



Alterations and Additions

125 Rickard Road

North Narrabeen, Nsw 2101

Paris & Liam Webb

DRAWING LIST	
No.	TITLE
SWDA 1.1	COVER SHEET & DRAWINGS LIST
SWDA 1.2	STORMWATER MANAGEMENT PLAN & GENERAL NOTES
SWDA 1.3	EROSION & SEDIMENT CONTROL PLAN AND DETAILS
SWDA 1.4	EXISTING AND PROPOSED SITE PLAN AND IMPERVIOUS AREAS
SWDA 1.5	STORMWATER DRAINAGE LOWER AND GROUND FLOOR LAYOUTS
SWDA 1.6	STORMWATER DRAINAGE FIRST FLOOR AND ROOF LAYOUTS
SWDA 1.7	DETAILS SHEET

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Project
ALTERATIONS AND ADDITIONS
125 RICKARD ROAD
NORTH NARRABEEN, NSW 2101

Title
COVER SHEET & DRAWING LIST

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	Job No. 2024H0231	Scale at A1 N/A
Start Date NOV 2024	Drawing No. SWDA 1.1	Revision P1

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STORMWATER MANAGEMENT PLAN

PARTRIDGE HYDRAULIC SERVICES WERE ENGAGED TO CARRY OUT A STORMWATER MANAGEMENT PLAN FOR THE PROPOSED SITE 125 RICKARD ROAD, NORTH NARRABEEN. THE BELOW ADDRESSES THE MANAGEMENT OF STORMWATER WITHIN THE PROPOSED SITE BOUNDARIES.

EXISTING SITE DETAILS

THE SUBJECT SITE CURRENTLY CONSISTS OF AN EXISTING SINGLE DWELLING DEVELOPMENT. AS PART OF THE DA APPLICATION. THE OVERALL SITE HAS AN APPROXIMATE AREA OF 556.4m².

THE SITE (LOT 69/DP16212) IS CURRENTLY DEVELOPED WITH A THREE STOREY RESIDENTIAL BUILDING, GARAGE AND ASSOCIATED PAVED FOOTPATHS AND LANDSCAPE AREAS.

THE OVERALL SITE GENERALLY SLOPES TOWARDS THE NORTH EAST AND IS BOUND BY AN ADJACENT PRIVATE PROPERTIES TO THE WEST, EAST AND SOUTH AND RICKARD ROAD TO THE NORTH EAST.

PEDESTRIAN ACCESS TO THE SITE IS CURRENTLY FROM RICKARD ROAD.

PRE-DEVELOPMENT CATCHMENT AREAS:

- IMPERMEABLE AREA: 291.1m²
- PERMEABLE AREA: 265.3m²

PROPOSED NEW DEVELOPMENT

IT IS PROPOSED TO DEMOLISH PART OF THE EXISTING DWELLING AND PROVIDE EXTENSION TO THE REAR AND ADDITION OF AN UPPER FIRST FLOOR, AS WELL AS FOOTPATHS AND LANDSCAPING TO THE PERIMETER OF THE BUILDING. THE ADDITION WORKS IS PRIMARILY CONFINED TO THE EXISTING EXTENT OF IMPERMEABLE AREA.

POST-DEVELOPMENT CATCHMENT AREAS:

- IMPERMEABLE AREA: 290.1m²
- PERMEABLE AREA: 266.3m²

PEDESTRIAN ACCESS TO THE SITE IS TO BE RETAINED FROM RICKARD ROAD. THE VEHICULAR ACCESS TO THE SITE IS TO REMAIN VIA A DRIVEWAY AND CROSSOVER FROM RICKARD ROAD.

EXISTING STORMWATER NETWORK AND DISCHARGE

THE SUBJECT SITE IS CURRENTLY FULLY DEVELOPED WITH AN EXISTING ON-SITE DRAINAGE NETWORK. EAVES GUTTERS COLLECT STORMWATER FROM THE ROOF AND DISCHARGE FROM THE SITE TO THE RICKARD ROAD KERB AND GUTTER SYSTEM BEYOND THE NORTH EAST SITE BOUNDARY. HARDSTAND AREAS DRAIN VIA THE EXISTING DRAINAGE SYSTEM AND SURFACE OVERFLOWS TO RICKARD ROAD. THERE IS AN EXISTING OSD TANK LOCATED BENEATH THE NORTHERN CORNER OF THE SITE, BUT THERE ARE NO FURTHER DETAILS OF THIS.

FLOODING

THERE ARE NO AVAILABLE HISTORICAL DOCUMENTS OR RECORDS OF FLOODING WITHIN THE PROPOSED SITE.

PROPOSED STORMWATER NETWORK AND DISCHARGE

IT IS PROPOSED TO CONSTRUCT A NEW STORMWATER NETWORK ON THE FOLLOWING PRINCIPLES:

- A NEW NETWORK OF PIPES AND PITS IS PROPOSED TO CONVEY THE RUNOFF FROM THE SITE PRIOR TO DISCHARGING INTO COUNCIL'S EXISTING DRAINAGE SYSTEM.
- GIVEN THAT THE CHANGE IN IMPERMEABLE AREA IS LESS THAN 50m², NO ADDITIONAL OSD IS PROPOSED FOR THE SITE, WITH THE NEW DRAINAGE SYSTEM MAKING USE OF THE EXISTING OSD AS PER EXISTING CONDITIONS.
- IT IS PROPOSED TO DISCHARGE TO RICKARD ROAD DRAINAGE SYSTEM VIA THE EXISTING OUTLET, SUBJECT TO CONDITIONS ASSESSMENT AND ANY NECESSARY IMPROVEMENT WORKS.

STORMWATER QUANTITY MANAGEMENT

SITE AREA: 556.4m²

PRE-DEVELOPMENT DISCHARGE VOLUME (FOR 20-YEAR, 5 MIN STORM DURATION MIN):

- IMPERMEABLE AREA: 291.1m² x 147mm/h x 1.0 / 3600 = 11.9 L/s
- PERMEABLE AREA: 265.3m² x 147mm/h x 0.6 / 3600 = 6.5 L/s
- TOTAL Q = 18.4 L/s

POST-DEVELOPMENT DISCHARGE VOLUME (FOR 20-YEAR, 5 MIN STORM DURATION):

- IMPERMEABLE AREA: 290.1m² x 147mm/h x 1.0 / 3600 = 11.8 L/s
- PERMEABLE AREA: 266.3m² x 147mm/h x 0.6 / 3600 = 6.5 L/s
- TOTAL Q = 18.3 L/s

STORMWATER QUALITY MANAGEMENT

IN ORDER TO PREVENT THE LOSS OF ORGANIC MATTER AND COARSE SEDIMENT FROM THE SITE POST-CONSTRUCTION, IT IS PROPOSED TO INSTALLED A SILT ARRESTOR PIT AT THE END OF THE DRAINAGE SYSTEM, PRIOR TO THE STORMWATER LEAVING THE SITE.

OVERLAND FLOW PATHS

IF STORMS HIGHER THAN THE DESIGN STORM OCCUR, THE SITE IS TO BE GRADED TO ALLOW AN OVERLAND FLOW PATH TO PROTECT THE BUILDINGS. OVERLAND FLOWS WILL EXIT THE SITE VIA THE LOW POINT ALONG THE KERB LINE ADJACENT TO RICKARD ROAD. NO DAMAGE TO THE NEIGHBOURING PROPERTIES WILL OCCUR.

COUNCIL DOCUMENTS REFERENCE

THE ABOVE ASSESSMENT HAS BEEN PREPARED AND BASED ON PUBLISHED TOPOGRAPHIC MAPS, PHYSICAL LAND SURVEY, HYDRAULIC AND HYDROLOGICAL CALCULATIONS, AVAILABLE AERIAL PHOTOGRAPHY OF THE SITE AND IN ACCORDANCE WITH RELEVANT AUSTRALIA STANDARDS AND MOSMAN DEVELOPMENT CONTROL PLANS BELOW:

- AS 3500 - PLUMBING AND DRAINAGE
- NORTHERN BEACHES - WATER MANAGEMENT FOR DEVELOPMENT POLICY

GENERAL NOTES

1. THIS IS A STORMWATER DRAINAGE PLAN ONLY, REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT INFORMATION.
2. ALL STORMWATER RUNOFF FROM SURFACE, PITS, SUMPS AND UNDERGROUND PIPE NETWORK TO BE COLLECTED VIA ON-SITE DRAINAGE SYSTEM PRIOR TO DISCHARGE FROM THE SITE.
3. ALL PIPES ARE TO BE 100DIA UPVC LAID AT 1.0% MIN GRADE. UPVC PIPES TO BE SOLVENT WELDED JOINTS U.N.O
4. ALL PIPES ARE TO BE PROPRIETARY PRE-CAST ITEMS, COVER LEVELS TO MATCH U.N.O
5. ALL GRATED DRAINS TO HAVE BASE GRADED 1.0% MIN WITH HEAVY DUTY GRATES.
6. IT IS THE BUILDER'S RESPONSIBILITY TO LAY ALL PIPES IN ACCORDANCE WITH ALL RELEVANT AUTHORITY REQUIREMENTS (EG. COUNCIL, EPA, SYDNEY WATER).
7. THE CONTRACTOR SHALL LOCATE EXISTING SERVICES ON SITE PRIOR TO CONSTRUCTION AND SHALL TAKE EXTREME CAUTION DURING CONSTRUCTION.
8. ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH THE LOCAL AUTHORITY'S CIVIL SPECIFICATION AND STANDARDS TO THE SATISFACTION OF THE LOCAL AUTHORITY OR PRIVATE CERTIFYING AUTHORITY'S REPRESENTATIVE. ANY DISCREPANCY, VARIATION OR ADDITIONAL WORKS SHALL BE APPROVED BY THE BUILDER'S REPRESENTATIVE BEFORE COMMENCEMENT OF WORKS.
9. THE LOCAL AUTHORITY OR PRIVATE CERTIFYING AUTHORITY'S INSPECTION OF WORKS SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE INSPECTOR'S INSPECTION SCHEDULE REQUIREMENTS AND ENSURE THAT EACH IDENTIFIED STAGE OF WORKS IN ACCORDINGLY INSPECTED.
10. THESE DRAWINGS ARE DIAGRAMMATIC REPRESENTATION OF WORKS TO BE CARRIED OUT ONLY AND ARE NOT TO BE SCALED OFF.
11. ALL LEVELS SHALL BE OBTAINED FROM ESTABLISHED BENCH MARKS ONLY. DATUM USED ON THESE DRAWINGS IN AUSTRALIA HEIGHT DATUM (AHD) UNLESS NOTED OTHERWISE.
12. UTILITY INFORMATION SHOWN ON THE PLANS IS NOT INTENDED TO DEPICT MORE THAN THE PRESENCE OF ANY SERVICES. ACTUAL LOCATIONS SHOULD BE VERIFIED BY HAND EXCAVATION PRIOR TO CONSTRUCTION.
13. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PROVIDED WHERE SHOWN ON THE DRAWINGS, IN ACCORDANCE WITH THE SPECIFICATION AND THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (IF APPLICABLE).

LEGEND

PIPEWORK		MISCELLANEOUS	
	RAINWATER DRAINAGE		SERVICE / SERVICE NUMBER
	RAINWATER CHARGED		PIPE SIZE
	STORMWATER DRAINAGE		FOR CONTINUATION
	STORMWATER RISING MAIN		REFER DRG No
	SUBSOIL DRAINAGE		FOR SECTION VIEW
	BARRIER FENCE		REFER TO DRAWING
	EXISTING PIPE	AHD	AUSTRALIAN HEIGHT DATUM
	EXISTING PIPE MADE REDUNDANT	AP	ACCESS PANEL
	SEDIMENT FENCE LINE	BG	BOX GUTTER
	PROPERTY BOUNDARY	DP	DOWNPIPE
	SWALE	e	EXISTING
	DROPPER	FFL	FINISHED FLOOR LEVEL
	RISER	GIP	GRATED INLET PIT
	TURBIDITY BARRIER	HED	HIGH EARLY DISCHARGE
	PIPE REDUCER	HFB	HIGH FLOW BYPASS
	DIRECTION OF FALL OR FLOW	HL	HIGH LEVEL IN CEILING
	DOWN PIPE	HP	HIGH POINT
	ROOF DOWN PIPE	IL	INVERT LEVEL
	PLANTER BOX OUTLET	INT	INTERNAL
	RAIN WATER OUTLET / BALCONY OUTLET	KIP	KERB INLET PIT
	STORMWATER PIT (GRATE)	O/F	OVERFLOW
	STORMWATER PIT (RWO IN BASE)	OSD	ON SITE DETENTION
	SEALED PIT COVER	RHS	RECTANGULAR HOLLOW SECTION
	GULLY PIT	RL	RELATIVE LEVEL
	REFLUX VALVE	RWH	RAINWATER HEAD
	PIPE CONNECTION POINT	RWT	RAINWATER TANK
	PUMP	SRL	SLAB RELATIVE LEVEL
	OVERLAND FLOW PATH	SRZ	STRUCTURAL ROOT ZONE
	CLEAR OUT	TBA	TO BE ADVISED
	TUNDISH	TKL	TOP KERB LEVEL
	TRENCH GRATE	TRZ	TREE ROOT ZONE
	DOWNPIPE SPREADER	TWL	TOP WATER LEVEL
		UNO	UNLESS NOTED OTHERWISE

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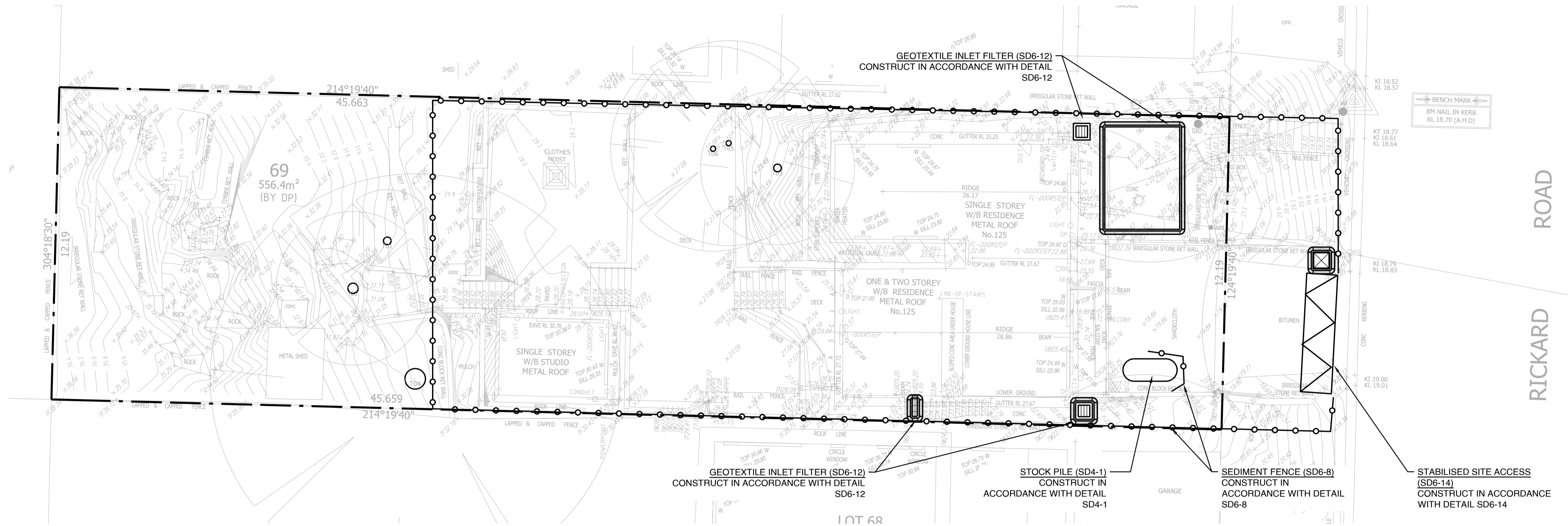
Project
ALTERATIONS AND ADDITIONS
125 RICKARD ROAD
NORTH NARRABEEN, NSW 2101

Title
STORMWATER MANAGEMENT PLAN & GENERAL NOTES

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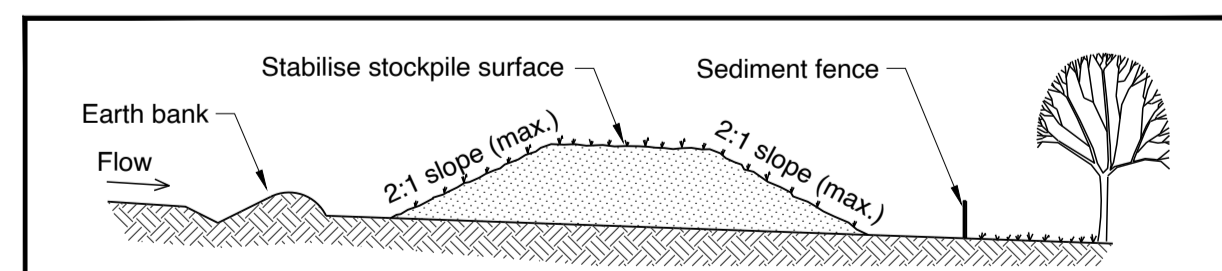
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EROSION AND SEDIMENT CONTROL PLAN

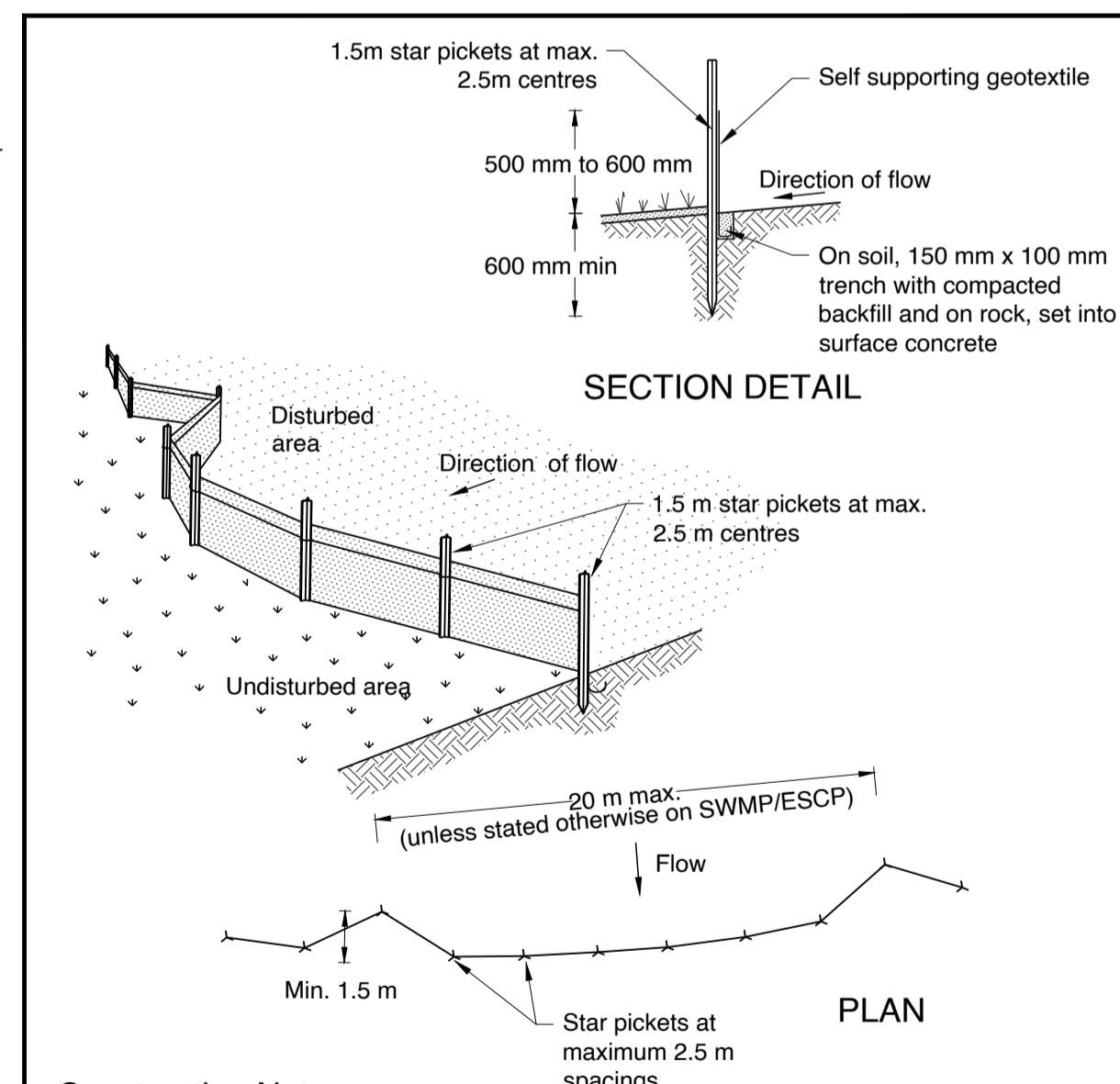
- MEASURES PROVIDED WILL BE TO THE SATISFACTION OF THE PRINCIPAL'S REPRESENTATIVE IN ACCORDANCE WITH THE LOCAL AND STATUTORY REQUIREMENTS UNLESS NOTED OTHERWISE. ALL WORKS SHALL BE ERECTED AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE 'BLUE BOOK' MANAGING URBAN STORMWATER (MUS); SOILS AND CONSTRUCTION, LANDCOM (VOL. 1) AND DECCW (VOL. 2) AND COUNCIL'S DEVELOPMENT CONTROL PLAN (DCP).
- ALL EXCAVATION WORKS ARE TO BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, IF AVAILABLE, AND THE STRUCTURAL ENGINEER'S DRAWINGS.
- INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION WORKS.
- MESH AND GRAVEL INLET FILTERS (SD 6-12) TO BE INSTALLED UPSTREAM OF PROPOSED STORMWATER PITS AS WELL AS EXISTING STORMWATER PITS DOWNSTREAM OF DISTURBED AREAS.
- TOP SOIL WILL BE STRIPPED AND STOCKPILED (SD 4-1) FOR LATER USE IN LANDSCAPING.
- ALL STOCKPILES TO BE CLEAR FROM DRAINS, GUTTERS AND FOOTPATHS.
- TOP SOIL WILL BE RE SPREAD AND ALL DISTURBED AREAS WILL BE REHABILITATED WITHIN 20 WORKING DAYS OF THE COMPLETION OF WORKS.
- ALL SEDIMENT TO BE STORED AND COLLECTED BY A LIQUID WASTE COMPANY FOR DISPOSAL AT A LICENSED TREATMENT FACILITY.
- ROADS AND FOOTWAYS TO BE SWEEPED AT THE END OF THE DAY.
- ALL EROSION AND SEDIMENT CONTROLS WILL BE CHECKED AT LEAST WEEKLY AND AFTER RAINFALL EVENTS TO MAKE SURE THEY ARE MAINTAINED TO A FULLY FUNCTIONAL CONDITION.



Construction Notes

- Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
- Construct on the contour as low, flat, elongated mounds.
- Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
- Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
- Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

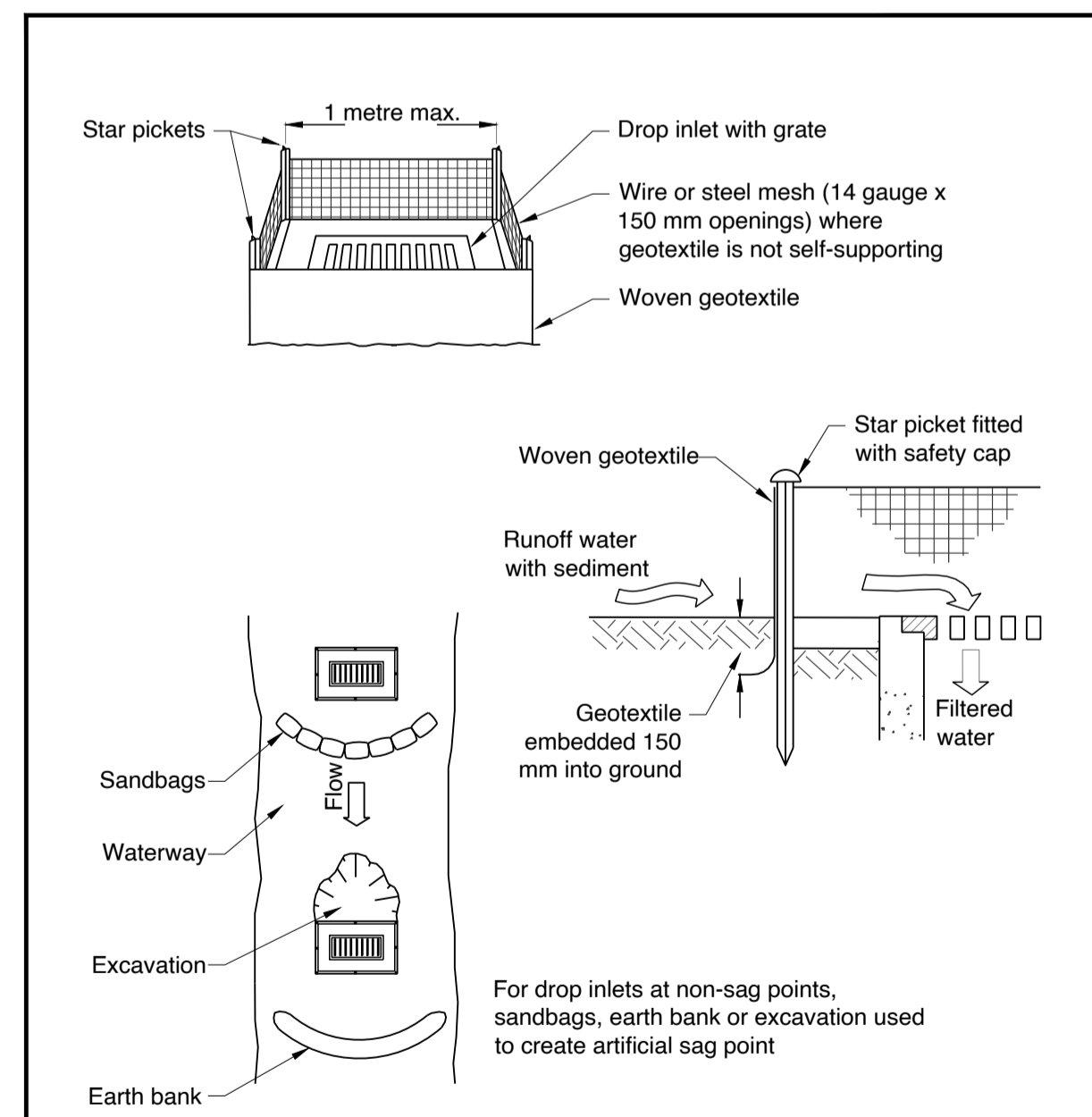
STOCKPILES SD 4-1



Construction Notes

- Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
- Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
- Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
- Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
- Join sections of fabric at a support post with a 150-mm overlap.
- Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

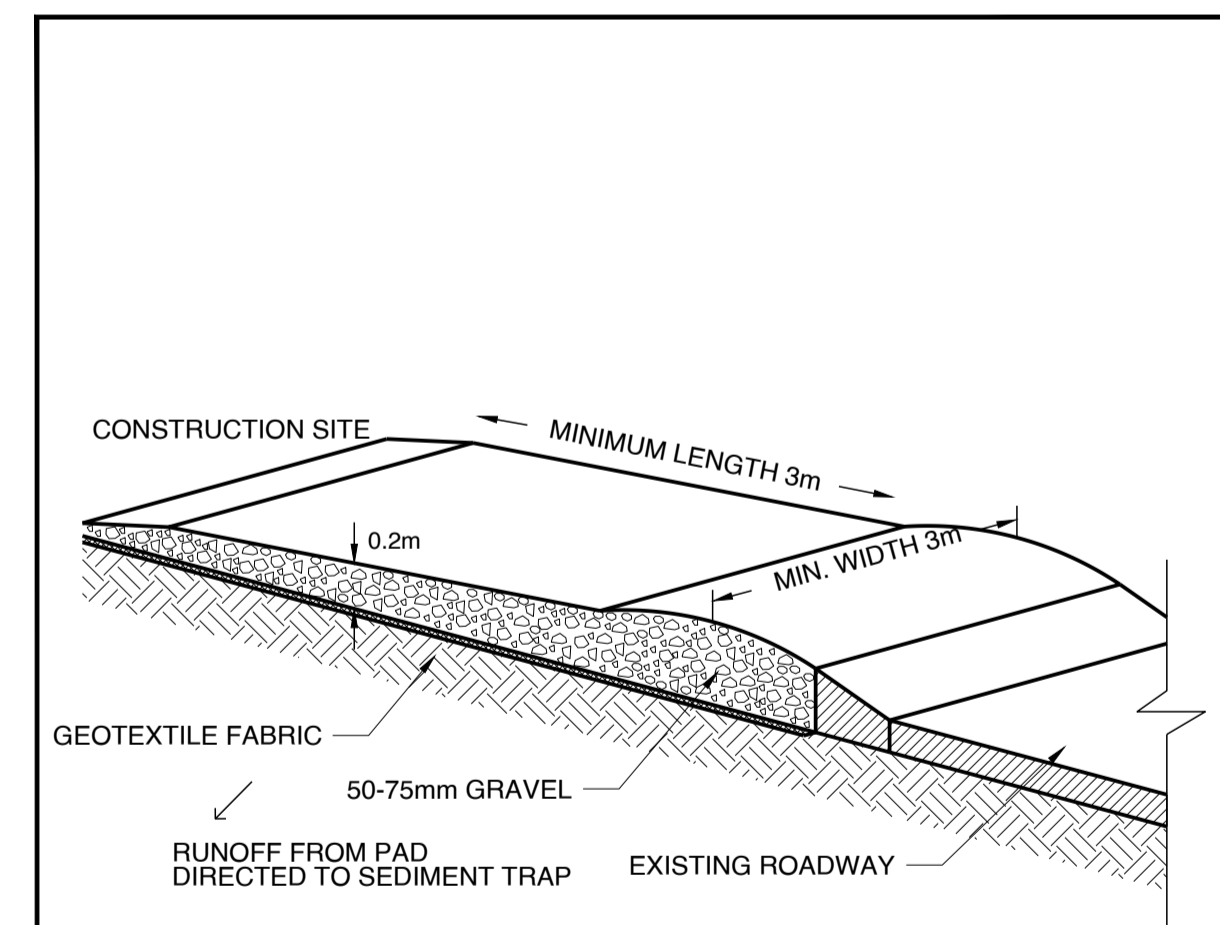
SEDIMENT FENCE SD 6-8



Construction Notes

- Fabricate a sediment barrier made from geotextile or straw bales.
- Follow Standard Drawing 6-7 and Standard Drawing 6-8 for installation procedures for the straw bales or geofabric. Reduce the picket spacing to 1 metre centres.
- In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
- Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

GEOTEXTILE INLET FILTER SD 6-12



Construction Notes

- Strip the topsoil, level the site and compact the subgrade.
- Cover the area with needle-punched geotextile.
- Construct a 200 mm thick pad over the geotextile using road base or 30 mm aggregate.
- Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
- Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence.

STABILISED SITE ACCESS SD 6-14

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125 RICKARD ROAD
NORTH NARRABEEN, NSW 2101

Title
EROSION & SEDIMENT CONTROL PLAN AND DETAILS

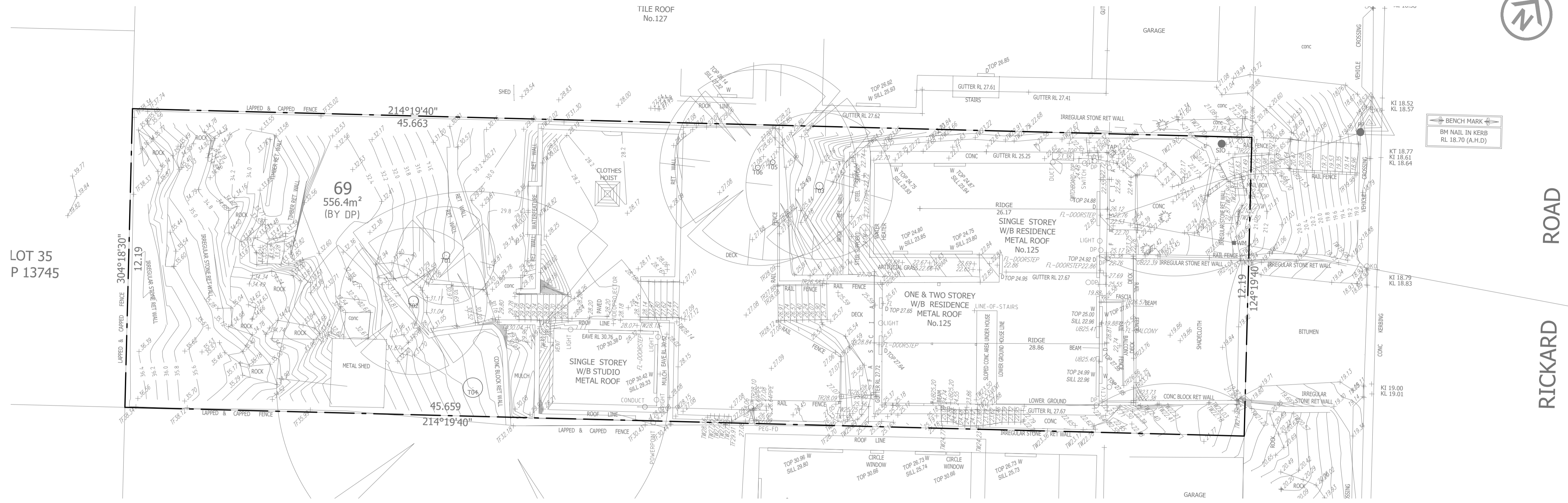
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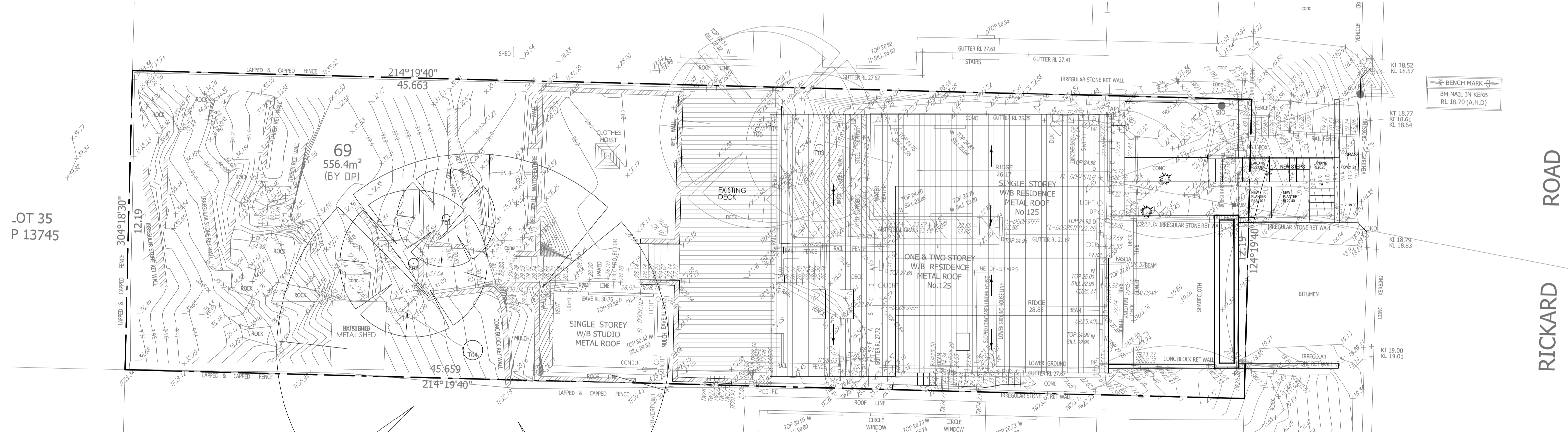
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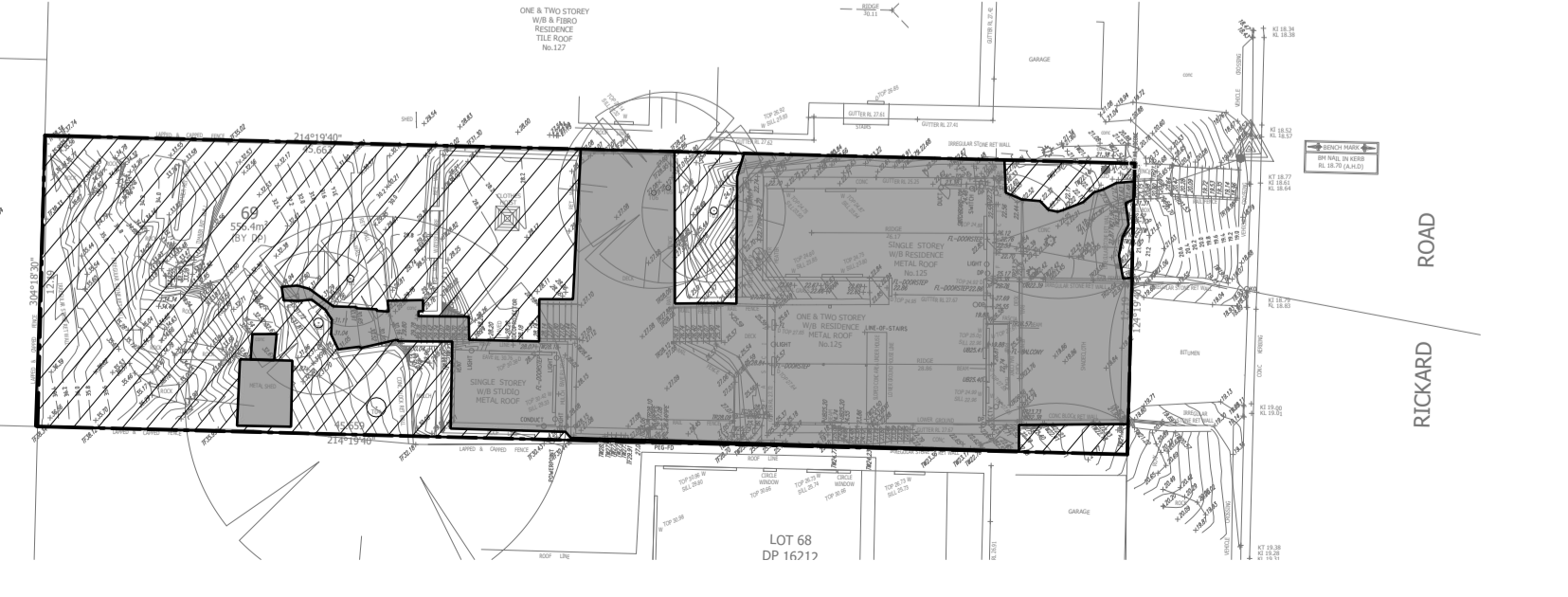
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EXISTING SITE PLAN

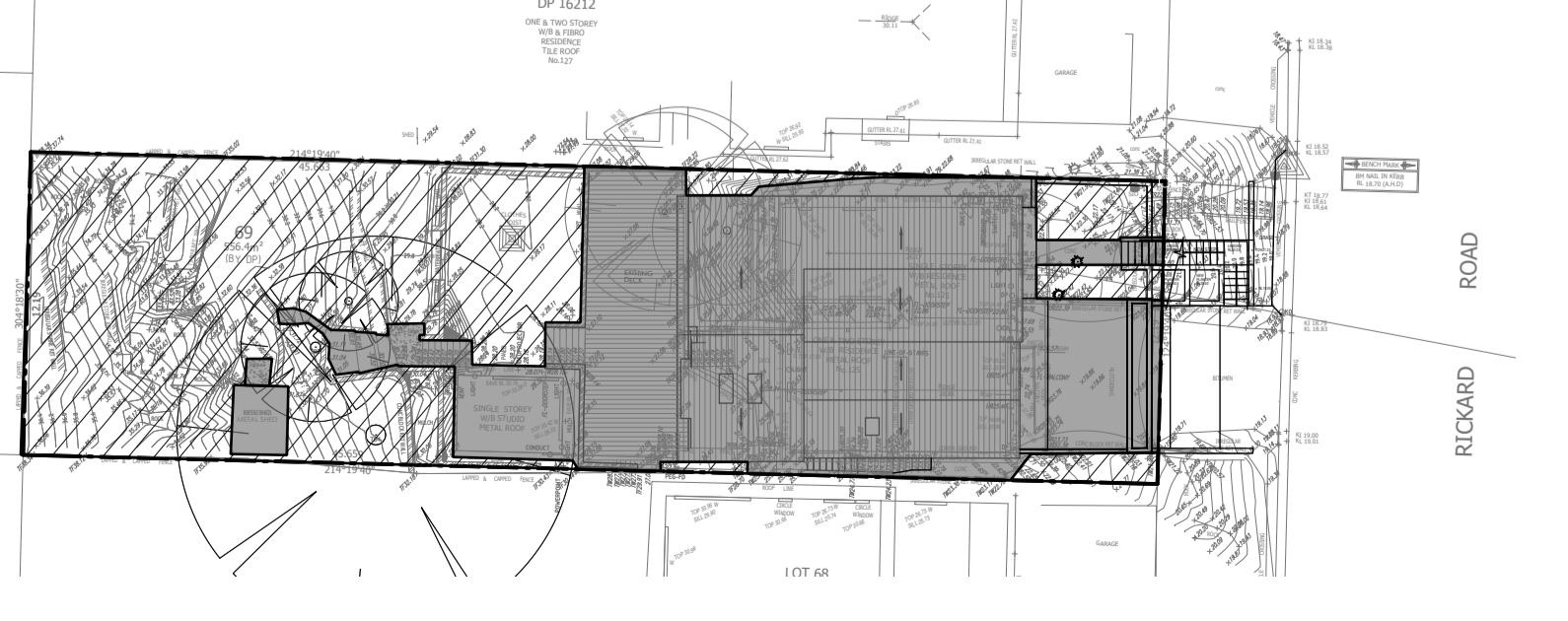


PROPOSED SITE PLAN



EXISTING SITE PERMEABILITY PLAN

LEGEND	EXISTING	PROPOSED
	291.1 m ²	290.1 m ²
	265.3 m ²	266.3 m ²



PROPOSED SITE PERMEABILITY PLAN

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Title
EXISTING AND PROPOSED SITE PLAN
AND IMPERVIOUS AREAS

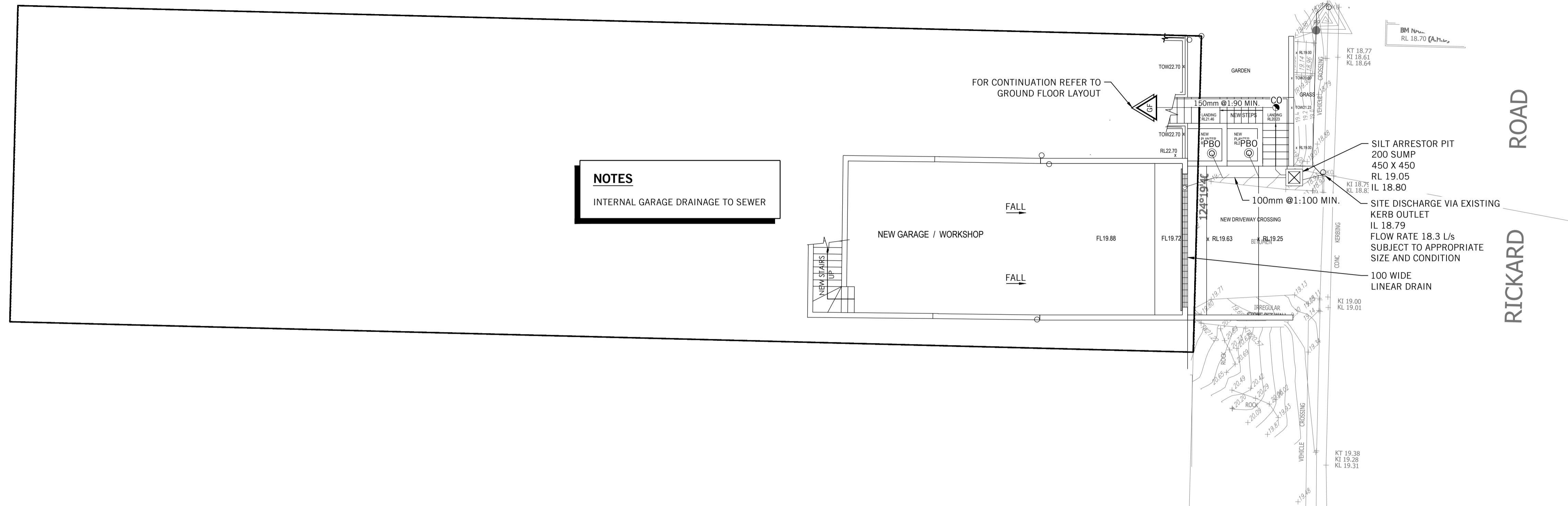
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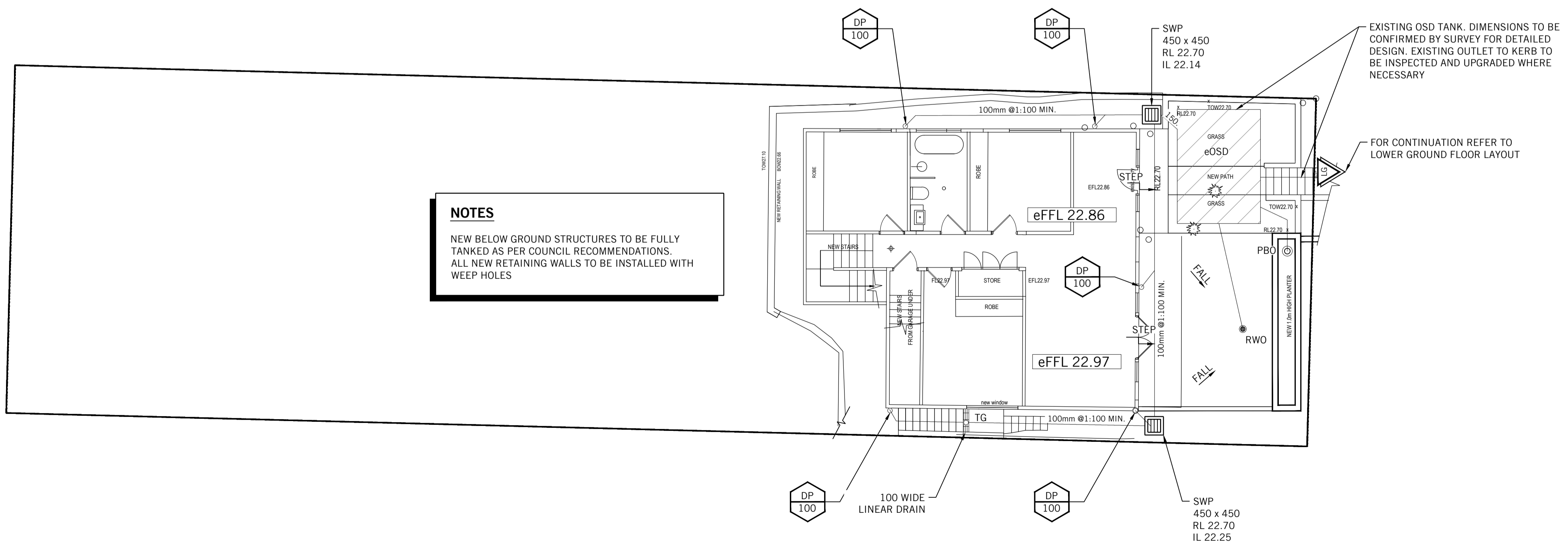
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LOWER GROUND FLOOR LAYOUT



GROUND FLOOR LAYOUT

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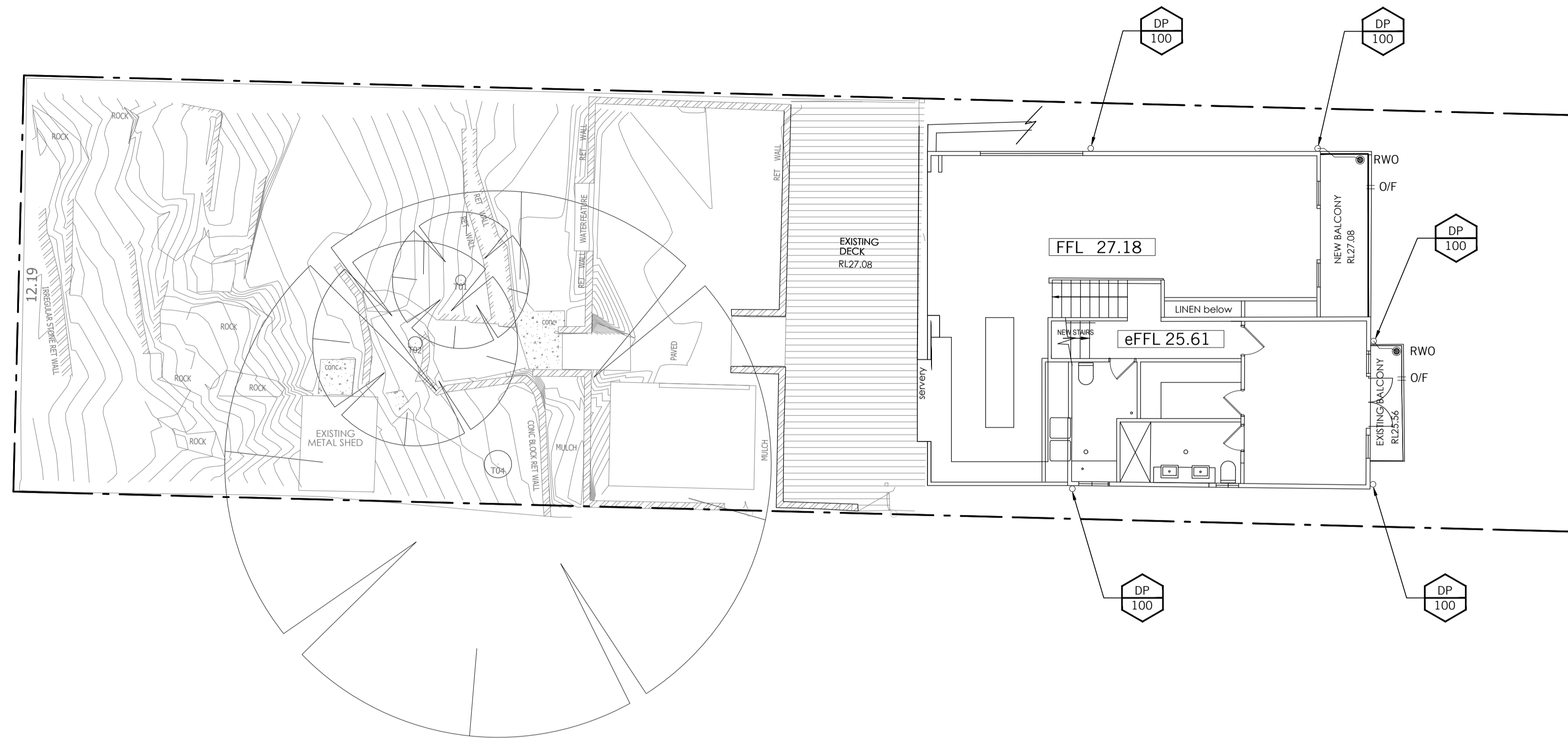
Title
STORMWATER DRAINAGE SERVICES
LOWER AND GROUND FLOOR LAYOUTS

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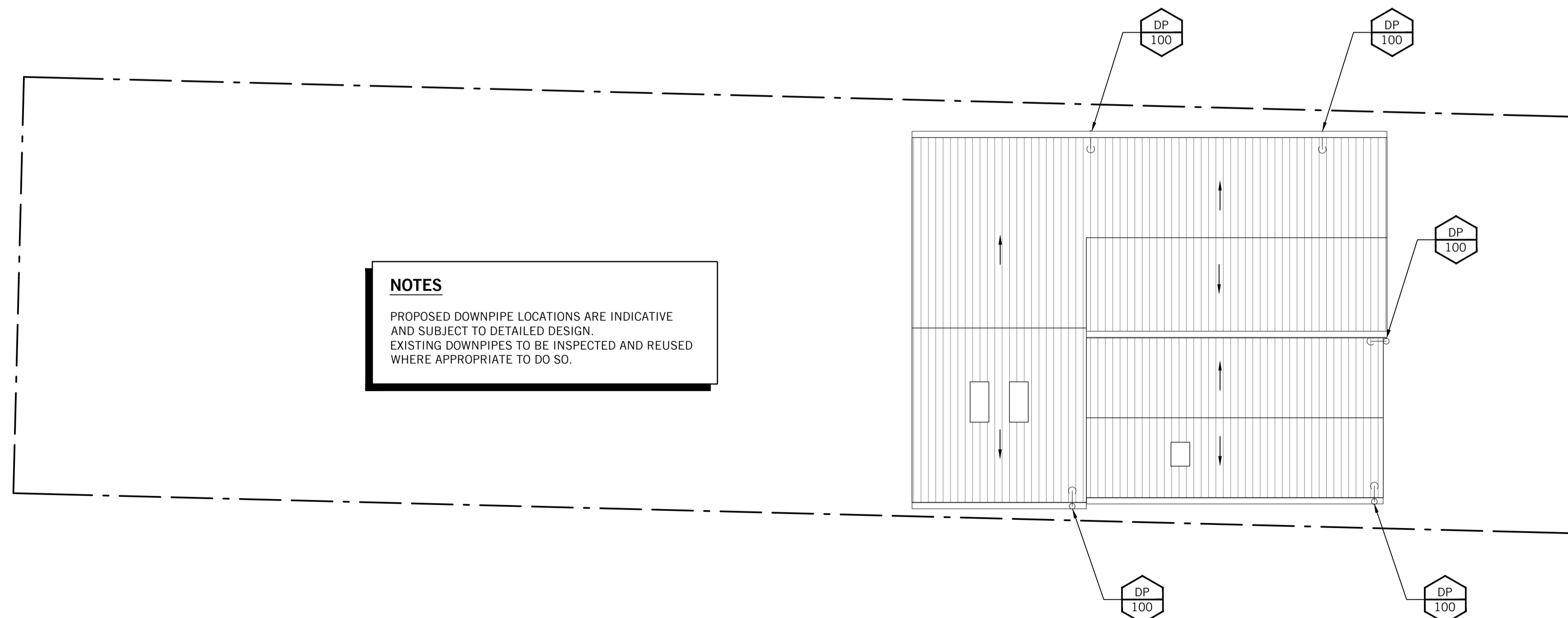
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FIRST FLOOR LAYOUT



ROOF LAYOUT

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FIRST FLOOR AND ROOF LAYOUTS

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