

STORMWATER SERVICES
11 SEAFORTH CRES, SEAFORTH NSW

LINETYPES

 PROPOSED STORMWATER DRAINAGE
 EXISTING STORMWATER DRAINAGE
 PROPOSED SUB-SOIL DRAINAGE
 EXISTING SUB-SOIL DRAINAGE

SYMBOLS

	DOWNPIPE
	CLEAR OUT POINT
	RAIN WATER OUTLET
	PLANTER OUTLET
	OVERFLOW
	OVERLAND FLOW PATH
	PROPOSED TRENCH DRAIN
	PROPOSED STW PIT WITH GRATE
	PROPOSED STW PIT WITH COVER
	EXISTING KERB INLET PIT

STORMWATER NOTES

1. CONFIRM LOCATION, SIZE, CONDITION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORK.
2. ALL WORK TO BE IN ACCORDANCE WITH LOCAL AUTHORITIES REQUIREMENTS, BCA AND RELEVANT AUSTRALIAN STANDARDS (IN PARTICULARLY AS 3500)
3. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER CONSULTANTS DOCUMENTS. ALL DISCREPANCIES SHALL BE REFERRED TO THE PROJECT MANAGER BEFORE PROCEEDING WITH THE WORK.
4. LOCATION OF ALL DOWNPIPES, PITS AND PIPEWORK IS DIGRAMMATIC ONLY FINAL LOCATION TO BE CO-ORDINATED DURING CONSTRUCTION CERTIFICATE DOCUMENTATION.
5. ALL MATERIALS USED IN THE WORK SHALL BE NEW AND OF THE BEST QUALITY AND TYPE AVAILABLE TO CONFORM WITH THE RELEVANT AUSTRALIAN STANDARDS AND BEAR THE REQUIRED STANDARDS MARK AND WATERMARK.
6. MAKE ALL APPLICATIONS TO LOCAL COUNCIL. PAY ALL FEES AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS AS REQUIRED BY THE AUTHORITIES.
7. PIPEWORK UP TO 225mm DIAMETER SHALL BE UPVC DRAINAGE WASTE GRADE WITH SOLVENT WELDED JOINTS.
8. PIPEWORK SHALL BE LAID AT 1:100 MINIMUM GRADE UNLESS NOTED OTHERWISE. PIPEWORK MAY BE LAID AT STEEPER GRADIENTS IF REQUIRED TO MEET COVER REQUIREMENTS OR AS NOMINATED BY PIPEWORK INVERT LEVELS.
9. SUBSOIL PIPEWORK SHALL BE INSTALLED AS REQUIRED, INCLUDING BEHIND ALL RETAINING STRUCTURES, PLANTERS AND WHERE GROUND WATER IS ENCOUNTERED. SHALL BE 90mm SLOTTED UPVC PIPE WRAPPED IN CLOTH SOCK AND SURROUNDED WITH 150mm THICKNESS OF 20mm DIAMETER BLUE METAL AND SURROUNDED IN GEOTEXTILE FABRIC.
10. ALL EXTERNAL LEVELS TO FALL AWAY FROM BUILDING, BUILDER TO ENSURE THRESHOLD REQUIREMENTS, OVERLAND FLOW PATHS TO BE MAINTAINED AROUND BUILDING TO PREVENT WATER INGRESS.
11. ALL LANDSCAPED AREAS LOCATED ABOVE CONCRETE SLABS TO BE EQUIPPED WITH DEDICATED OUTLET, WATERPROOFING MEMBRANE, DRAINAGE CELL AND GEOFABRIC.
12. SUBSOIL UPLIFT PRESSURE, VERTICAL WALL DRAINAGE AND PIT CONSTRUCTION DETAILS TO BE CONFIRMED / CO-ORDINATED WITH STRUCTURAL AND GEOTECHNICAL ENGINEERS DURING CONSTRUCTION STAGE OF THE PROPOSED DEVELOPMENT.
13. ALL BALCONIES TO BE PROVIDED WITH SAFETY OVERFLOWS (FINAL LOCATION OF OVERFLOWS TO BE CONFIRMED BY ARCHITECT).

DRAWING SCHEDULE

DWG No	DESCRIPTION
H-DA-00	COVER SHEET- LEGEND & CALCS
H-DA-01	EROSION / SEDIMENT CONTROL PLAN
H-DA-02	STORMWATER- PLANS

OSD & RAINWATER TANK CALCULATIONS

ALL IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL'S
WATER
MANAGEMENT POLICY

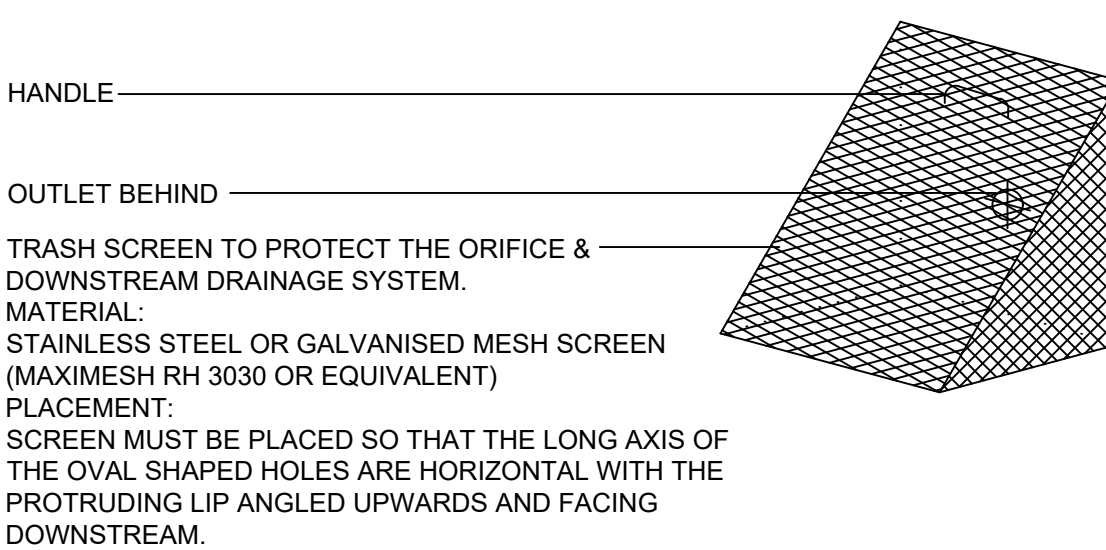
SITE AREA: 1846m²

THE SITE IS EXEMPT FROM OSD AS DIRECT DISCHARGE TO THE
BAY.

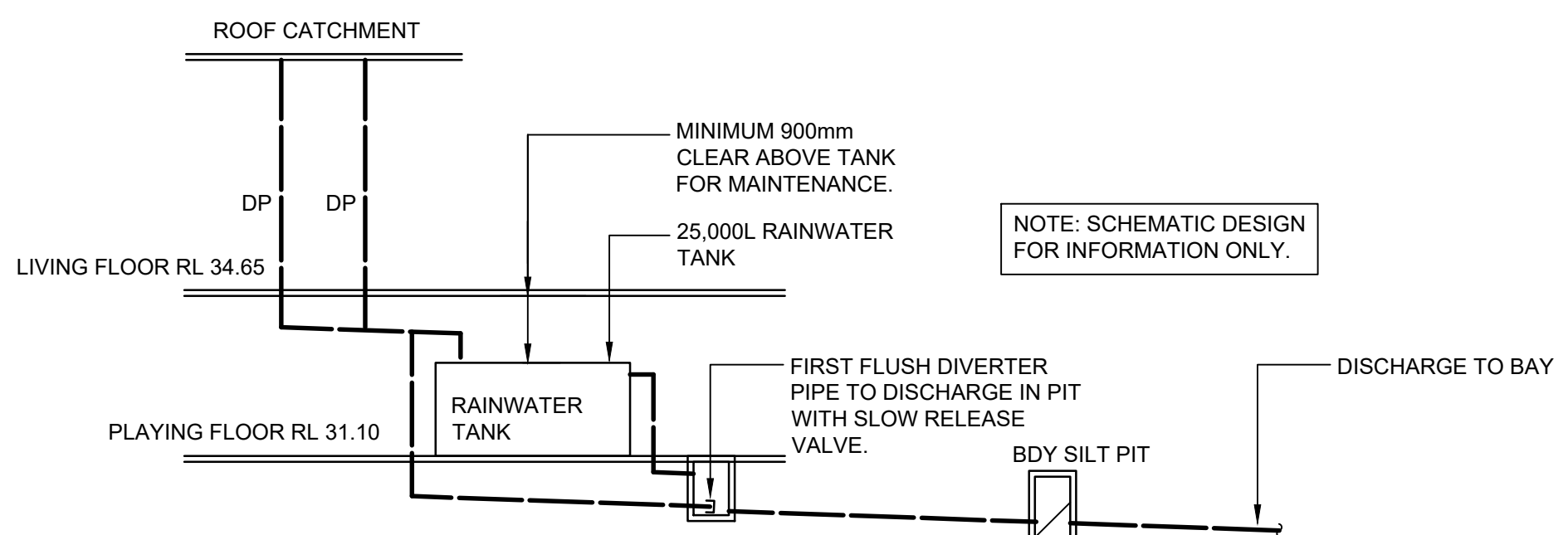
RAINWATER TANK WITH 25,000L EFFECTIVE VOLUME REQUIRED AS
PER BASIX CERTIFICATE.

STORMWATER PIT SIZES

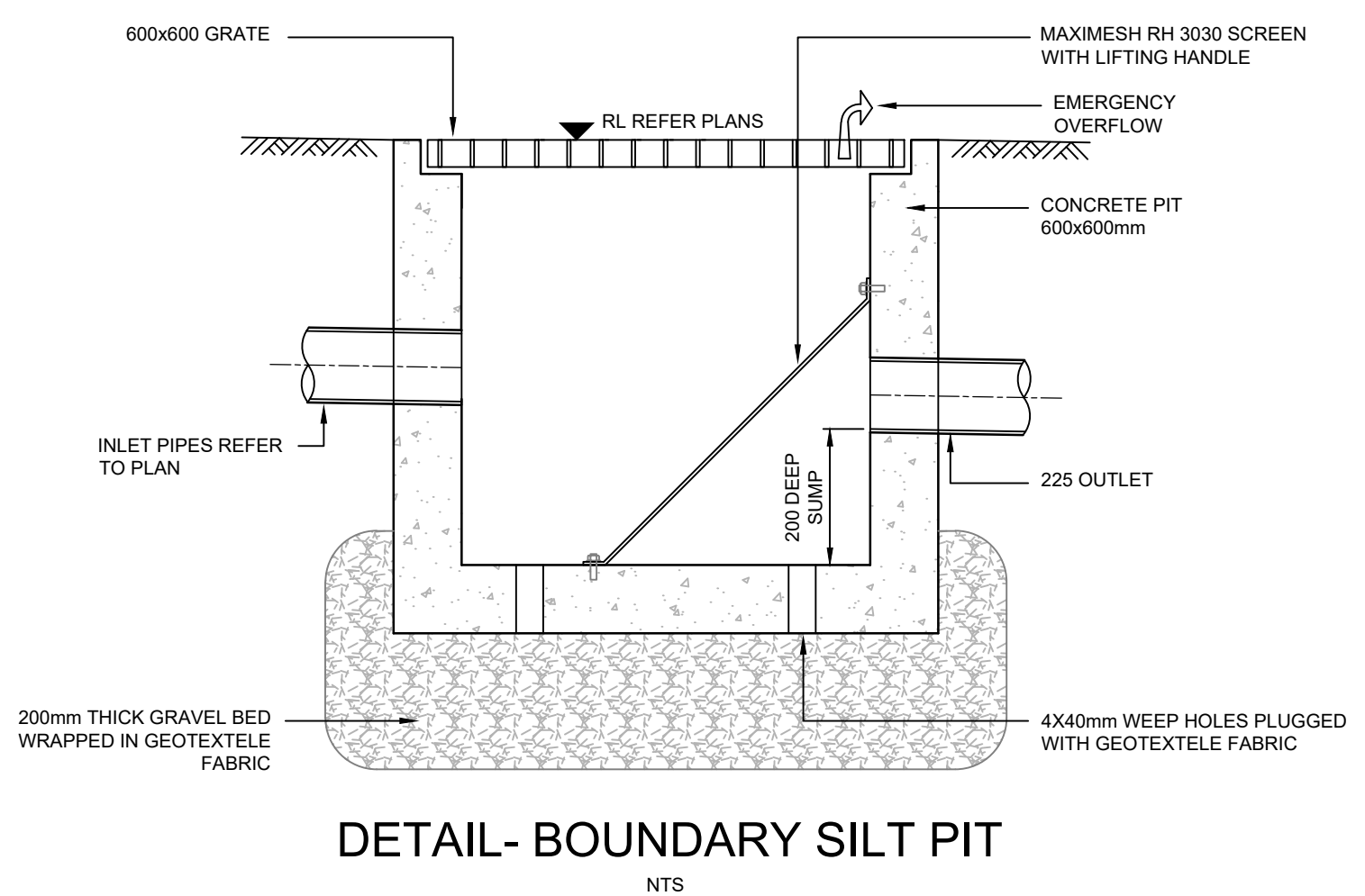
MINIMUM INTERNAL MEASUREMENTS:				
DEPTH TO BASE OF CHAMBER	RECTANGULAR		CIRCULAR	LADDER / STEP IRON
	WIDTH	LENGTH		
SMALLER THAN 600	450	450	600	NO
601 TO 900	600	600	900	NO
901 TO 1200	600	900	1050	NO
GREATER THAN 1200	900	900	1050	YES



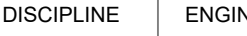
DETAIL: REMOVABLE TRASH SCREEN
SCALE NTS

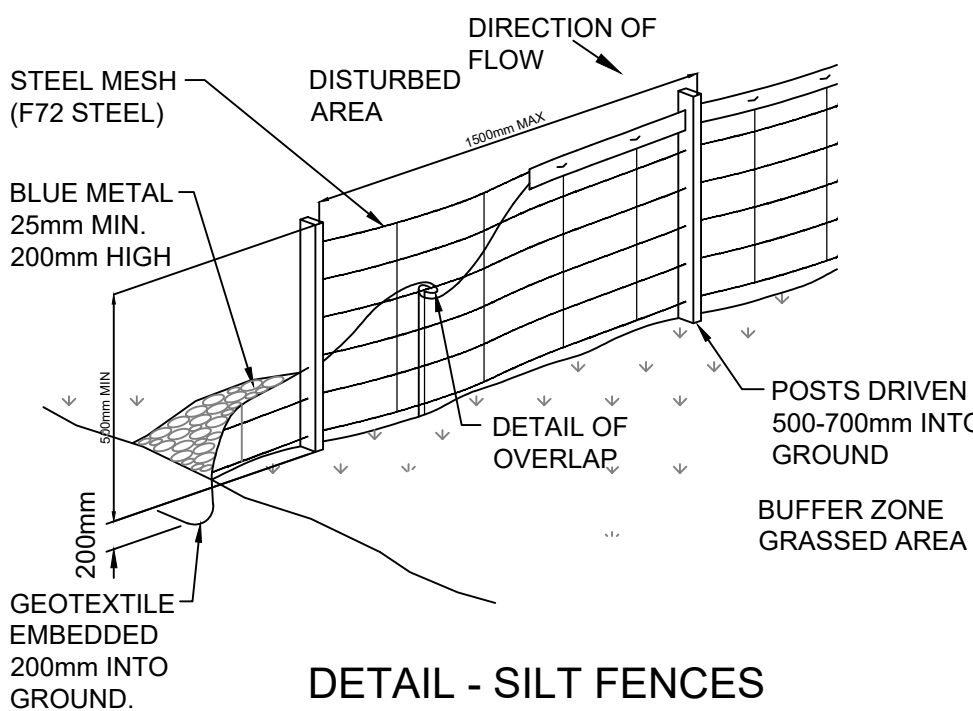


DETAIL: RAINWATER TANK SCHEMATIC DESIGN



DETAIL- BOUNDARY SILT PIT

			CLIENT	ARCHITECT	HYDRAULIC CONSULTANT	PROJECT	DRAWING TITLE		DISCIPLINE	ENGINEER	SCALE @ A1	
			WANG	MCK ARCHITECTS	itmdesign pty ltd consulting hydraulic engineers unit 6/3 apollo st, warriewood nsw 2102 po box 1438 mona vale nsw 1660 tel (02) 9997 1566 fax (02) 9997 3266 email: markus@itmdesign.com.au	11 SEAFORTH CRESCENT SEAFORTH NSW	STORMWATER SERVICES LEGEND & CALCULATIONS		HYD	PC	NTS@A1 NTS@A3	
B	DA ISSUE	01.07.2025										
A	PRELIMINARY ISSUE	23.06.2025										
REV	DESCRIPTION	DATE										



DETAIL: STORM INLET SEDIMENT TRAP

STORM INLET SEDIMENT TRAP

DESCRIPTION

THESE ARE TEMPORARY DE-SILTING STRUCTURES.

USAGE

SUCH SEDIMENT TRAPS ARE USED AT STORMWATER INLETS AND OUTLETS, CULVERT ENTRIES AND POINTS WHERE RUN-OFF FROM DISTURBED CATCHMENTS SUCH AS CONSTRUCTION SITES IS DISCHARGED.

GENERAL REQUIREMENTS

SEDIMENT TRAPS ARE BUILT FROM STRAW BALES, WASHED GRAVEL, GABIONS OR SANDBAGS (OR SARLON TYPE MATERIALS) FILLED WITH BLUE METAL. THE CHOICE OF MATERIAL OR TYPE OF STRUCTURE DEPENDS ON THE SIZE OF THE DRAINAGE AREA AND THE PHYSICAL STRUCTURE SURROUNDING THE SEDIMENT TRAP. CONSTRUCTION MATERIALS TO BE CONFIRMED BY COUNCIL.

MAINTENANCE

SEDIMENT TRAPS SHOULD BE REGULARLY MAINTAINED AND RESTORED TO THEIR ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO HALF OF THE DESIGNED CAPACITY. THE OUTLET SHOULD BE CONSTRUCTED AND MAINTAINED TO ENSURE EROSION DOES NOT OCCUR. MAINTENANCE PROGRAM SHALL BE AS REQUESTED BY COUNCIL.

DETAIL - SILT FENCES

SILT FENCES

DESCRIPTION

SILT FENCES ARE TEMPORARY BARRIERS MADE FROM A COMBINATION OF
FILTER CLOTH AND BLUE METAL

USAGE

SILT FENCES FILTER RUN-OFF LEAVING THE SITE TRAPPING THE SEDIMENT AND ALLOWING CLEAN FILTERED WATER TO PASS. SILT FENCES ARE TO BE PLACED ON THE CONTOUR OR SLIGHTLY CONVEX TO THE CONTOUR. IF ON THE CONTOUR, EACH END OF THE FENCE SHOULD BE TURNED UP TO CREATE A 'STILLING POND' UP SLOPE OF THE FENCE. WHERE POSSIBLE, A SILT FENCE SYSTEM SHOULD BE NO LONGER THAN ABOUT 20 METRES. THEY SHOULD NOT INTERCEPT LARGE CONCENTRATED OR CHANNELISED FLOWS.

INSTALLATION

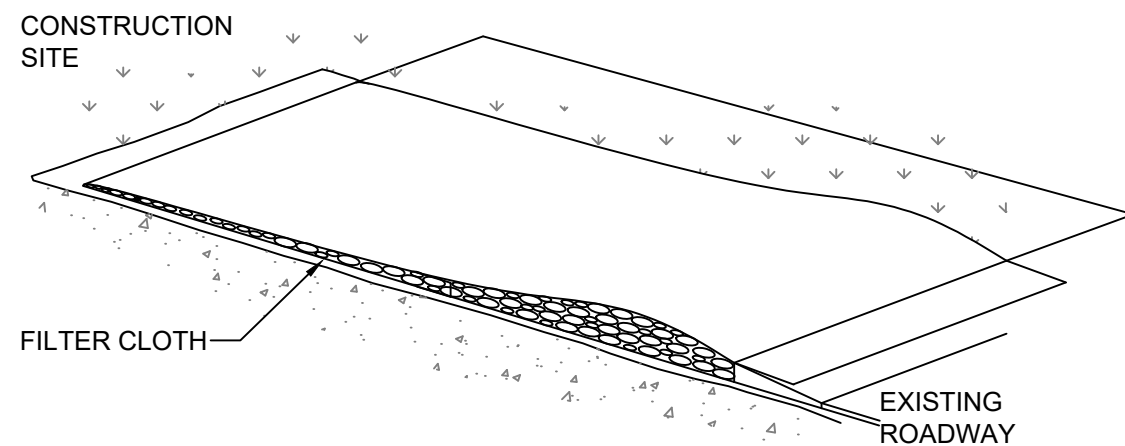
THE AREA BELOW A SILT FENCE MUST BE UNDISTURBED ON STABILISED GROUND.

MAINTENANCE

SILT FENCES REQUIRE REGULAR MAINTENANCE. TRAPPED SEDIMENTS SHOULD BE REMOVED, PICKETS STRAIGHTENED, FILTER CLOTH RESECUED AND TIGHTENED AND BLUE METAL REPLACED WHEN HEAVILY CONTAMINATED WITH SILT.

NOTE

FILTER FABRIC SHALL BE EQUIVALENT TO 'GEOLAB' AND BE CAPABLE OF INTERCEPTING SILT PARTICLES DOWN TO 2 MICRON IN SIZE.



DETAIL - SHAKE DOWN AREA/ACCESS STABILISATION

SHAKE DOWN AREAS/ACCESS STABILISATION

DESCRIPTION

STABILISED ACCESS SHALL BE A BED OF AGGREGATE ON FILTER CLOTH. GRADE THE ENTRANCE SO THAT IT IS AT LEAST 15 METRES LONG WITH A MINIMUM WIDTH OF 3 METRES FOR A ONE WAY ENTRANCE AND 6 METRES FOR A TWO WAY ENTRANCE. PLACE FILTER CLOTH OVER THE ENTIRE AREA AND COVER IT WITH 150mm MINIMUM THICKNESS OF 50mm AGGREGATE RIVER GRAVEL OR A RECYCLED OR RECLAIMED CONCRETE EQUIVALENT.

USAGE

SUCH STRUCTURES SHALL BE USED AT ALL POINTS WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE THE SITE AND EXISTING ROADWAYS.

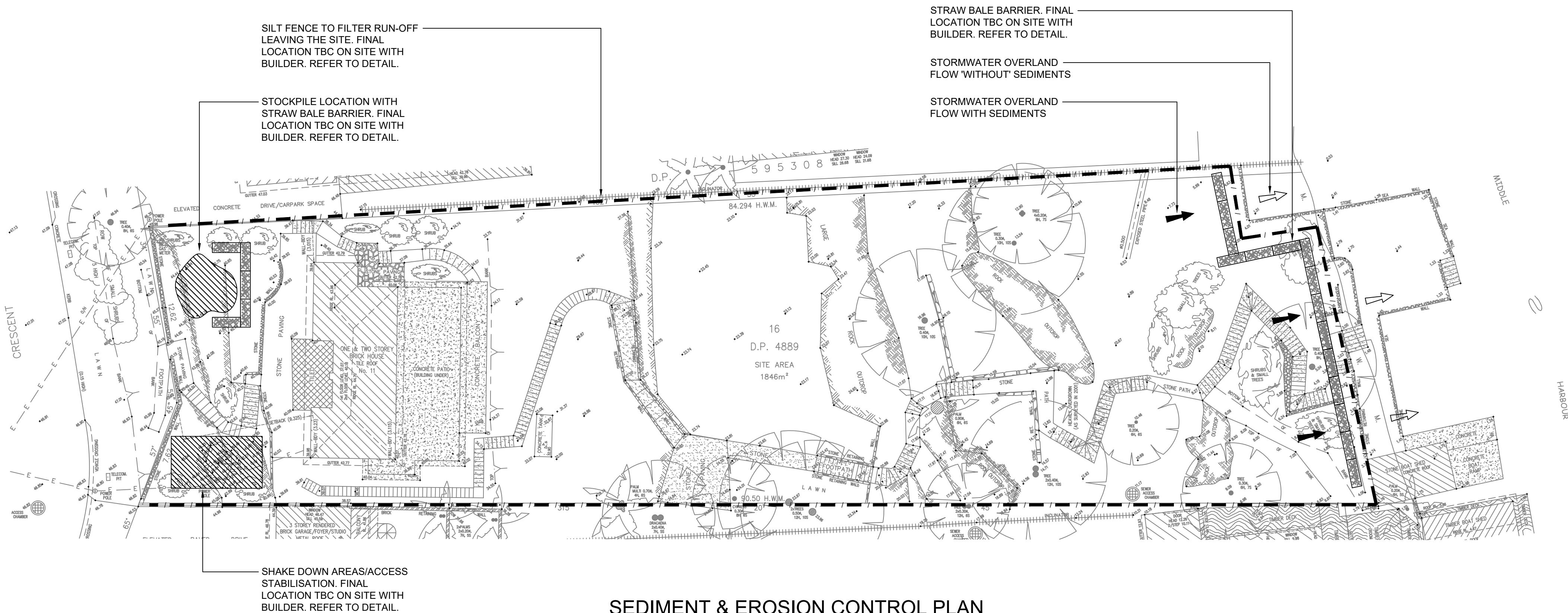
TREATMENT/MAINTENANCE

SURFACE WATER FLOWING TO THE ENTRANCE MUST BE PIPED UNDER THE ENTRANCE, OR A BERM CONSTRUCTED TO DIRECT SURFACE FLOW AWAY FROM THE ROAD.

ALL DEPOSITS ARE TO BE REGULARLY CLEARED FROM SITE ACCESS.

THE DRAWBAR, TAILGATE ETC OF ANY VEHICLE INVOLVED IN THE TRANSPORT OF GROUNDWATER TO A CONSTRUCTION SITE MUST BE MANUALLY CLEANED OF MATERIAL BEFORE THE VEHICLE LEAVES THE SITE.

SHOULD THE MATERIAL BE DEPOSITED ON THE ROADWAY ETC, SUCH MATERIAL SHALL BE SWEEPED AND REMOVED FROM THE ROADWAY.



SEDIMENT & EROSION CONTROL PLAN

SCALE 1:200

			CLIENT	HYDRAULIC CONSULTANT	PROJECT	DRAWING TITLE		DISCIPLINE	ENGINEER	SCALE @ A1
			WANG	MCK ARCHITECTS	11 SEAFORTH CRESCENT SEAFORTH NSW	STORMWATER SERVICES EROSION SEDIMENT CONTROL PLAN		HYD	PC	1:200@A1 1:400@A3
B	DA ISSUE	01.07.2025						PROJECT No.	DRAWING No.	REVISION
A	PRELIMINARY ISSUE	23.06.2025						24-214	H-DA-01	B
REV	DESCRIPTION	DATE				consulting hydraulic engineers unit 6/3 apollo st, warriewood nsw 2102 po box 1438 mona vale nsw 1660 tel (02) 9997 1566 fax (02) 9997 3266 email: markus@itmdesign.com.au				

