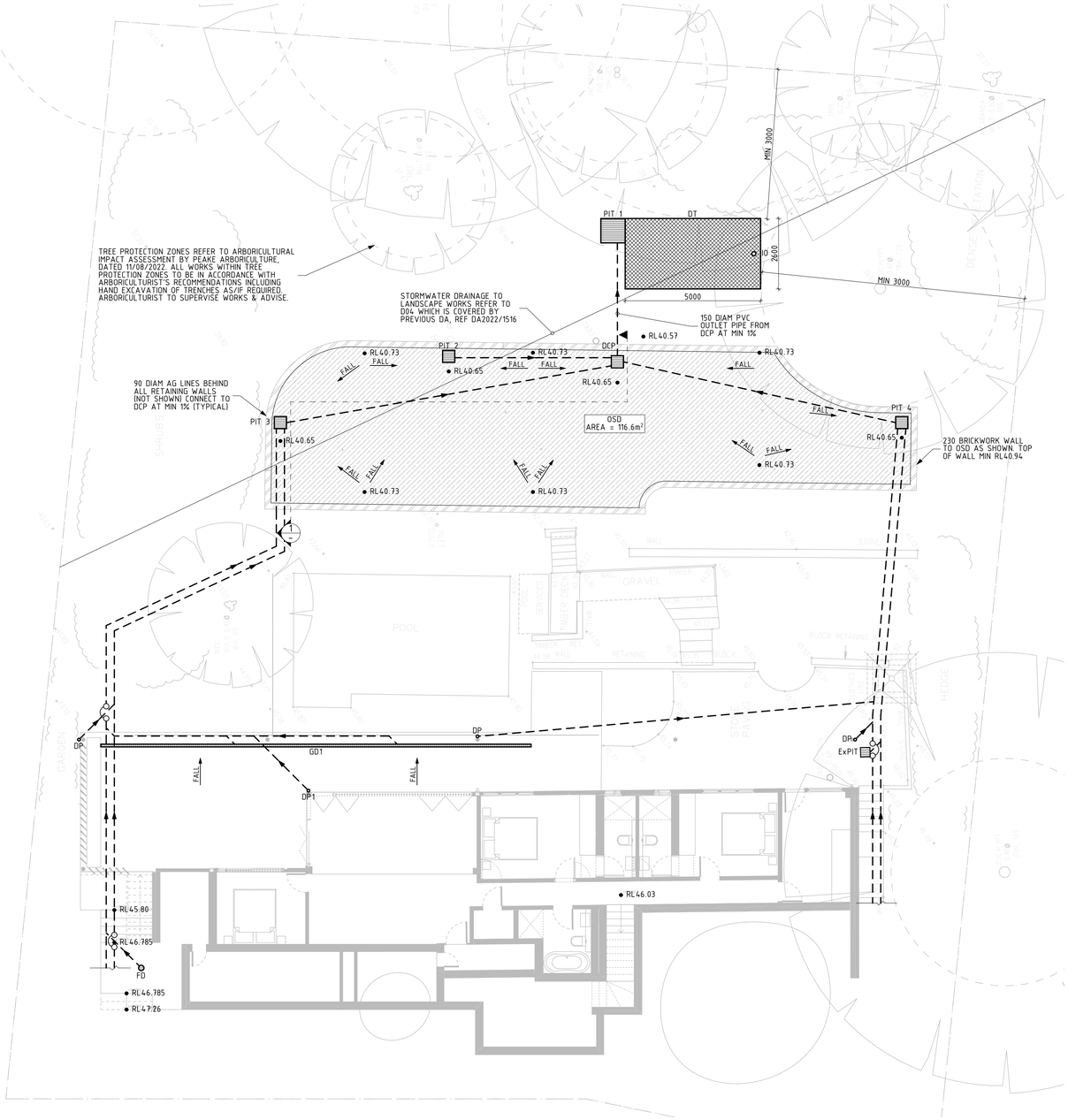

LOWER GROUND FLOOR DRAINAGE & PART SITE STORMWATER MANAGEMENT PLAN (HOUSE)
1:100

STORMWATER NOTES:

1. ALL PIPES TO BE 100mm Ø UNLESS NOTED OTHERWISE.
2. ALL PIPES TO BE uPVC UNLESS NOTED OTHERWISE.
3. ALL PIPES TO BE LAID AT 1 % MINIMUM GRADE UNLESS NOTED OTHERWISE.
4. ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 100% S.M.D.D. BELOW PAVEMENTS. (NO COMPACTION REQUIRED BELOW LANDSCAPING) COVER TO SURFACE FROM TOP OF PIPE TO BE 300mm MINIMUM. BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN. TRENCHES TO BE FILLED WITH GRANULAR MATERIAL AS SPECIFIED.
5. ALL PIPES SHOWN ON PLAN ARE SHOWN INDICATIVELY ONLY & MINIMUM CLEARANCES FROM THE EXTERNAL WALLS OF BUILDINGS, FOR THE EXCAVATION OF TRENCHES, ARE TO BE PROVIDED IN ACCORDANCE WITH AS3500.
6. ALL DOWN PIPES TO BE 90mm Ø UNLESS NOTED OTHERWISE.
7. DOWN PIPE LOCATIONS ARE INDICATIVE ONLY. LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
8. PROVIDE CLEANING EYES AT ALL DOWNPIPES U.N.O.
9. ALL PITS GREATER THAN 1000mm DEEP SHALL HAVE STEP IRONS AS PER COUNCIL STANDARDS.
10. ALL WORK TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND SPECIFICATIONS.
11. ALL LEVELS SHOWN ARE TO AHD.
12. ENSURE THAT ALL PITS AND STORMWATER PIPES ARE LOCATED CLEAR FROM TREE ROOT SYSTEMS.
13. EXCAVATION OF TRENCHES ADJACENT TO TREES TO BE CARRIED OUT USING HAND TOOLS ONLY.
14. ALL EXISTING EARTHENWARE PIPES TO BE UPGRADED TO uPVC.
15. ALL WORKS TO BE IN ACCORDANCE WITH AS 3500.
16. THE FOLLOWING ABBREVIATIONS DENOTE:
    FSL - FINISHED SURFACE LEVEL
    INV - INVERT
17. PROVIDE FALLS IN SURFACES TO ALL PITS, GRATED DRAINS & FLOOR DRAINS IN ACCORDANCE WITH AS3500 & ARCHITECT'S DETAILS.

RL65.15	DENOTES EXISTING LEVELS
• RL65.15	DENOTES PROPOSED LEVELS

ON-SITE DETENTION (OSD) CALCULATION SHEET

DEVELOPMENT TYPE:	SINGLE RESIDENTIAL DWELLING	
SITE AREA:	1350	m²
PRE DEVELOPMENT IMPERVIOUS AREA:	488.5	m²
POST DEVELOPMENT IMPERVIOUS AREA:	607.6	m²
INCREASE IN IMPERVIOUS AREA:	119.1	m²
STORMWATER REGION:	1	
IMPERVIOUS AREA DRAINING TO OSD:	603.6	m²
PERVIOUS AREA DRAINING TO OSD:	332.5	m²
IMPERVIOUS AREA BYPASSING OSD:	4.0	m²
PERVIOUS AREA BYPASSING OSD:	409.9	m²
MINIMUM SITE STORAGE REQUIRED:	9.0	m³
BASIX STORAGE VOLUME:	0.0	m³
RAINWATER REUSE CREDIT:	0.0	m³
TYPE OF CONTROL:	ABOVE GROUND BASIN	
ADDITIONAL VOLUME FOR VEGETATION GROWTH:	1.8	m³
REVISED SITE STORAGE REQUIRED:	10.8	m³
OSD DIMENSION:	116.6m² x 0.10m (AVERAGE DEPTH)	
OSD VOLUME PROVIDED:	11.66	m³
DEPTH TO CENTRE OF ORIFICE:	0.54	m
ORIFICE SIZE:	51	mm Ø
CONTROLLED SITE DISCHARGE (100-YEAR):	4.0	l/s
IMPERVIOUS AREA DRAINING TO DISPERSION TRENCH:	607.6	m²
TRENCH LENGTH REQUIRED:	60.76	m
TRENCH VOLUME REQUIRD:	60.76 x 0.175m³/m (JUMBO410) = 10.63m³	

MARK	SIZE/TYPE	FSL	INV
PIT 1	900x900 PIT WITH GRATED LID	38.50	37.17
PIT 2	450x450 PIT WITH GRATED LID	40.65	40.15 BASE 40.35 OUTLET
PIT 3	450x450 PIT WITH GRATED LID	40.65	40.15 BASE 40.35 OUTLET
PIT 4	450x450 PIT WITH GRATED LID	40.65	40.15 BASE 40.35 OUTLET
DCP	450x450 DISCHARGE CONTROL PIT WITH GRATED LID	40.65	39.95
DT	5000 LONG x 3100 WIDE ATLANTIS FLO-TANK ABSORPTION TANK - DOUBLE MODULE, TOTAL OF 56 MODULES. DISPERSION AREA = 29.76m², VOLUME = 13.05m³	-	-
IO	150 DIAMETER INSPECTION OPENING	-	-
GD1	100 WIDE x 100 DEEP GRATED DRAIN	COS	COS
DP	100 DIAMETER PVC DOWNPIPE	-	-
DP1	100 DIAMETER PVC DOWNPIPE TO COLLECT FLOOR RUNOFF ONLY	-	-
OSD	MIN 11660 LITRE ON-SITE DETENTION BASIN (116.6m²x1000 (AVERAGE))	-	-
ExPIT	EXISTING PIT - PLUMBER TO CHECK FOR ADEQUACY & CONDITION & UPGRADE IN ACCORDANCE WITH AS3500 AS/IF REQUIRED	-	-

DT DETAIL
1:20

TYPICAL PIT DETAIL
1:20

ORIFICE PLATE DETAIL
1:10

SECTION 1
1:20

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CLIENT: SEAN HERRINGTON

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DRAWN: DM
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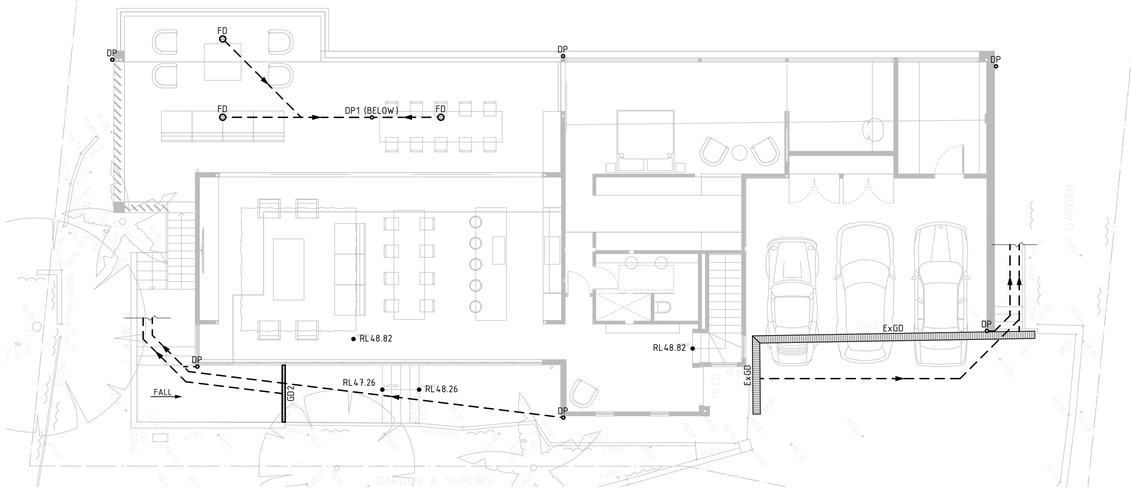
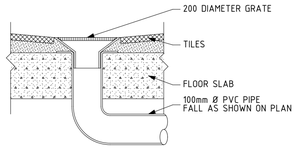


GROUND FLOOR DRAINAGE & PART SITE STORMWATER MANAGEMENT PLAN

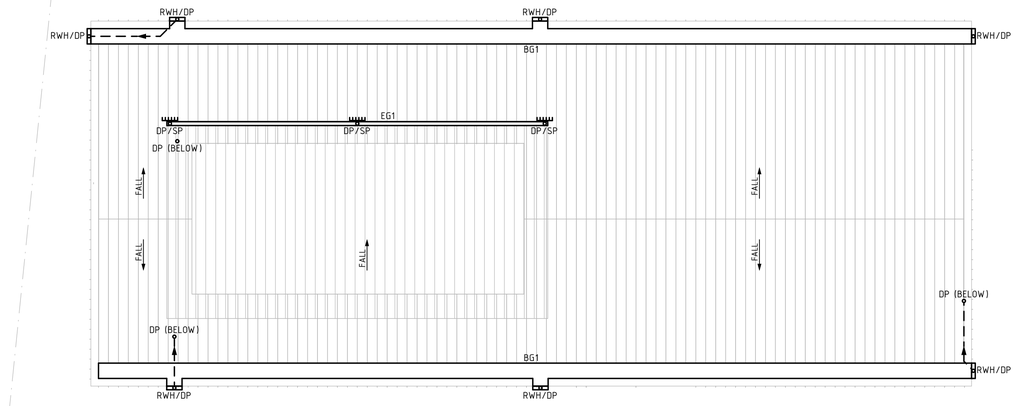
1:100

MARK	SIZE/TYPE	FSL	INV
GD2	100 WIDE x 100 DEEP GRATED DRAIN	47.26	47.16
FD	200 DIAMETER FLOOR DRAIN	-	-
DP	100 DIAMETER PVC DOWNPIPE	-	-
DP1	100 DIAMETER PVC DOWNPIPE TO COLLECT FLOOR RUNOFF ONLY	-	-
SP	SPREADER ONTO LOWER ROOF	-	-
RWH	500 WIDE x MIN 120 LONG x MIN 125 DEEP RAINWATER HEAD	-	-
EG1	QUAD 125 EAVES GUTTER	-	-
BG1	500 WIDE x MIN 110 DEEP BOX GUTTER	-	-
ExGD	EXISTING GRATED DRAIN - PLUMBER TO CHECK FOR ADEQUACY & CONDITION & UPGRADE IN ACCORDANCE WITH AS3500 AS/IF REQUIRED	-	-



FLOOR DRAIN DETAIL

1:10



ROOF DRAINAGE PLAN

1:100

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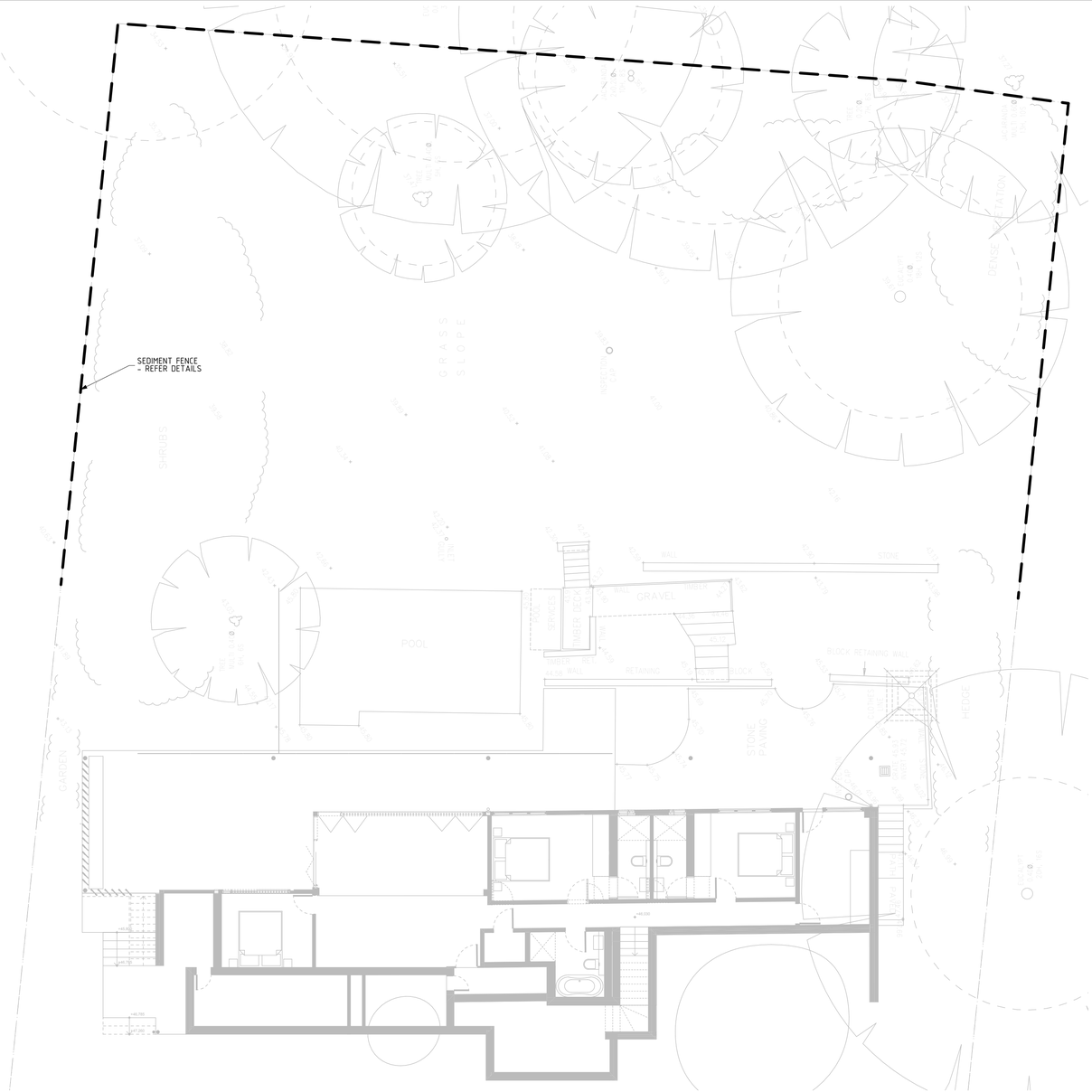
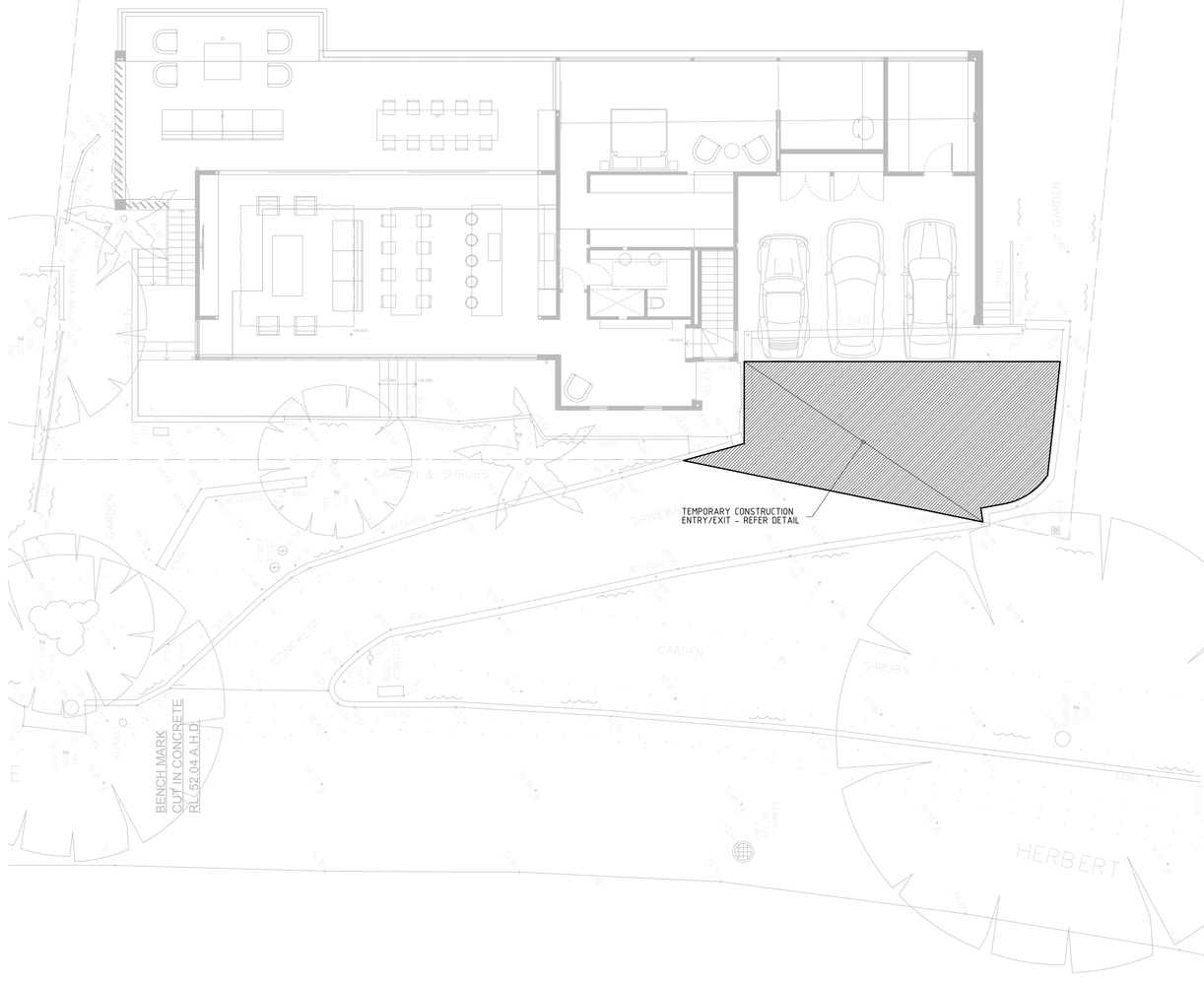


SEDIMENT & EROSION CONTROL PLAN (LOWER GROUND FLOOR)
1:100

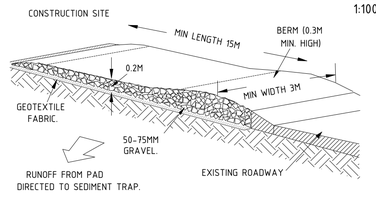


SEDIMENT & EROSION CONTROL PLAN (GROUND FLOOR)
1:100

SEDIMENT FENCE

CONSTRUCTION NOTES:

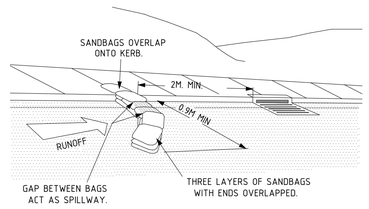
1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
2. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND, 3 METRES APART.
3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
4. BACKFILL TRENCH OVER BASE OF FABRIC.
5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES or AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.



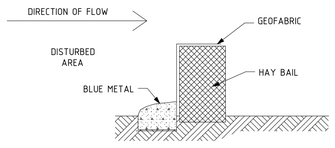
TYPICAL TEMPORARY CONSTRUCTION ENTRY/EXIT DETAIL

CONSTRUCTION NOTES:

1. STRIP TOPSOIL AND LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING ROADBASE or 30mm AGGREGATE. MINIMUM LENGTH 15 METRES OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES.
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE or OTHER SEDIMENT TRAP.



SANDBAG KERB INLET SEDIMENT TRAP



REMOVABLE HAY BALE DETAIL
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