

18-20 IRVING STREET, PARRAMATTA

CIVIL ENGINEERING WORKS

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LEGEND

	STORMWATER DRAINAGE LINE
	PROPOSED INSPECTION OUTLET
	PROPOSED DOWNPIPE
	RAINWATER OUTLET
	STORMWATER FLOW ARROW
	STORMWATER GSP WITH 200um ENVIROPOD

GENERAL NOTES:

1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION.
2. THE CONSTRUCTOR SHALL PREPARE A DILAPIDATION REPORT FOR THE EXISTING INFRASTRUCTURE WITHIN THE ROAD RESERVE, INCLUDING BUT NOT LIMITED TO KERBS, GUTTERS, FOOTPATHS, VEHICULAR CROSSINGS, STREET SIGNS, SERVICE FITTING COVERS, ETC.
3. THE CONSTRUCTOR SHALL REVIEW, BE AWARE AND AT ALL TIMES COMPLY WITH THE SPECIFIC REQUIREMENTS FOR THIS DEVELOPMENT AS SET OUT IN THE DEVELOPMENT APPROVAL FOR THE PROJECT.
4. ANY CHANGES MADE BY THE CONSTRUCTOR TO ANY LEVEL, DIMENSION, LOCATION, POSITION, ALIGNMENT ETC., OF ANY OF THE WORKS SHOWN ON THE DRAWINGS WITHOUT THE WRITTEN CONSENT OF C&M CONSULTING ENGINEERS PTY. LTD. AND OR THE PRINCIPAL CERTIFYING AUTHORITY IS DONE SO AT THE CONSTRUCTORS OWN RISK.
5. THE CONSTRUCTOR SHALL ALLOW TO LIAISE WITH AND PROVIDE SUFFICIENT NOTICE TO THE PRINCIPAL CERTIFYING AUTHORITY TO ENSURE THAT ALL WORKS ARE INSPECTED TO ENABLE COMPLIANCE CERTIFICATES TO BE ISSUED THROUGHOUT THE CONSTRUCTION PERIOD. THE CONSTRUCTOR SHALL LIAISE WITH THE PRINCIPAL CERTIFYING AUTHORITY PRIOR TO ANY CONSTRUCTION WORKS COMMENCING AND PREPARE AN INSPECTION AND TEST PLAN WITH A MUTUALLY AGREED WITNESS AND HOLD POINTS FOR THE CONSTRUCTION WORKS.
6. IF THE PRINCIPAL CERTIFYING AUTHORITY IS NOT PARRAMATTA COUNCIL, THEN THE CONSTRUCTOR MUST CONTACT PARRAMATTA COUNCIL'S WORKS DIVISION TO ENABLE THEIR INSPECTION OF ALL WORKS (INCLUDING EROSION AND SEDIMENT CONTROL MEASURES) WITHIN THE ROAD RESERVE AREA.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ACCESS TO THE SITE. THE ACCESS SHALL BE ALL WEATHER SAFE ACCESS TO THE CONTRACTOR'S SITE FACILITIES AT ALL TIMES FOR THE DURATION OF THE CONTRACT.
8. A TEMPORARY HOARDING OR FENCE OF MINIMUM 1.5m HIGH IS TO BE PROVIDED AROUND THE SITE TO PROTECT THE PUBLIC PRIOR TO COMMENCEMENT OF WORKS. HOARDINGS OR FENCES ARE TO BE STRUCTURALLY ADEQUATE. THE CONTRACTOR SHALL OBTAIN AN APPROVAL FROM COUNCIL PRIOR TO ERECTING THE HOARDING OR FENCE.
9. ALL NEW WORKS SHALL MAKE A SMOOTH CONNECTION WITH ANY FORMATIONS, STRUCTURES, ETC.
10. ALL ALTERATIONS AND/OR ADDITIONS TO EXISTING WORK, THE CONTRACTOR SHALL VERIFY THE DIMENSIONS OF THE EXISTING WORK BEFORE PROCEEDING AND NOTIFY THE SUPERINTENDENT OF DISCREPANCIES.
11. THE CONTRACTOR SHALL USE MANUFACTURED ITEMS IN THE WORK ONLY IN ACCORDANCE WITH THE CURRENT PUBLISHED RECOMMENDATIONS OF THE MANUFACTURER RELEVANT TO SUCH USE.
12. THE WORKS SHALL BE CONSTRUCTED IN SUCH A MANNER THAT THERE IS MINIMUM DISTURBANCE TO EXISTING TREES AND VEGETATION.
13. THE PUBLIC FOOTWAY AND ROADWAY FRONTING THE SITE SHALL BE MAINTAINED IN A SAFE AND UNOBSTRUCTED MANNER AT ALL TIMES DURING THE CONSTRUCTION WORKS.
14. THE CONSTRUCTOR SHALL BE RESPONSIBLE FOR REPAIRING TO THE SATISFACTION OF THE ASSET OWNER, ANY DAMAGE CAUSED TO ANY EXISTING INFRASTRUCTURE WITHIN THE ROAD RESERVE, INCLUDING BUT NOT LIMITED TO KERBS, GUTTERS, FOOTPATHS, VEHICULAR CROSSINGS, STREET SIGNS, SERVICE FITTING COVERS, ETC.
15. THE SITE SHALL BE KEPT IN A TIDY CONDITION AT ALL TIMES. LITTER RUBBISH AND BUILDING RUBBLE SHALL BE PLACED IN CONTAINERS OR BINS AND REGULARLY REMOVED FROM SITE AS REQUIRED.

EARTHWORKS NOTES:

- E1. ALL TOPSOIL FROM EARTHWORKS AREAS SHOULD BE REMOVED AND STOCKPILED PRIOR TO ANY EARTHWORKS OPERATIONS.
- E2. ALL BATTER SLOPES SHALL BE A MAXIMUM OF 4:1 (U.N.O.)
- E3. ALL EARTHWORKS OPERATIONS SHALL BE SUPERVISED AND CERTIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER IN ACCORDANCE WITH AS3798 - 2007 SECTION 8.2 LEVEL 1 - INSPECTION AND TESTING.
- E4. ALL COMPACTION TEST RESULTS SHALL BE PROVIDED TO THE PRINCIPAL CERTIFYING AUTHORITY AS REQUIRED.
- E5. ALL SITE REGRADED AREAS AFTER FORMATION, SHALL BE COVERED WITH A 150mm SELECT TOPSOIL LAYER. TOPSOIL STOCKPILED PRIOR TO EARTHWORKS OPERATIONS CAN BE REUSED FOR THIS PURPOSE PROVIDED ANY DELETERIOUS MATERIAL IS REMOVED PRIOR TO PLACING.
- E6. ALL DISTURBED AREAS SHALL BE REVEGETATED AND STABILISED AS SOON AS PRACTICAL AFTER THE COMPLETION OF ANY EARTHWORKS OPERATIONS.
- E7. SURPLUS MATERIAL INCLUDING TOPSOIL SHALL BE REMOVED AND DISPOSED OF LAWFULLY OFF SITE.

CONCRETE NOTES:

- C1. ALL WORKMANSHIP, MATERIALS AND TESTING FOR CONCRETE WORKS SHALL COMPLY WITH THE REQUIREMENTS OF AS3600.
- C2. ALL WORKMANSHIP AND MATERIALS FOR FORMWORK SHALL COMPLY WITH THE REQUIREMENTS OF AS3610.
- C3. ALL CONCRETE SHALL BE PLACED AND COMPACTED USING VIBRATION METHODS.
- C4. ALL CONCRETE SHALL BE CURED FOR A PERIOD OF 7 DAYS DURING WHICH TIME THE CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST AND COVERED WITH CANVAS, PLASTIC, HESSIAN SHEETS OR CHEMICAL CURING COMPOUNDS.
- C5. IF A CONCRETE PUMP IS USED TO PLACE CONCRETE, THE CONCRETE SUPPLY LINE SHALL BE SUPPORTED IN SUCH A MANNER THAT NO DAMAGE IS CAUSED TO PROPERTY FROM EXCESSIVE VIBRATION.
- C6. THE CONSTRUCTOR SHALL ENSURE THAT ALL REINFORCEMENT IS SECURELY TIED AND SUPPORTED IN IT'S CORRECT POSITION AND WITHIN ACCEPTABLE TOLERANCES SO AS NOT TO BE DISPLACED DURING CONCRETE POURING.

STORMWATER DRAINAGE

1. ALL PIPE WORK SHALL BE INSTALLED AND TESTED TO AS3500.
2. ALL PIPE PENETRATIONS THROUGH CONCRETE STRUCTURAL ELEMENTS SHALL BE COORDINATED AND WHERE POSSIBLE CAST-IN PRIOR TO THE PLACEMENT OF CONCRETE. THE CONTRACTOR SHALL NOT CUT OR MOVE ANY STEEL REINFORCING BARS TO SUIT A PIPE PENETRATION UNLESS APPROVED IN WRITING BY THE BUILDER AND OR THE PROJECTS STRUCTURAL ENGINEER.
3. ALL CORE HOLE LOCATIONS SHALL BE APPROVED IN WRITING BY THE BUILDER AND OR THE PROJECTS STRUCTURAL ENGINEER PRIOR TO THE COMMENCEMENT OF ANY CORING ACTIVITIES.
4. THE CONTRACTOR SHALL PROVIDE AND REMOVE ON COMPLETION ALL TIMBERING AND SHORING AS NECESSARY TO CONSTRUCT THE PIPEWORK.
5. WHERE THE CLEARANCE FROM THE TOP OF PIPE WORK TO THE UNDERSIDE OF A FOOTING IS LESS THAN 150mm THEN THE CONTRACTOR SHALL INSTALL AN 80mm COMPRESSIBLE MATERIAL OVER THE PIPE WORK.
6. ALL DRAINS SHALL BE SUPPORTED ON FIRM GROUND. UPON EXCAVATION TO THE REQUIRED LEVELS, IF SOFT OR WATER CHARGED GROUND IS ENCOUNTERED, THEN THE CONTRACTOR SHALL NOTIFY THE BUILDER IMMEDIATELY AND AWAIT FURTHER DIRECTION PRIOR TO PROCEEDING WITH ANY PIPE LAYING.

HYDRAULIC SERVICE MATERIALS

1. STORMWATER DRAINAGE PIPES
 - DN100 OR SMALLER SHALL BE DWV STORMWATER DRAINAGE PIPE TO AS1524
 - UNLESS CHARGED STORMWATER LINES ARE SPECIFIED IN WHICH CASE PIPES SHALL BE UPVC CLASS S2
 - DN150 TO DN300 SHALL BE UPVC CLASS S4 (SEWER HEAVY GRADE)
 - DN300 OR LARGER SHALL BE REINFORCED CONCRETE OR FIBRE REINFORCED CONCRETE PIPE
2. ALL DOWNSPIES SHALL BE DN100 UNLESS NOTED OTHERWISE ON THE DRAWINGS WITH MATERIAL AND COLOUR AS SPECIFIED BY THE ARCHITECT.



LOCALITY SKETCH
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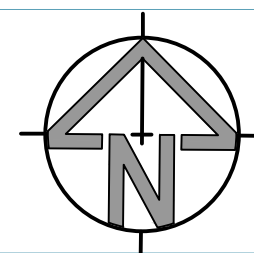
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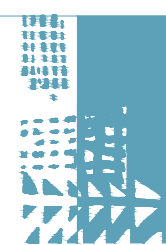
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residential flat building
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civil engineer



services engineer



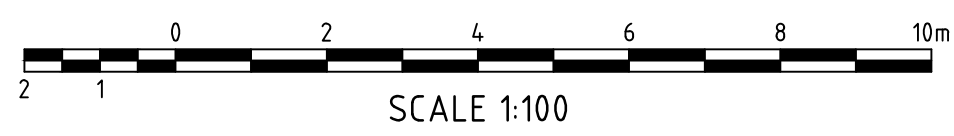
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COVER SHEET, DRAWING INDEX,
GENERAL NOTES & LOCALITY SKETCH

da issue

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A1	NA	A.M.	01959
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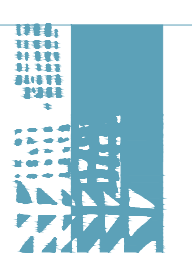
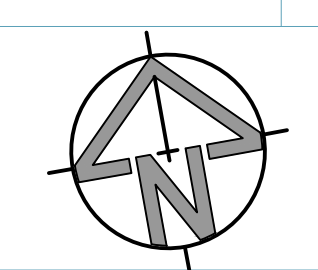
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Where specific support / structural information is not shown in the design drawings, the Contractor shall be responsible for ensuring that the design supports / footings are required to ensure installations are structurally sound and adequate for the intended use of the structure. The Contractor is responsible for providing all necessary structural engineering inputs & certifications necessary to satisfy this requirement.

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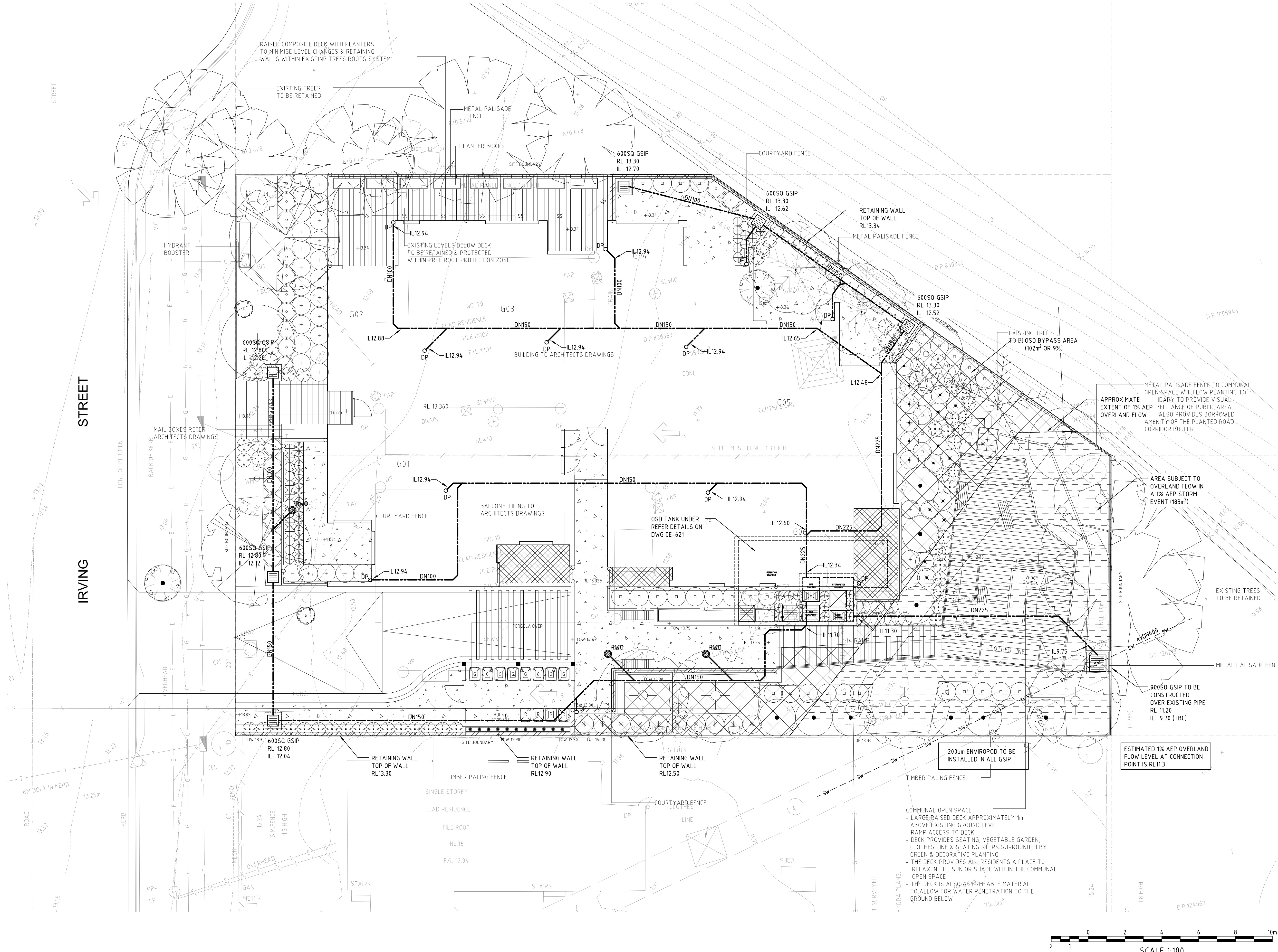
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STORMWATER DRAINAGE BASEMENT LEVEL

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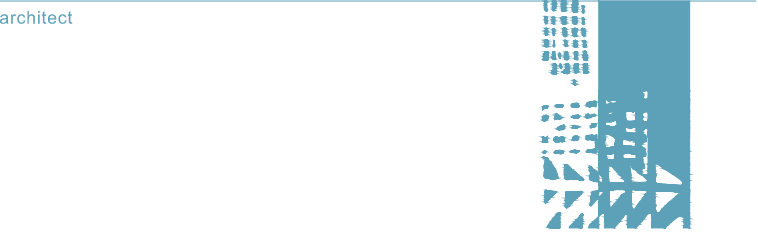
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structural engineer



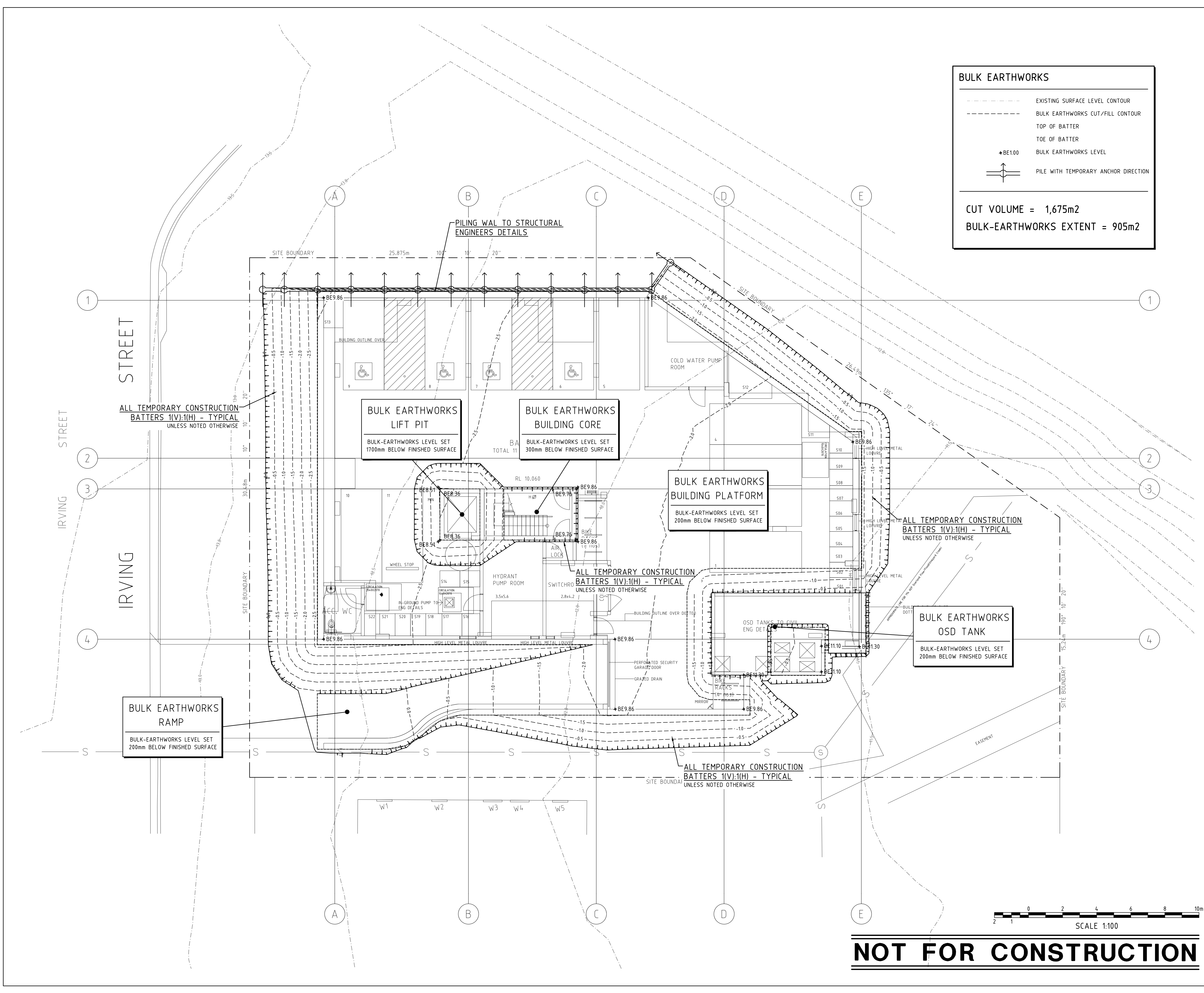
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STORMWATER DRAINAGE
GROUND FLOOR

da issue

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BULK EARTHWORKS

EXISTING SURFACE LEVEL CONTOUR

BULK EARTHWORKS CUT/FILL CONTOUR

TOP OF BATTER

TOE OF BATTER

BULK EARTHWORKS LEVEL

PILE WITH TEMPORARY ANCHOR DIRECTION

CUT VOLUME = 1,675m²

BULK-EARTHWORKS EXTENT = 905m²

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NSW

GOVERNMENT

Family & Community Services

Land & Housing Corporation

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PRELIMINARY BULK-EARTHWORKS PLAN

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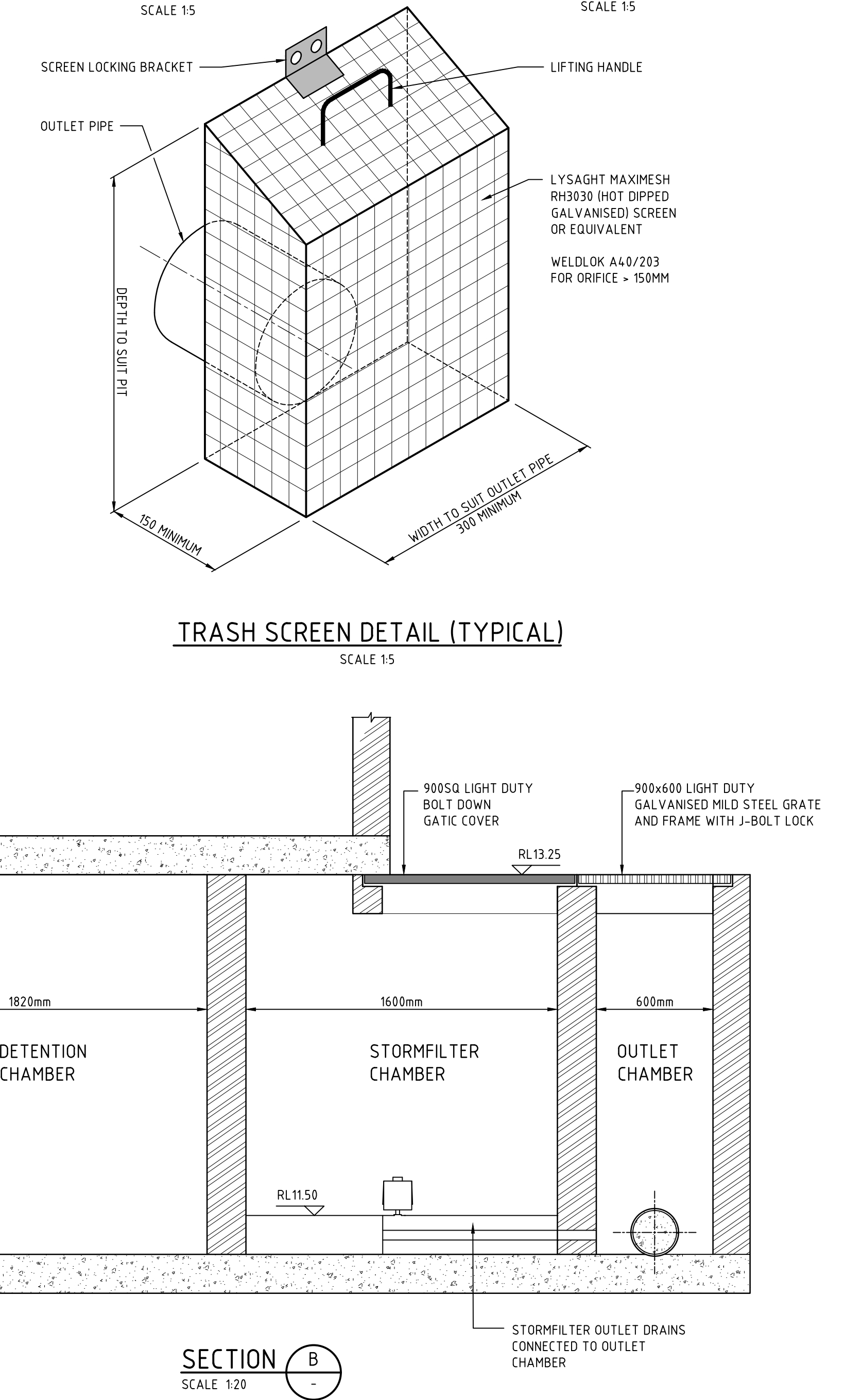
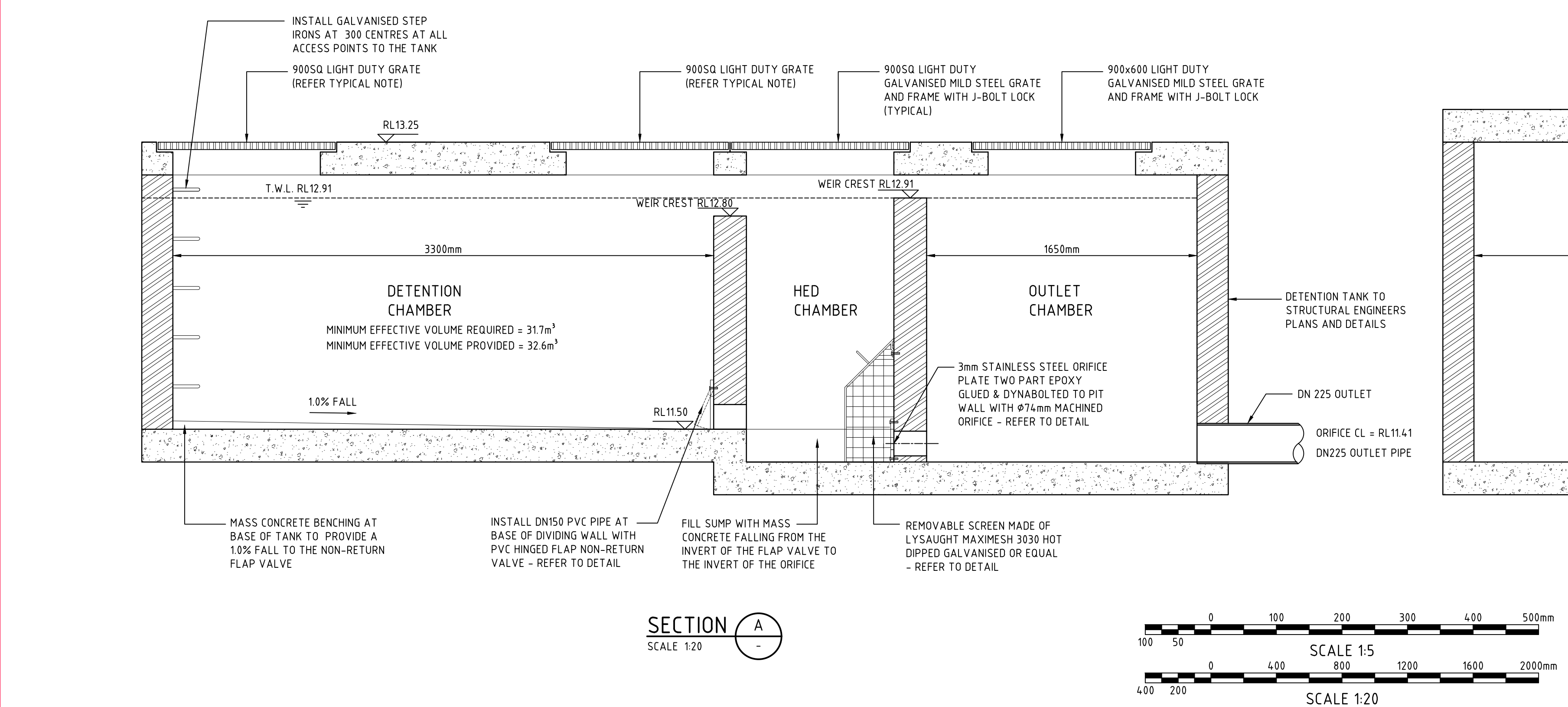
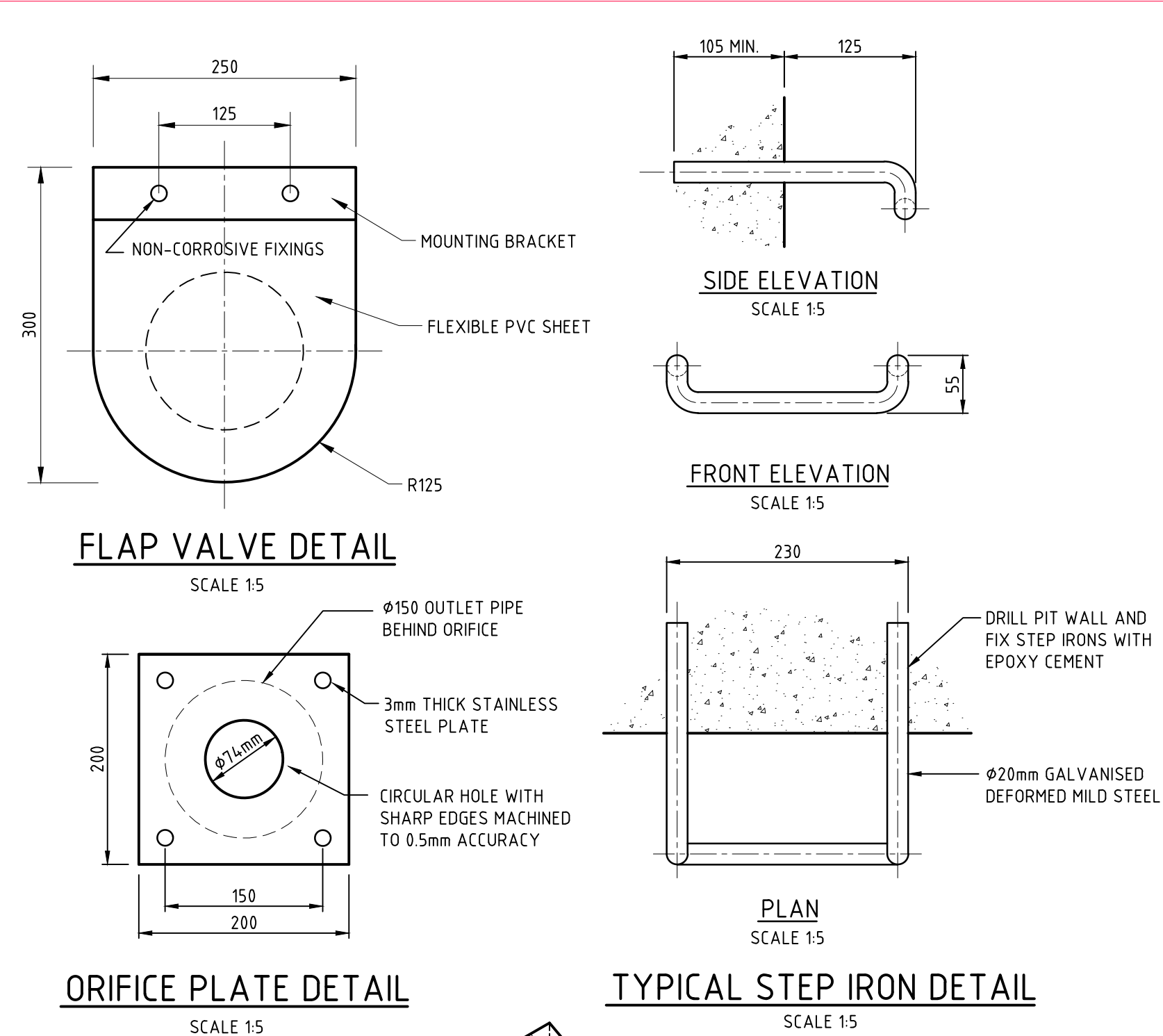
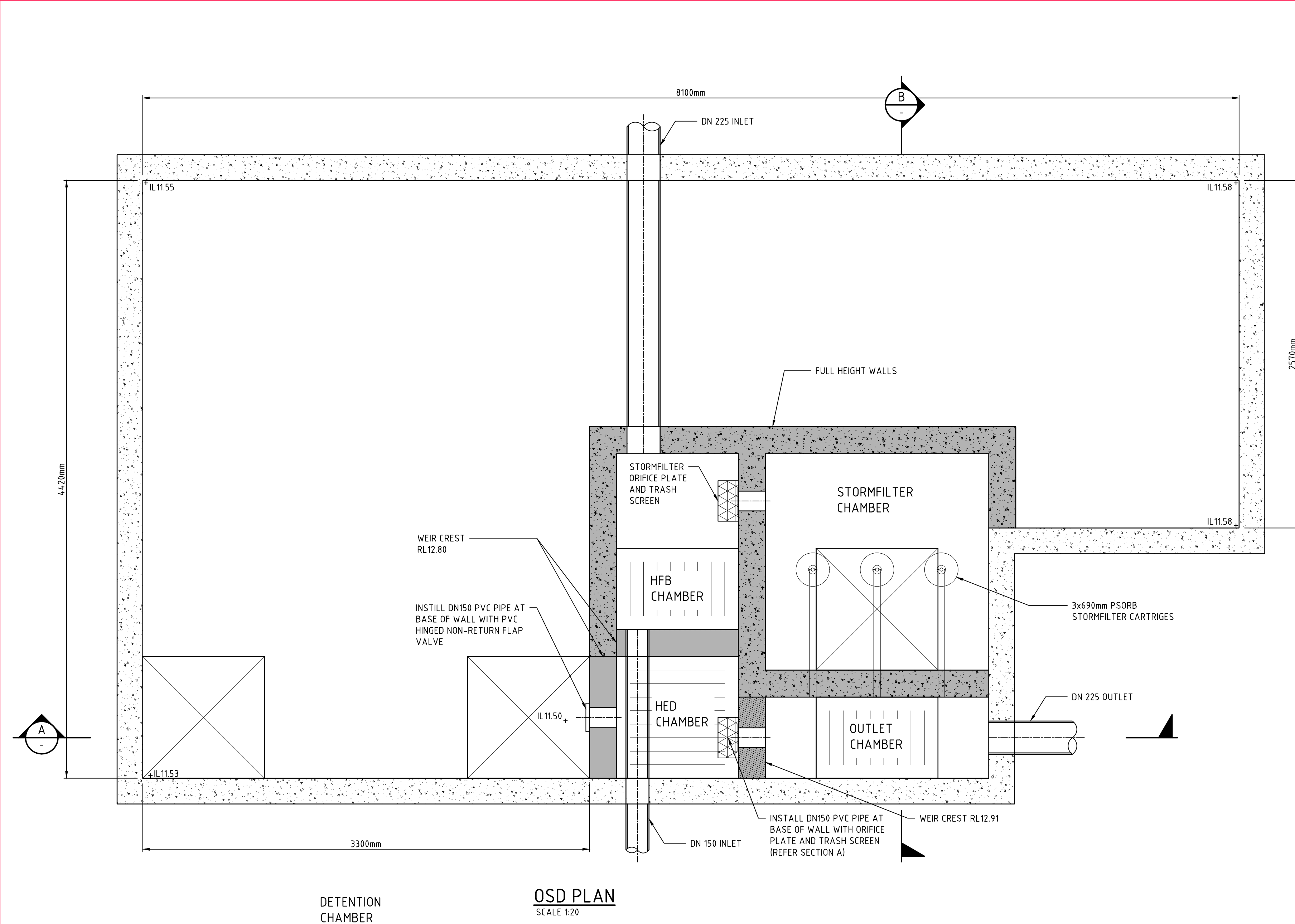
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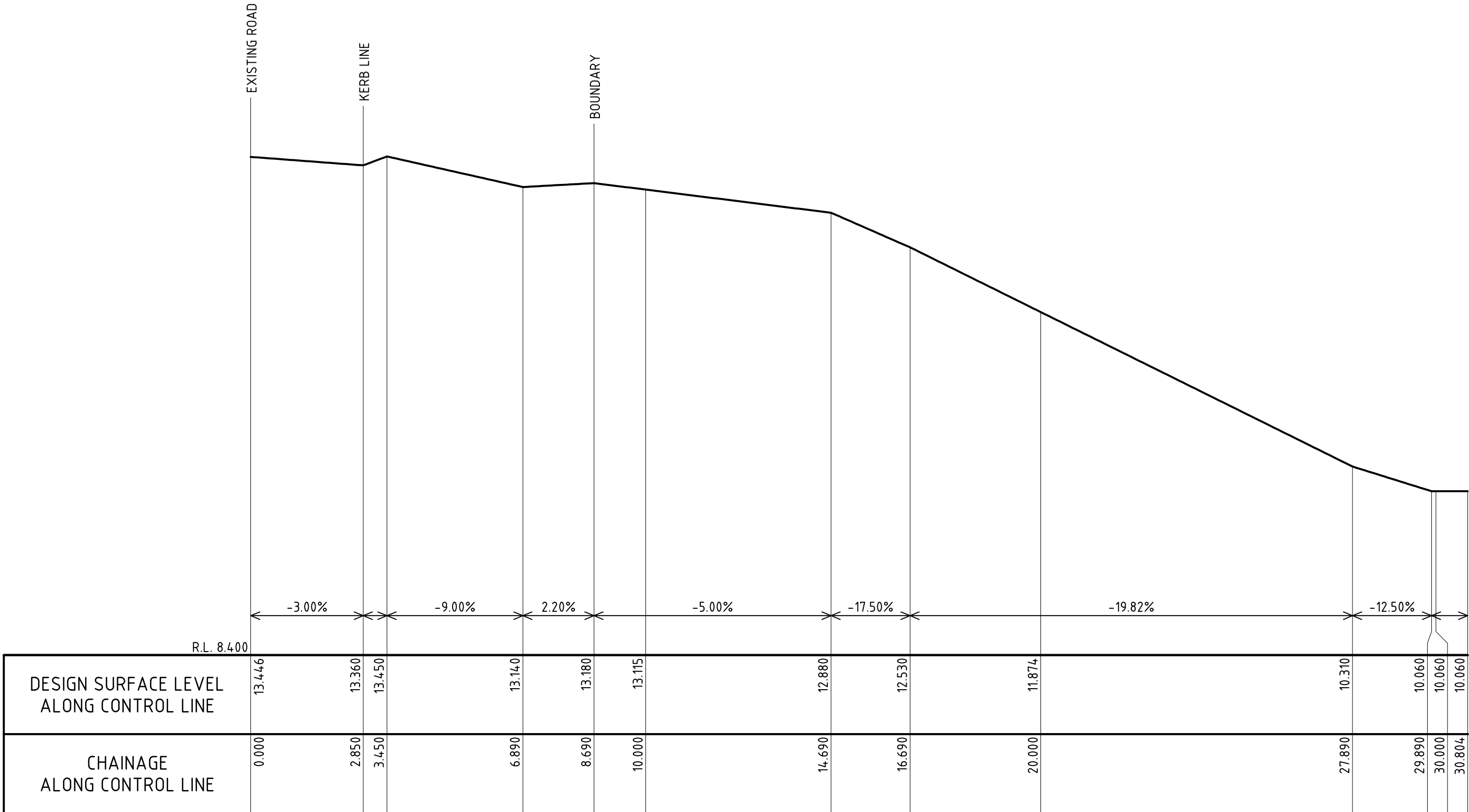
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OSD PLAN & SECTIONS

da issue

original	scale	drawn	project no.
A1	AS SHOWN	A.M.	01959

drawing no.	rev no.
CE-621	B



LONGITUDINAL SECTION ALONG DRIVEWAY CONTROL LINE

SCALE 1:100 (H) & 1:20 (V)

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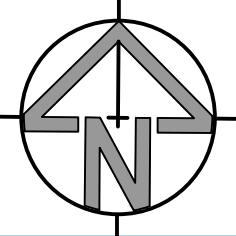
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 **Family & Community Services**
Land & Housing Corporation

NSW LAND & HOUSING CORPORATION
13/31-39 Macquarie Street, Parramatta, NSW 2150

civil engineer

 **C & M CONSULTING ENGINEERS**

services engineer

 **BSE BUILDING SERVICES ENGINEERS**

structural engineer

 **TAYLOR LAUDER BERSTEN PTY. LTD.**
CONSULTING STRUCTURAL, CIVIL & MARITIME ENGINEERS

drawing title

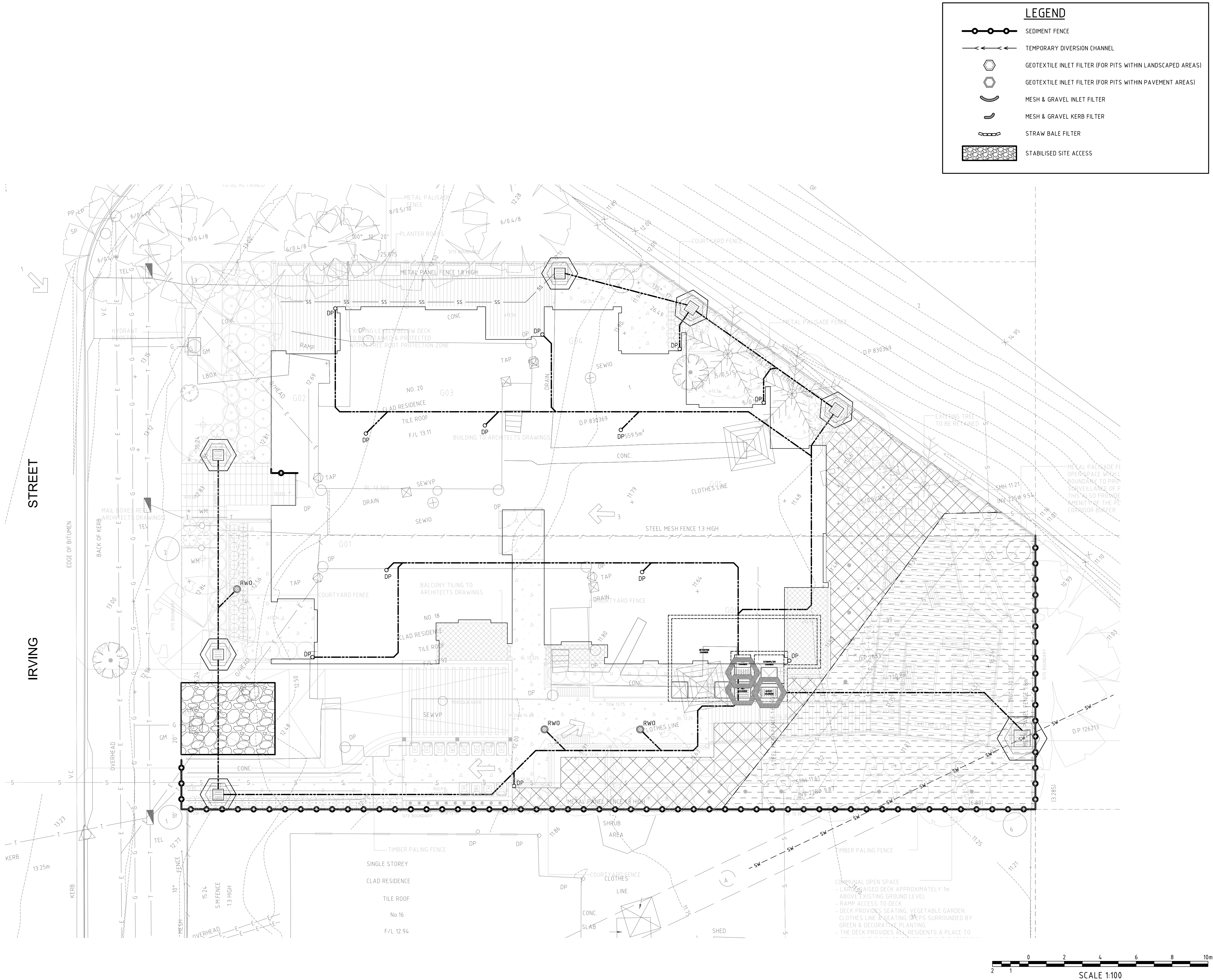
DRIVEWAY LONGITUDINAL
SECTION

da issue

original	scale	drawn	project no.
A1	NA	A.M.	01959

drawing no.	rev no.
CE-301	B

NOT FOR CONSTRUCTION



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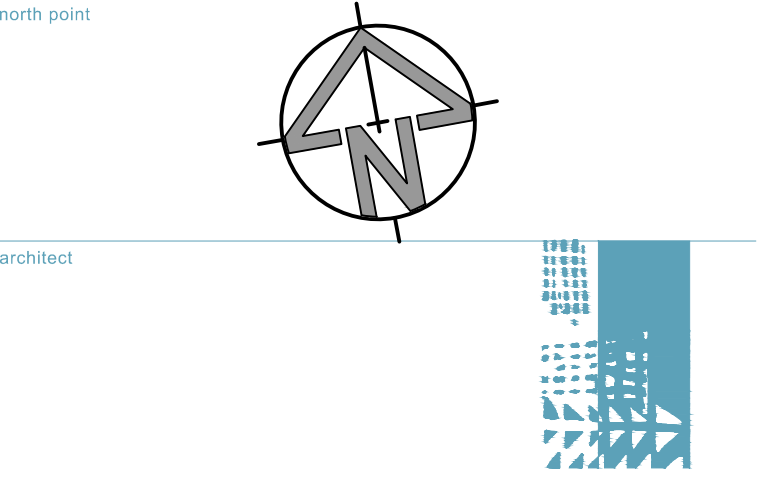
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All miscellaneous items such as stairs, ramps, bollards, benches, seats, handrails, balustrades, water features, playground equipment, fences and the like that are indicated on the drawings, are indicated as design intent only. Refer Structural Engineer's documents for detailed engineering requirements related to all supports / structural aspects of these elements. Where specific support / structural information is not shown in the design documents the Contractor shall allow to provide all necessary structural supports / footings as required to ensure installations are structurally sound and adequate to suit the installation. The Contractor shall be responsible for providing all necessary structural engineering inputs & certifications necessary to satisfy this requirement.

figured dimensions to be taken in preference to scaled dimensions. verify all dimensions on the job before preparing shop drawings or commencing work. dimensions shown are computer generated and the contractor is to apply standard building tolerances.

verified suitable for the use stipulated by the relevant revision/issue only if initialed and checked by an authorised dem(aust) Pty Limited representative.

amendments					verified			
no.	date	amendment	by	chk'd	init	chk'd		
A	03/09/18	PRELIMINARY ISSUE	A.M.	03/09	E.S.	03/09		
B	27/09/18	DAISSUE	A.M.	03/09	E.S.	27/09		



planning, urban design, architecture, landscape architecture, interior design

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p: po box 5036 west chatswood nsw 1515
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project/client
residential flat building
Lot1 D.P.830369, & Lot 30 D.P.2633,
18-20 irving street, parramatta

NSW Family & Community Services
Land & Housing Corporation

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civil engineer

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services engineer

BSE TRUE PARTNERS
BSE BUILDING SERVICES ENGINEERS

structural engineer

tlb A Torkin Company
TAYLOR LAUDER BERSTEN PTY. LTD.
CONSULTING STRUCTURAL, CIVIL & MARITIME ENGINEERS

drawing title

SEDIMENT & EROSION CONTROL PLAN

da issue

original	scale	drawn	project no.
A1	1:100	A.M.	01959
drawing no.			rev no.

CE-701 **B**

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amendments		verified		
no.	date	amendment		
		by	chk'd	
		init	chk'd	
A	03/08/18	PRELIMINARY ISSUE	A.M. 03/09	E.S. 03/09
B	27/09/18	DA ISSUE	A.M. 27/09	E.S. 27/09



dem

project/client



Family & Community Services
Land & Housing Corporation

civil engineer



services engineer



drawing title

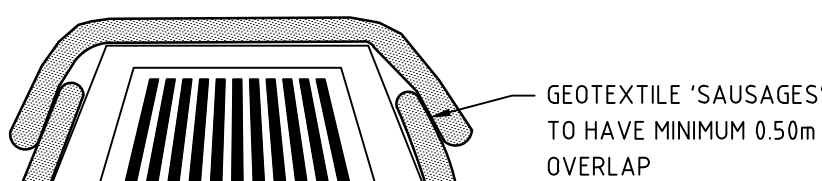
da issue

drawing no.	rev no.
CE-702	B



- ## STABILISED SITE ACCESS WITH SHAKER GRID DETAIL

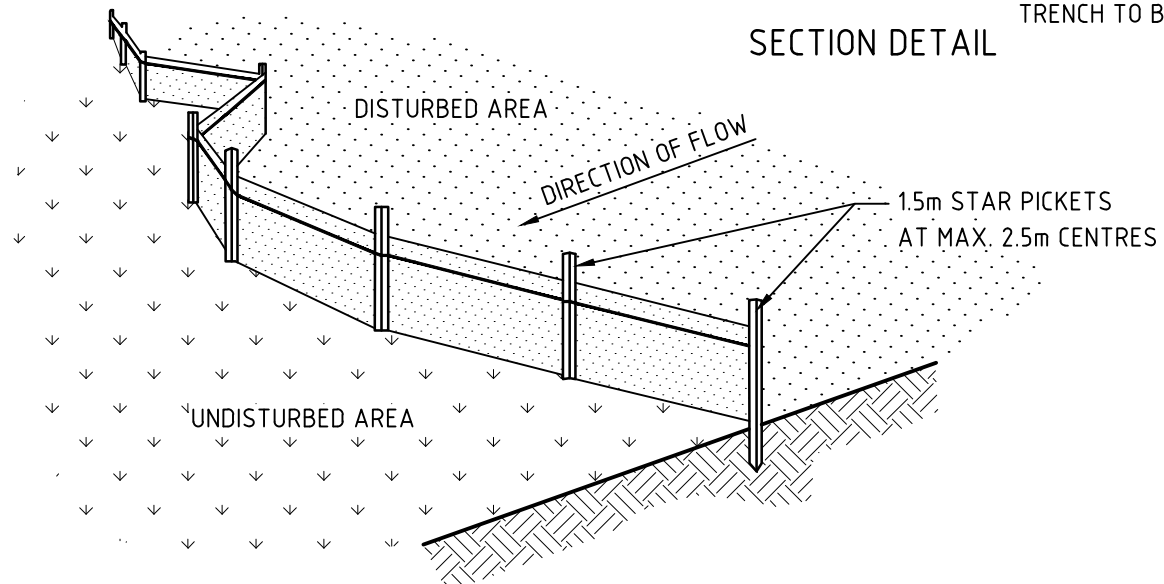
NOT TO SCALE



- ## GEOTEXTILE INLET FILTER DETAIL

FOR PITS WITHIN PAVEMENT AREAS

NOT TO SCALE



- ### SEDIMENT FENCE DETAIL

NOT TO SCALE

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