

DEVAN StormVAULT GENERAL INSTALLATION INSTRUCTIONS

JOB NO.	DWG NO.	TITLE	REV	DATE	DESCRIPTION

A	15/1/08	FOR INFORMATION ONLY	TS	APT							
no	date	issue/revision detail	by	chk							

client
DEVAN TANKS LIMITED

project
**UNDERGROUND TANK
INSTALLATION
ALL NZ LOCATIONS**

drawing title
**StormVAULT INSTALLATION
INSTRUCTIONS**

Scale
AS SHOWN

File Number
TU12

drawing number
2076-C9000-110

rev.
A



Sigma Consultants Limited
115 Hinemoa Street
PO Box 553, Rotorua, New Zealand
Phone 07-347 3456, Fax 07-347 3459

NOTES:

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SHOWN

REFER TO STRUCTURAL SPECIFICATIONS SHEET FOR CONCRETE REINFORCING & OTHER NOTES

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

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

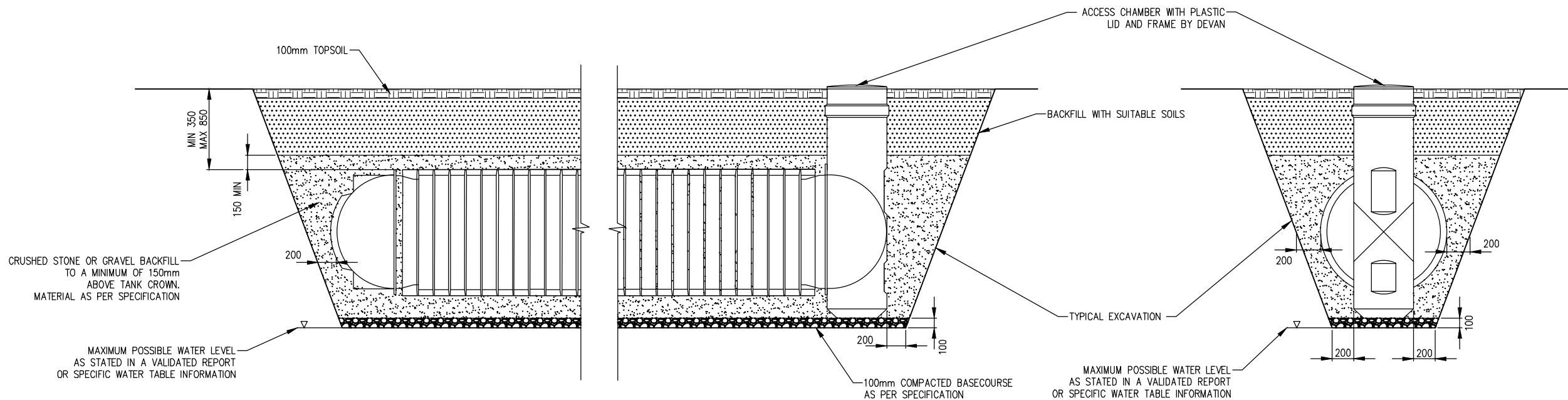
CONTRACTOR TO NOTIFY A CHARTERED PROFESSIONAL ENGINEER IF ANY OF THE DESIGN REQUIREMENTS OUTLINED IN THIS DRAWING PACKAGE ARE NOT ACHIEVEABLE

REFER TO DEVAN TANKS LTD FOR MAXIMUM BURIAL DEPTH ALLOWANCES

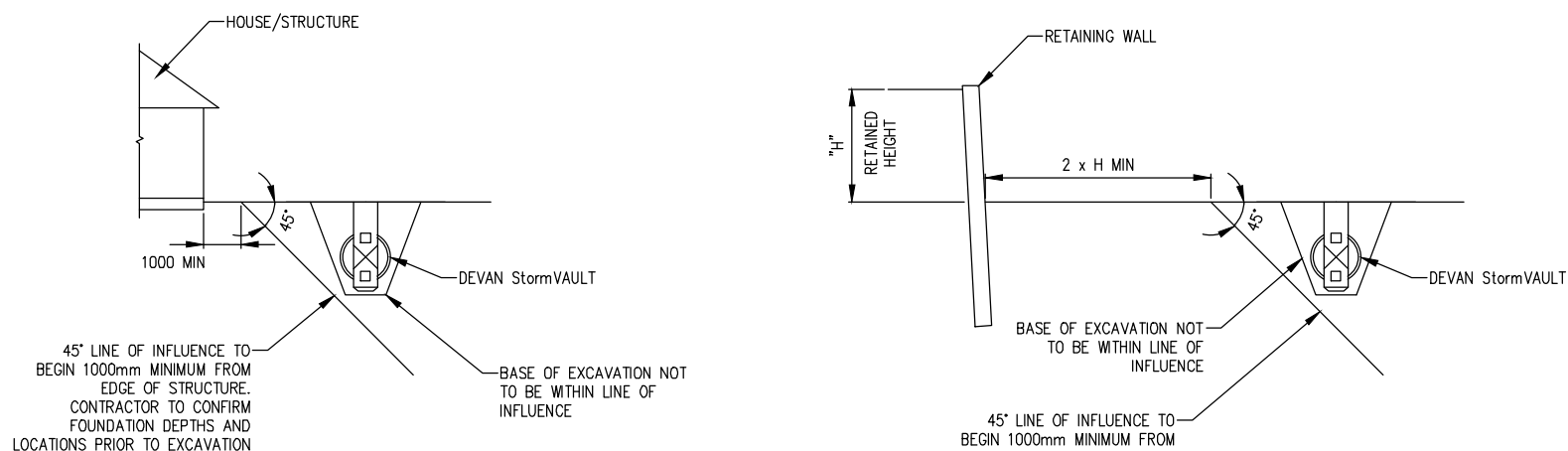
TEMPORARY SUPPORT AND SHORING TO BE CARRIED OUT IN ACCORDANCE WITH WORKSAFE EXCAVATION SAFETY GUIDELINES

StormVAULT INSTALLATION TO BE CARRIED OUT IN CONJUNCTION WITH DEVAN PRODUCT INFORMATION GUIDE AND THESE DRAWINGS

NOTE: THIS SHEET IS FOR THE INSTALLATION OF TANKS ABOVE MAXIMUM POSSIBLE WATER TABLE LEVELS. SITE SPECIFIC REPORTS OR WATER TABLE INFORMATION MUST PROVE THE WATER LEVEL CAN NOT POSSIBLY RISE ABOVE THE BOTTOM OF THE EXCAVATION. IF THIS INFORMATION CAN NOT BE PROVIDED, REFER TO SHEET TU13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND OWNER TO ENSURE CORRECT TANK INSTALLATION IN ACCORDANCE WITH THE DEVAN INSTALLATION GUIDES AND DRAWINGS



1200mm DIAMETER TANK TYPICAL INSTALLATION



TANK POSITION NEAR STRUCTURE

TANK POSITION NEAR RETAINING WALL

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 CONTRACTOR TO ENSURE NEARBY FOUNDATIONS OF NEW AND/OR EXISTING STRUCTURES ARE NOT UNDERMINED BY THE EXCAVATION FOR THE TANK.

EXCAVATION CLEARANCE:
CONTRACTOR TO ENSURE A MINIMUM OF 200MM BETWEEN EDGE OF TANK AND EDGE OF EXCAVATION WALL AT THE NARROWEST LOCATION.

BACKFILL AND BASECOURSE:
BACKFILL AND BASECOURSE MATERIAL TO BE EITHER;
CRUSHED STONE OR GRAVEL: WASHED, WITH ANGULAR PARTICLE SIZES NO LARGER THAN 13.2MM WITH NO MORE THAN 5% PASSING A 2.36MM SIEVE. DRY DENSITY MUST NOT BE LESS THAN 1500KG/CUBIC METRE.
APPROVED BACKFILL SHOULD NOT BE MIXED WITH SAND OR NATIVE SOILS AND SHOULD ALWAYS BE BROUGHT UP TO AT LEAST THE TANK CROWN LEVEL. THE USE OF NON-SPECIFIED BACKFILL MATERIAL COULD RESULT IN TANK FAILURE. (I.E. GAP10)
OR IF CRUSHED STONE/GRAVEL NOT AVAILABLE, SPECIFIC QUARRY AGGREGATE MIX REQUIRED AS BELOW:
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 1500KG/CUBIC METRE.

CONTRACTOR TO WORK IN MAXIMUM BACKFILL LIFTS OF 300MM. AFTER EACH LIFT, 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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SIGMA
Engineers | Architects | Planners
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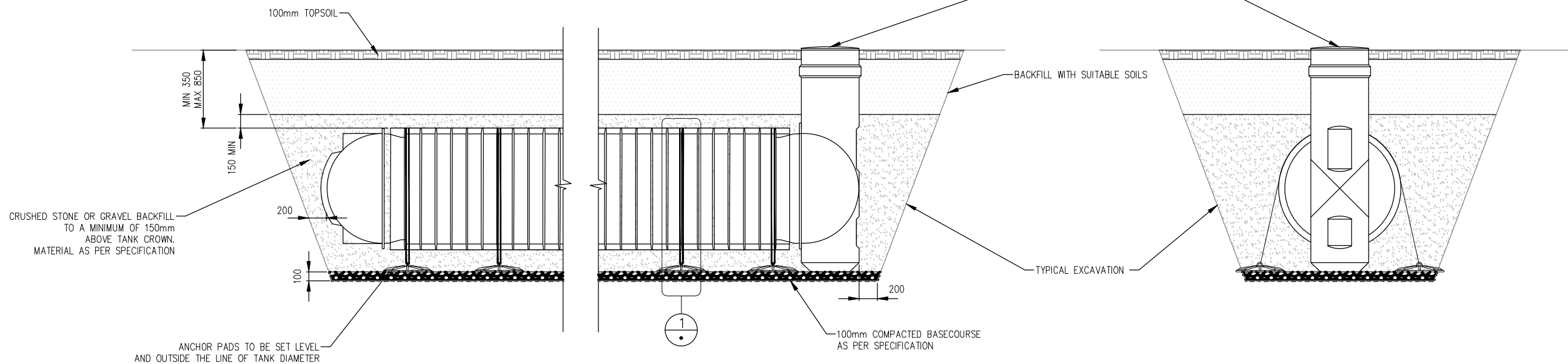
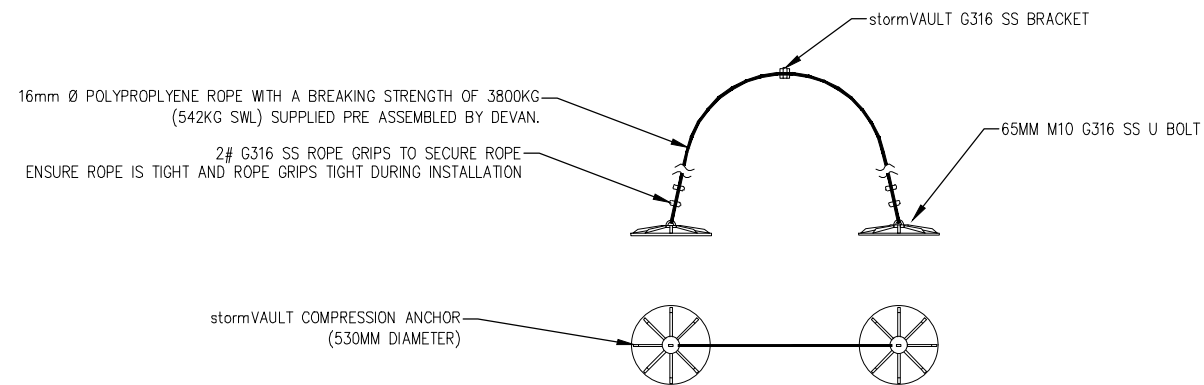
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1200mm DIAMETER TANK ANCHORED INSTALLATION

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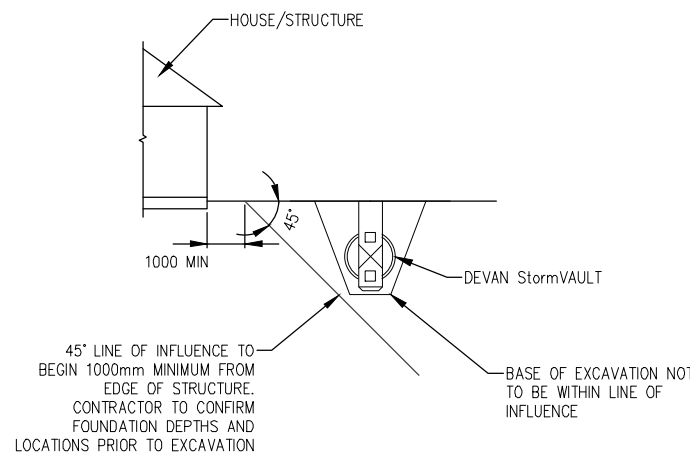
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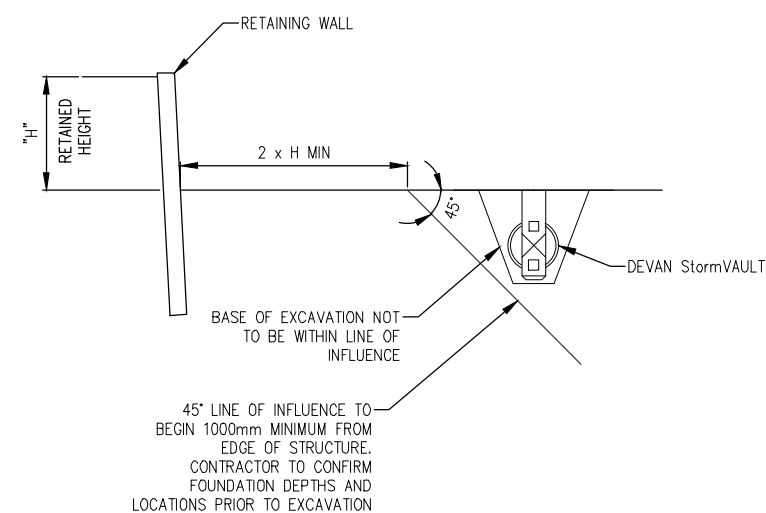
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TANK POSITION NEAR STRUCTURE



TANK POSITION NEAR RETAINING WALL

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B	28/9/21	UPDATED COMPRESSION ANCHOR DETAILS	BH	APT
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