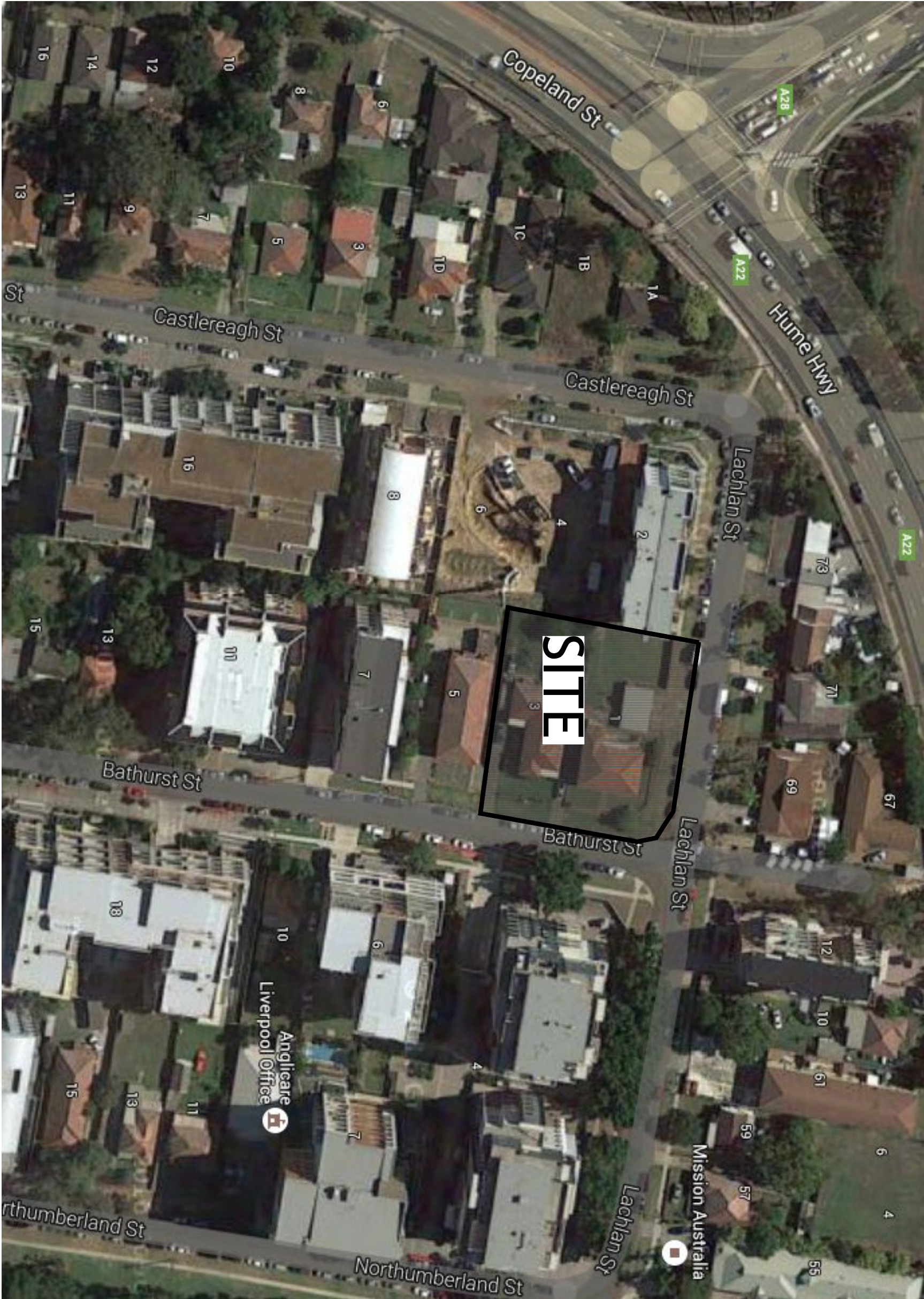


PROPOSED RESIDENTIAL DEVELOPMENT 1-5 BATHURST ST LIVERPOOL

STORMWATER CONCEPT DESIGN

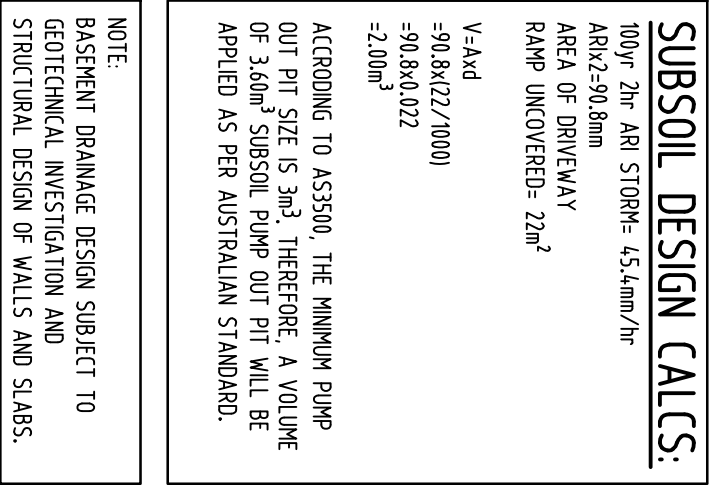


LOCALITY PLAN

DRAWING REGISTER	
No.	TITLE
SW01	COVER SHEET
SW02	STORMWATER CONCEPT DESIGN - BASINMENT 2 PLAN
SW03	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN
SW04	STORMWATER CONCEPT DESIGN - ROOF PLAN
SW05	STORMWATER CONCEPT DESIGN - DETAILS SHEET
SW06	SEDIMENT AND EROSION CONTROL - PLAN AND DETAILS
SW07	STORMWATER CONCEPT DESIGN - MUSIC CATCHMENT PLAN

Drawing Title			
COVER SHEET			
Project Number	Drawing Number	Revision Number	
20160228	SW01	A	
Sheet	1 of 7	Issue	FOR APPROVAL

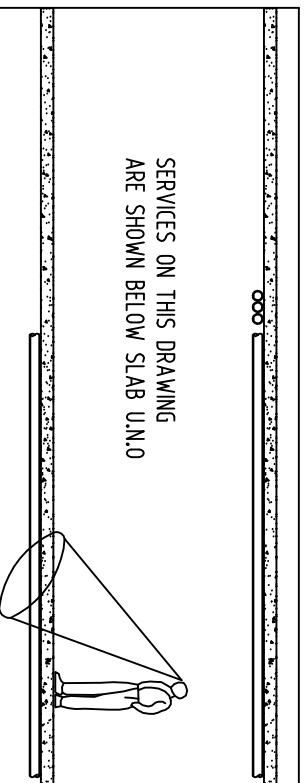
STREET



BATHURST

STREET

Project No		Drawing No		Revision No	
20160228		SW02		A	
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STORMWATER CONCEPT DESIGN		PRELIMINARY			
BASEMENT 2 PLAN		NOT TO BE USED FOR CONSTRUCTION PURPOSES			
PROJECT					
RESIDENTIAL DEVELOPMENT					
1-5 BATHURST ST LIVERPOOL					
Unit 412, Level 4, 14-16 LEXINGTON DRIVE BELLA VISTA, NSW 2153 T: +61 2 8883 4239 F: +61 2 9672 6977 Email: office@sgce.com.au Web: www.sgce.com.au					
Engineering Value					
SGC					
A.B.N. 21 118 222 530					
Grid					
Datum					
A.H.D.					
2 of 7					
Scale (at original size)					
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PROJECT					
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Grid					



PROJECT				Drawing Status	
RESIDENTIAL DEVELOPMENT				PRELIMINARY	
1-5 BATHURST ST LIVERPOOL				NOT TO BE USED FOR CONSTRUCTION PURPOSES	
				Drawing Title	STORMWATER CONCEPT DESIGN
					ROOF PLAN
Project No		Drawing No		Revision No	
20160228		SW04		A	

CLIENT				ARCHITECT	
BINAH BY DESIGN				ALGORRY ZAPPIA & ASSOCIATES	

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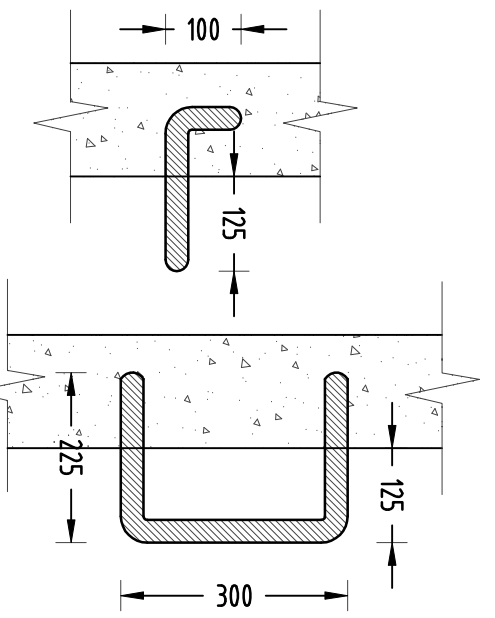
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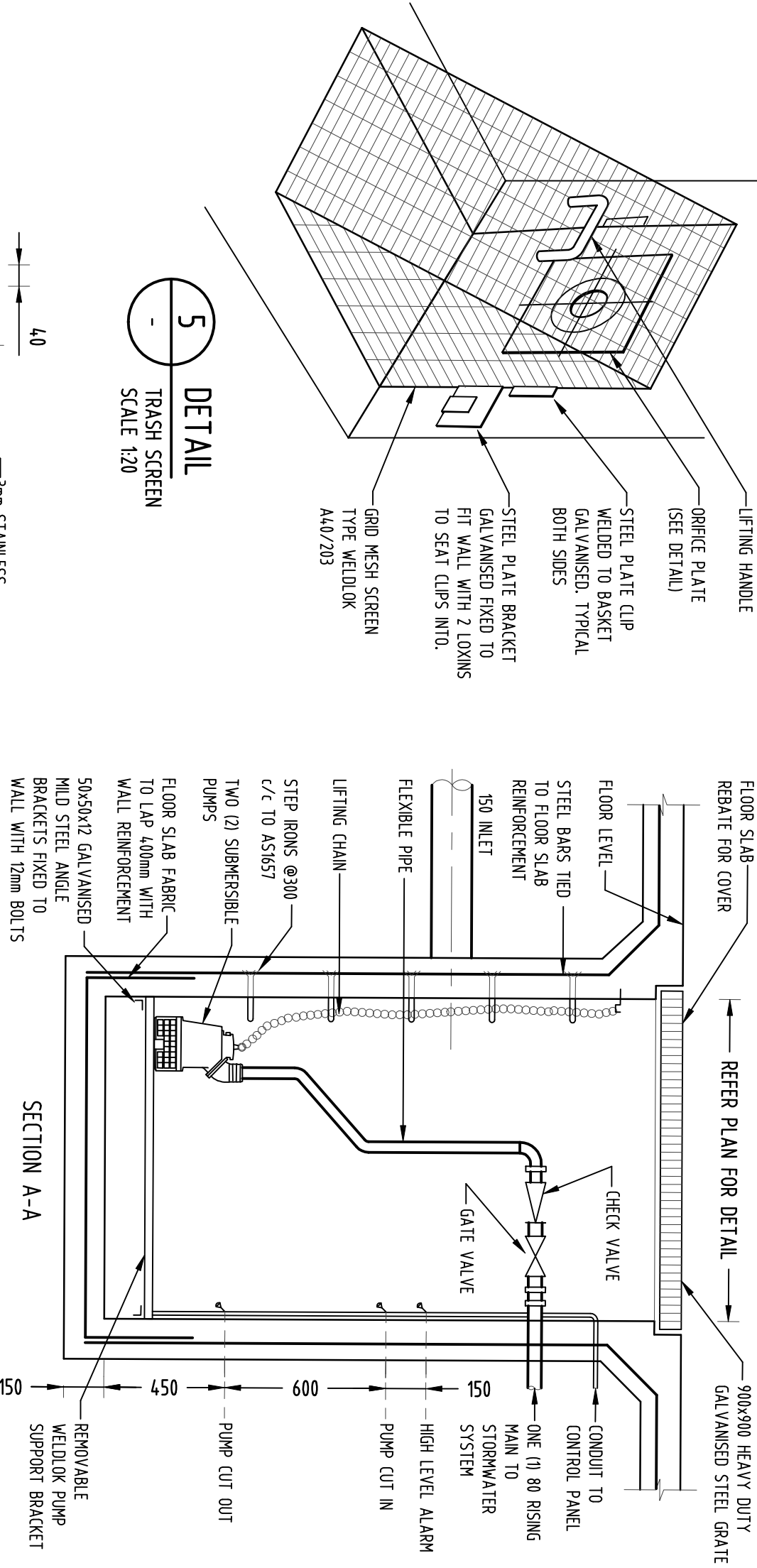
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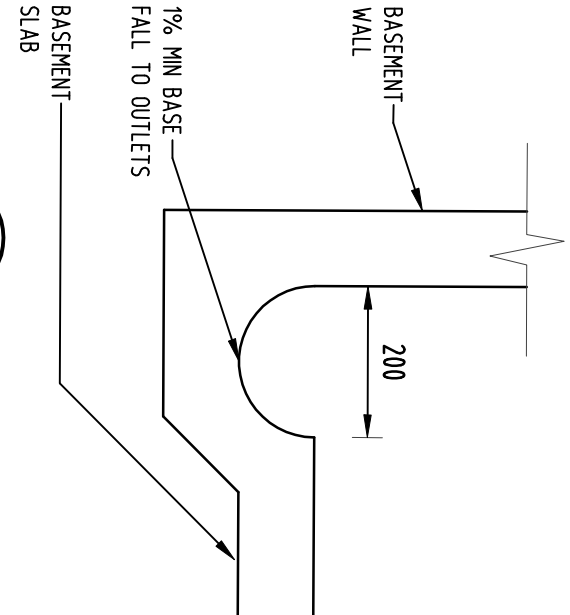
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STEP IRONS
SCALE 1:10

5
DETAIL
TRASH SCREEN
SCALE 1:20

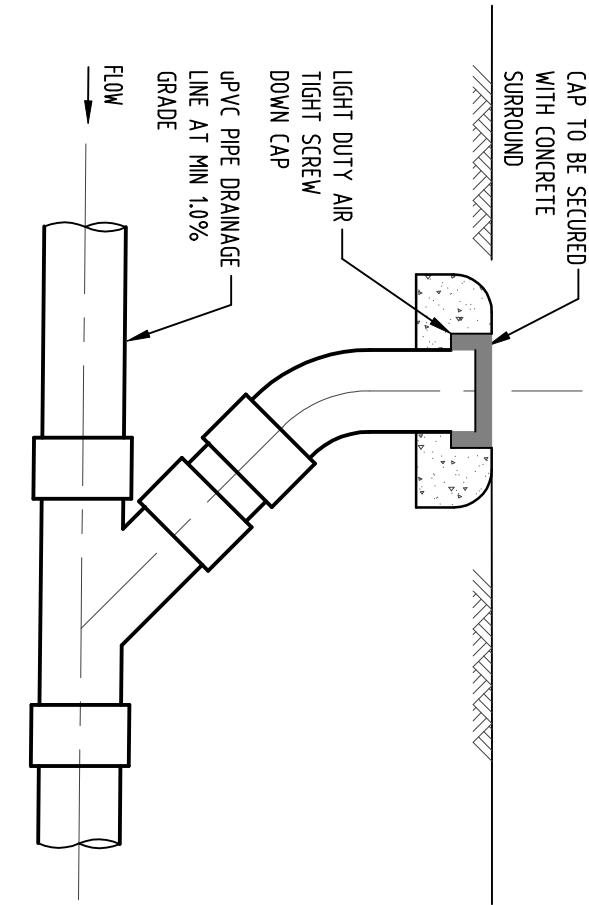


THIS IS AN
ON-SITE STORMWATER
DETENTION SYSTEM
IT IS A REQUIRE TO WORK WITH THE
STATE OF NEW SOUTH WALES
UNIFORM CIVIL CODES OF
THIS PLATE MUST NOT BE
REMOVED

2
DETAIL
OSD SIGN
SCALE 1:10



3
DETAIL
DISH DRAIN
SCALE 1:10

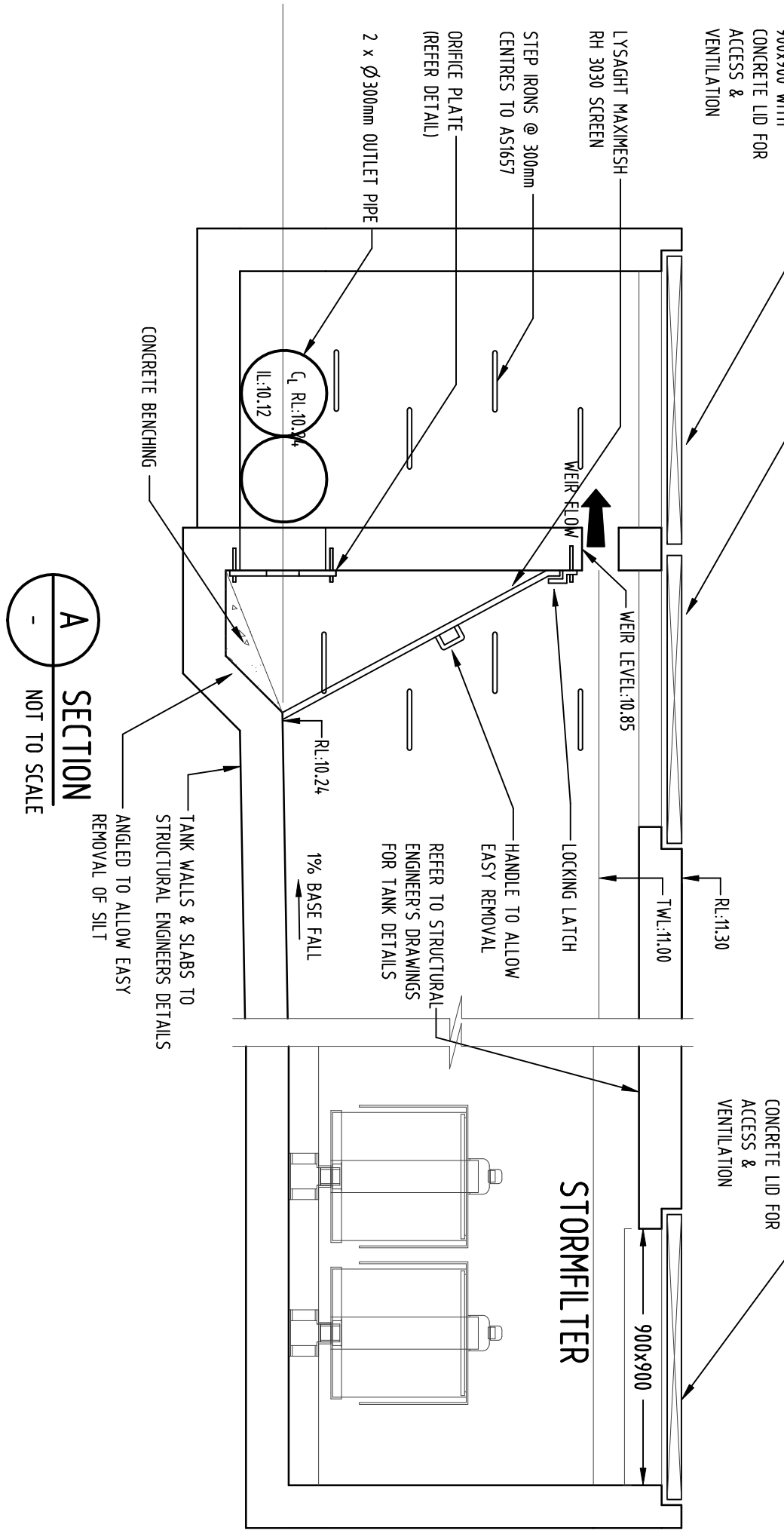


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DETAIL
CLEANING EYE
SCALE 1:10

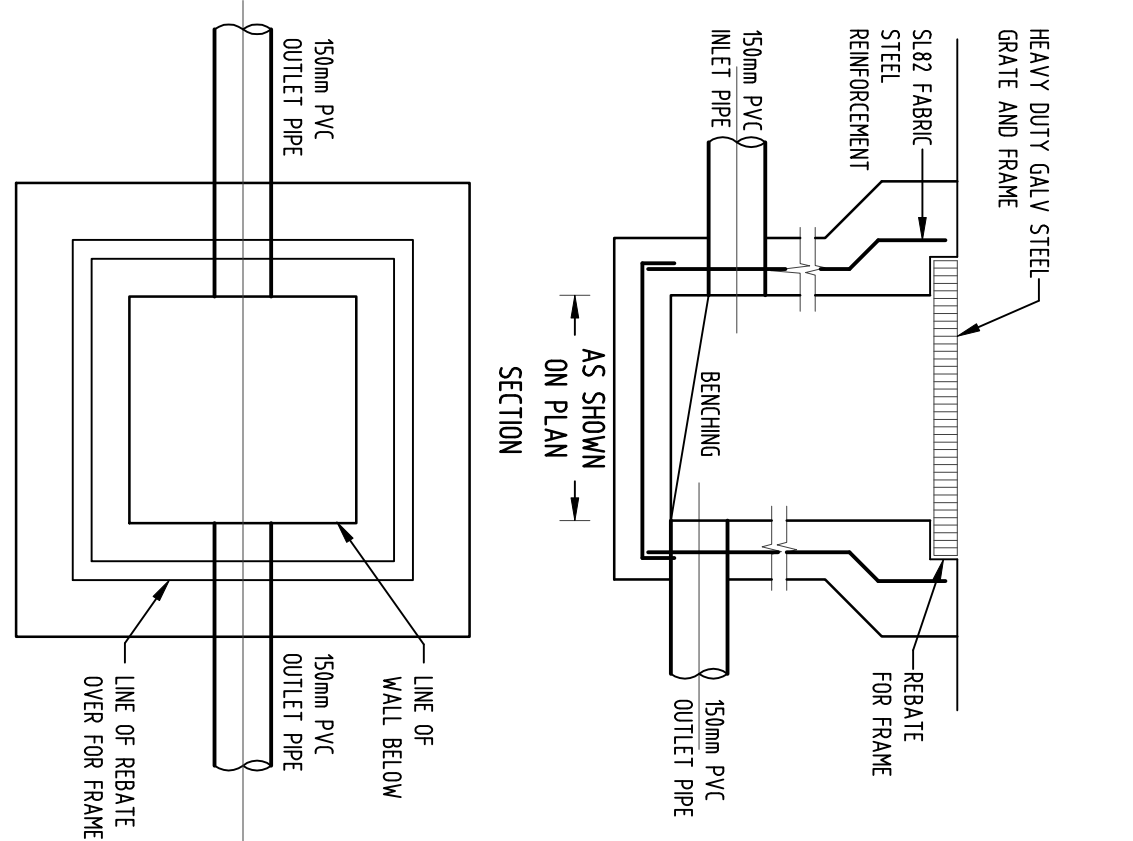
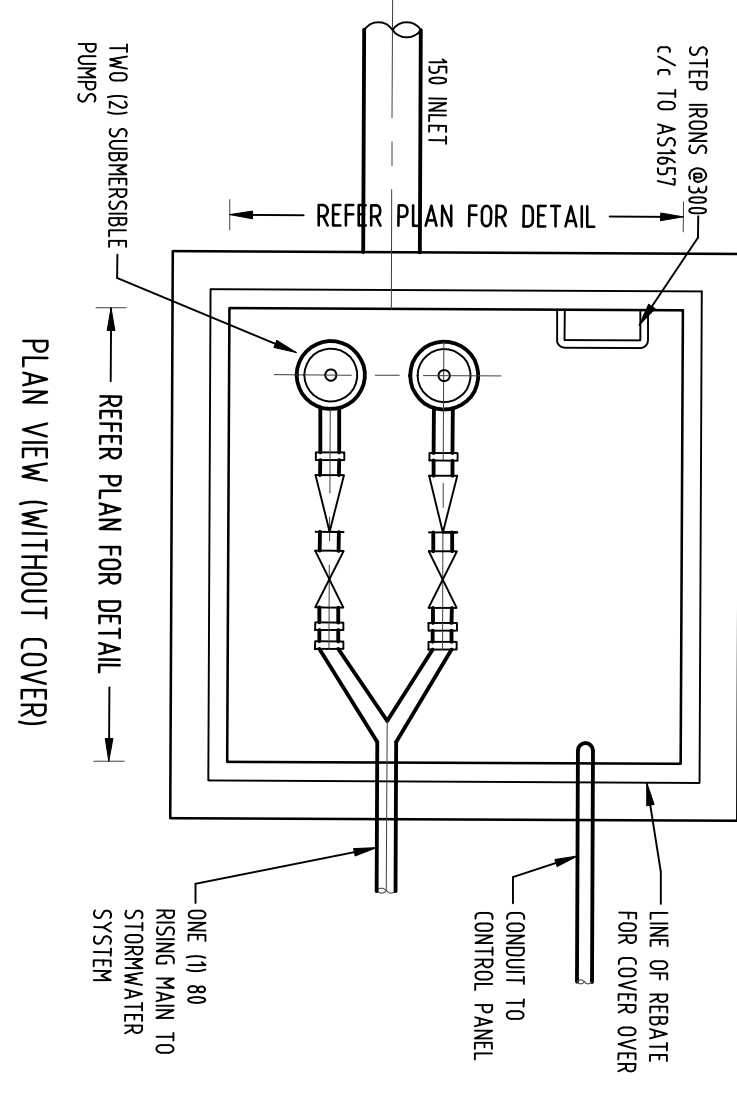
POST-DEVELOPMENT OSD REQUIREMENTS:

LOT AREA (m2)	PRE-DEV IMPERVIOUS (%)	POST-DEV IMPERVIOUS (%)	STORM (l/s)	PRE-DEV FLOW (m3/s)	POST-DEV FLOW (m3/s)	PIPE OUTFLOW (m3/s)	WEIR OUTFLOW (m3/s)	BYPASSING FLOW (m3/s)	TOTAL PSD (m3/s)	OSD VOLUME (m3) FOR 100% STORM STORAGE
2714	64	90	5	0.079	0.088	0.033	0	0.04	0.037	
			20	0.108	0.114	0.039	0	0.007	0.046	
			100	0.332	0.417	0.033	0.003	0.001	0.227	65.30

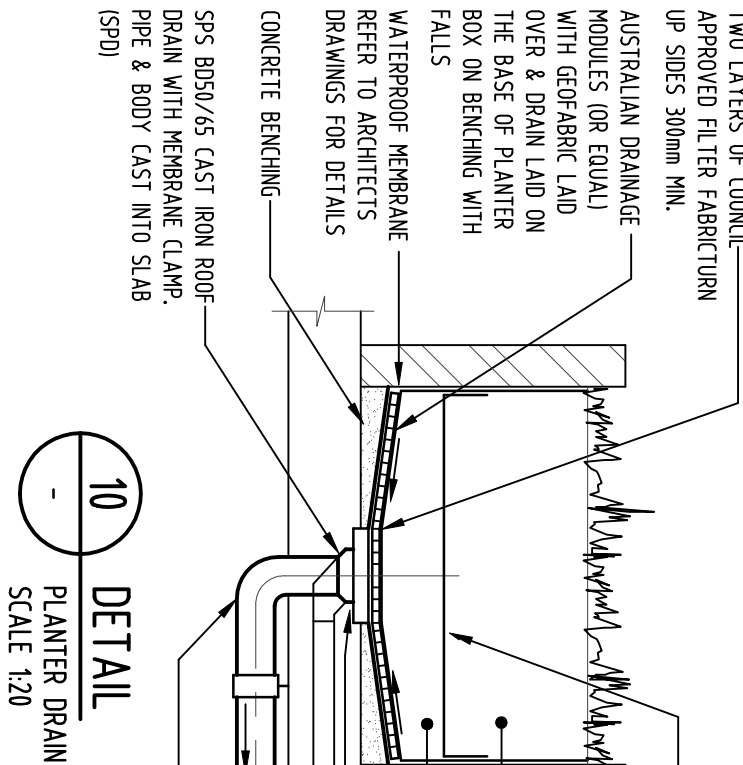
A
SECTION
NOT TO SCALE



8
DETAIL
SUBSOIL PUMP OUT PIT
SCALE 1:20

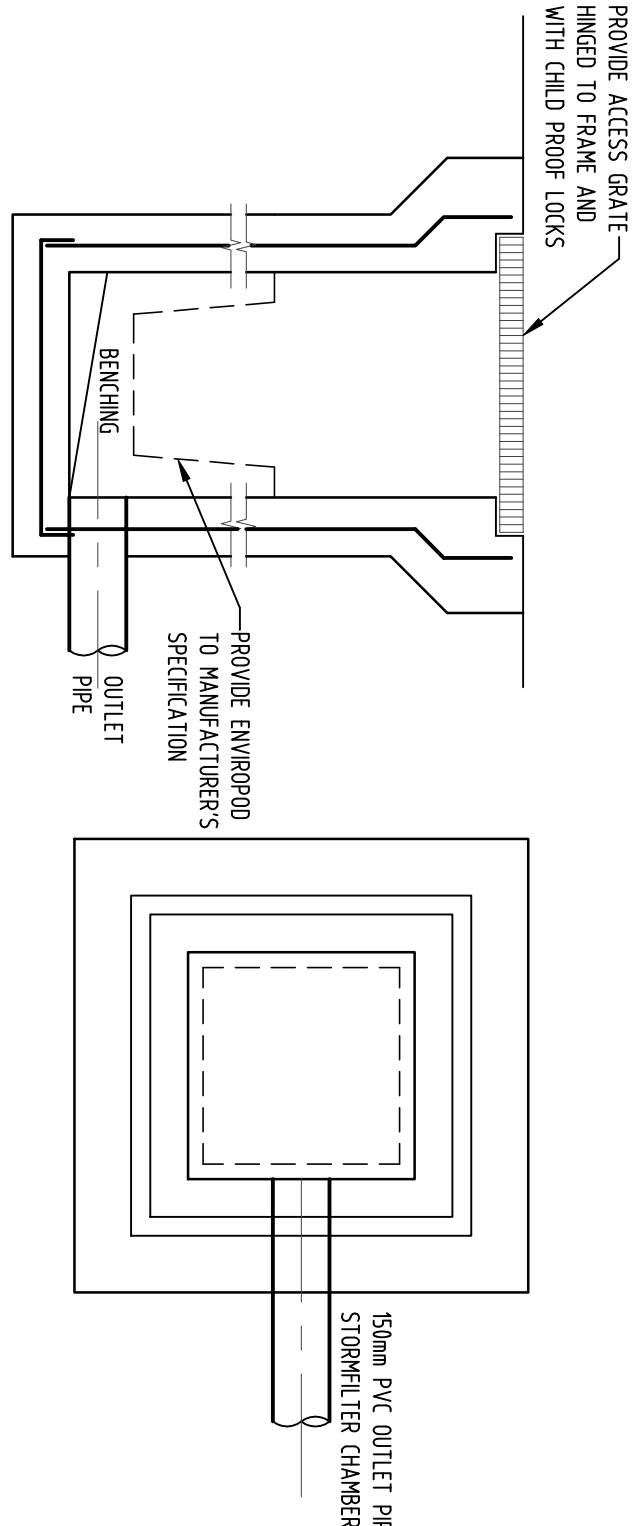


9
DETAIL
STORMWATER PIT
SCALE 1:20



10
DETAIL
PLANTER DRAIN
SCALE 1:20

11
DETAIL
STORMWATER PIT
WITH ENVO PSD
SCALE 1:20



DRAINAGE NOTES:

- ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY SUPPORTED
- 100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE
- MINIMUM DEPTH OF COVER FOR PIPES NOT SUBJECT TO VEHICULAR LOADING TO BE 300mm
- ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS
- BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE MATERIAL
- HEAVY DUTY GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS
- PIT GRATE TO BE TYPE WELDOX OR APPROVED EQUIVALENT
- ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP
- ALL PITS SHALL BE MAINTAINED REGULARLY
- TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE DIAMETER
- Ø 100 SUBSOIL DRAINAGE PIPE 300mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES
- COMPRESSIVE STRENGTH f'c FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 20MPa AT 28 DAYS
- ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS
- ALL TRENCH GRATES PROVIDED SHALL HAVE A MINIMUM CLEAR WIDTH OF 200mm
- STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL

LEGEND:

- STORMWATER LINE
- SSD
- STORMWATER RISING MAIN
- EXISTING STORMWATER LINE
- STORMWATER LINE
- STORMWATER SINKER LINE
- AUTHORITY WATER LINE
- AUTHORITY GAS LINE
- AUTHORITY ELECTRICITY LINE
- AUTHORITY UNDERGROUND ELECTRICITY LINE
- AUTHORITY FIBRE OPTIC LINE
- AUTHORITY COMMS LINE
- FENCE LINE
- GRADED SURFACE INLET PIT
- GRADED SURFACE INLET PIT WITH ENHANCED INSERT
- JUNCTION PIT
- KEBB INLET PIT
- EXISTING KEBB INLET PIT
- OVERLAND FLOW PATH
- RAINWATER OUTLET
- DISH DRAIN OUTLET
- PLANTER DRAIN
- CAP
- DOWNPIPE
- WALL PENETRATION

KERB INLET PIT NOTES:

- KEBB INLET PITS TO BE CONSTRUCTED TO LIVERPOOL COUNCIL STANDARDS.
- ALL KEBB INLET PITS TO BE CAST IN-SITU.
- ALL CONCRETE SHALL BE 20MPa STRENGTH AT 28 DAYS WITH F80 MESH CENTRIALLY PLACED.

AUTHORITY STORMWATER NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL SET OUT AND LEVELS FROM TO DETERMINE IF WORKS AND TO REPORT ANY DISCREPANCIES FOUND TO THE SUPERINTENDENT.
- ALL SET OUT DIMENSIONS ARE TO FACE OF KEBB, CENTERLINE OF FENCE/ROAD/PRE.
- SMOOTH ALL TRANSITIONS BETWEEN NEW AND EXISTING WORK IN BOTH LEVEL AND ALIGNMENT.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SAFETY FENCES, WARNING SIGNS, TRAFFIC DIVERSIONS AND THE LINE DURING CONSTRUCTION. ALL WORKS TO COMPLY WITH OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY REQUIREMENTS.
- NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.
- THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPLETION AND PAYMENT PER LAYER AS FOLLOWS
PER LAYER AS FOLLOWS
SELECT FILL
SELECT FILL (LESS THAN 300mm)
BELOW BASE COURSE
BASE COURSE
100% MODIFIED
- THE ASPHALT SPECIFICATION SHALL BE THE SPECIFICATION FOR THESE WORKS.

SERVICES SHOWN ON PLAN ARE INDICATIVE. EXACT DEPTH AND LOCATION TO BE CONFIRMED ON-SITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ON-SITE.

DESIGN NOTES:

- THE SITE IS LOCATED IN LIVERPOOL COUNCIL.
- TOTAL SITE AREA = 2714m²
- OSD IS REQUIRED AS PER BY COUNCIL DCP. THE OSD STORAGE SYSTEM WILL BE BELOW GROUND.
- OSD IS DESIGNED USING DRAINS.
- OSD IS DESIGNED TO CONTROL STORMWATER RUNOFF FROM DEVELOPMENT SITES SUCH THAT FOR 5 TO 100 YEAR ARI EVENTS, PEAK STORMWATER DISCHARGES FROM THE SITE DO NOT EXCEED PRE-DEVELOPMENT STORMWATER DISCHARGES. STORMWATER IS DISCHARGED TO THE EXISTING COUNCIL DRAINAGE SYSTEM.
- W/40D IS REQUIRED FOR THIS SITE.
- AREA BYPASS OSD: 2975m², TAKES 10.8% OF THE TOTAL SITE AREA.

Discipline	Drawing Title and Number	Date	Rev
ARCH			
STRUCT			
MECH			
ELECT			
HYD			
LANDS			
CIVIL			
ISSUED FOR DA		20.10.16	1
PRELIMINARY		20.10.16	1
PRELIMINARY		20.10.16	1
Issue Last revision Title	by	Date	Scale
2-developed application	3-construction certificate	4-approval	5-approval

Discipline	Drawing Title and Number	Date	Rev
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STRUCT			
MECH			
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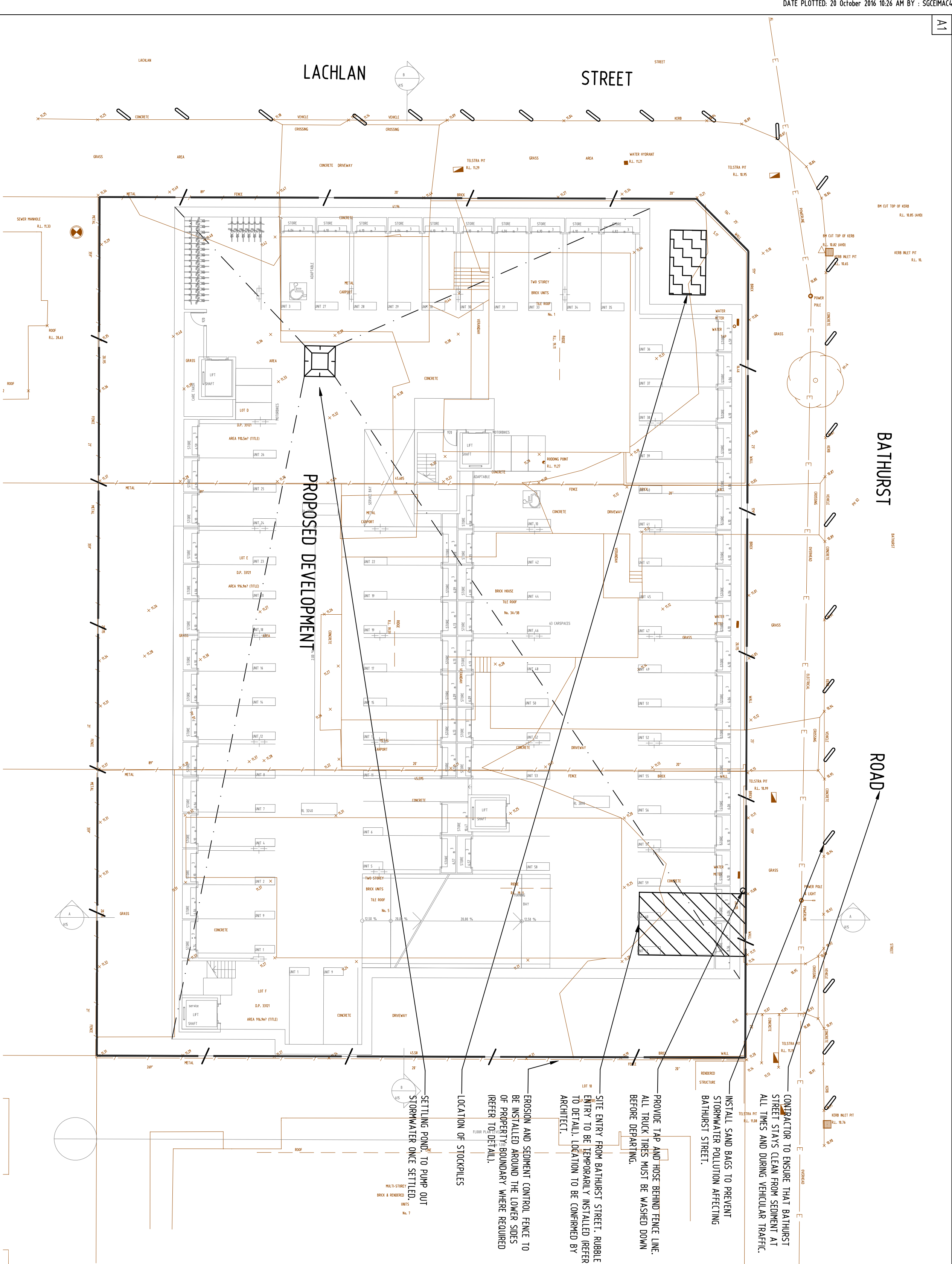
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LANDS			
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LANDS			
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PRELIMINARY		20.10.16	1
PRELIMINARY		20.10.16	1
Issue Last revision Title	by	Date	Scale
2-developed application	3-construction certificate	4-approval	5-approval



EROSION & SEDIMENTATION CONTROL NOTES

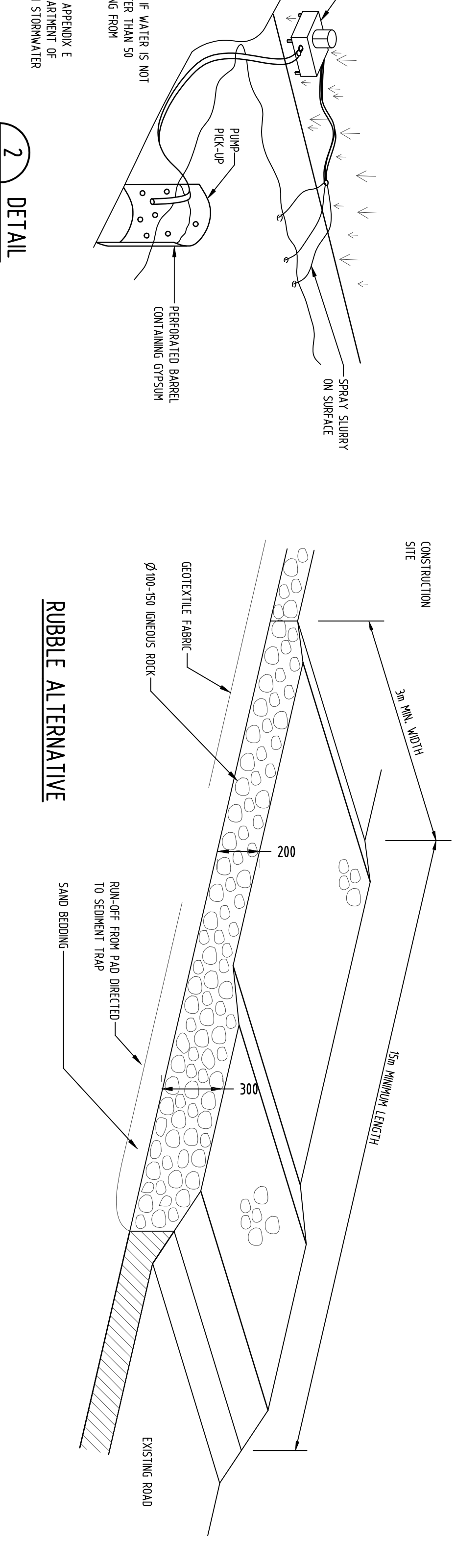
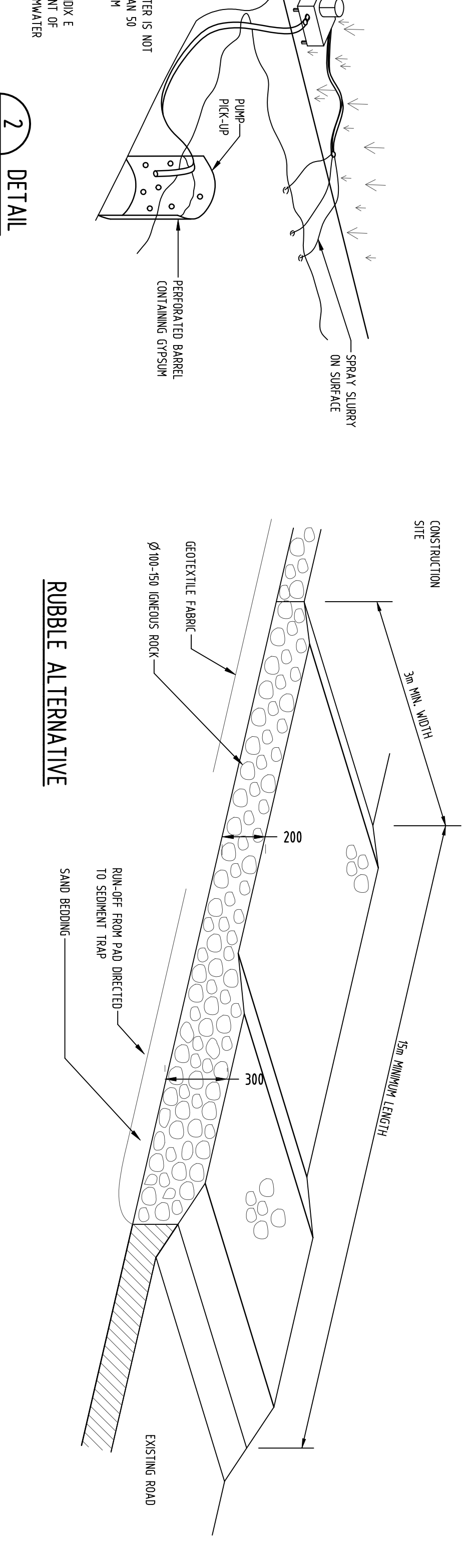
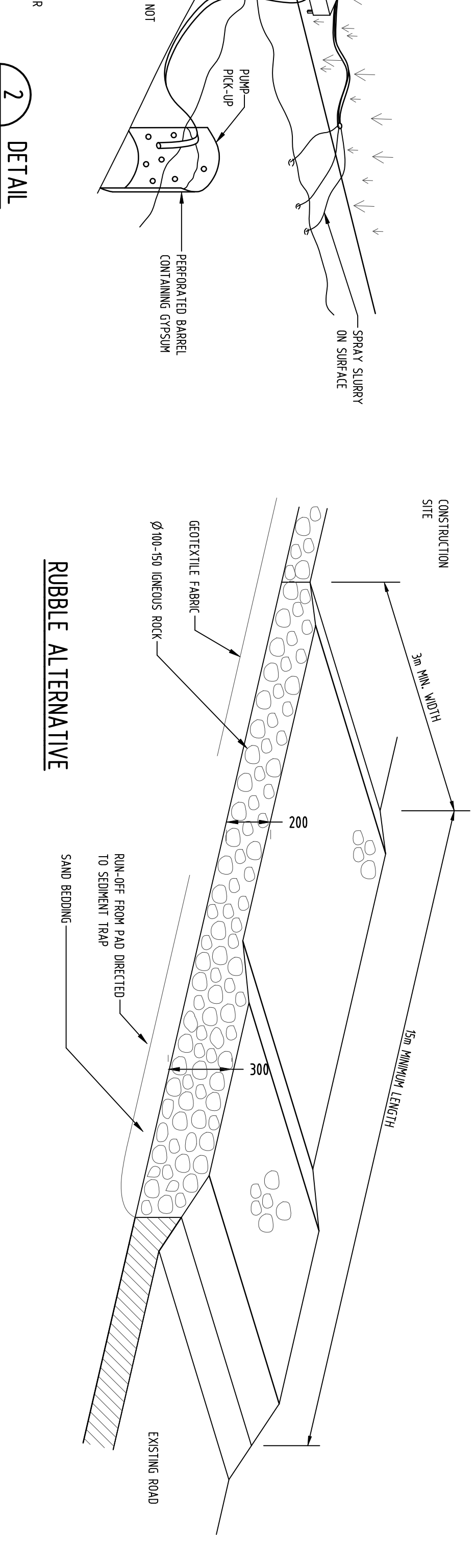
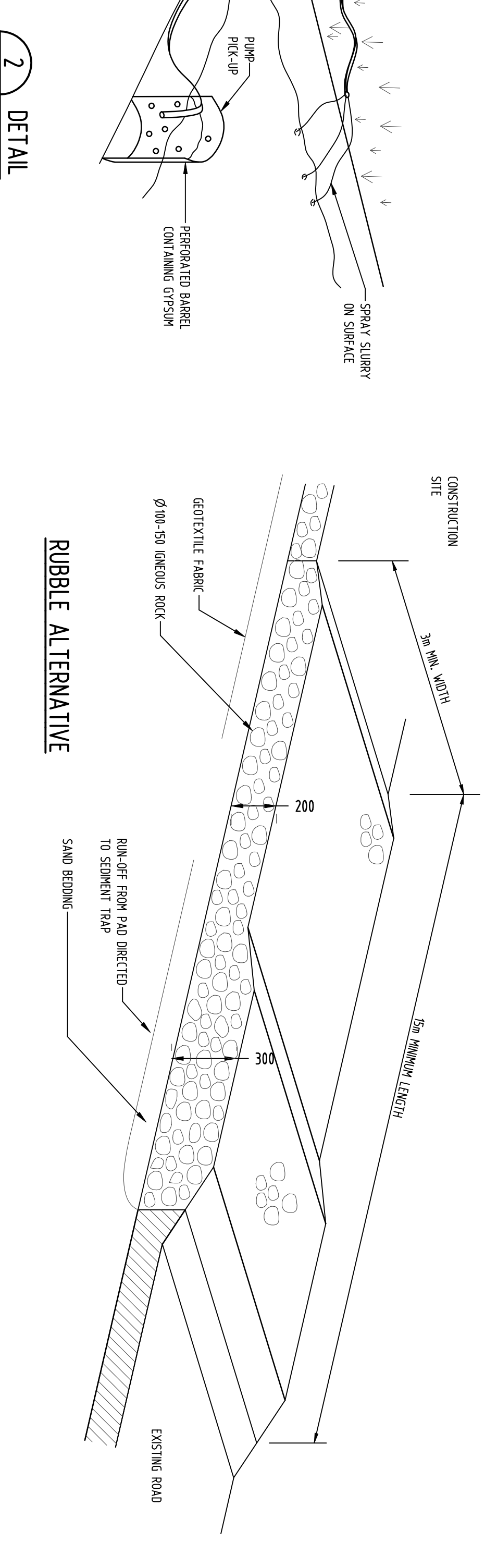
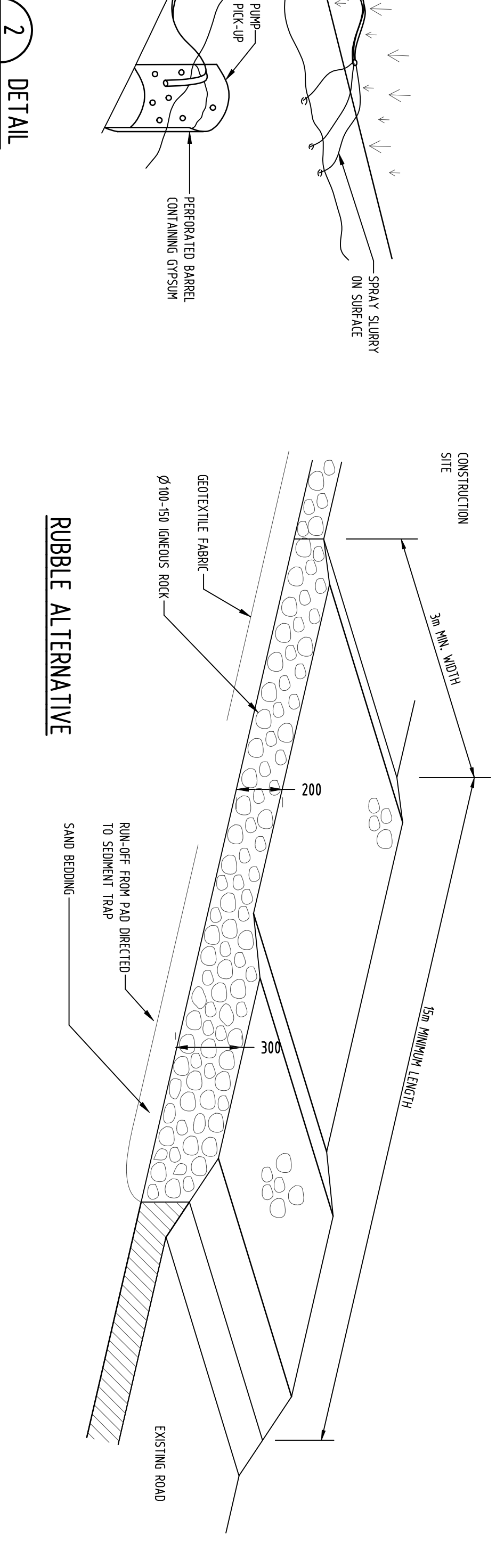
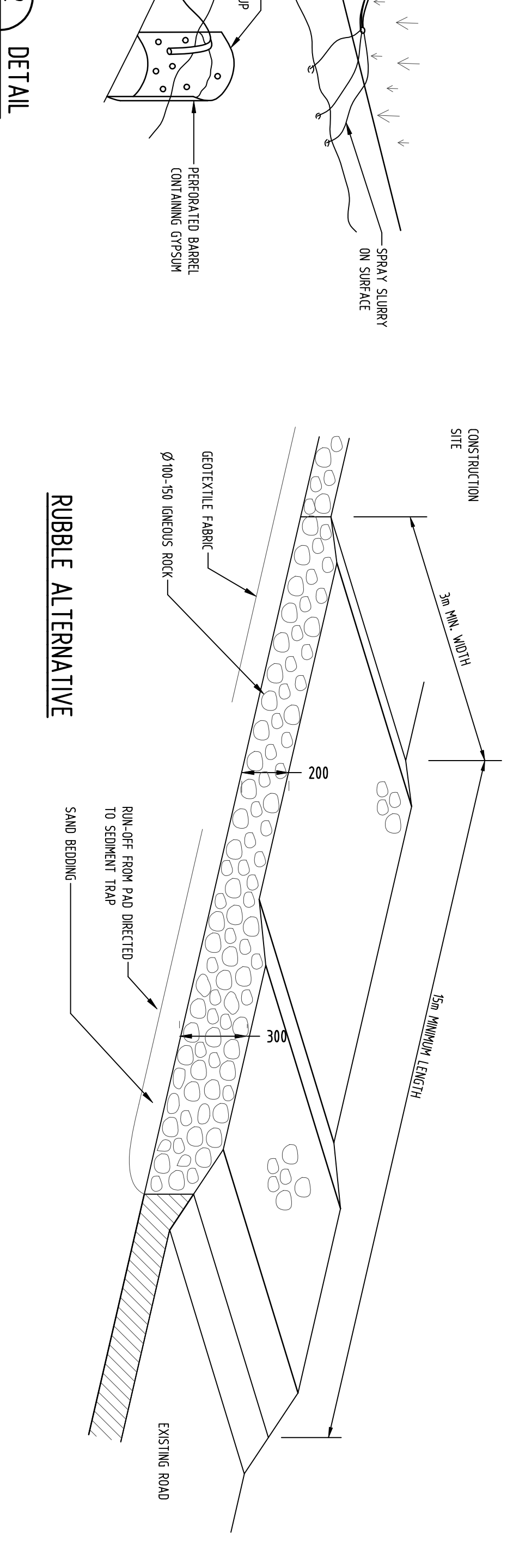
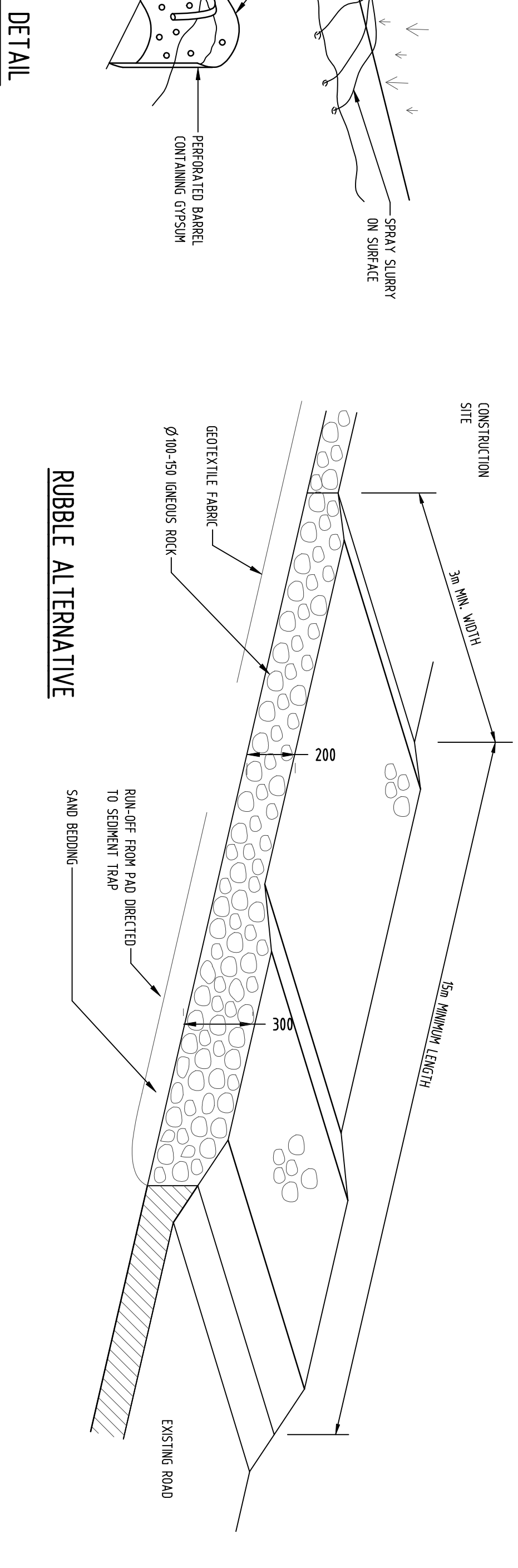
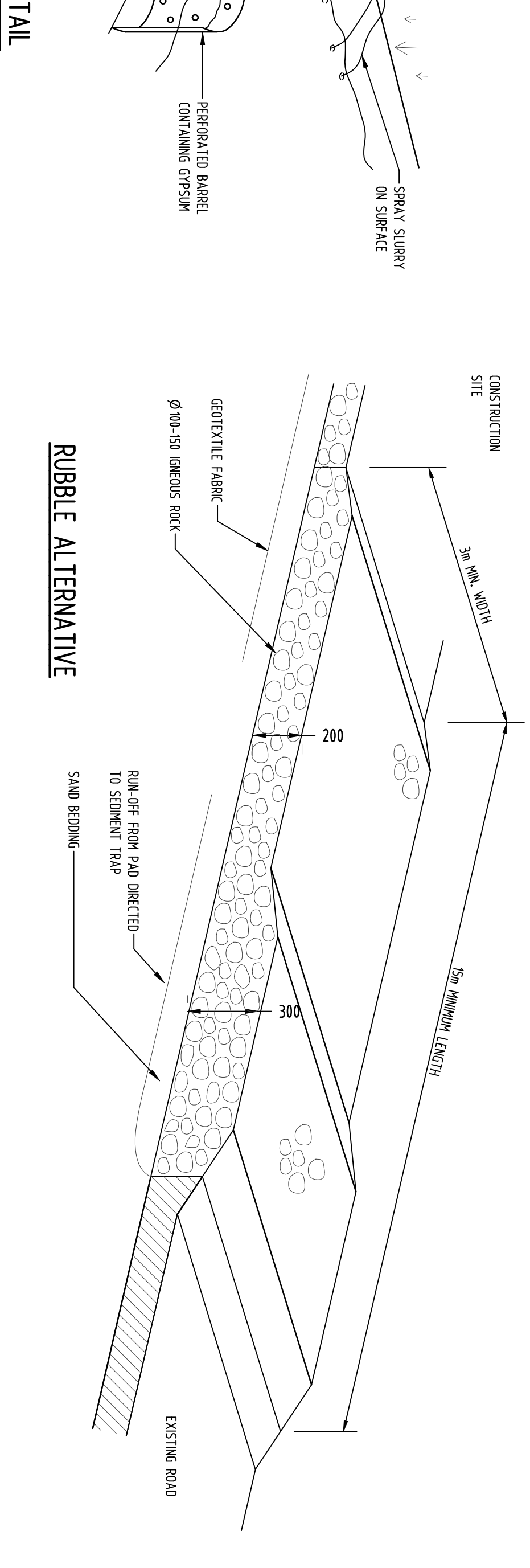
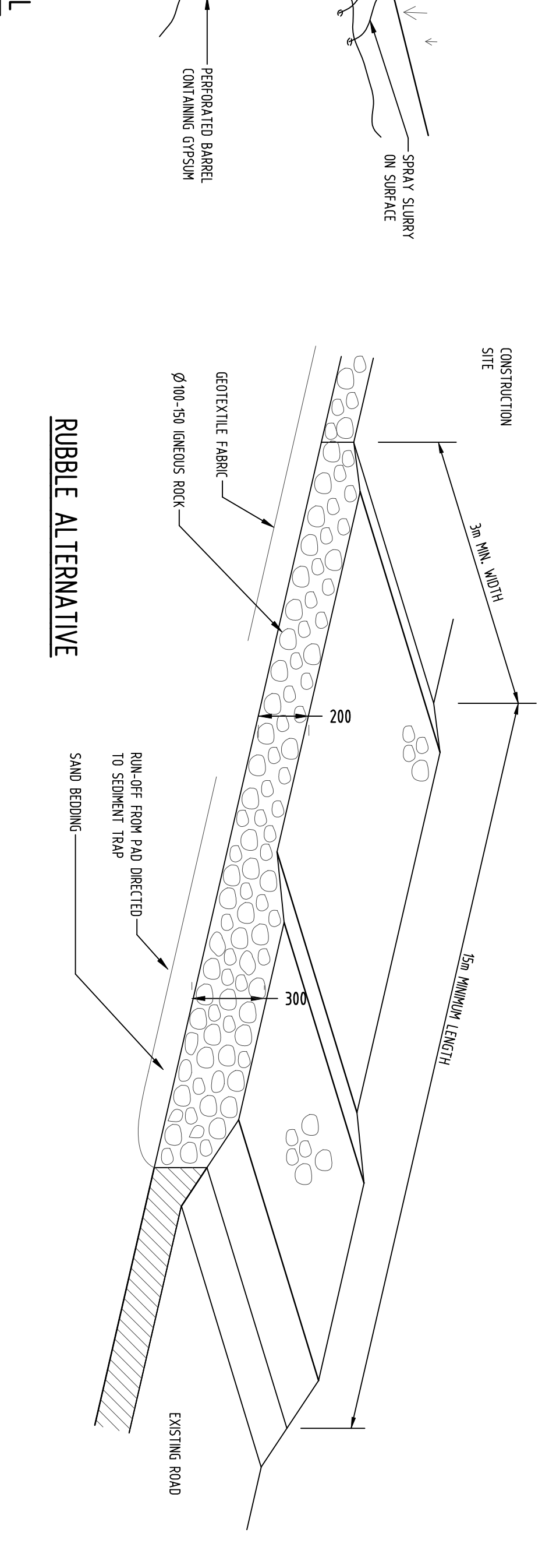
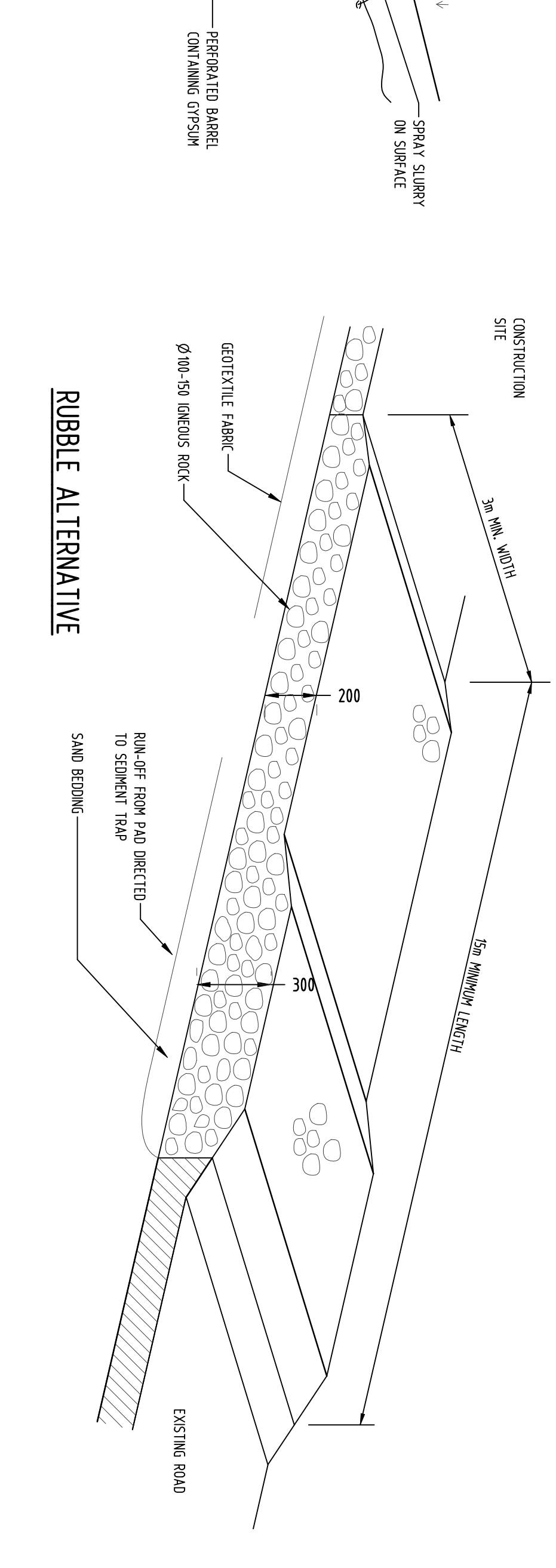
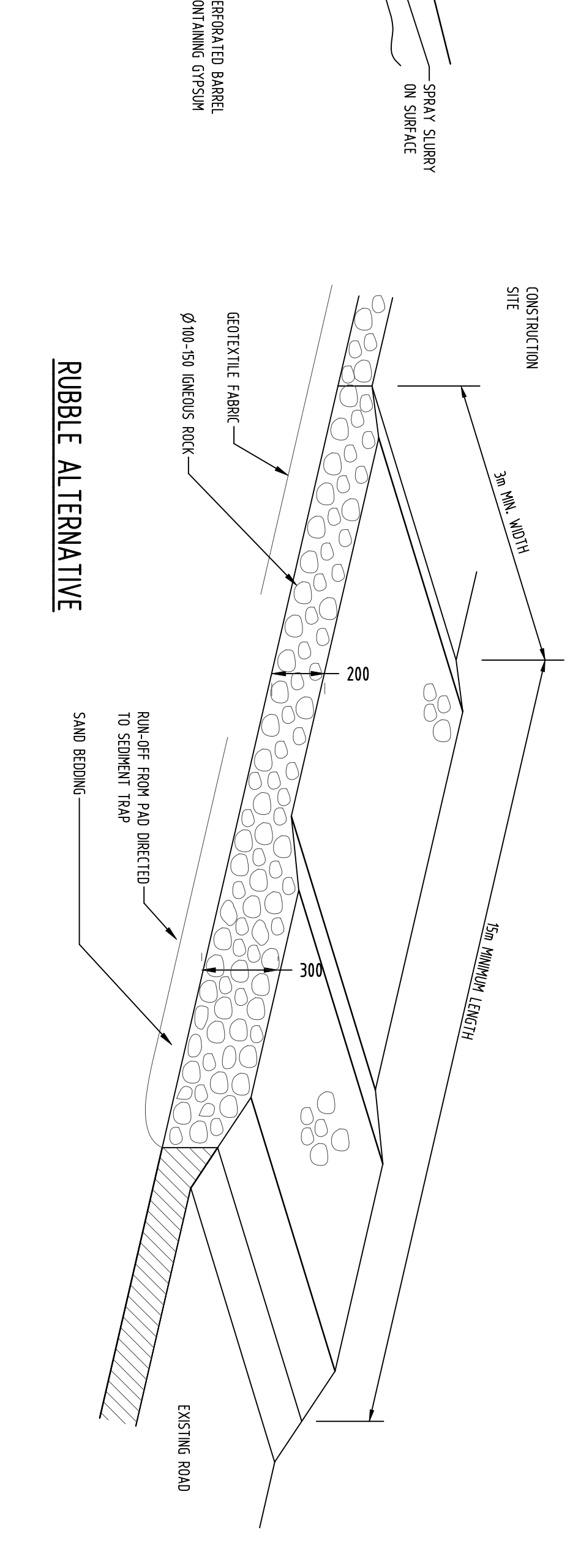
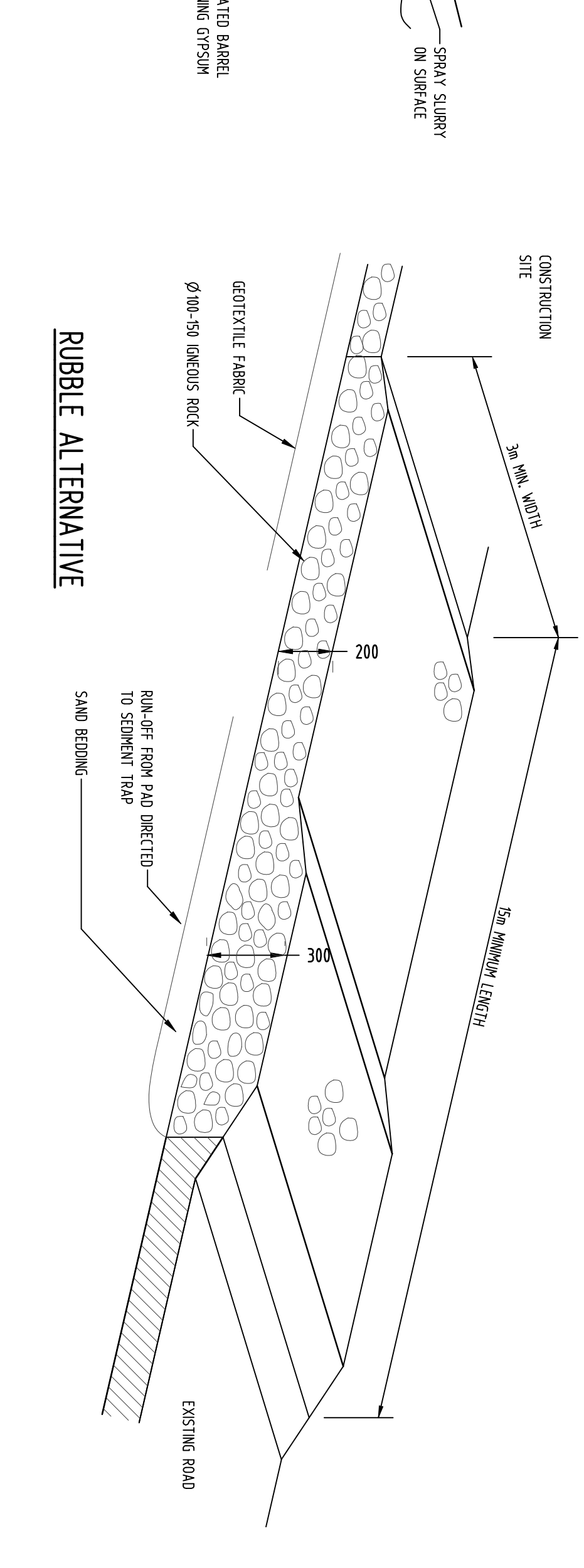
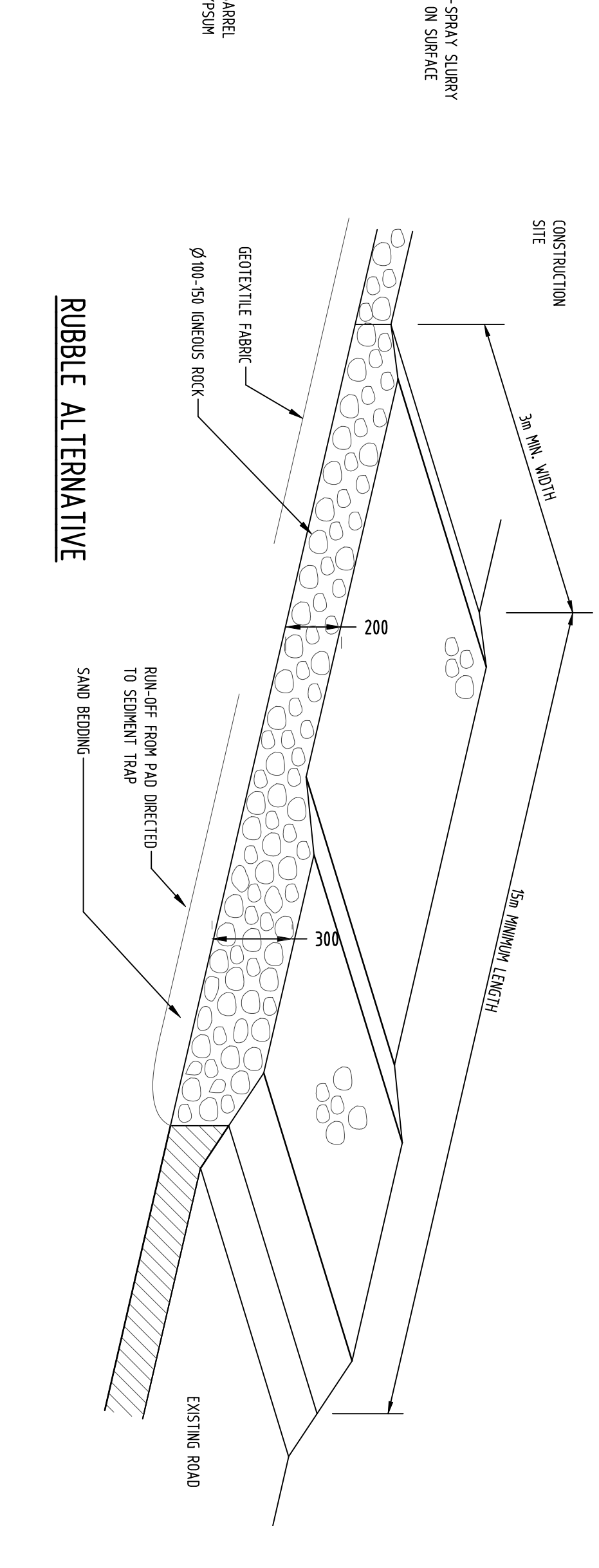
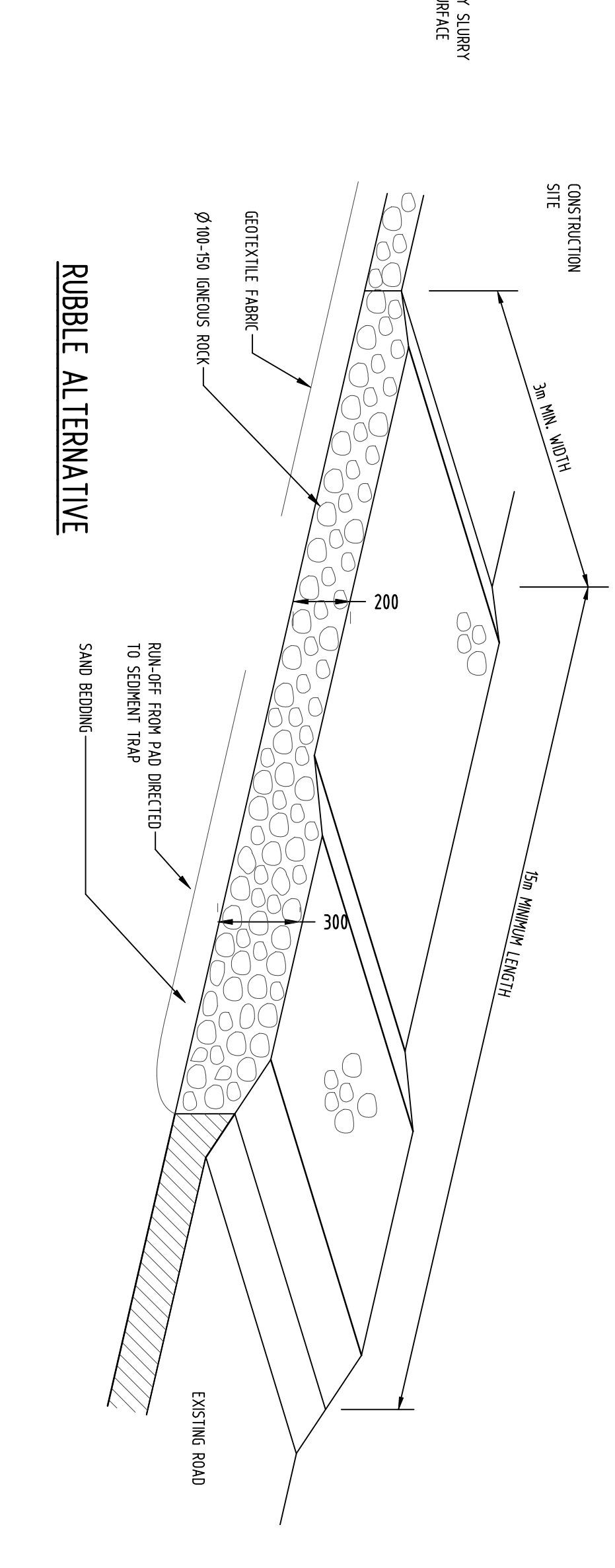
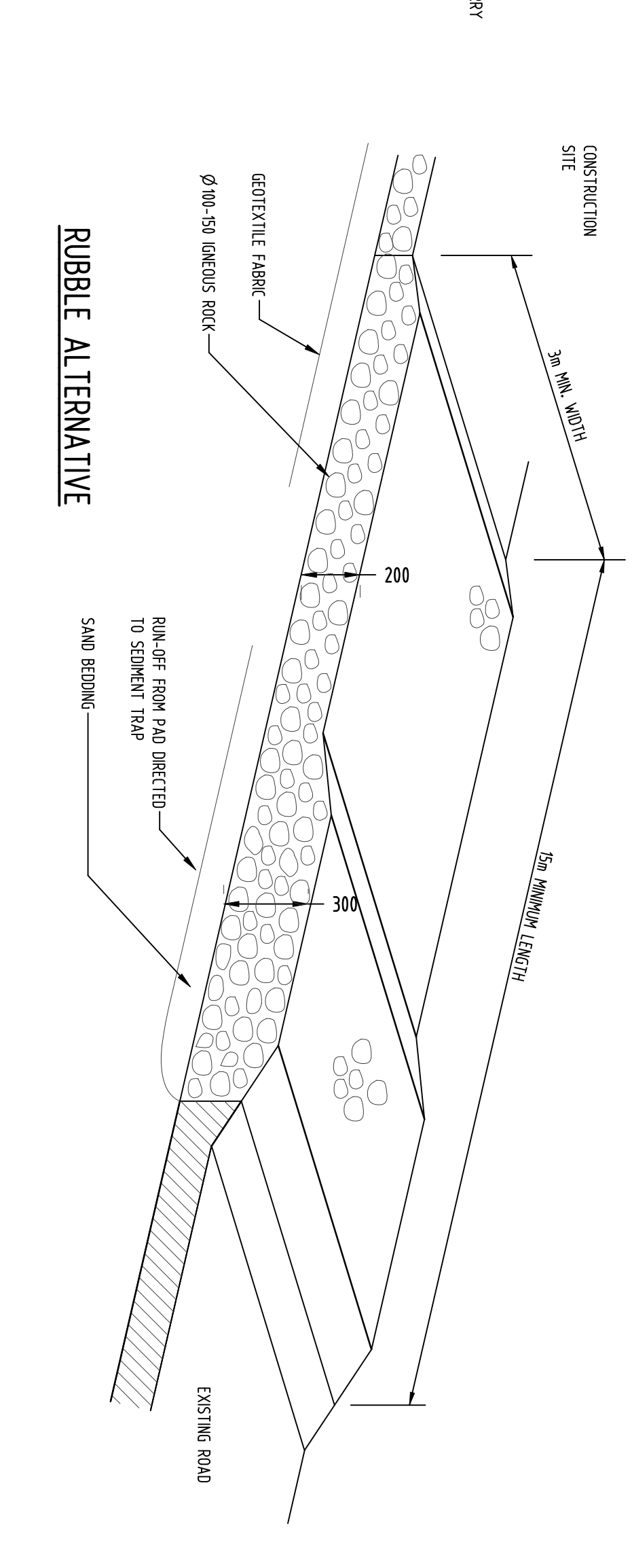
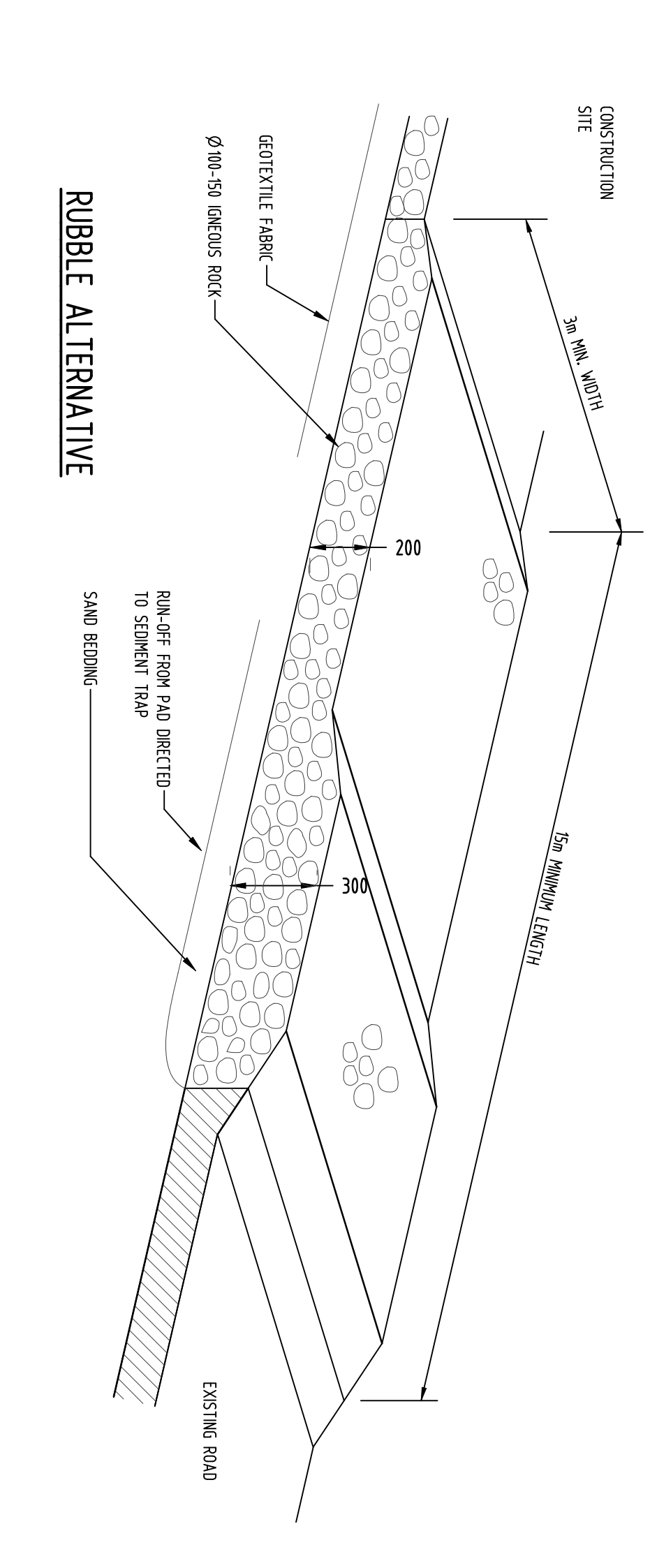
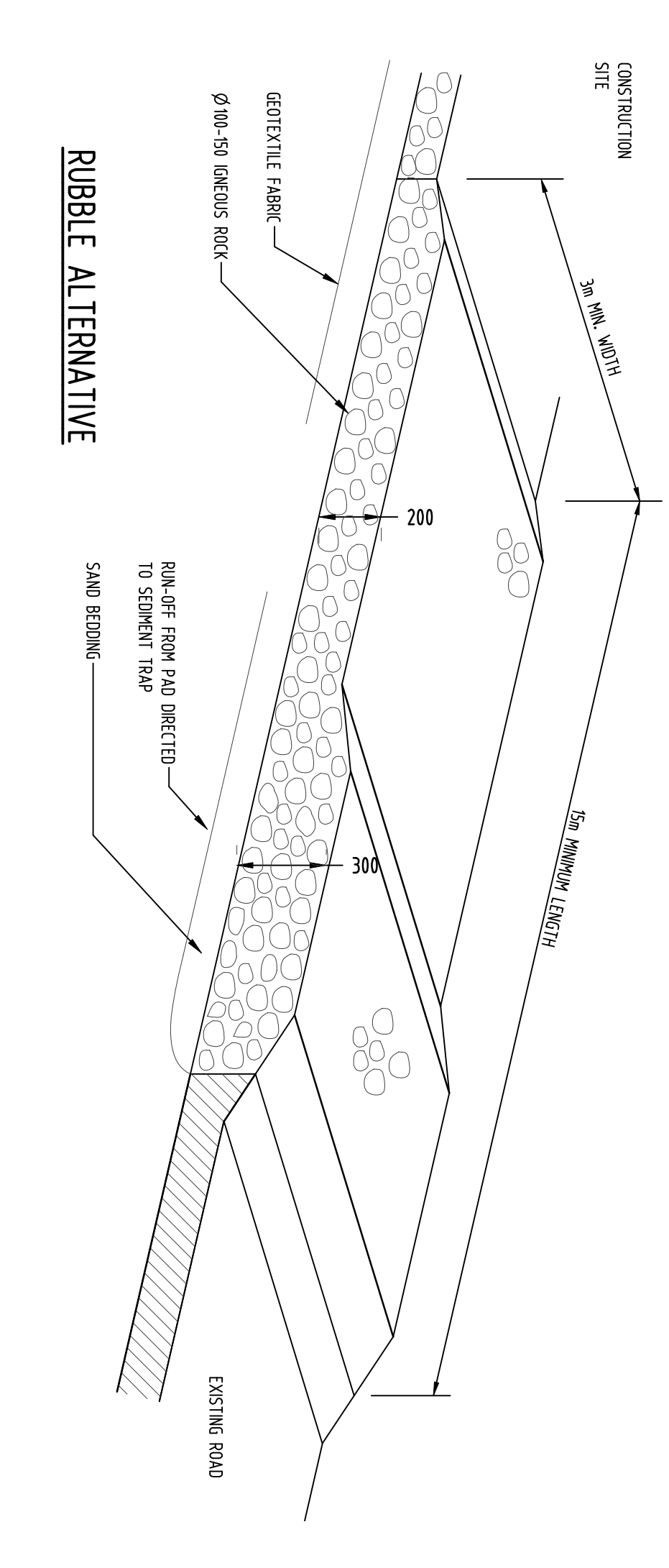
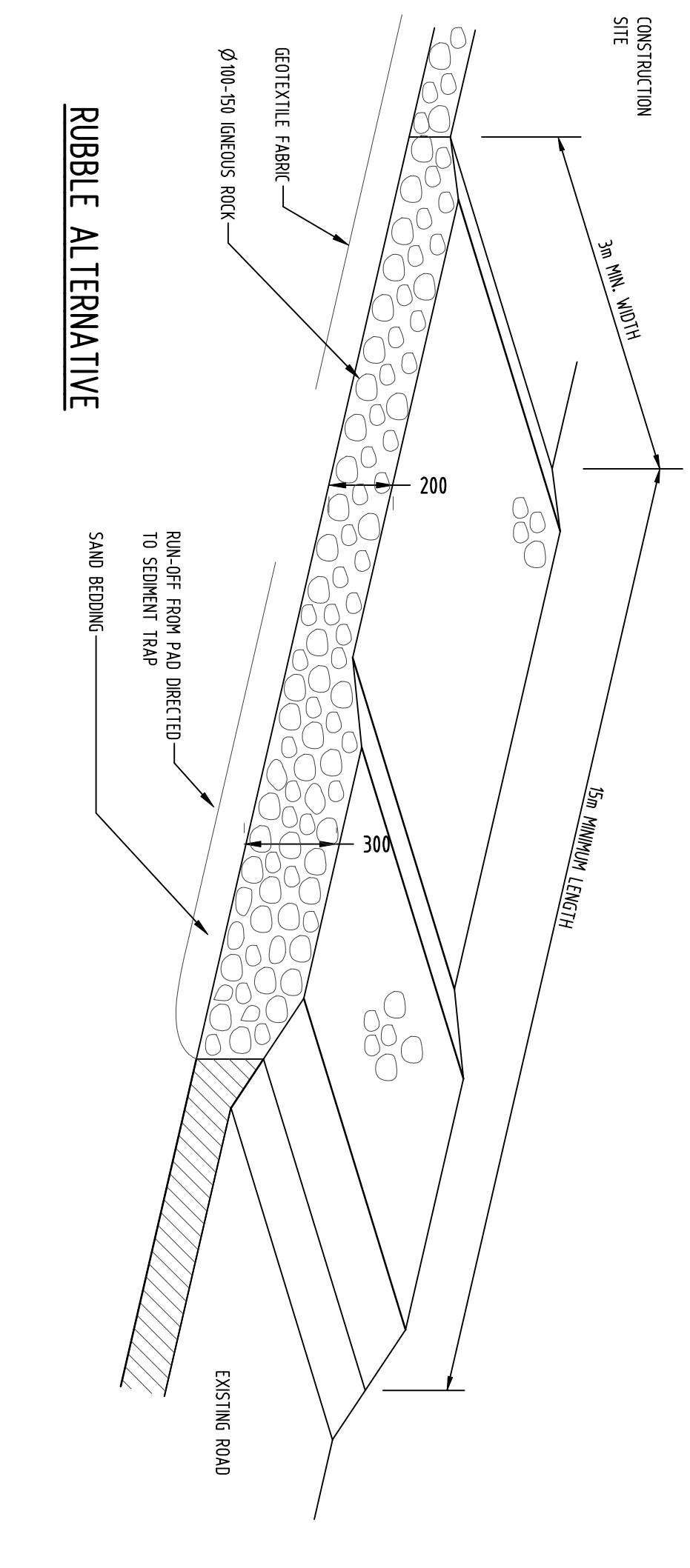
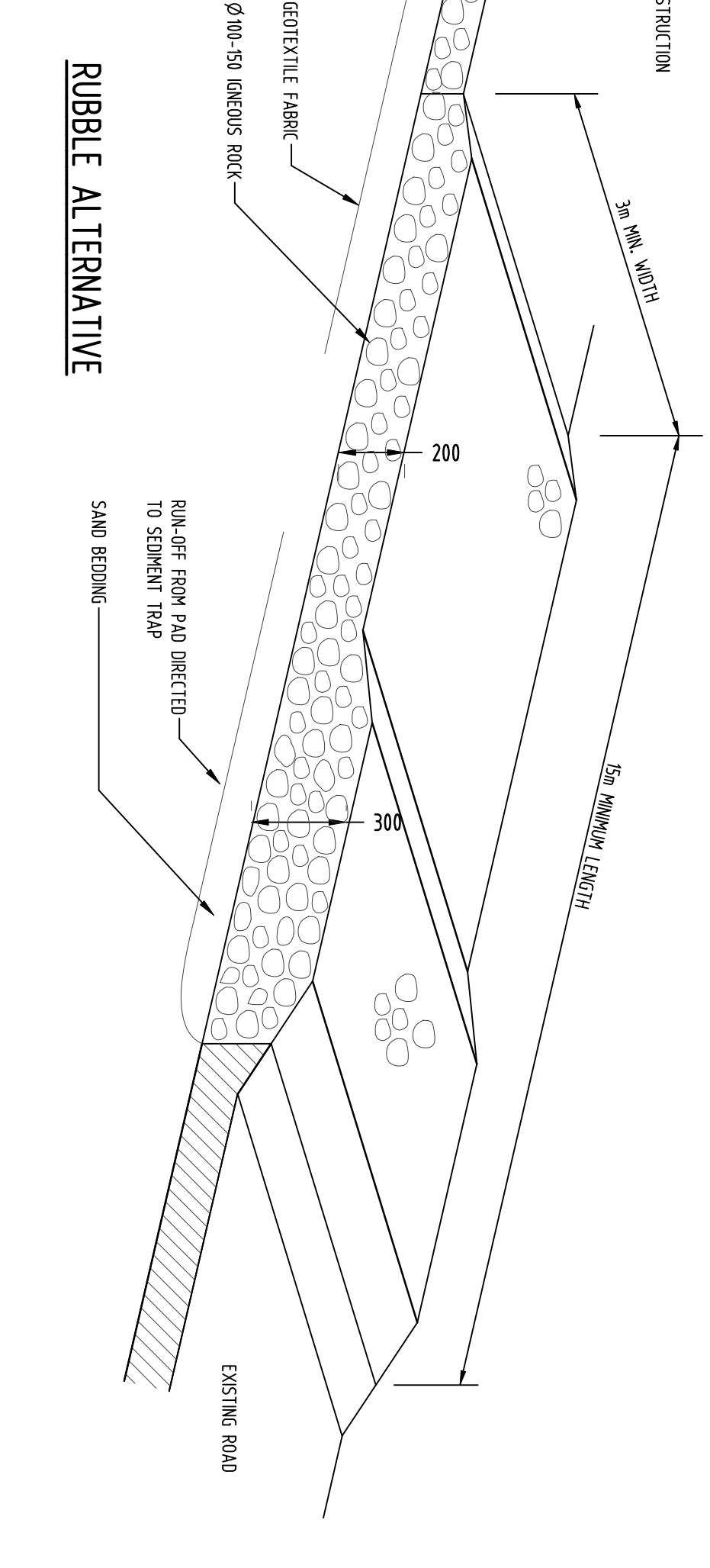
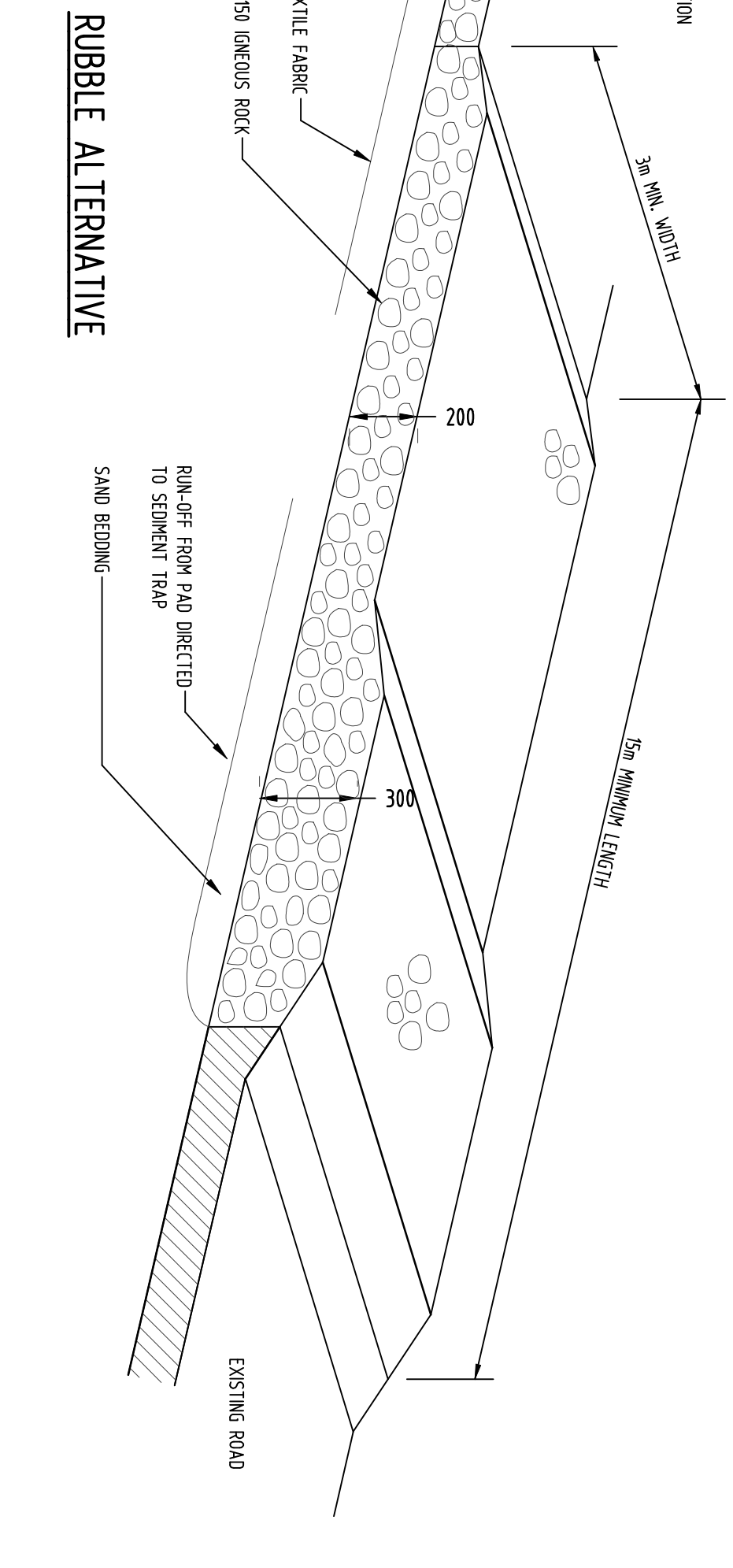
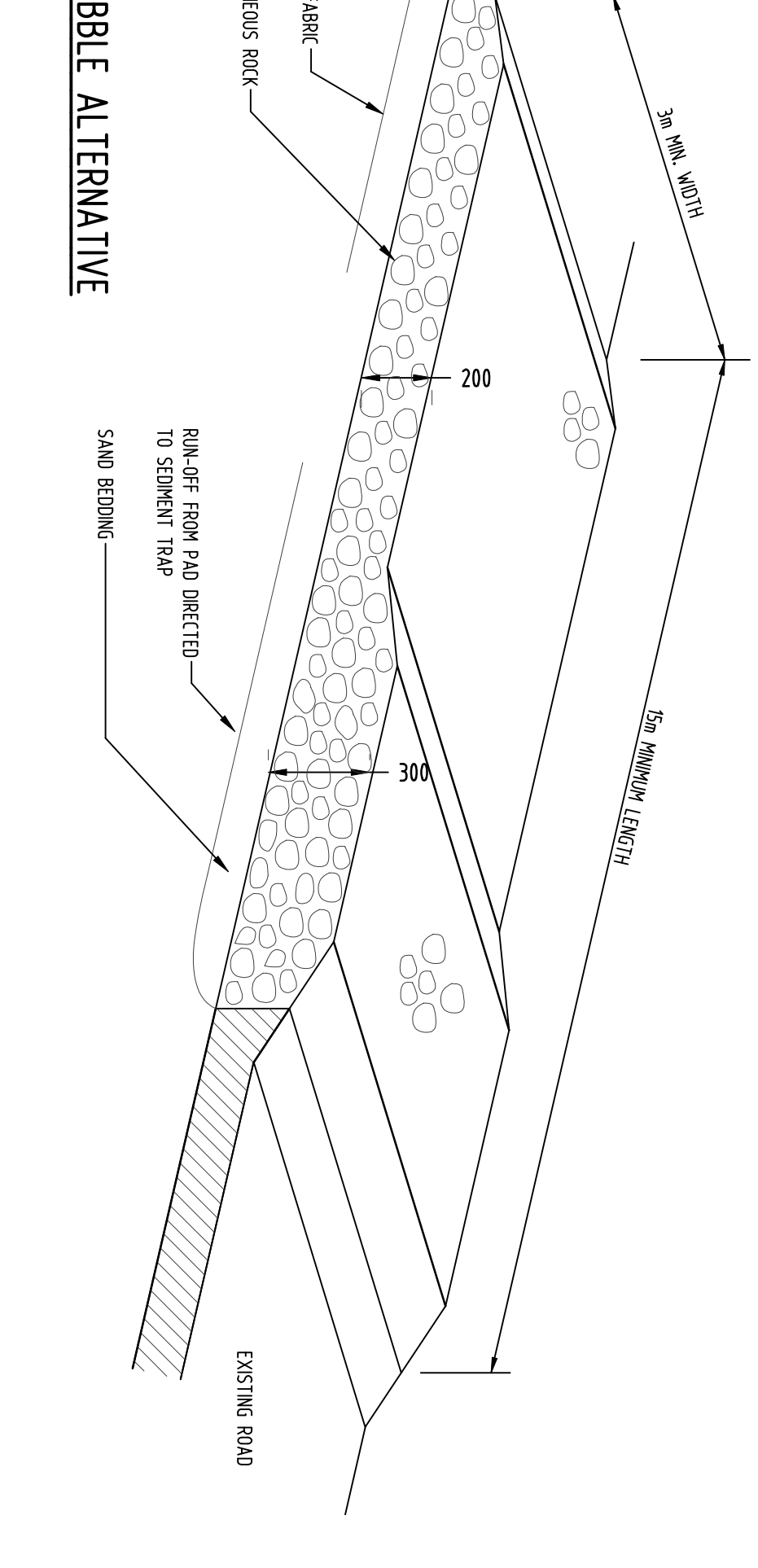
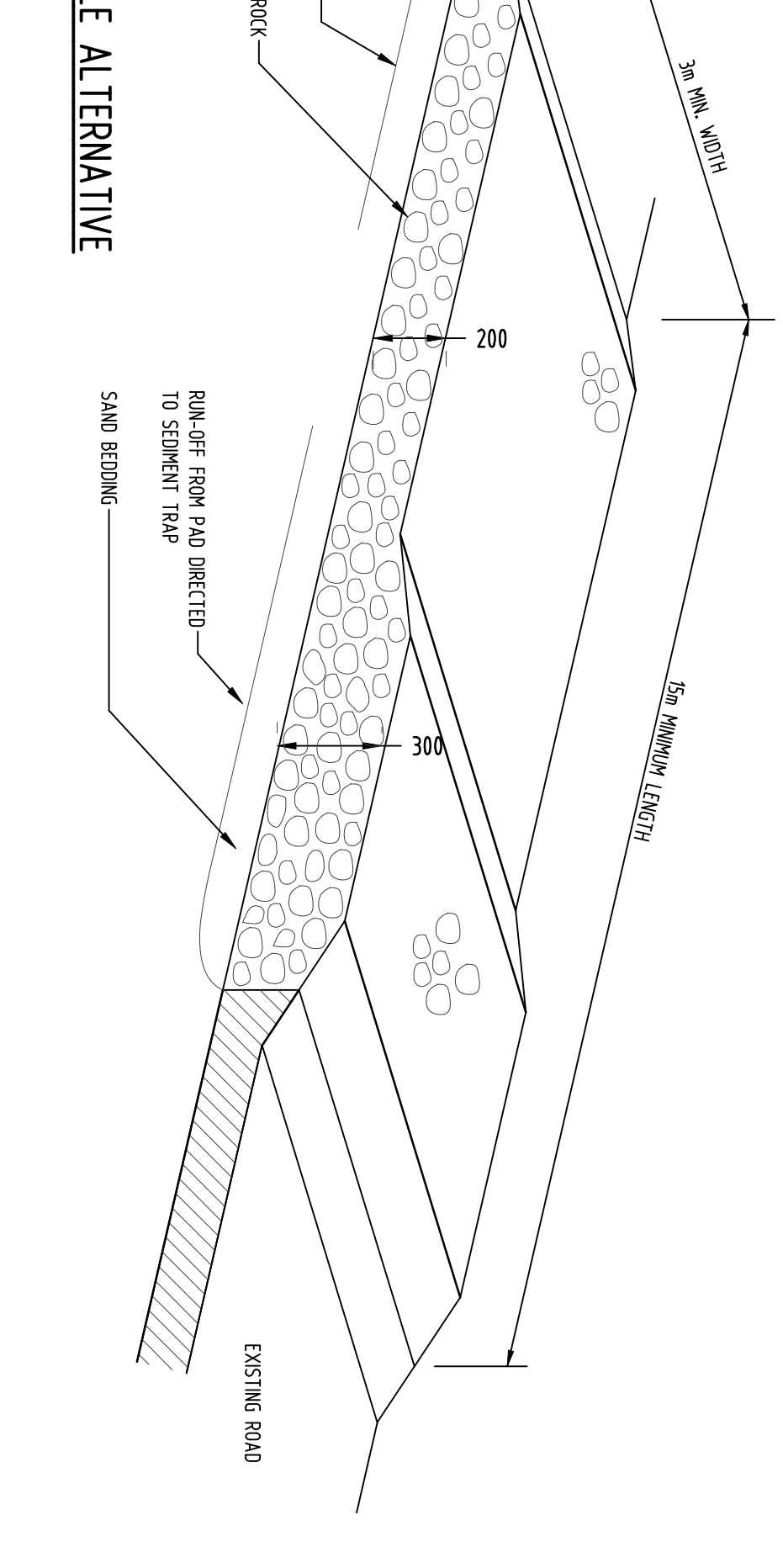
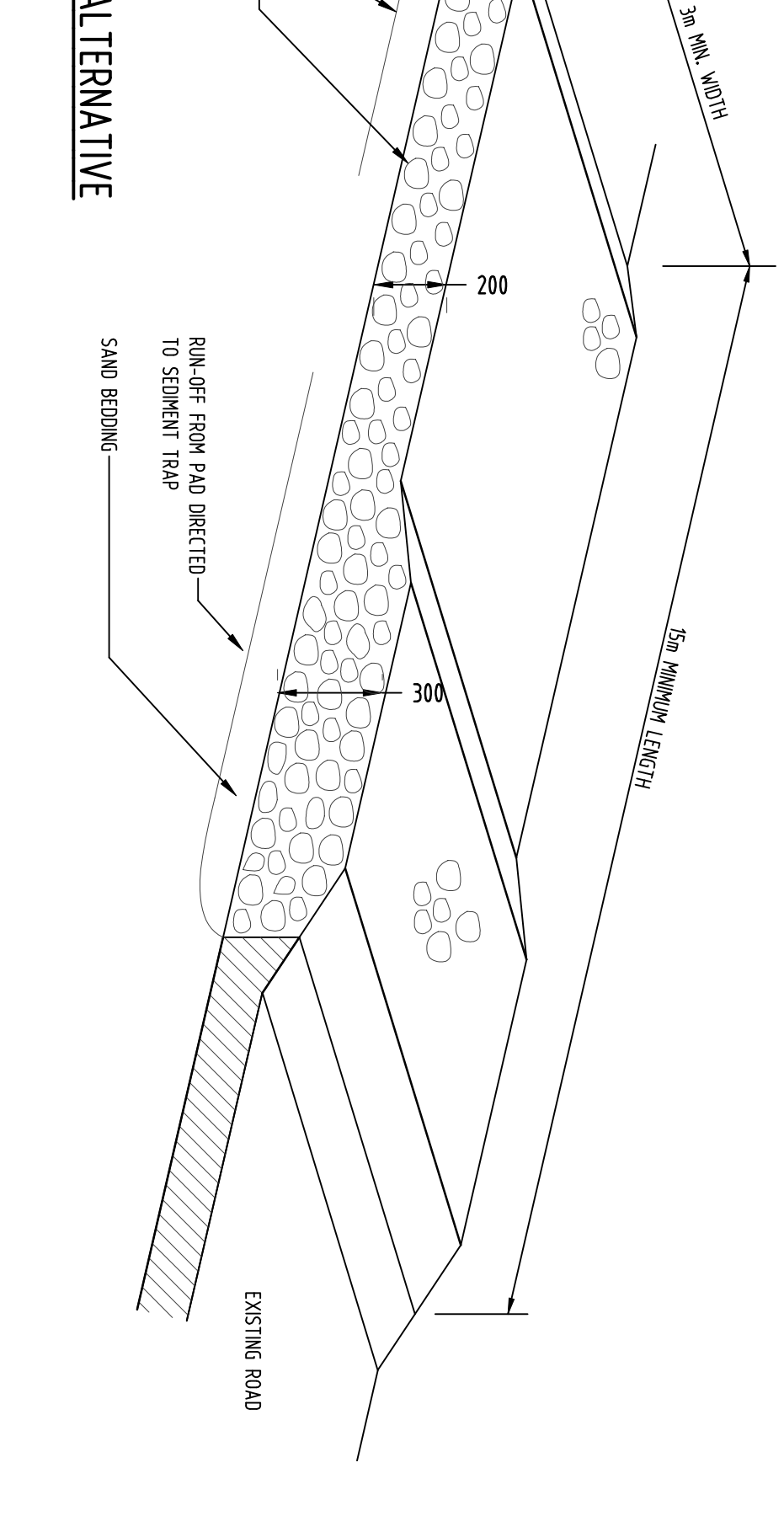
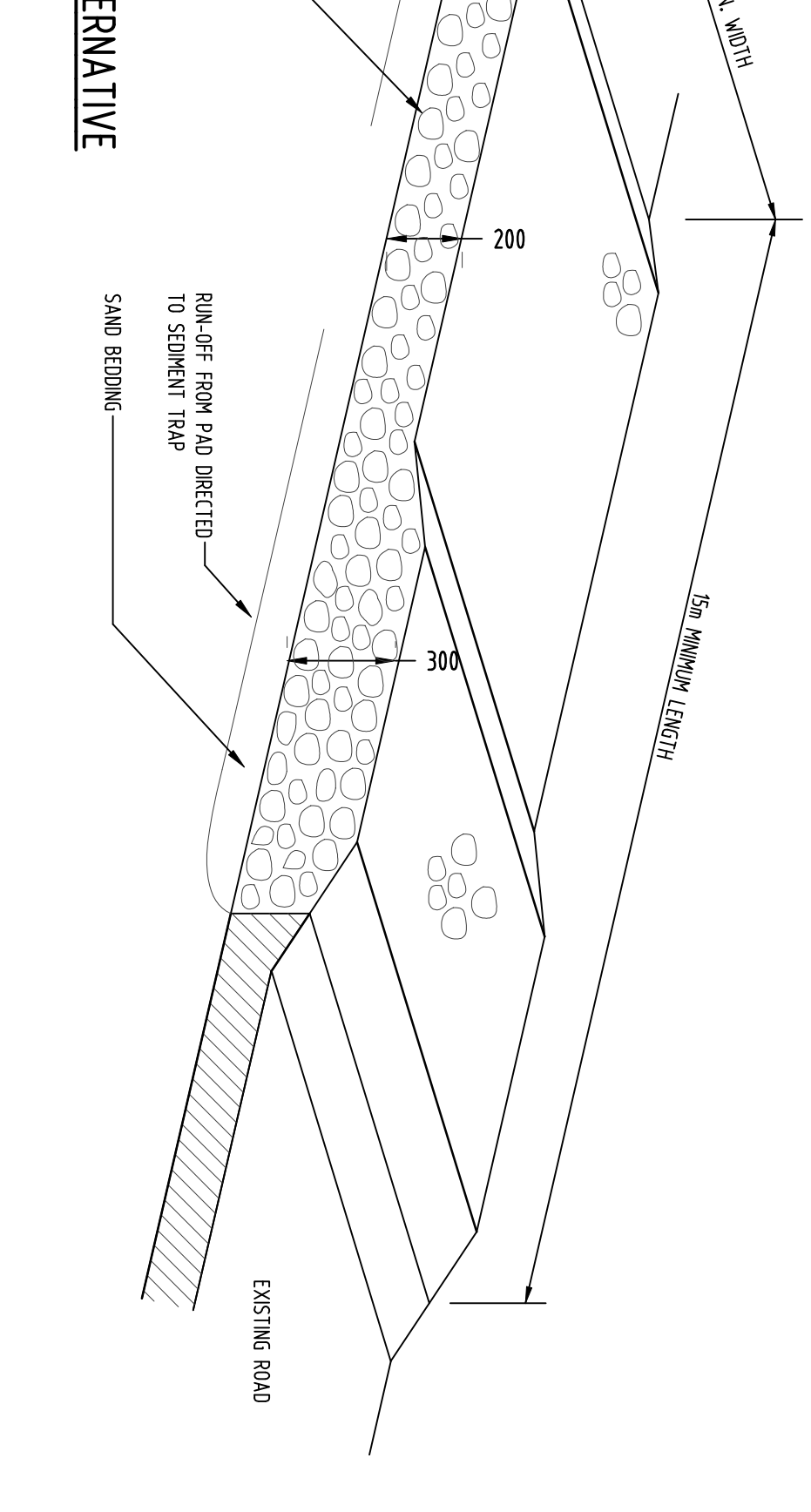
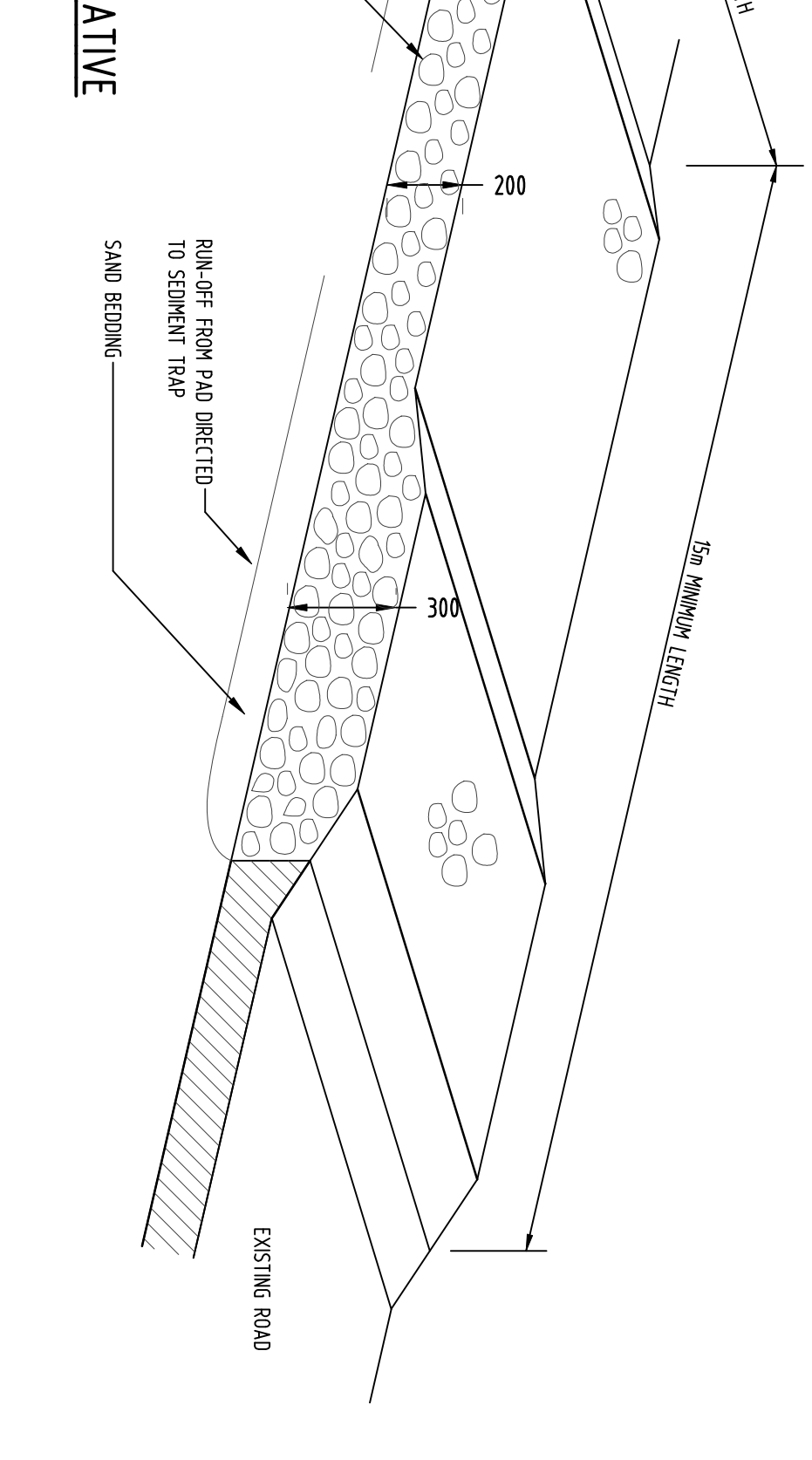
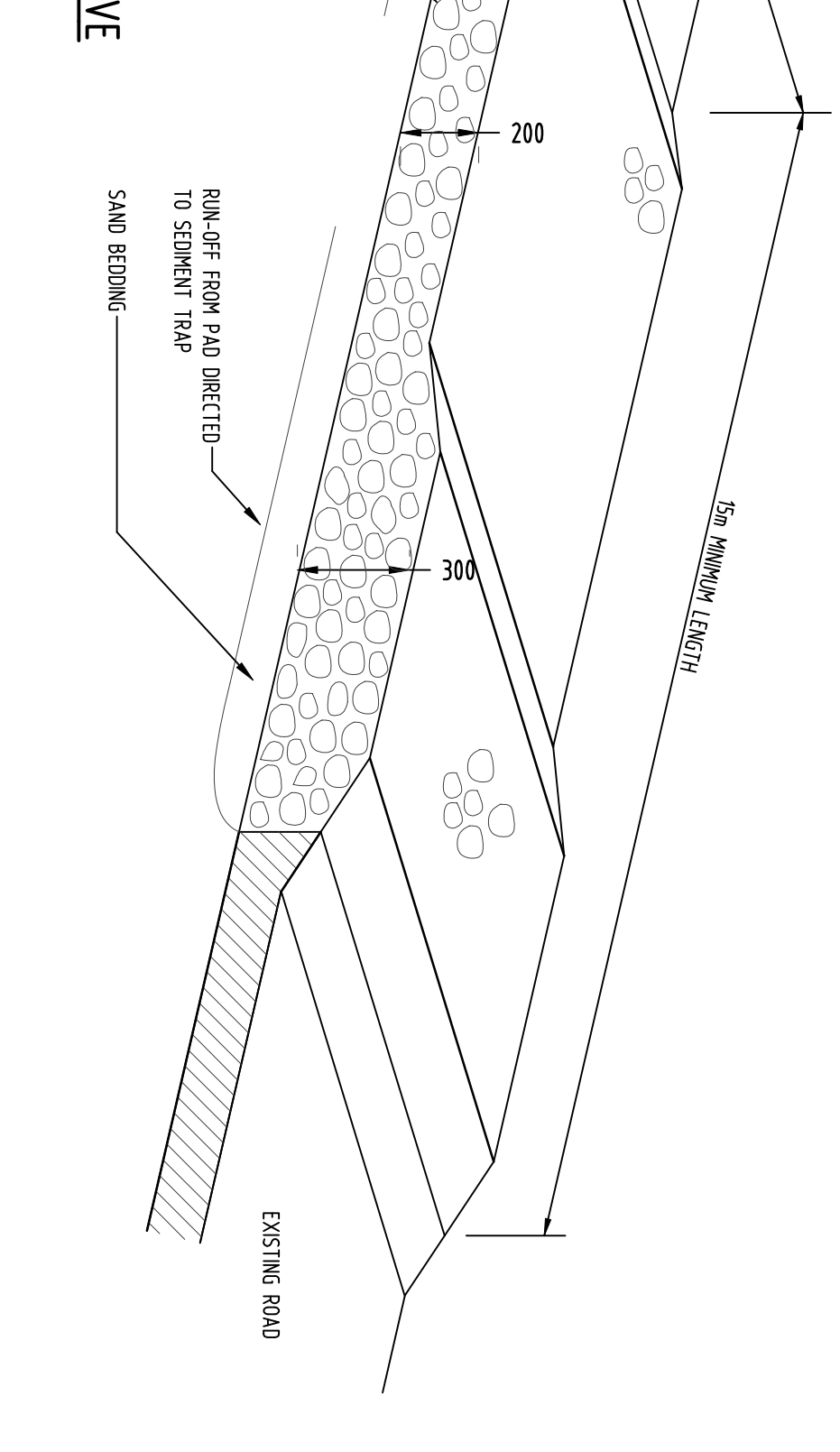
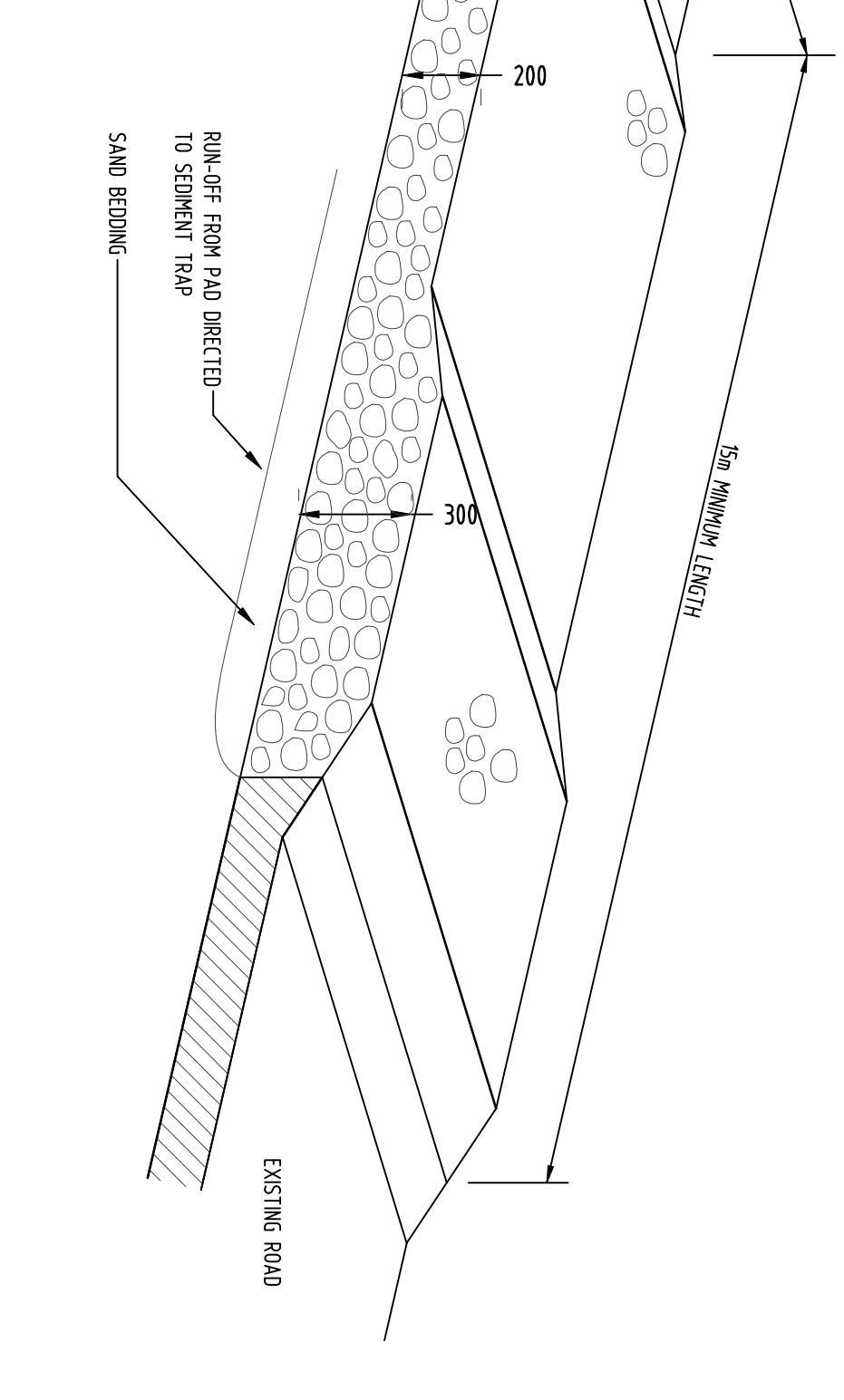
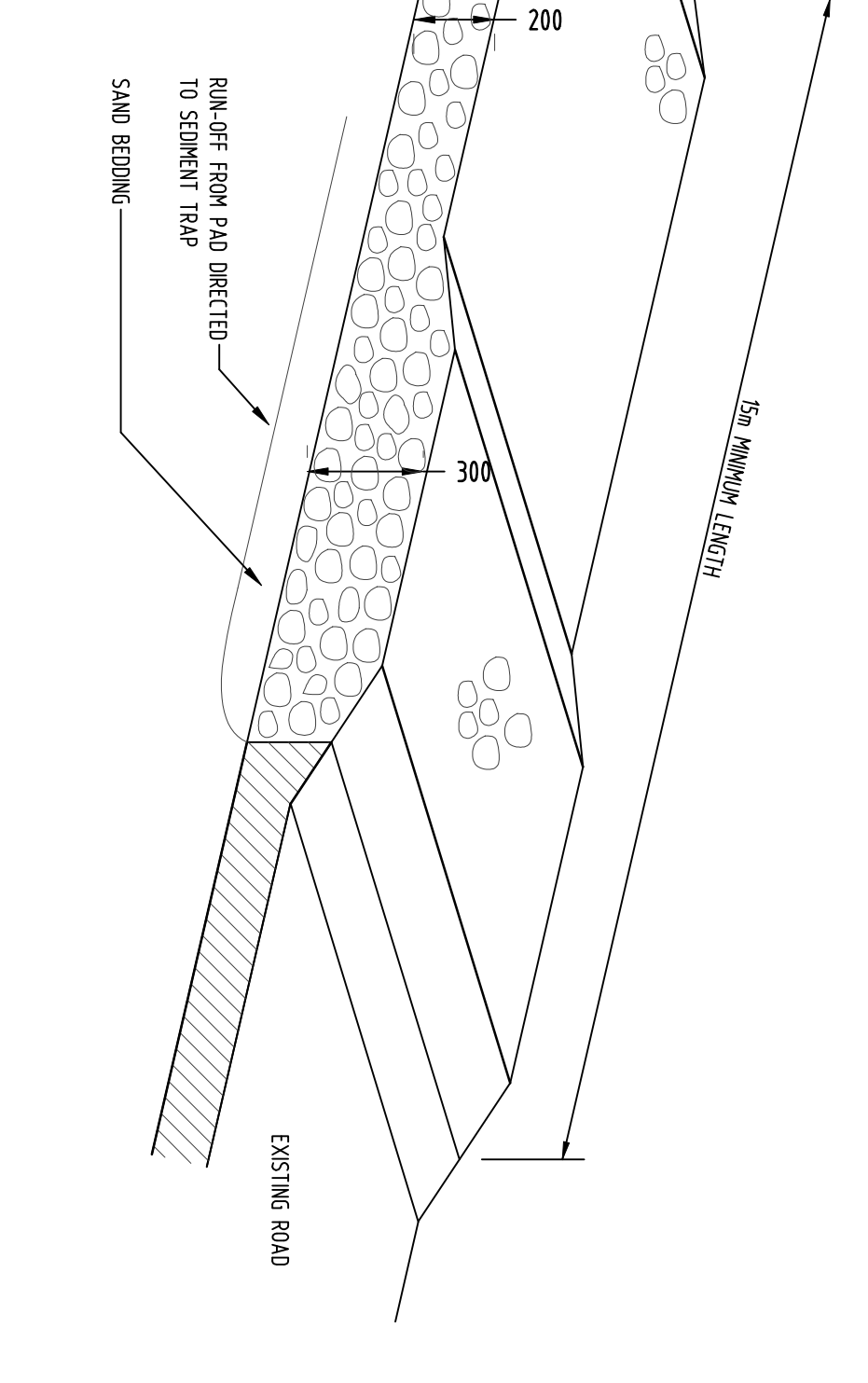
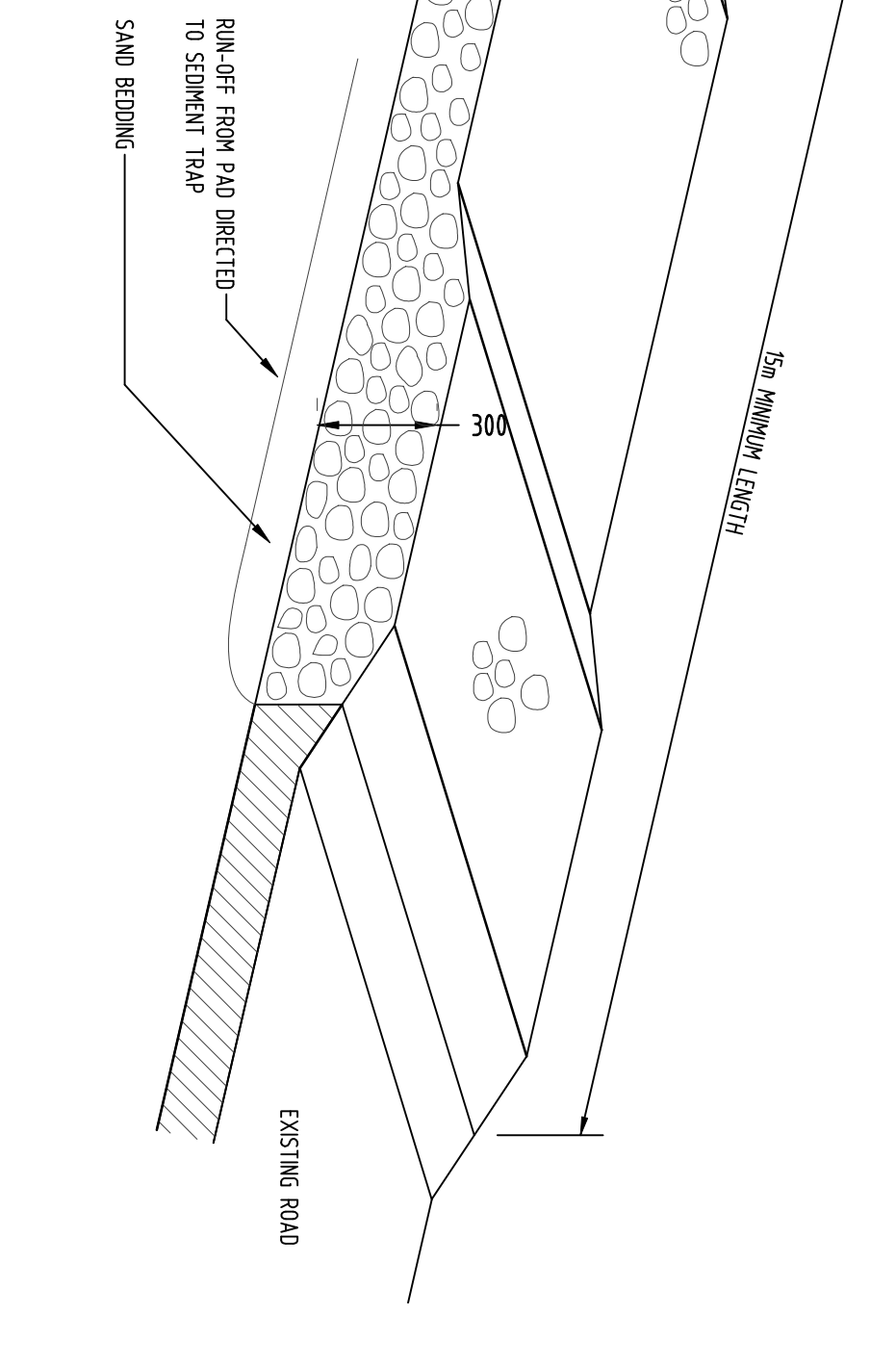
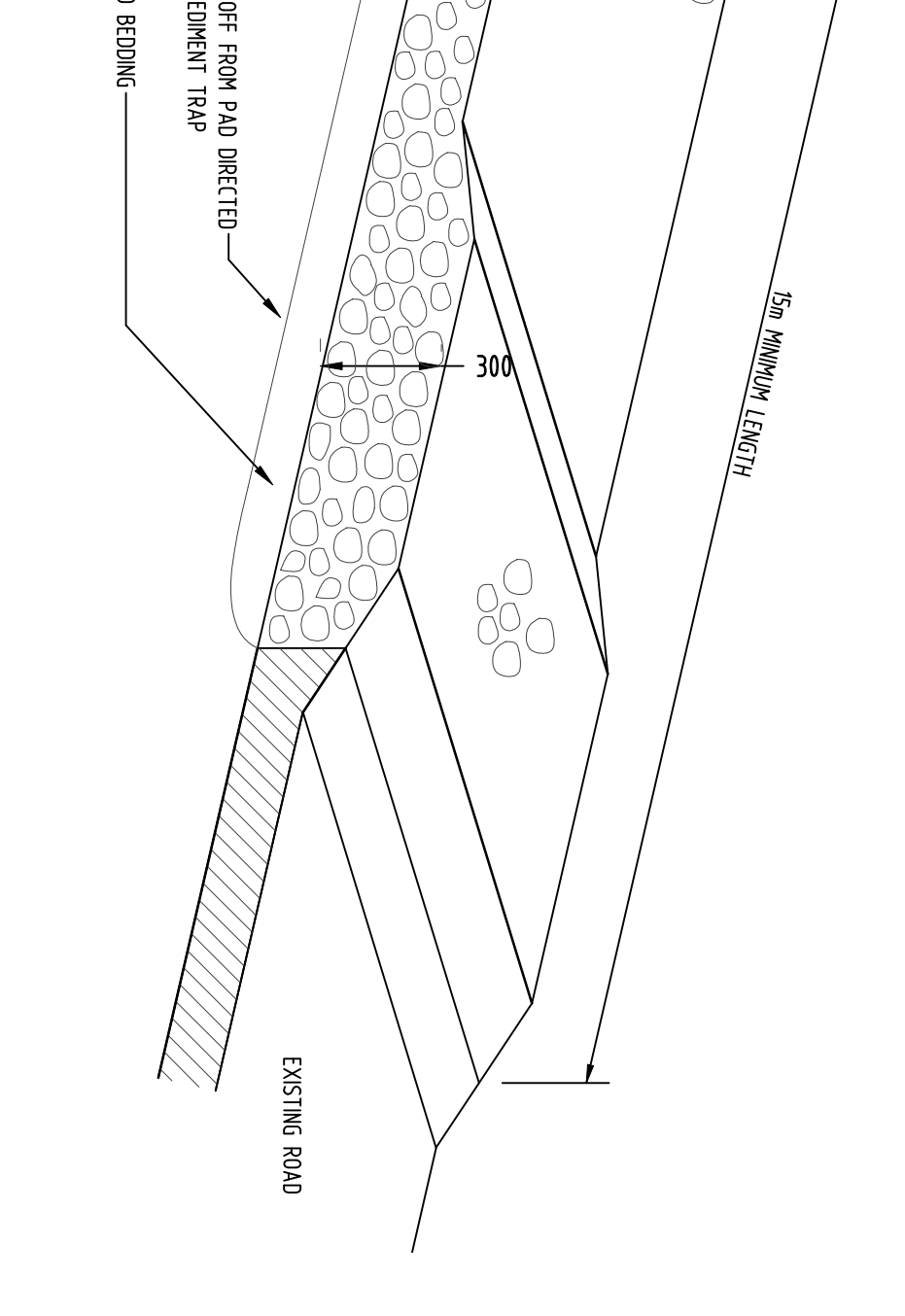
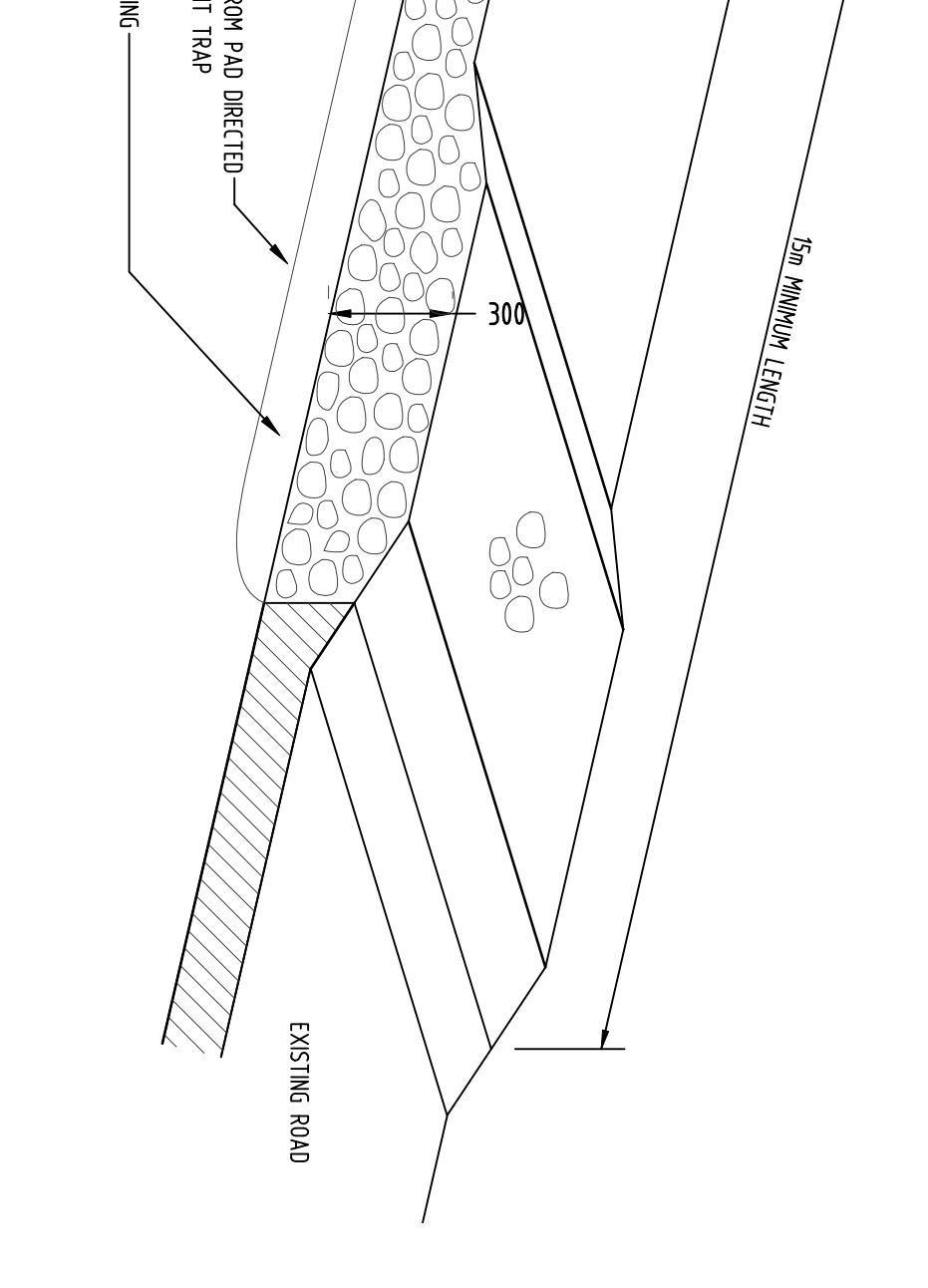
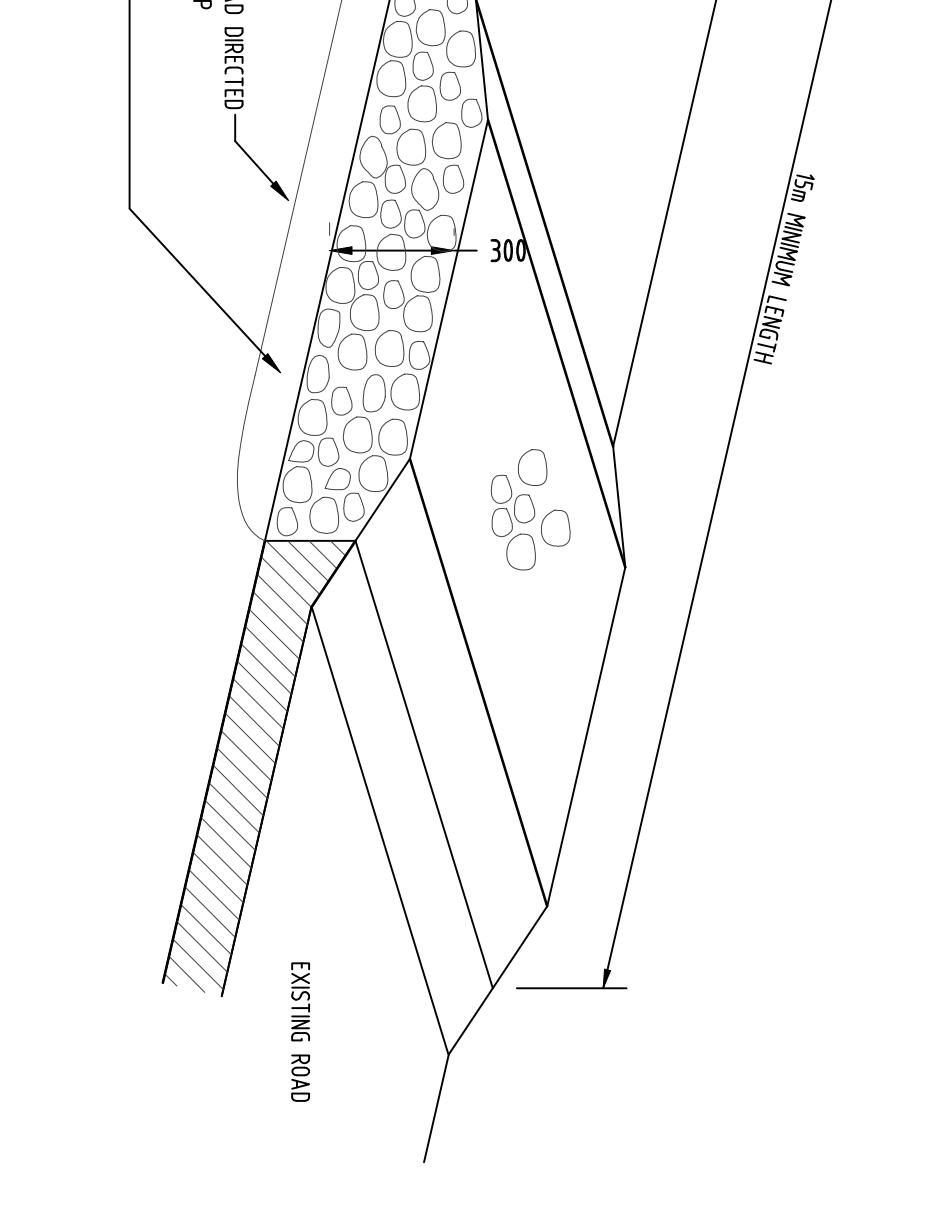
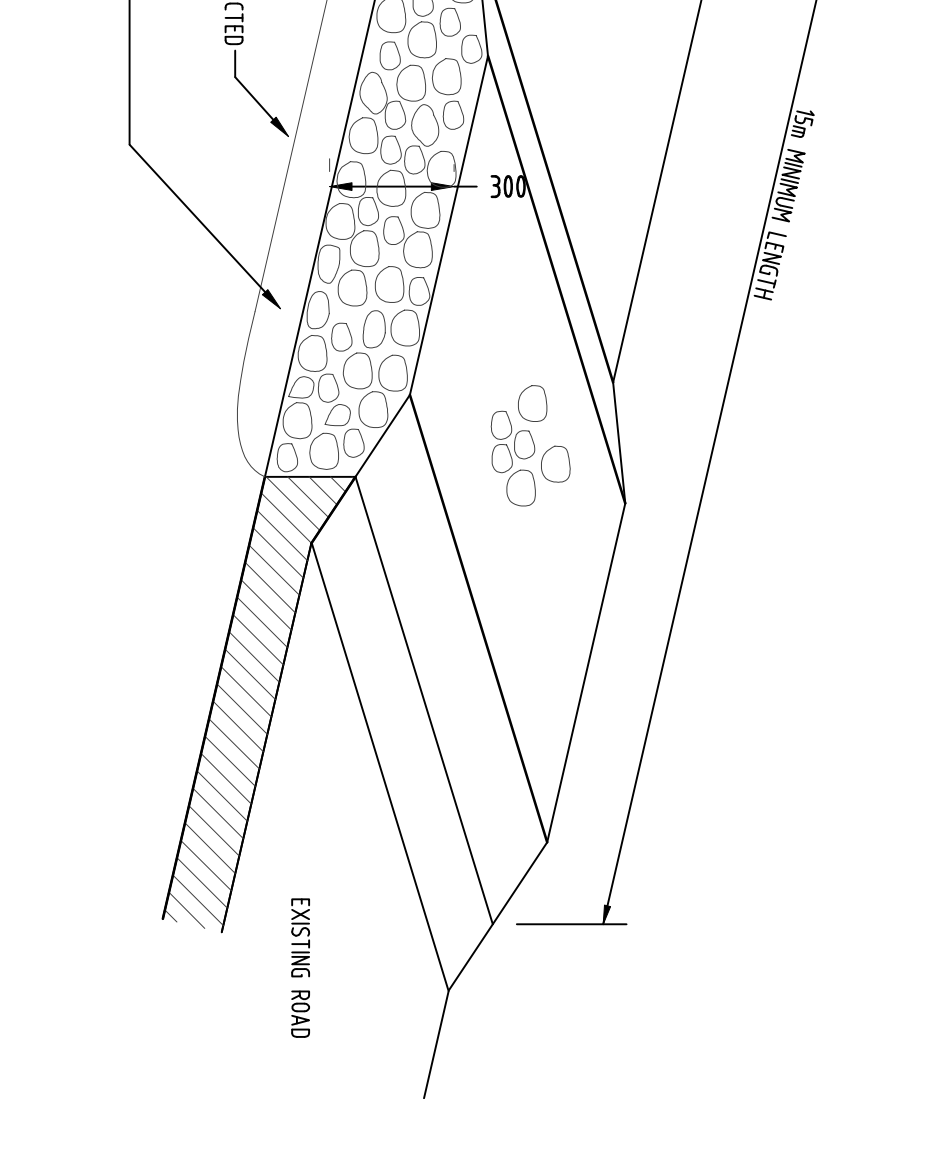
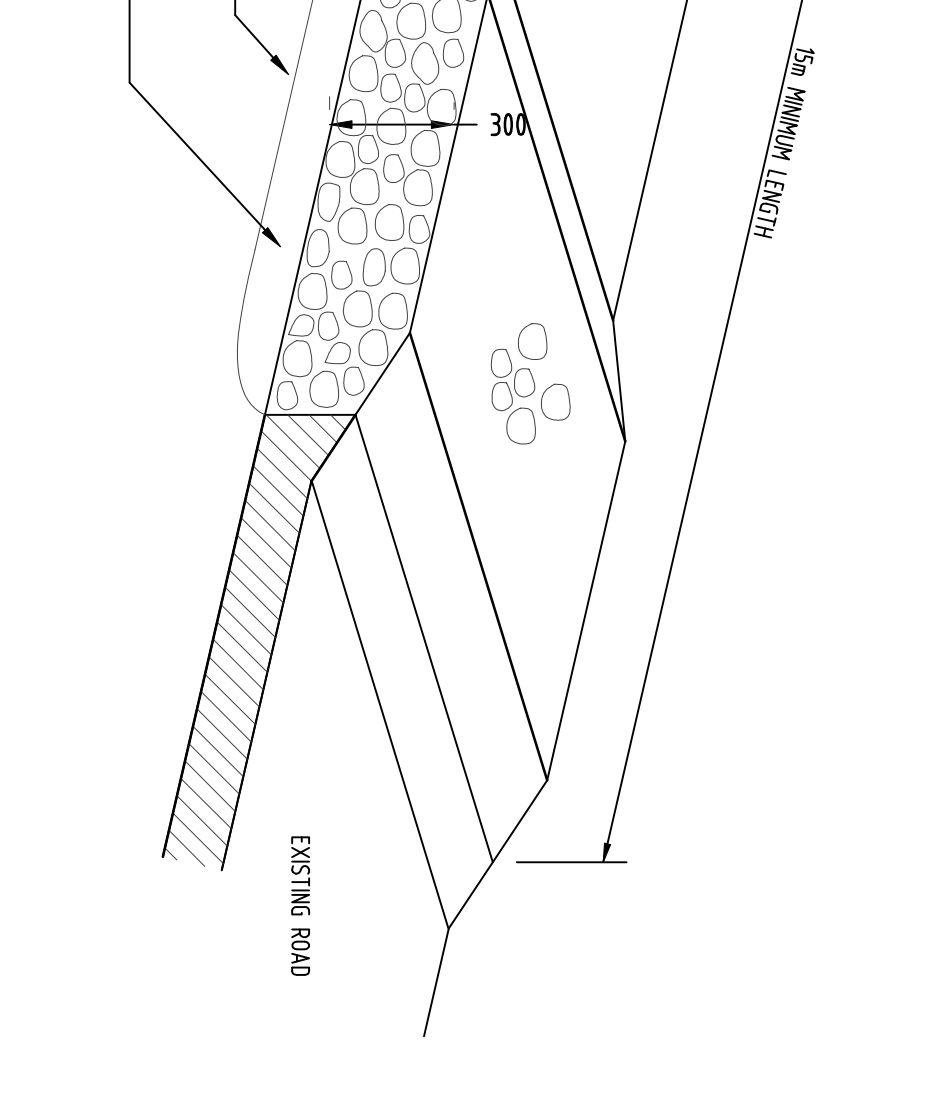
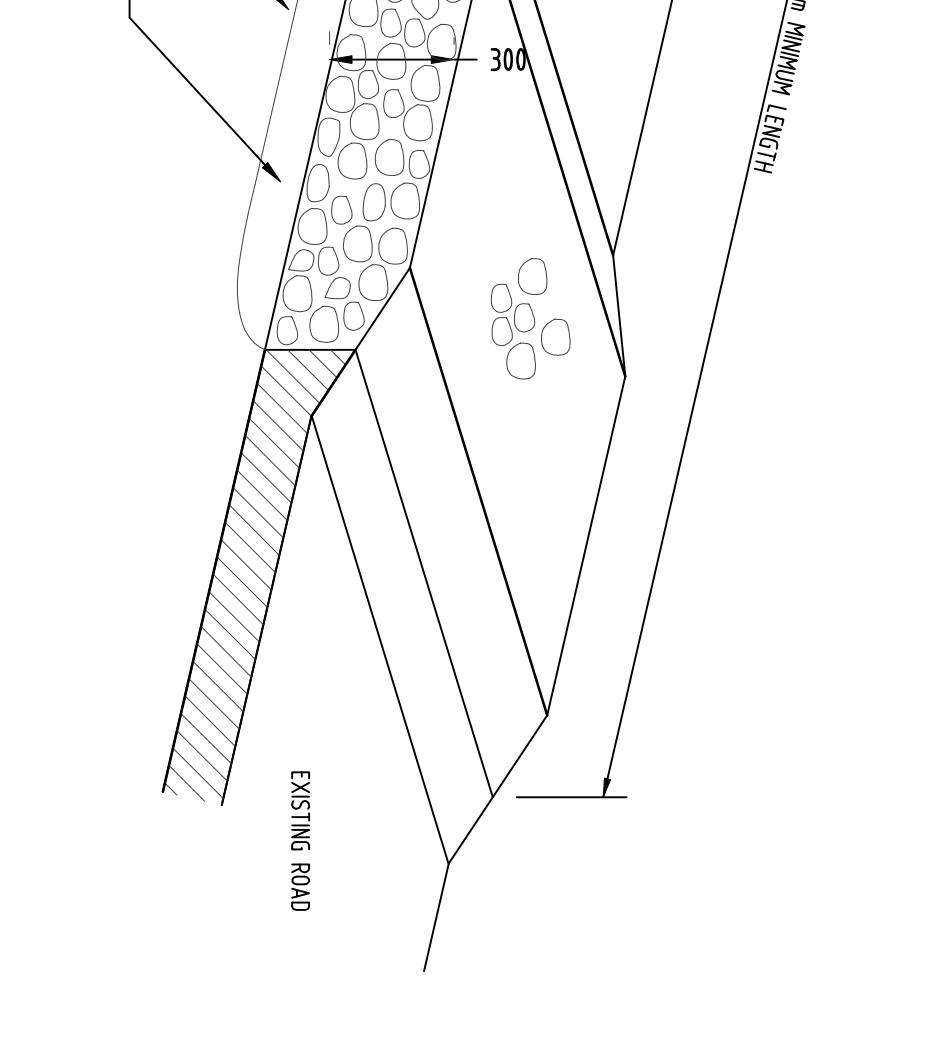
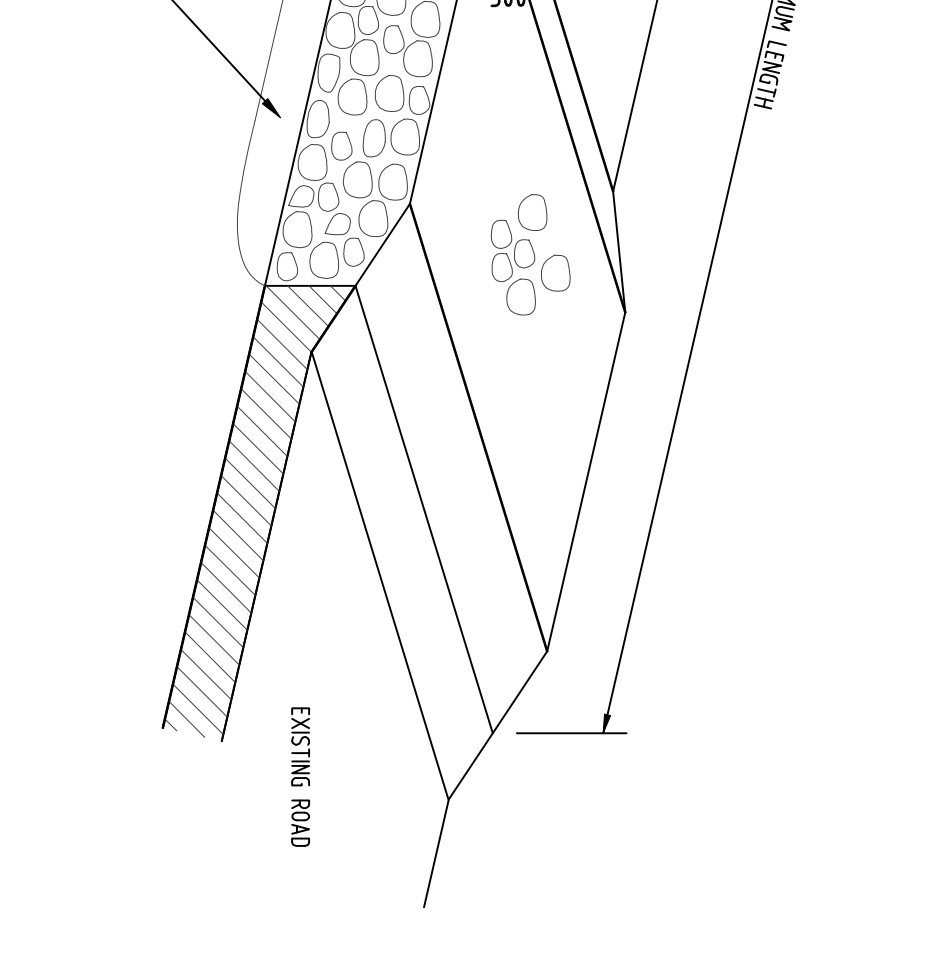
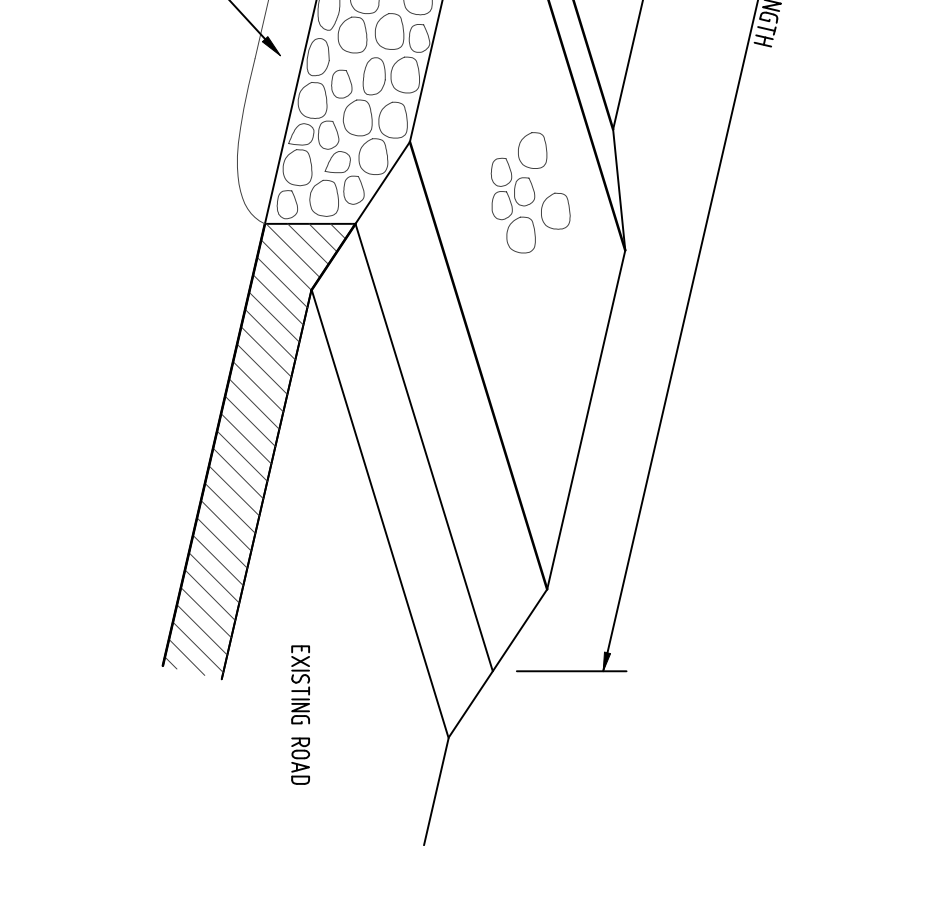
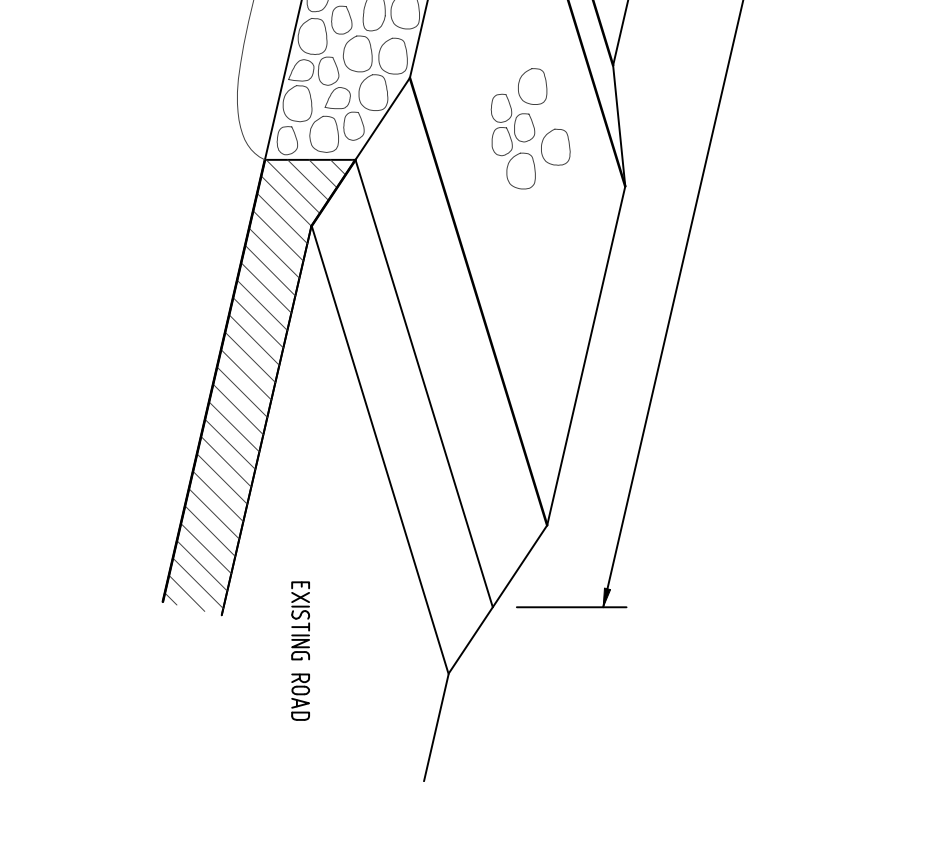
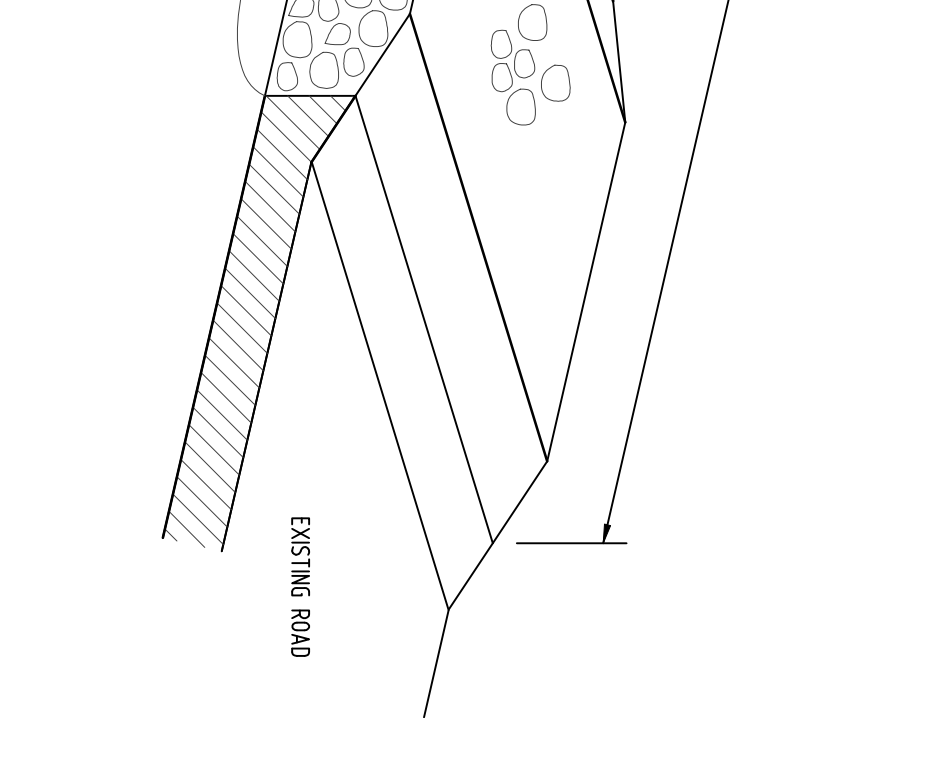
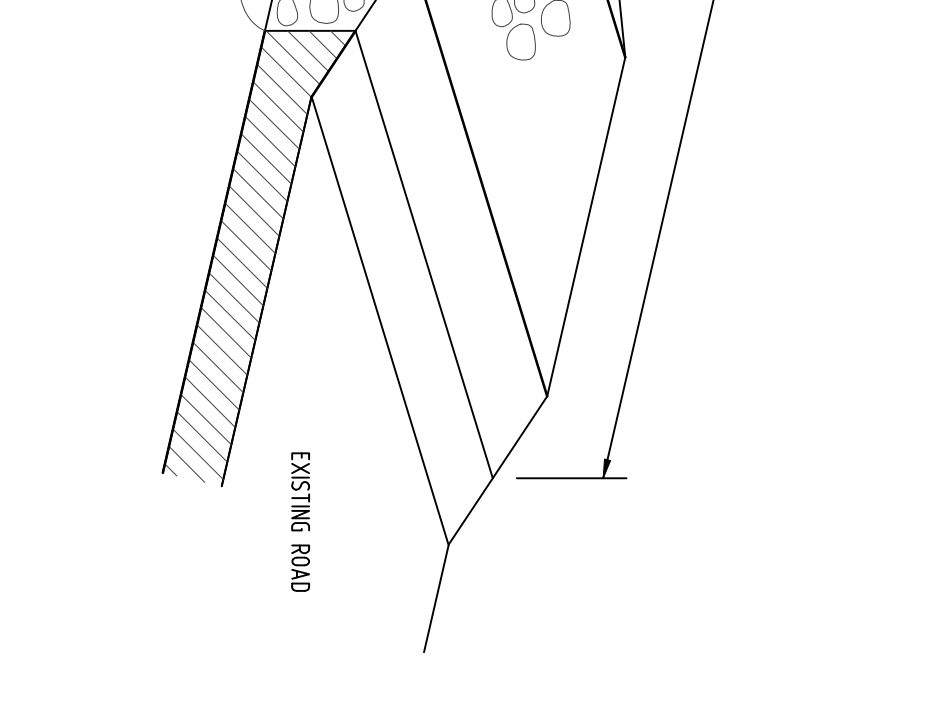
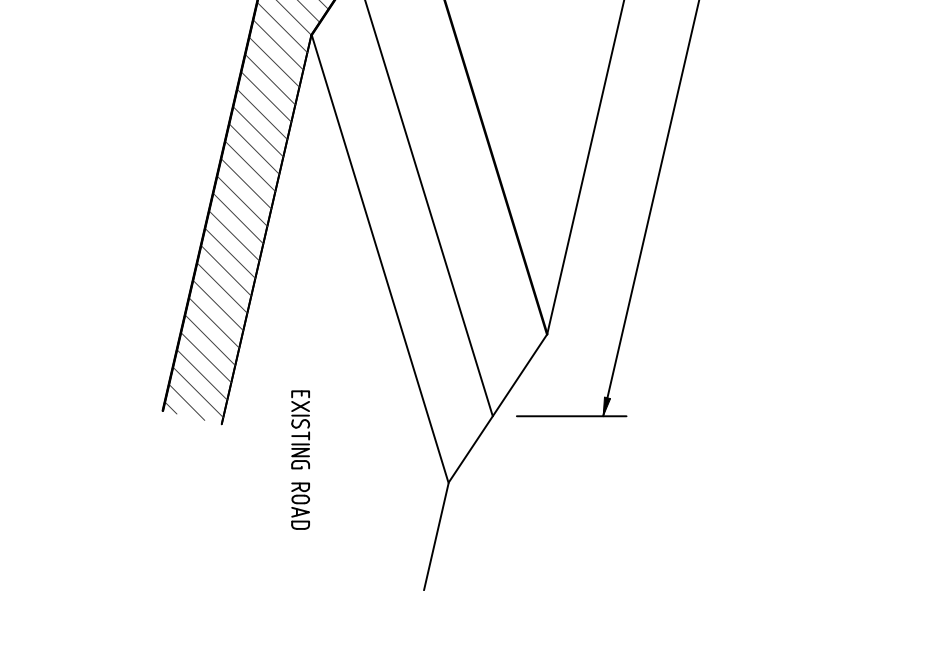
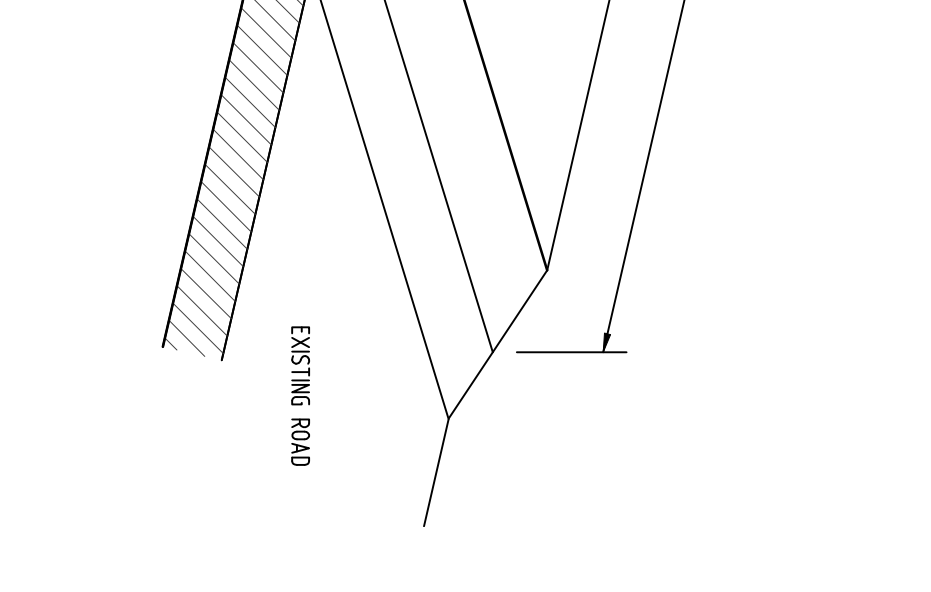
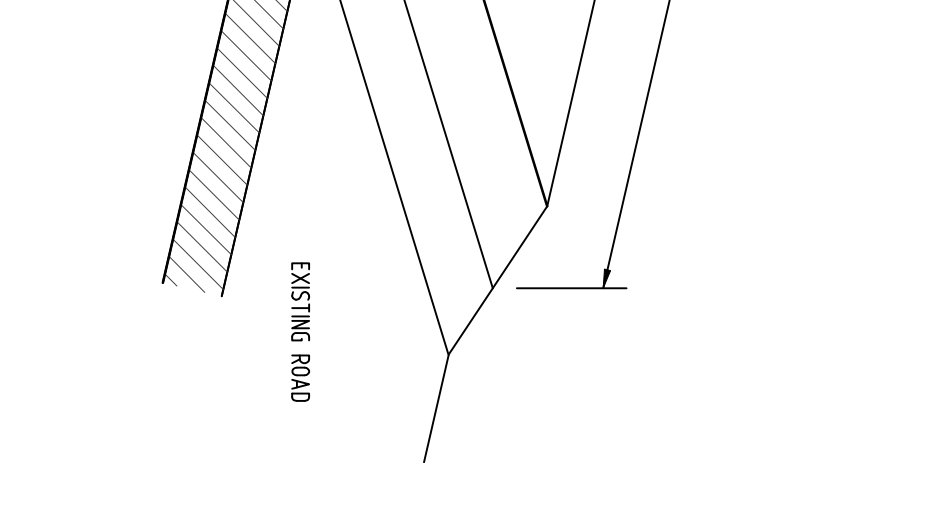
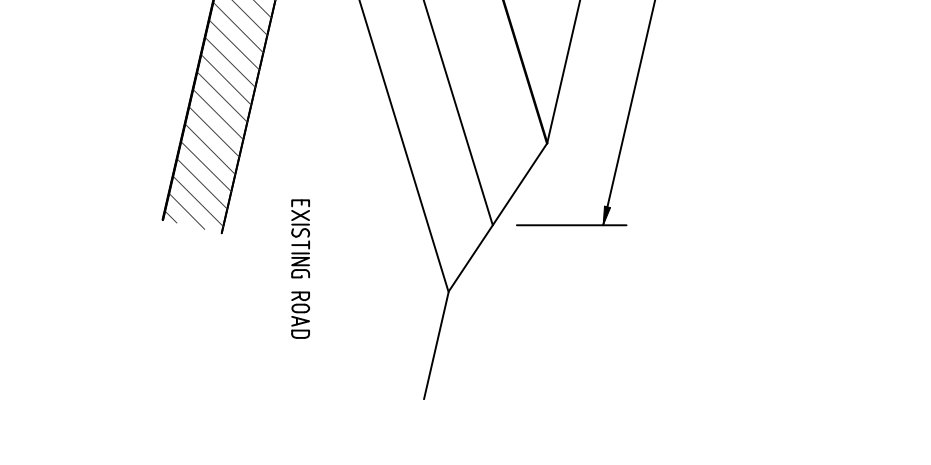
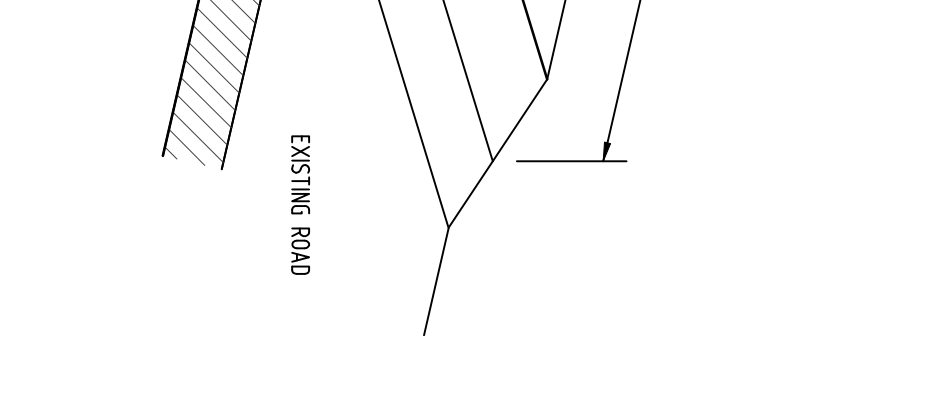
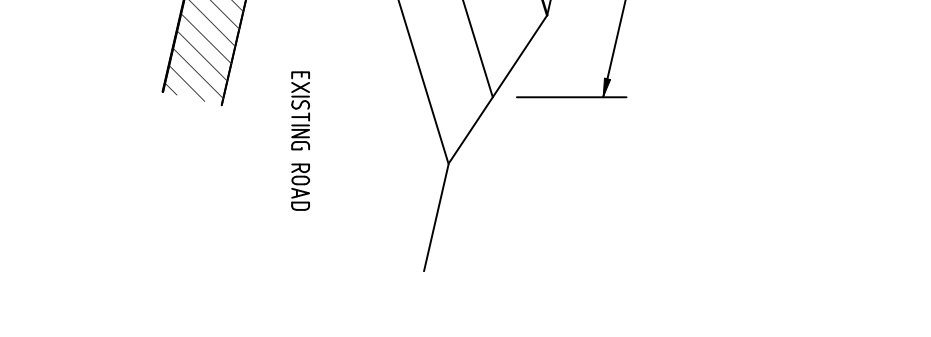
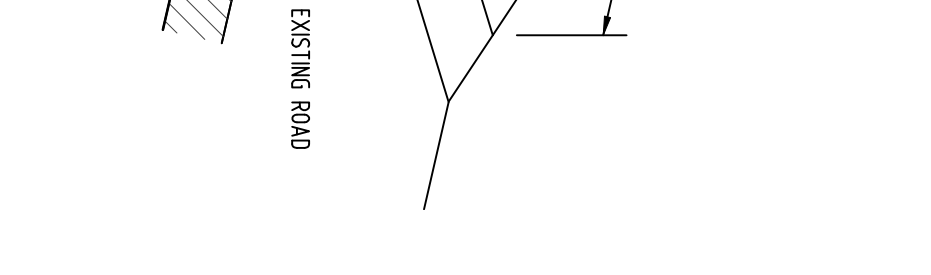
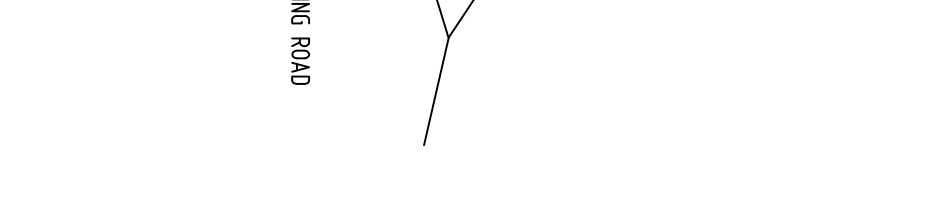
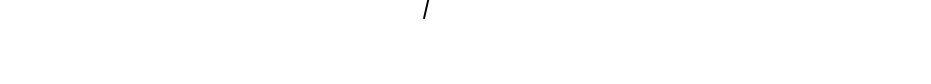
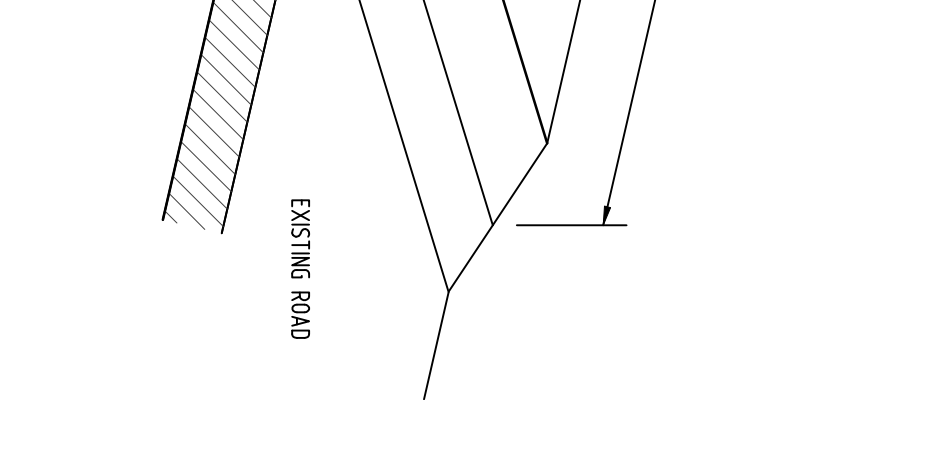
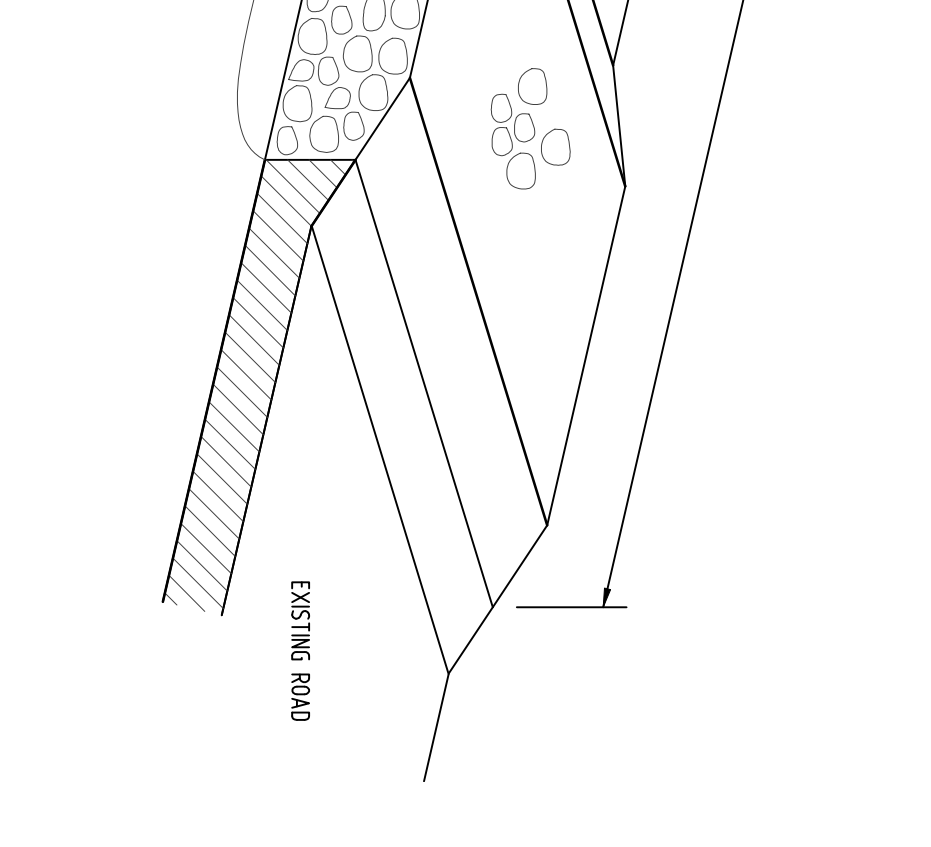
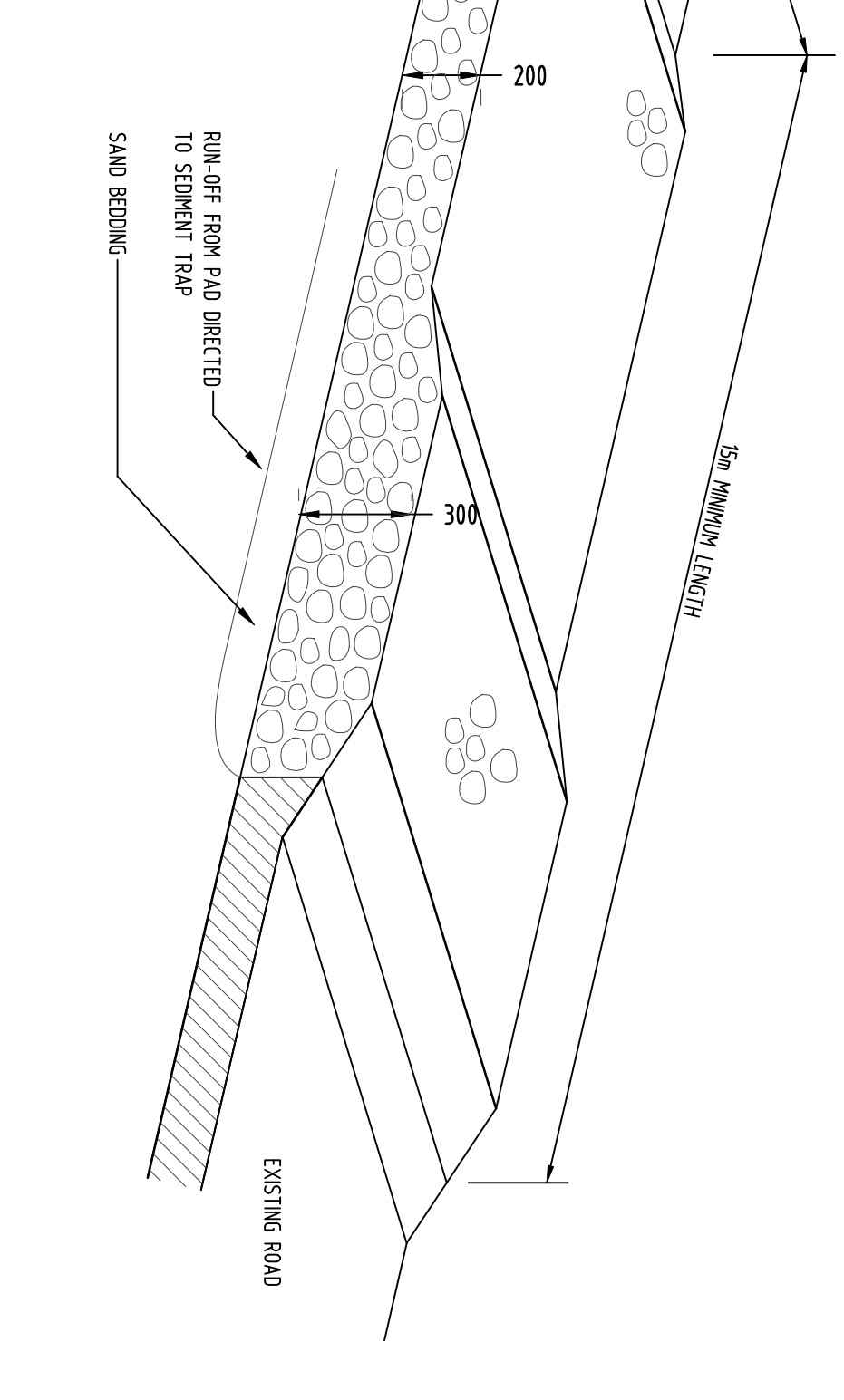
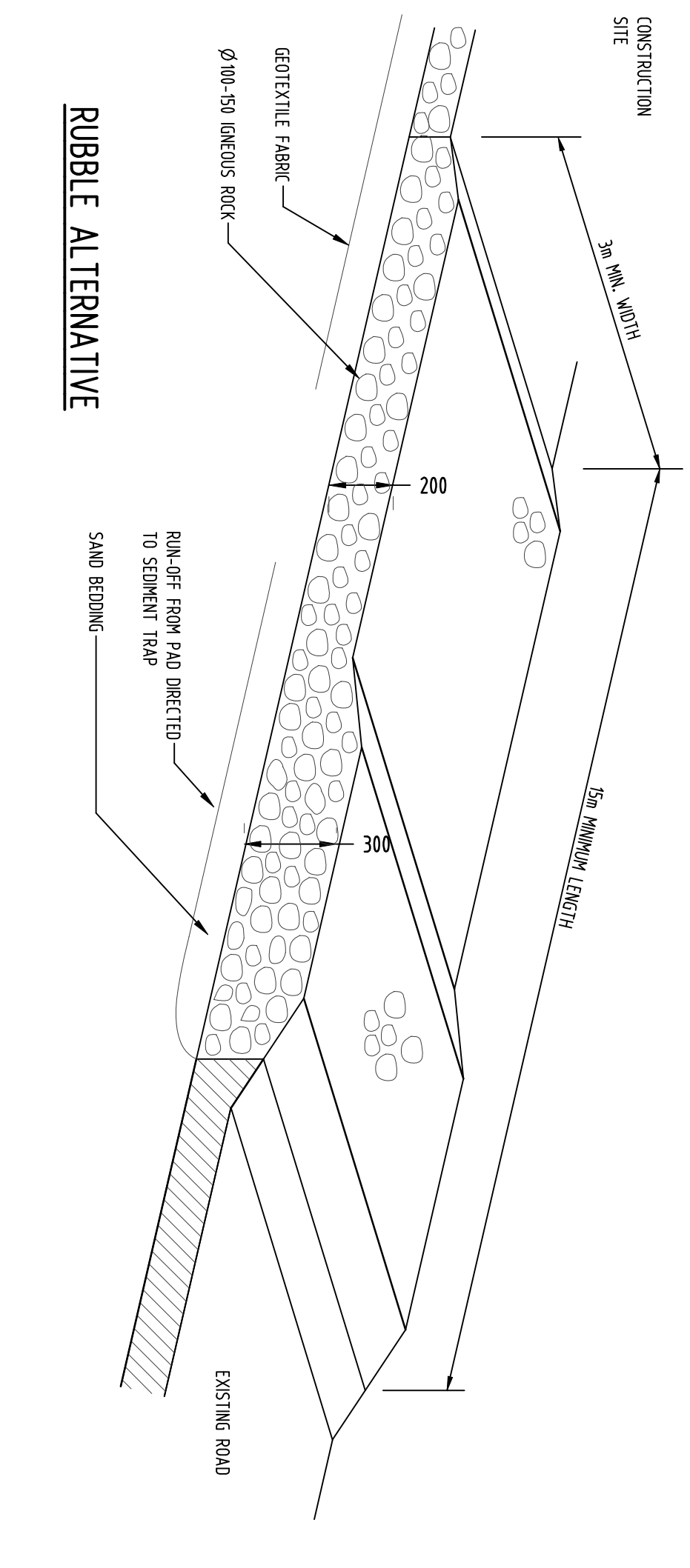
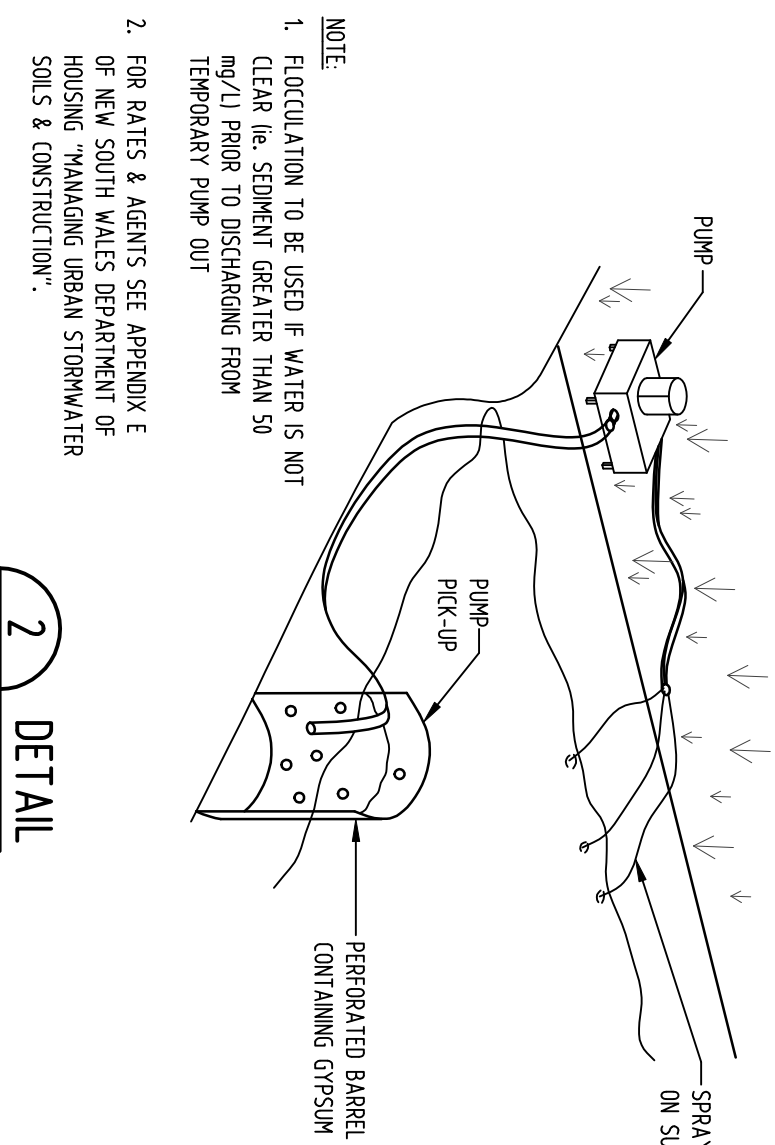
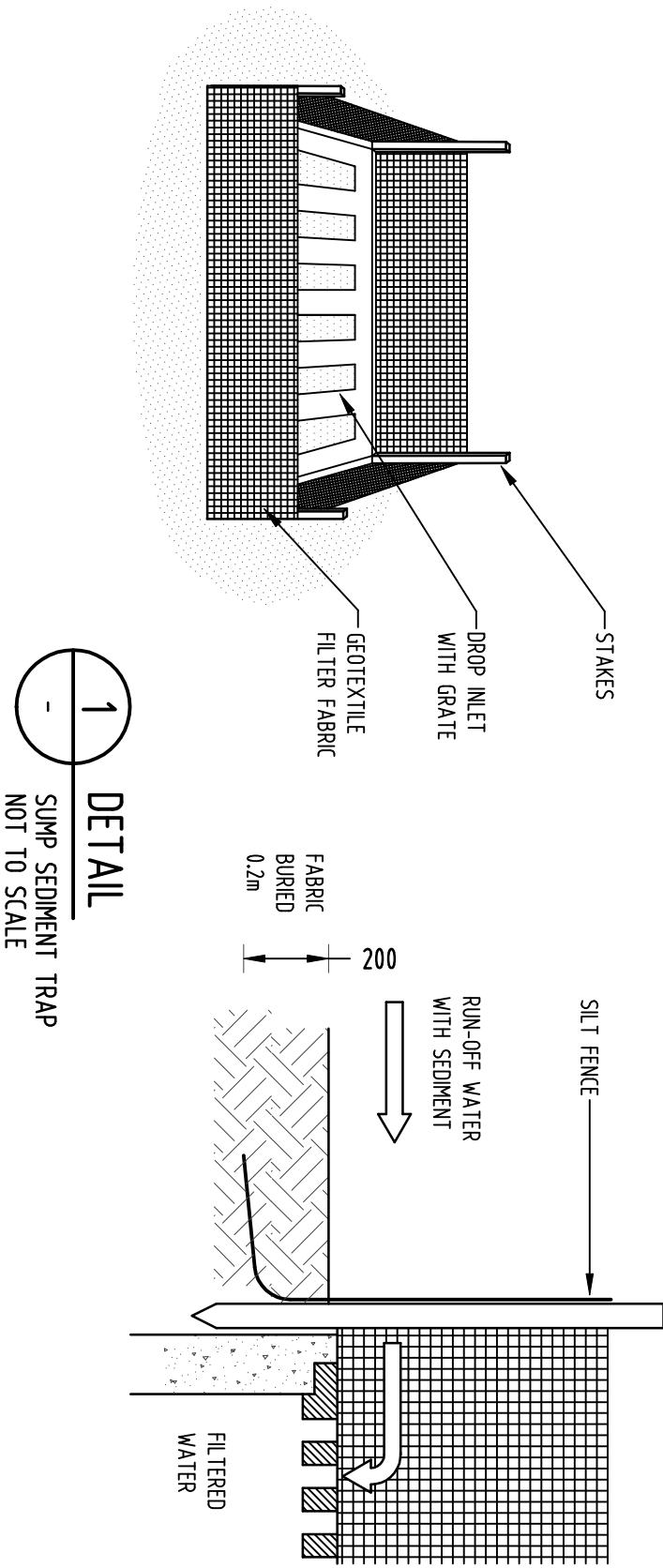
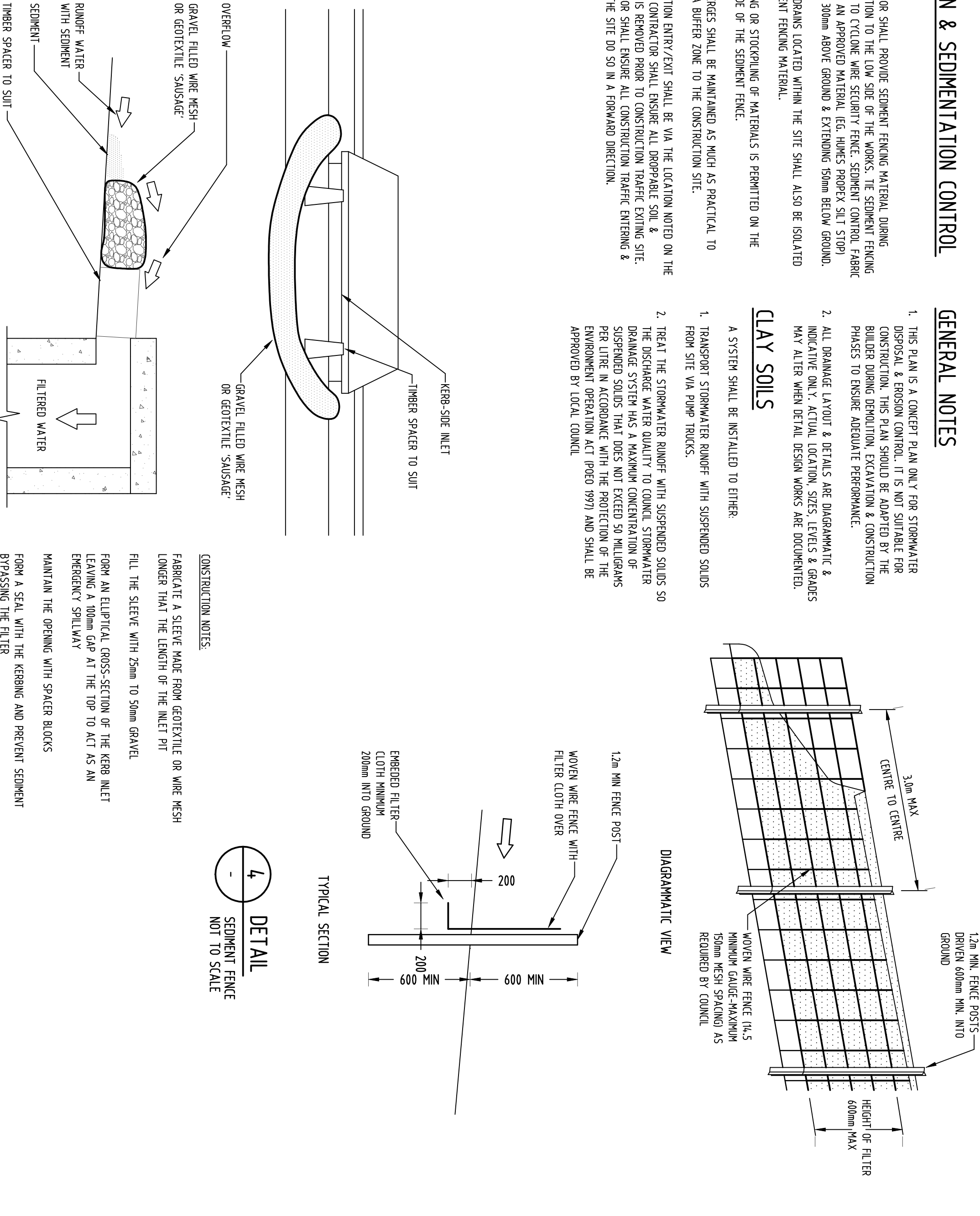
- CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. THE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (E.G. HUNES PROPEC SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
- EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
- NO PARKING OR STORAGING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
- GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL. TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
- CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DISPERSED SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL INSURE ALL CONSTRUCTION TRAFFIC ENTERING & LEAVING THE SITE DO SO IN A FORWARD DIRECTION.

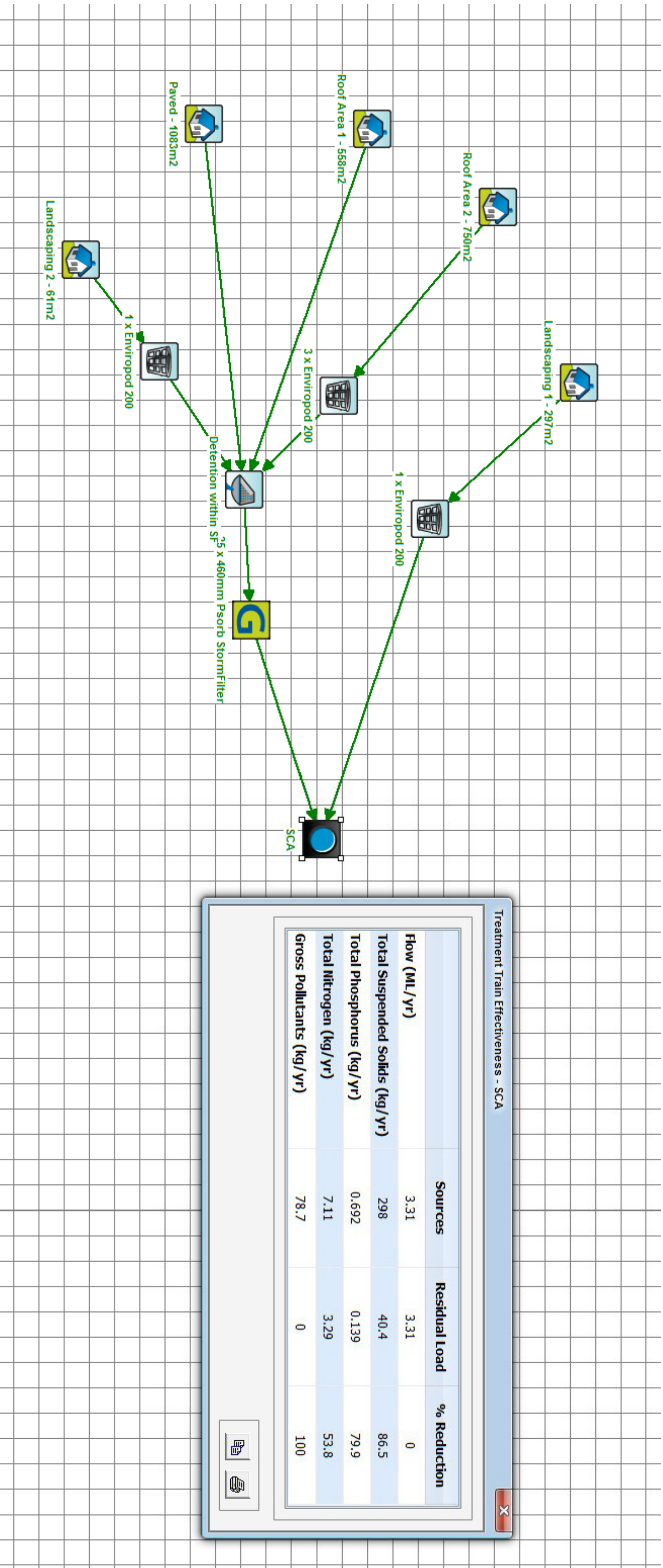
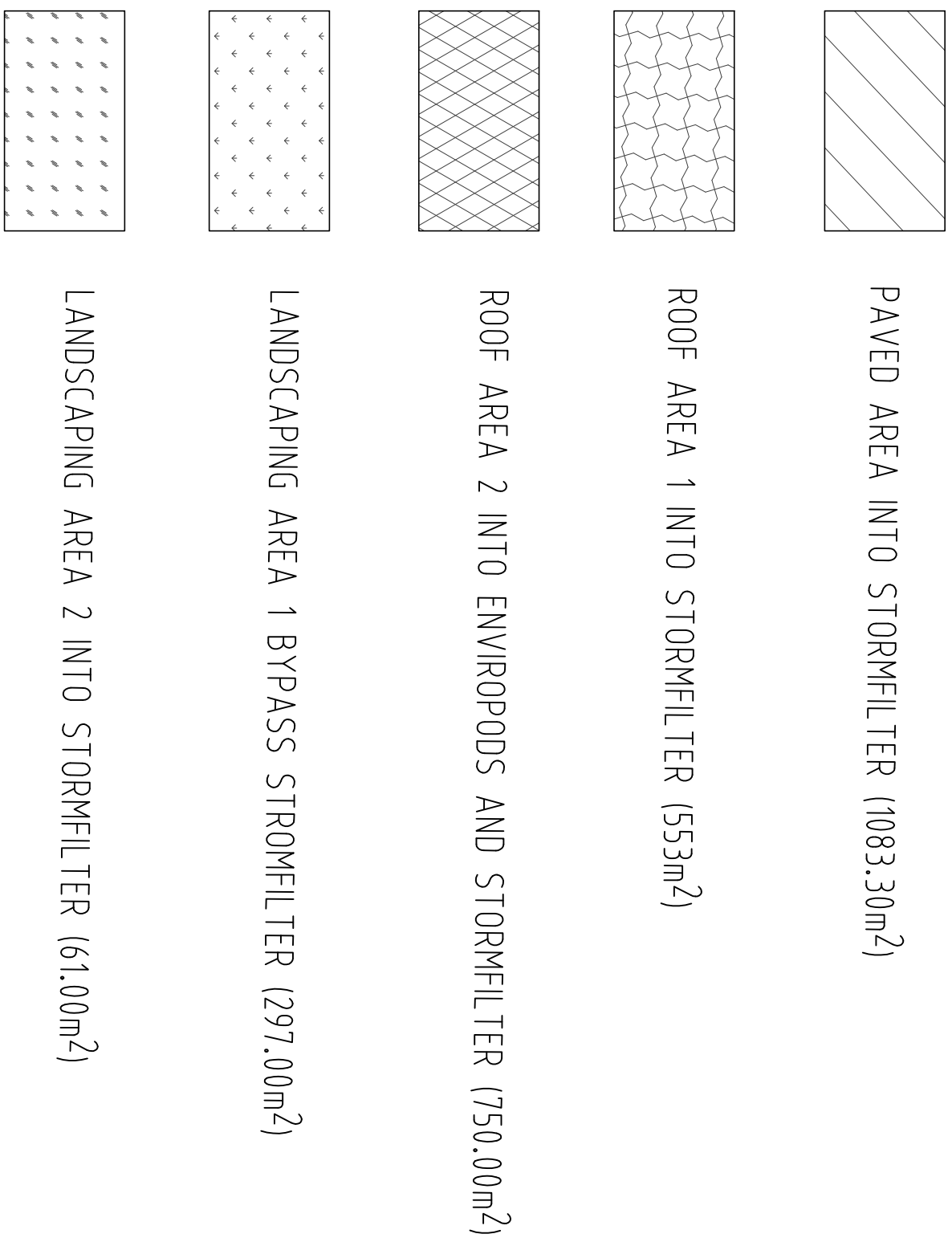
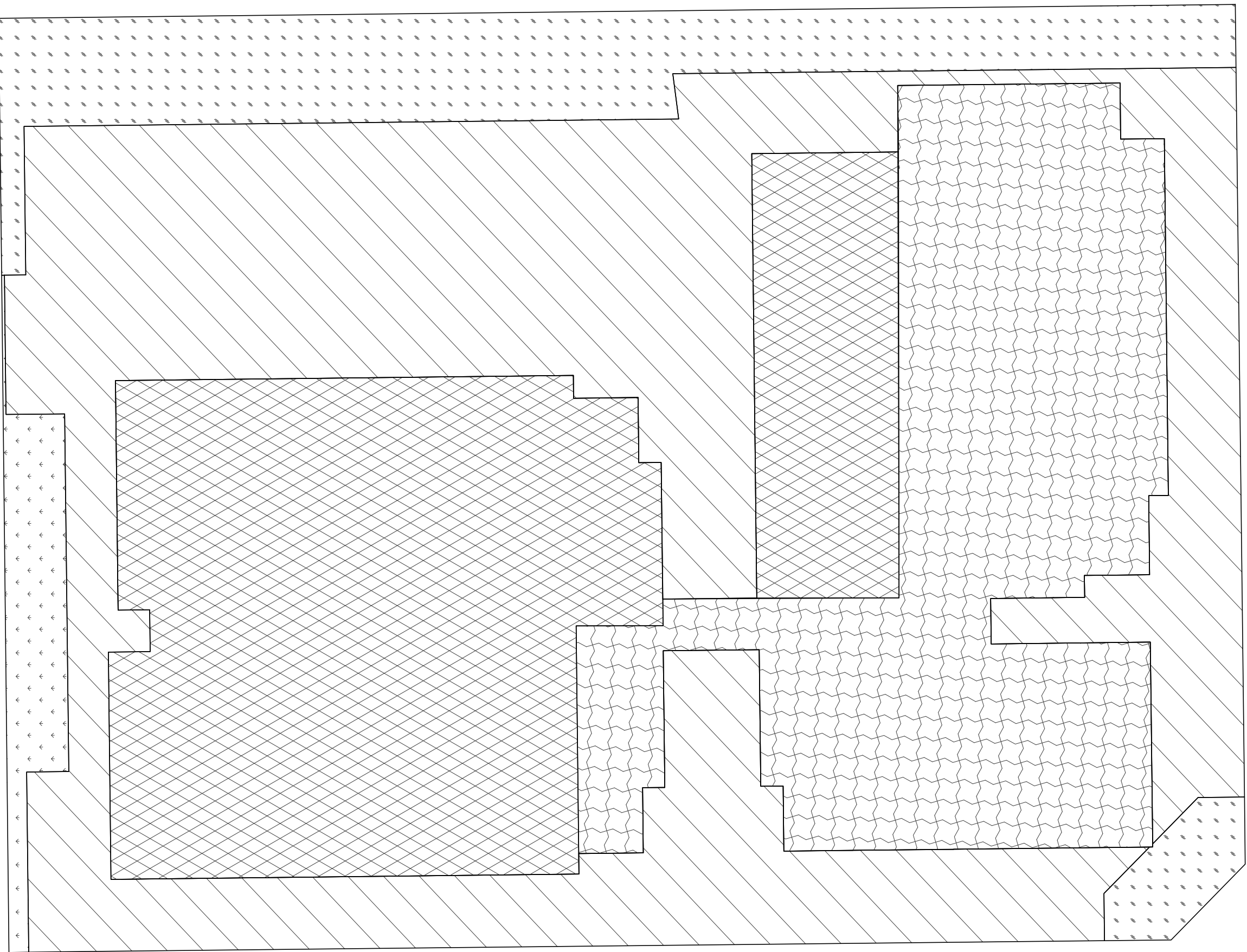
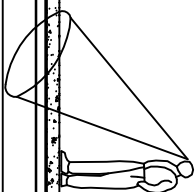
GENERAL NOTES

- THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEPOSITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.
- ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY ALTER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

CLAY SOILS

- A SYSTEM SHALL BE INSTALLED TO EITHER:
- TRANSPORT STORMWATER ROOFTOP WITH SUSPENDED SOLIDS FROM SITE VIA PUMP TRUCKS.
 - TREAT THE STORMWATER ROOFTOP WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER DRAINAGE SYSTEMS DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE WITH THE PROTECTION OF THE ENVIRONMENT OPERATION ACT (PREO 1997) AND SHALL BE APPROVED BY LOCAL COUNCIL.





PROJECT INFORMATION										DRAWING INFORMATION									
1. Project Name					2. Project Address					3. Drawing Title					4. Drawing Number				
5. Client Name					6. Client Address					7. Drawing Date					8. Drawing Scale				
9. Project Description					10. Project Location					11. Drawing Author					12. Drawing Checker				
13. Project Manager					14. Project Engineer					15. Drawing Designer					16. Drawing Approver				
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PROJECT INFORMATION										DRAWING INFORMATION									
1. Project Name					2. Project Address					3. Drawing Title					4. Drawing Number				
5. Client Name					6. Client Address					7. Drawing Date					8. Drawing Scale				
9. Project Description					10. Project Location					11. Drawing Author					12. Drawing Checker				
13. Project Manager					14. Project Engineer					15. Drawing Designer					16. Drawing Approver				
17. Project Status					18. Project Phase					19. Drawing Status					20. Drawing Version				
21. Project Budget					22. Project Timeline					23. Drawing Revision					24. Drawing Comments				
25. Project Contact					26. Project Email					27. Drawing Contact					28. Drawing Email				
29. Project Phone					30. Project Fax					31. Drawing Phone					32. Drawing Fax				
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