SLOPE, OR
 - b) THE MATERIAL IN THE FACE IS OF PROVEN GOOD STANDING QUALITY UNDER ALL REASONABLY FORESEEABLE CONDITIONS OF WORK AND WEATHER; OR
 - c) BY REASON OF THE NATURE OF THE WORK AND THE POSITION OF ANY EMPLOYEE IN THE VICINITY, THERE IS NO DANGER TO ANY EMPLOYEE; OR
 - d) THE PROVISION OF SHORING IS IMPRACTICABLE OR UNREASONABLE BY REASON OF THE NATURE OF THE WORK AND THE EMPLOYER TAKES ALL PRACTICABLE STEPS TO ENSURE THAT OTHER PRECAUTIONS ARE TAKEN TO MAKE THE FACE AS SAFE AS POSSIBLE IN THE CIRCUMSTANCES.

- 3) EVERY EMPLOYER SHALL TAKE ALL PRACTICABLE STEPS TO ENSURE THAT ANY SHORING USED IN ANY EXCAVATION AT THE PLACE OF WORK:
 - a) CONSISTS OF MATERIALS THAT ARE SUITABLE FOR THE PURPOSE FOR WHICH THEY ARE TO BE USED, OF SOUND QUALITY, AND ADEQUATE STRENGTH FOR THE PARTICULAR USE; AND
 - b) HAS BRACING'S, JACKS, AND STRUTS THAT ARE SECURELY HELD TO PREVENT ACCIDENTAL DISPLACEMENT, AND PACKING'S AND WEDGES THAT ARE HELD BY NAILS OR SPIKES; AND
 - c) IS PLACED IN A PROPER MANNER BY A BY AN EXPERIENCED PERSON UNDER COMPETENT SUPERVISION; AND
 - d) IS NOT ALTERED, DISMANTLED, OR INTERFERED WITH EXCEPT ON THE INSTRUCTIONS OF THE EMPLOYER OR A REPRESENTATIVE OF THE EMPLOYER.

BACKFILL AND BASECOURSE:

BACKFILL AND BASECOURSE MATERIAL TO BE EITHER:

CRUSHED STONE OR GRAVEL: WASHED, WITH ANGULAR PARTICLE SIZES NO LARGER THAN 20mm WITH NO MORE THAN 5% PASSING A 2.36mm SIEVE. DRY DENSITY MUST NOT BE LESS THAN 1500 Kg / CUBIC METRE. APPROVED BACKFILL SHOULD NOT BE MIXED WITH SAND OR NATIVE SOILS AND SHOULD ALWAYS BE BROUGHT UP TO AT LEAST TANK CROWN LEVEL. THE USE OF NON-SPECIFIED BACKFILL MATERIAL COULD RESULT IN TANK FAILURE. GAP20 IS ACCEPTABLE.

OR IF CRUSHED STONE OR GRAVEL IS NOT AVAILABLE, THEN SPECIFIC QUARRY AGGREGATE MIX OF **NATURALLY ROUNDED GRAVEL:** CLEAN NATURALLY ROUNDED AGGREGATE WITH PARTICLE SIZES NO LARGER THAN 19mm WITH NO MORE THAN 5% PASSING A 2.36mm SIEVE. DRY DENSITY MUST NOT BE LESS THAN 1500 Kg / CUBIC METRE.

THE CONTRACTOR IS TO WORK IN MAXIMUM BACKFILL LIFTS OF 200mm. AFTER EACH LIFT, THE CONTRACTOR TO USE LONG HANDLED PROBE TO WORK THE BACKFILL MATERIAL UNDER THE ENTIRE LENGTH OF THE TANK AND WITHIN ANY RIBS. ALL VOIDS AND SPACES SHOULD BE FILLED TO ENSURE ADEQUATE SUPPORT OF TANK.

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FOR CONSENT	31-10-25	1
REVISION:	DATE:	No.:

JOB TITLE:
UNDER RESIDENTIAL DRIVEWAY (10,000 kg VEHICLE OR LESS) INSTALLATION OF APD STORMSLAB TANKS

ADDRESS:
ALL NEW ZEALAND LOCATIONS

DRAWING TITLE:
STORMSLAB TANK UNDER DRIVEWAY

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