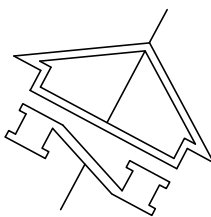


JINDABYNE CENTRAL SCHOOL

LEARNING BUILDING AND CARPARK DEVELOPMENT APPLICATION



GENERAL NOTES

- Contractor must verify all dimensions and existing levels on site prior to commencement of works. Any discrepancies to be reported to the Engineer.
- Strip all topsoil from the construction area. All stripped topsoil shall be disposed of off-site unless directed otherwise.
- Make smooth connection with all existing works.
- Compact subgrade under buildings and pavements to minimum 98% standard maximum dry density in accordance with AS 1289 5.1.1. Compaction under buildings to extend 2m minimum beyond building footprint.
- All work on public property, property which is to become public property, or any work which is to come under the control of the Statutory Authority, the Contractor is to ensure that the drawings used for construction have been approved by all relevant authorities prior to commencement site.
- All work on public property, property which is to become public property, or any work which is to come under the control of the Statutory Authority is to be carried out in accordance with the requirements of the relevant Authority. The Contractor shall obtain these requirements from the Authority. Where the requirements of the Authority are different to the drawings and specifications, the requirements of the Authority shall be applicable.
- For all temporary batters refer to geotechnical recommendations.

REFERENCE DRAWINGS

- These drawings have been based from, and to be read in conjunction with the following Consultants drawings. Any conflict to the drawings must be notified immediately to the Engineer.

Consultant	Dwg Title	Dwg No	Rev	Date
graypuksand	PROPOSED SITE PLAN	J-0X-A006	3	14.01.19
Kleven Spain	DETAIL SURVEY	SM160	A	05.09.18
360	SITE PLAN	LA06	B	01.02.19

SURVEY AND SERVICES INFORMATION

Origin of levels : -
Datum of levels : A.H.D. AUSTRALIAN HEIGHT DATUM
Coordinate system : MGA
Survey prepared by : KLEVEN SPAIN
Setout Points : CONTACT THE SURVEYOR

Taylor Thomson Whitting does not guarantee that the survey information shown on these drawings is accurate and will accept no liability for any inaccuracies in the survey information provided to us from any cause whatsoever.

UNDERGROUND SERVICES - WARNING

The locations of underground services shown on Taylor Thomson Whittings drawings have been plotted from diagrams provided by service authorities. This information has been prepared solely for the authorities own use and may not necessarily be updated or accurate.

The position of services as recorded by the authority at the time of installation may not reflect changes in the physical environment subsequent to installation.

Taylor Thomson Whitting does not guarantee that the services information shown on these drawings shows more than the presence or absence of services, and will accept no liability for inaccuracies in the services information shown from any cause whatsoever.

The Contractor must confirm the exact location and extent of services prior to construction and notify any conflict with the drawings immediately to the Engineer/Superintendent.

The contractor is to get approval from the relevant state survey department, to remove/adjust any survey mark. This includes but is not limited to; State Survey Marks (SSM), Permanent Marks (PM), cadastral reference marks or any other survey mark which is to be removed or adjusted in any way.

Taylor Thomson Whitting plans do not indicate the presence of any survey mark. The contractor is to undertake their own search.

BOUNDARY AND EASEMENT NOTE

The property boundary and easement locations shown on Taylor Thomson Whitting drawing's have been based from information received from : **No boundary information received.**

Refer architect for boundary information and locations

Taylor Thomson Whitting makes no guarantees that the boundary or easement information shown is correct.

Taylor Thomson Whitting will accept no liabilities for boundary inaccuracies. The contractor/builder is advised to check/confirm all boundaries in relation to all proposed work prior to the commencement of construction. Boundary inaccuracies found are to be reported to the superintendent prior to construction starting.

RETAINING WALLS

- Drainage shall be provided as shown on the drainage drawings.
- Backfilling shall be carried out after grout or concrete has reached a minimum strength of 0.85 f.c. Backfilling shall be approved granular material compacted in layers not exceeding 200mm to 95% Standard compaction unless noted otherwise.
- Provide waterproofing to back of walls as specified or noted.
- Where retaining walls rely on connecting structural elements for stability, do not backfill against the wall unless it is adequately propped or the elements have been constructed and have sufficient strength to withstand the loads.
- For all temporary batters obtain geotechnical engineers recommendations.

STORMWATER DRAINAGE NOTES

- Stormwater Design Criteria :
 - Average exceedance probability - 1% AEP for roof drainage to first external pit
5% AEP for paved and landscaped areas
 - Rainfall intensities -
Time of concentration: 5 minutes
1% AEP = 190 mm/hr
5% AEP = 136 mm/hr
 - Rainfall losses -
Impervious areas: IL = 1.5 mm , CL = 0 mm/hr
Pervious areas: IL =19.6 mm , CL = 5.6 mm/hr

- Pipes 300 dia and larger to be reinforced concrete Class *2* approved spigot and socket with rubber ring joints U.N.O.
- Pipes up to 300 dia may be sewer grade uPVC with solvent welded joints, subject to approval by the engineer
- Equivalent strength VCP or FRP pipes may be used subject to approval.
- Precast pits may be used external to the building subject to approval by ENGINEER
- Enlargers, connections and junctions to be manufactured fittings where pipes are less than 300 dia.
- Where subsoil drains pass under floor slabs and vehicular pavements, unslotted uPVC sewer grade pipe is to be used.
- Gates and covers shall conform with AS 5996-2006, and AS 1428.1 for access requirements.
- Pipes are to be installed in accordance with AS 3725. All bedding to be type H2 U.N.O.
- Care is to be taken with invert levels of stormwater lines. Grades shown are not to be reduced without approval.
- All stormwater pipes to be 225 dia at 1.0% min fall U.N.O.
- Subsoil drains to be slotted flexible uPVC U.N.O.
- Adopt invert levels for pipe installation (grades shown are only nominal).

CONCRETE FINISHING NOTES

- All exposed concrete pavements are to be broomed finished.
- All edges of the concrete pavement including keyed and dowelled joints are to be finished with an edging tool.
- Concrete pavements with grades greater than 10 % shall be heavily broomed finished.
- Corborundum to be added to all stair treads and ramped crossings U.N.O.

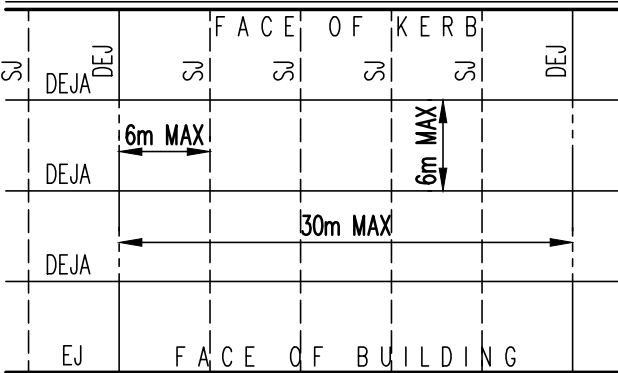
SITeworks NOTES

- All basecourse material to comply with RMS specification No 3051 and compacted to minimum 98% modified standard dry density in accordance with AS 1289 5.2.1.
- All trench backfill material shall be compacted to the same density as the adjacent material.
- All service trenches under vehicular pavements shall be backfilled with an approved select material and compacted to a minimum 98% standard maximum dry density in accordance with AS 1289 5.1.1

JOINTING NOTES

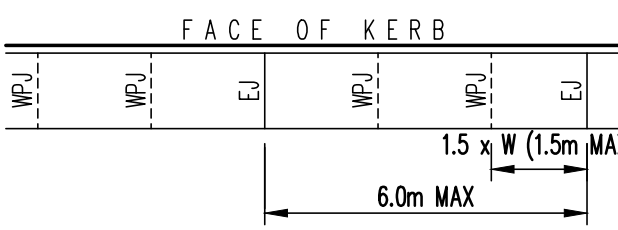
Vehicular Pavement Jointing

- All vehicular pavements to be jointed as shown on drawings.
- Keyed construction joints should generally be located at a maximum of 6m centres.
- Sawn joints should generally be located at a maximum of 6m centres or 1.5 x the spacing of keyed joints, where key joint spacing is less than 4m, with dowelled expansion joints at maximum of 30m centres.
- Provide 10mm wide full depth expansion joints between buildings and all concrete or unit pavers.
- The timing of the saw cut is to be confirmed by the contractor on site. Site conditions will determine how many hours after the concrete pour before the saw cuts are commenced. Refer to the specification for weather conditions and temperatures required.
- Vehicular pavement jointing as follows.



Pedestrian Footpath Jointing

- Expansion joints are to be located where possible at tangent points of curves and elsewhere at max 6.0m centres.
- Weakened plane joints are to be located at a max 1.5 x width of the pavement.
- Where possible joints should be located to match kerbing and / or adjacent pavement joints.
- All pedestrian footpath jointings as follows (uno).



SAFETY IN DESIGN

Contractor to refer to Appendix B of the Civil Specification for the Civil Risk and Solutions Register.

EXISTING SERVICES

Contractor to be aware existing services are located within the site. Location of all services to be verified by the Contractor prior to commencing works. Contractor to confirm with relevant authority regarding measures to be taken to ensure services are protected or procedures are in place to demolish and/or relocate.

EXISTING STRUCTURES

Contractor to be aware existing structures may exist within the site. To prevent damage to existing structure(s) and/or personnel, site works to be carried out as far as practicable possible from existing structure(s).

EXISTING TREES

Contractor to be aware existing trees exist within the site which need to be protected. To prevent damage to trees and/or personnel, site works to be carried out as far as practicable possible from existing trees. Advice needs to be sought from Arborist and/or Landscape Architect on measures required to protect trees.

GROUNDWATER

Contractor to be aware ground water levels are close to existing surface level. Temporary de-watering may be required during construction works.

EXCAVATIONS

Deep excavations due to stormwater drainage works is required. Contractor to ensure safe working procedures are in place for works. All excavations to be fenced off and batters adequately supported to approval of Geotechnical Engineer.

GROUND CONDITIONS

Contractor to be aware of the site geotechnical conditions. Refer to geotechnical report by (insert report details) for details.

HAZARDOUS MATERIALS

Existing asbestos products & contaminated material may be present on site. Contractor to ensure all hazardous materials are identified prior to commencing works. Safe working practices as per relevant authority to be adopted and appropriate PPE to be used when handling all hazardous materials. Refer to geotechnical/environmental report by (insert report details) for details.

CONFINED SPACES

Contractor to be aware of potential hazards due to working in confined spaces such as stormwater pits, trenches and/or tanks. Contractor to provide safe working methods and use appropriate PPE when entering confined spaces.

MANUAL HANDLING

Contractor to be aware manual handling may be required during construction. Contractor to take appropriate measures to ensure manual handling procedures and assessments are in place prior to commencing works.

WATER POLLUTION

Contractor to ensure appropriate measures are taken to prevent pollutants from construction works contaminating the surrounding environment.

SITE ACCESS/EGRESS

Contractor to be aware site works occur in close proximity to footpaths and roadways. Contractor to erect appropriate barriers and signage to protect site personnel and public.

VEHICLE MOVEMENT

Contractor to supply and comply with traffic management plan and provide adequate site traffic control including a certified traffic marshal to supervise vehicle movements where necessary.

KERBING NOTES

Includes all kerbs, gutters, dish drains, crossings and edges.

- All kerbs, gutters, dish drains and crossings to be constructed on minimum 75mm granular basecourse compacted to minimum 98% modified maximum dry density in accordance with AS 1289 5.2.1.
- Expansion joints (EJ) to be formed from 10mm compressible cork filler board for the full depth of the section and cut to profile. Expansion joints to be located at drainage pits, on tangent points of curves and elsewhere at 12m centres except for integral kerbs where the expansion joints are to match the joint locations in slabs.
- Weakened plane joints to be min 3mm wide and located at 3m centres except for integral kerbs where weakened plane joints are to match the joint locations in slabs.
- Broomed finished to all ramped and vehicular crossings, all other kerbing or dish drains to be steel float finished.
- In the replacement of kerbs -
Existing road pavement is to be sawcut 900mm from lip of gutter. Upon completion of new kerbs, new basecourse and surface is to be laid 900mm wide to match existing materials and thicknesses.
Existing allotment drainage pipes are to be built into the new kerb with a 100mm dia hole.
Existing kerbs are to be completely removed where new kerbs are shown.

SURVEY LEGEND

+18.48	Surface level
19	Contour
	Kerb line
	Batter
	Retaining wall
SW	Stormwater drainage line
T	Telecommunications line
G	Gas line
W	Water main
S	Sewer line
E	Electrical line
EASEMENT FOR (m wide)	Easement
	Fence
	Tree to be removed/be retained
	Boundary
	Sign
H	Hydrant
MH	Manhole
G	Gas
SV	Stop Valve
W	Water
TEL	Telecommunications
TRAP	Trap
	Gully
	Grate
S	Sewer Manhole
E	Electricity
ELP	Electric Light Pole
TL	Traffic Light
TLL	Traffic Light Lid
TLB	Traffic Light Box
TE	Telephone Box
PM	Parking Meter

EXISTING SERVICES LEGEND

S	Existing sewer
W	Existing water
EU	Existing underground electrical
EA	Existing aerial electrical
T	Existing communications
G	Existing gas
SW	Existing stormwater

SITeworks LEGEND

F22.20	Finished surface level
K&G	Kerb and gutter
KO	Kerb only
FK	Flush kerb
DD	Dish drain
TE	Thickened edge
	Stormwater pit, flow direction and line
GD	Grated drain
IR	Intermediate riser with subsoil drainage line (100 dia)
FP	Flushing point with subsoil drainage line (100 dia)
RW	Retaining wall



SITE LOCALITY PLAN
NOT TO SCALE - IMAGE COURTESY OF NSW SPATIAL INFORMATION EXCHANGE

DRAWING SCHEDULE

Drawing No.	Drawing Title
J-SKC01	NOTES AND LEGENDS SHEET
J-SKC02	CONCEPT EROSION & SEDIMENT CONTROL PLAN & DETAILS
J-SKC03	CONCEPT SITeworks PLAN SHEET 1
J-SKC04	CONCEPT SITeworks PLAN SHEET 2
J-SKC05	CONCEPT DETAILS SHEET 1
J-SKC06	CONCEPT DETAILS SHEET 2
J-SKC07	CONCEPT OSD TANK DETAILS SHEET

P2	FOR APPROVAL	GC	AI	11.04.19
P1	FOR APPROVAL	GC	AI	22.03.19
Rev	Description	Eng	Draft	Date
Project				
JINDABYNE CENTRAL SCHOOL				
LEARNING BUILDING AND				
CARPARK				

Sheet Subject

NOTES AND LEGENDS SHEET

Architect
graypuksand
1/156 Clarence Street Sydney NSW 2000
Civil Engineer

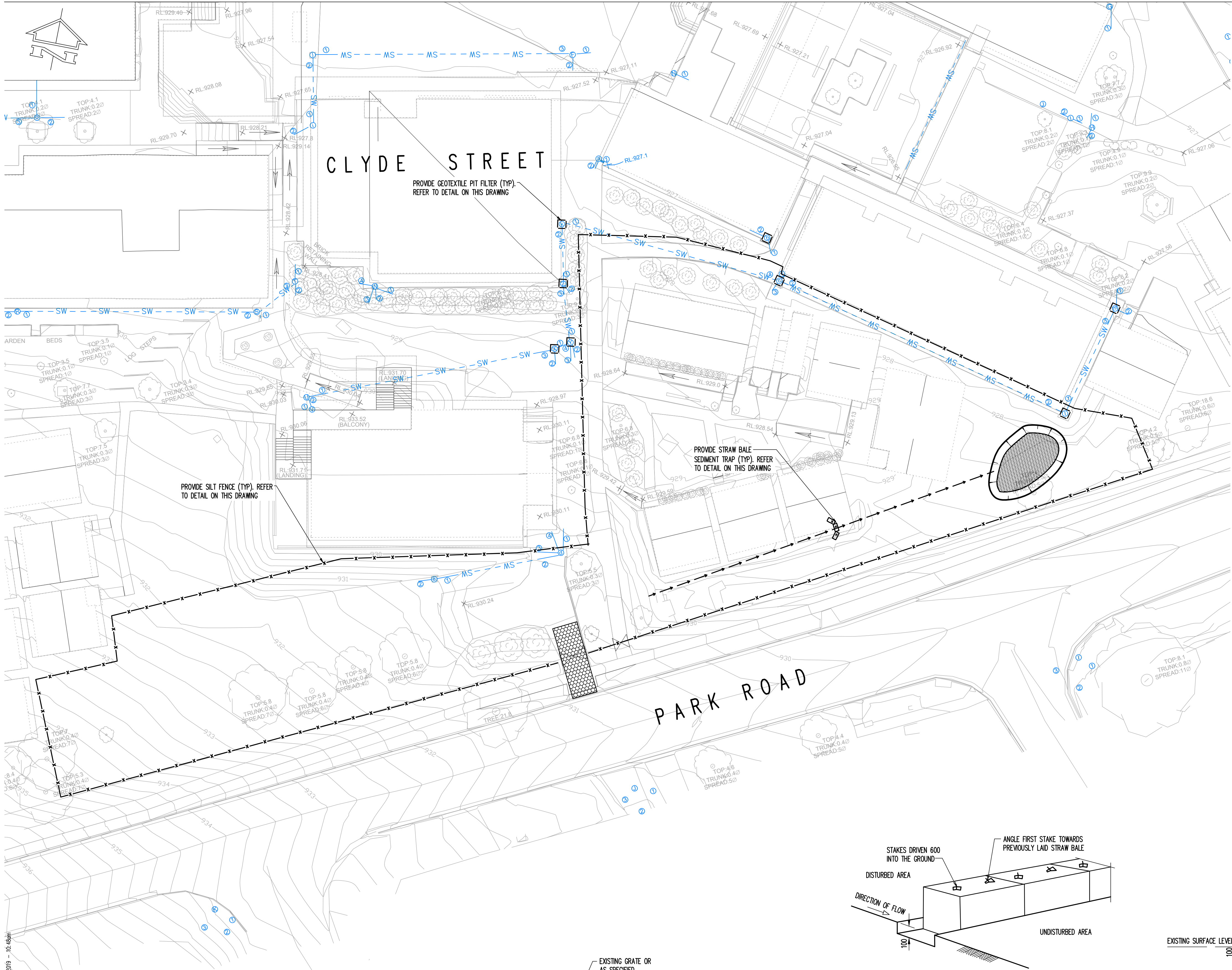


612 9439 7288 | 48 Chandos Street St Leonards NSW 2055

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	AI	

Job No	Drawing No	Revision
181098	J-SKC01	P2

Plot File Created: Apr 11, 2019 - 10:48am



EROSION AND SEDIMENT CONTROL NOTES

1. All work shall be generally carried out in accordance with:
(A) Local authority requirements,
(B) EPA – Pollution control manual for urban stormwater,
(C) LANDCOM NSW – Managing Urban Stormwater: Soils and Construction ("Blue Book").
2. Erosion and sediment control drawings and notes are provided for the whole of the works. Should the Contractor stage these works then the design may be required to be modified. Variation to these details may require approval by the relevant authorities. The erosion and sediment control plan shall be implemented and adapted to meet the varying situations as work on site progresses.
3. Maintain all erosion and sediment control devices to the satisfaction of the superintendent and the local authority.
4. When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.
5. Minimise the area of site being disturbed at any one time.
6. Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses.
7. All soil and water control measures are to be put back in place at the end of each working day, and modified to best suit site conditions.
8. Control water from upstream of the site such that it does not enter the disturbed site.
9. All construction vehicles shall enter and exit the site via the temporary construction entry/exit.
10. All vehicles leaving the site shall be cleaned and inspected before leaving.
11. Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event.
12. Clean out all erosion and sediment control devices after each storm event.

Sequence Of Works

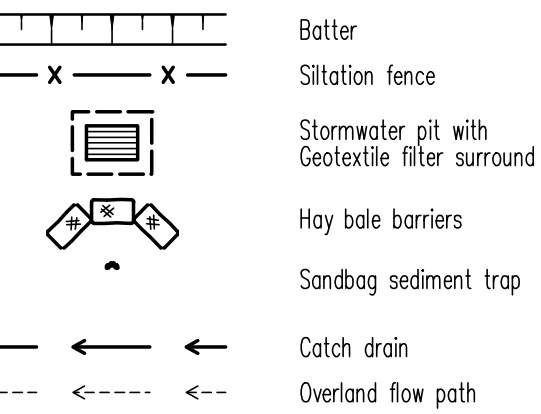
1. Prior to commencement of excavation the following soil management devices must be installed.
- 1.1. Construct silt fences below the site and across all potential runoff sites.
- 1.2. Construct temporary construction entry/exit and divert runoff to suitable control systems.
- 1.3. Construct measures to divert upstream flows into existing stormwater system.
- 1.4. Construct sedimentation traps/basin including outlet control and overflow.
- 1.5. Construct turf lined swales.
- 1.6. Provide sandbag sediment traps upstream of existing pits.
2. Construct geotextile filter pit surround around all proposed pits as they are constructed.
3. On completion of pavement provide sand bag kerb inlet sediment traps around pits.
4. Provide and maintain a strip of turf on both sides of all roads after the construction of kerbs.

WATER QUALITY TESTING REQUIREMENTS

Prior to discharge of site stormwater, groundwater and seepage water into council's stormwater system, contractors must undertake water quality tests in conjunction with a suitably qualified environment consultant outlining the following:

- Compliance with the criteria of the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000)
- If required subject to the environmental consultants advice, provide remedial measures to improve the quality of water that is to be discharged into Councils storm water drainage system. This should include comments from a suitably qualified environmental consultant confirming the suitability of these remedial measures to manage the water discharged from the site into Councils storm water drainage system. Outlining the proposed, ongoing monitoring, contingency plans and validation program that will be in place to continually monitor the quality of water discharged from this site. This should outline the frequency of water quality testing that will be undertaken by a suitably qualified environmental consultant.

EROSION AND SEDIMENT CONTROL LEGEND



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P2	FOR APPROVAL	GC	AI	11.04.19
P1	FOR APPROVAL	GC	AI	22.03.19
Rev	Description	Eng	Draft	Date
Project				
JINDABYNE CENTRAL SCHOOL LEARNING BUILDING AND CARPARK				

CONCEPT EROSION & SEDIMENT CONTROL PLAN & DETAILS

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Civil Engineer

TTW Taylor Thomson Whitting
612 9439 7288 | 48 Chandos Street St Leonards NSW 2055

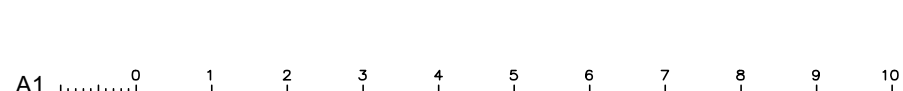
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Job No
181098
Drawing No
J-SKC02
Revision
P2

Plot File Created: Apr 11, 2019 - 10:48am

Filename: J-SKC02.dwg - USER: dani - Plot File Created: Apr 11, 2019 - 10:48am

TEMPORARY CONSTRUCTION VEHICLE EXIT



GEOTEXTILE PIT FILTER

NTS

SILTATION FENCE DETAIL

SCALE 1: 20

HAY BALE SEDIMENT FILTER

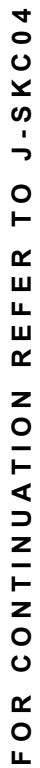
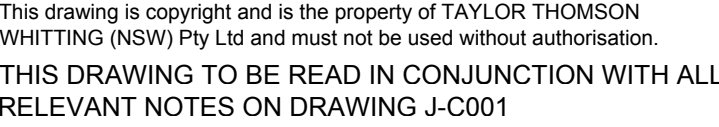
NTS

TYPICAL SECTION THROUGH CATCH DRAIN

SCALE 1: 20

SEDIMENTATION TRAP

NTS



Project JIJINDABYNE CENTRAL SCHOOL LEARNING BUILDING AND CARPARK

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Civil Engineer

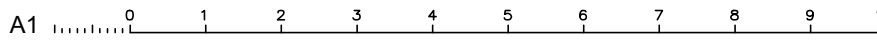


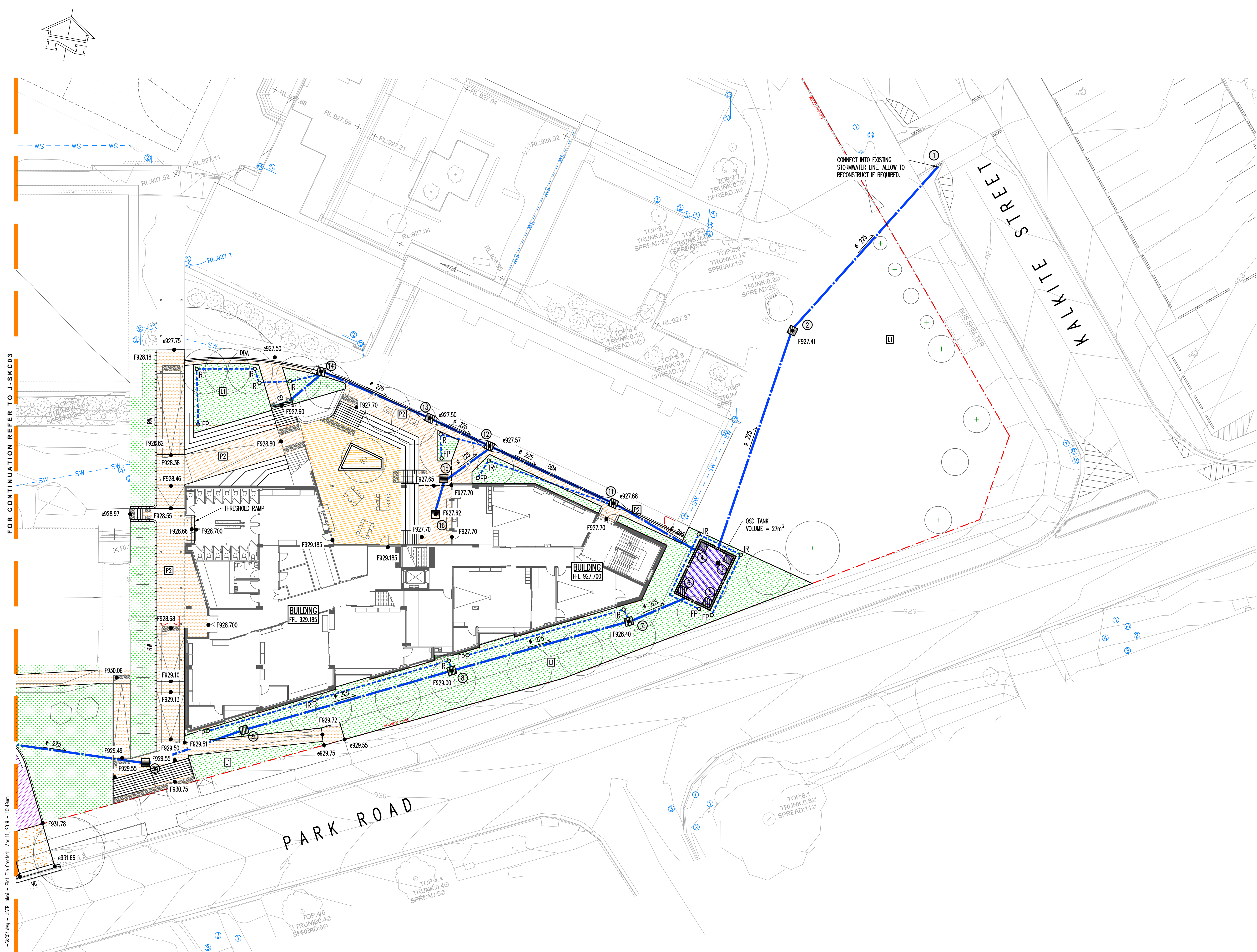
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Job No	Drawing No	Revision
181098	J-SKC03	P3

Plot File Created: Apr 11, 2019 - 10:48am

NOTE: PROPOSED PAVEMENT EXTENT TO BE CONFIRMED WITH DETAILED SURVEY

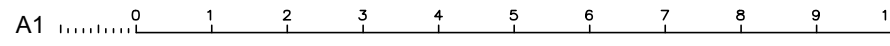




FOR CONTINUATION REFER TO J-SKC03

Filename: J-SKC04.dwg - USER: aai - Plot File Created: Apr 11, 2019 - 10:49am

NOTE: PROPOSED PAVEMENT EXTENT TO BE CONFIRMED WITH DETAILED SURVEY



P2	FOR APPROVAL	GC	AI	11.04.19
P1	FOR APPROVAL	GC	AI	22.03.19
Rev	Description	Eng	Draft	Date
Project				

JINDABYNE CENTRAL SCHOOL
LEARNING BUILDING AND
CARPARK

Sheet Subject
CONCEPT SITEWORKS PLAN
SHEET 2

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Thomson
Whitting

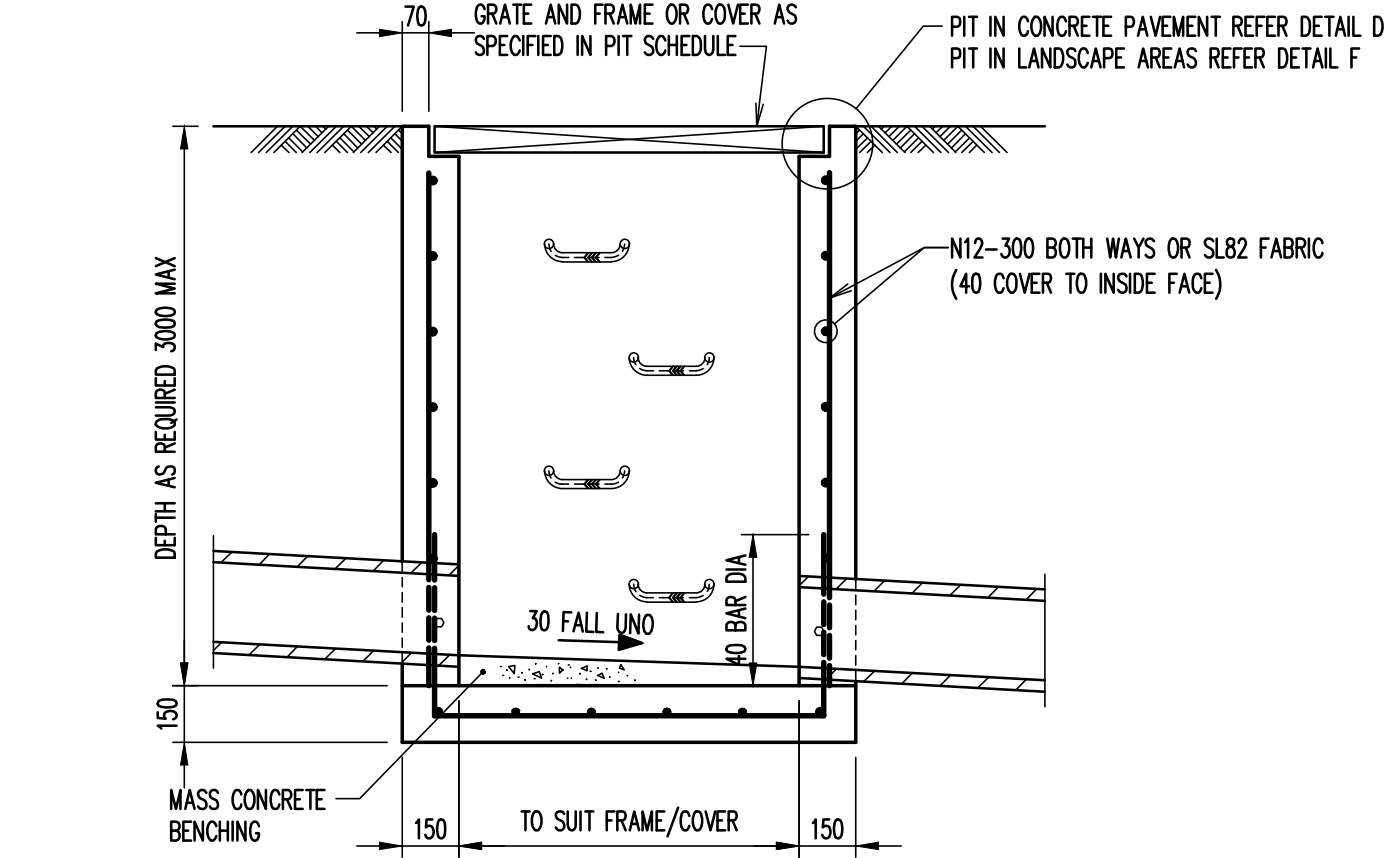
612 9439 7288 | 48 Chandos Street St Leonards NSW 2055

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Job No Drawing No Revision
181098 J-SKC04 P2

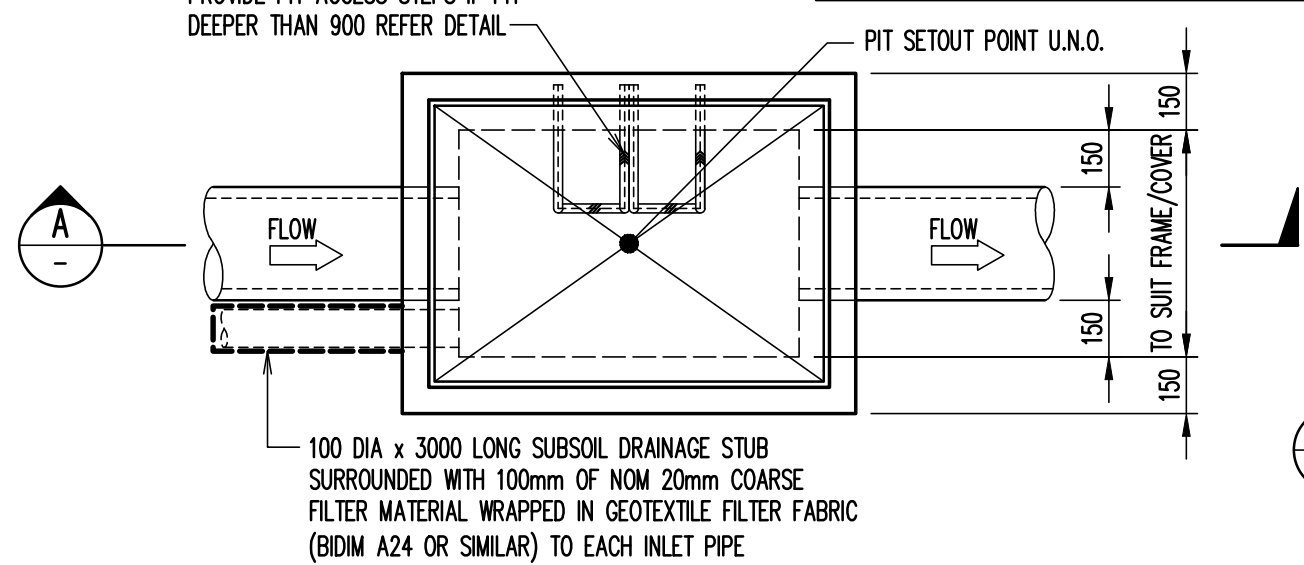
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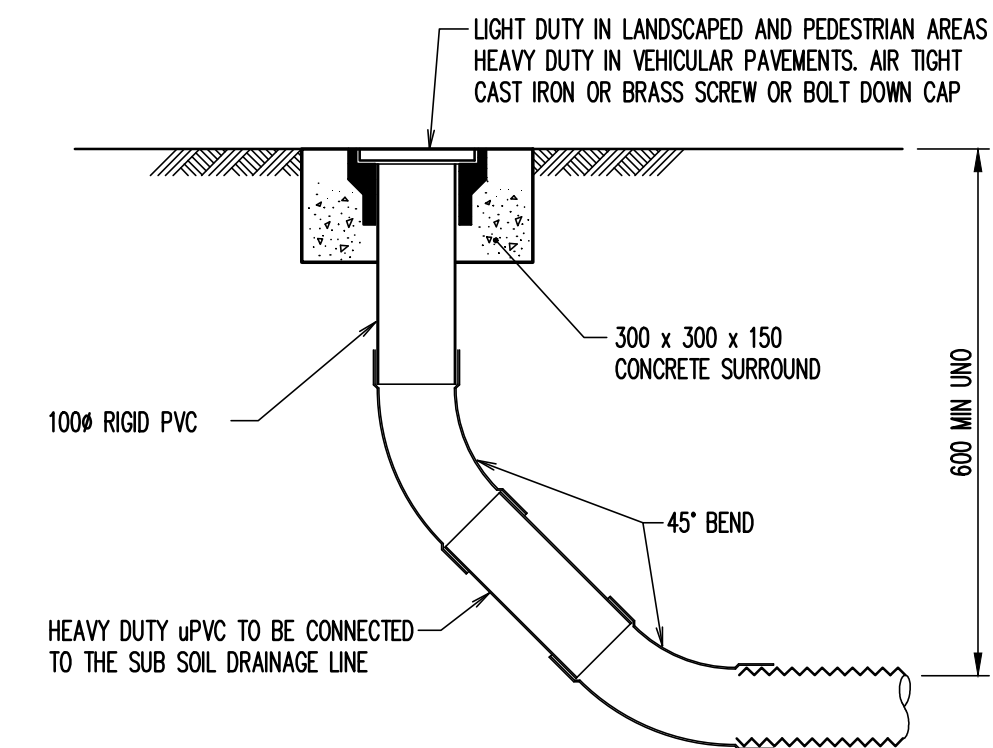
SECTION A
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NOTE: IF REINFORCING FABRIC IS TO BE USED REFER TO WALL AND CORNER DETAILS



PLAN
SCALE 1:20

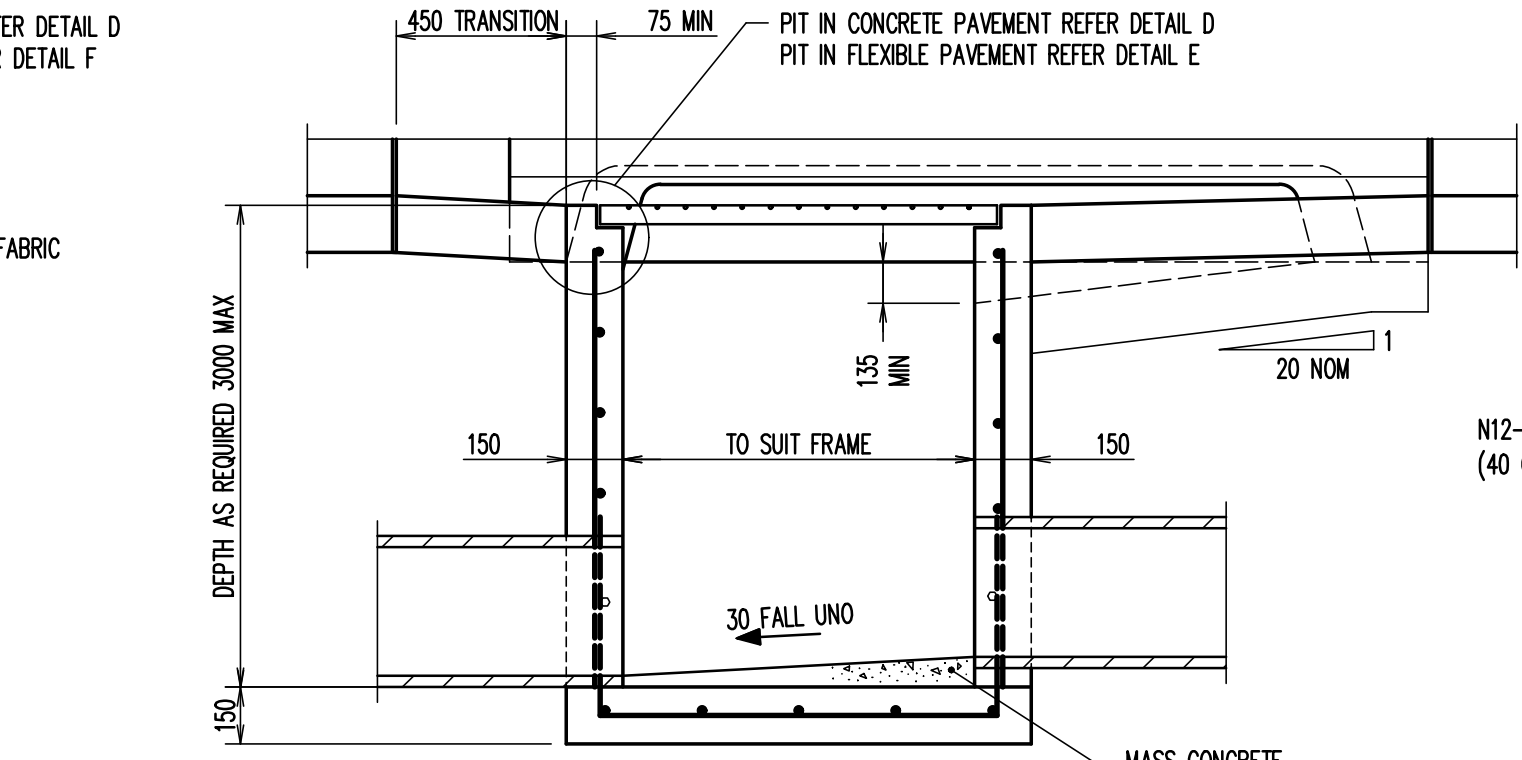
PIT TYPE A



FLUSHING POINT (FP)

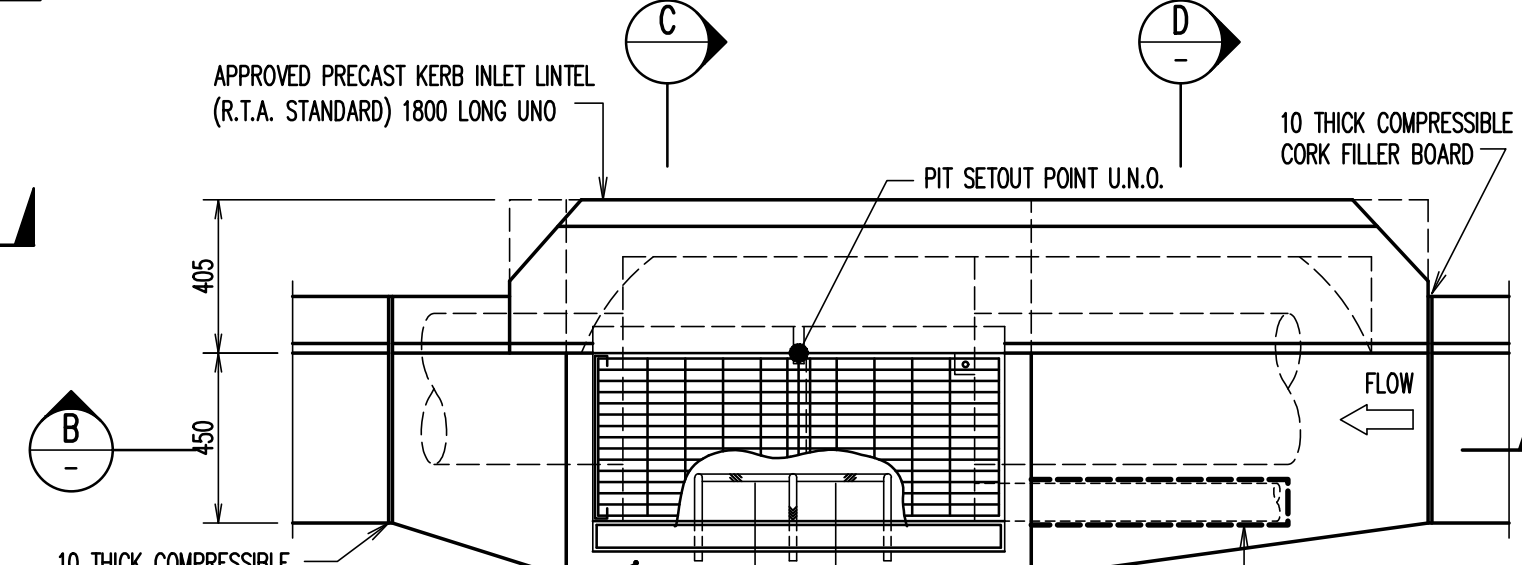
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NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



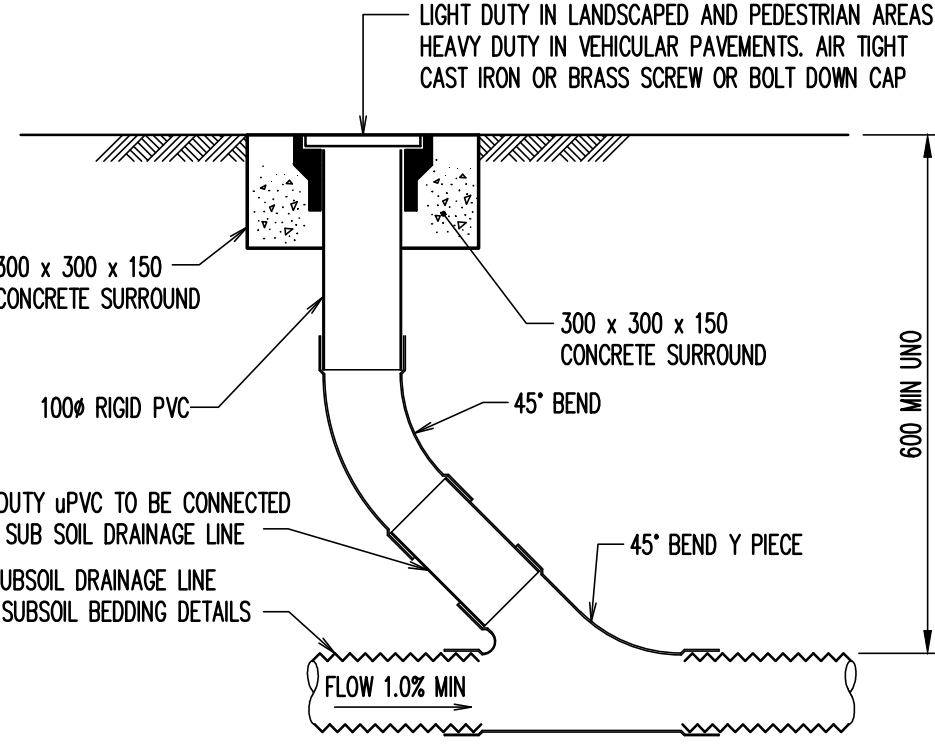
SECTION B
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NOTE: IF REINFORCING FABRIC IS TO BE USED REFER TO WALL AND CORNER DETAILS



PIT TYPE B

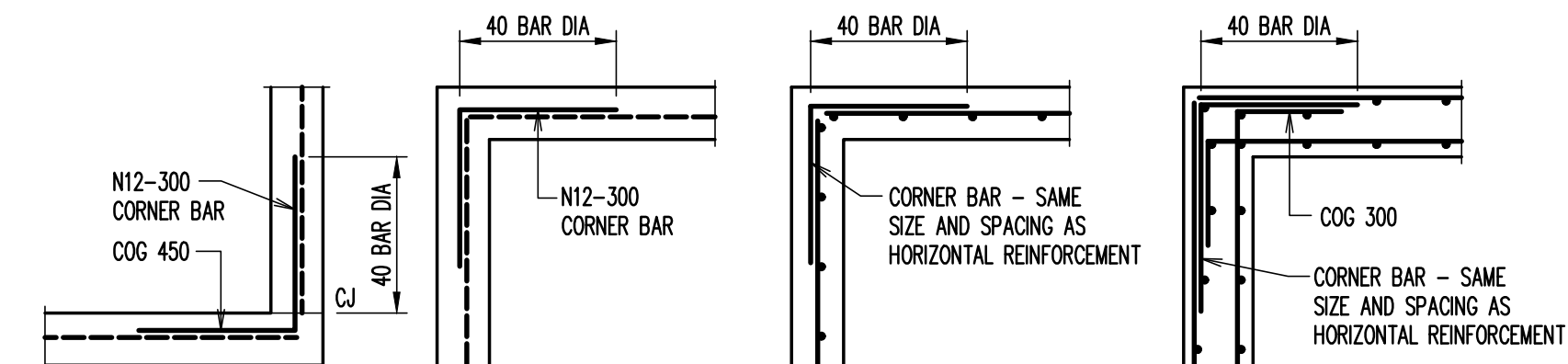
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INTERMEDIATE RISER (IR)

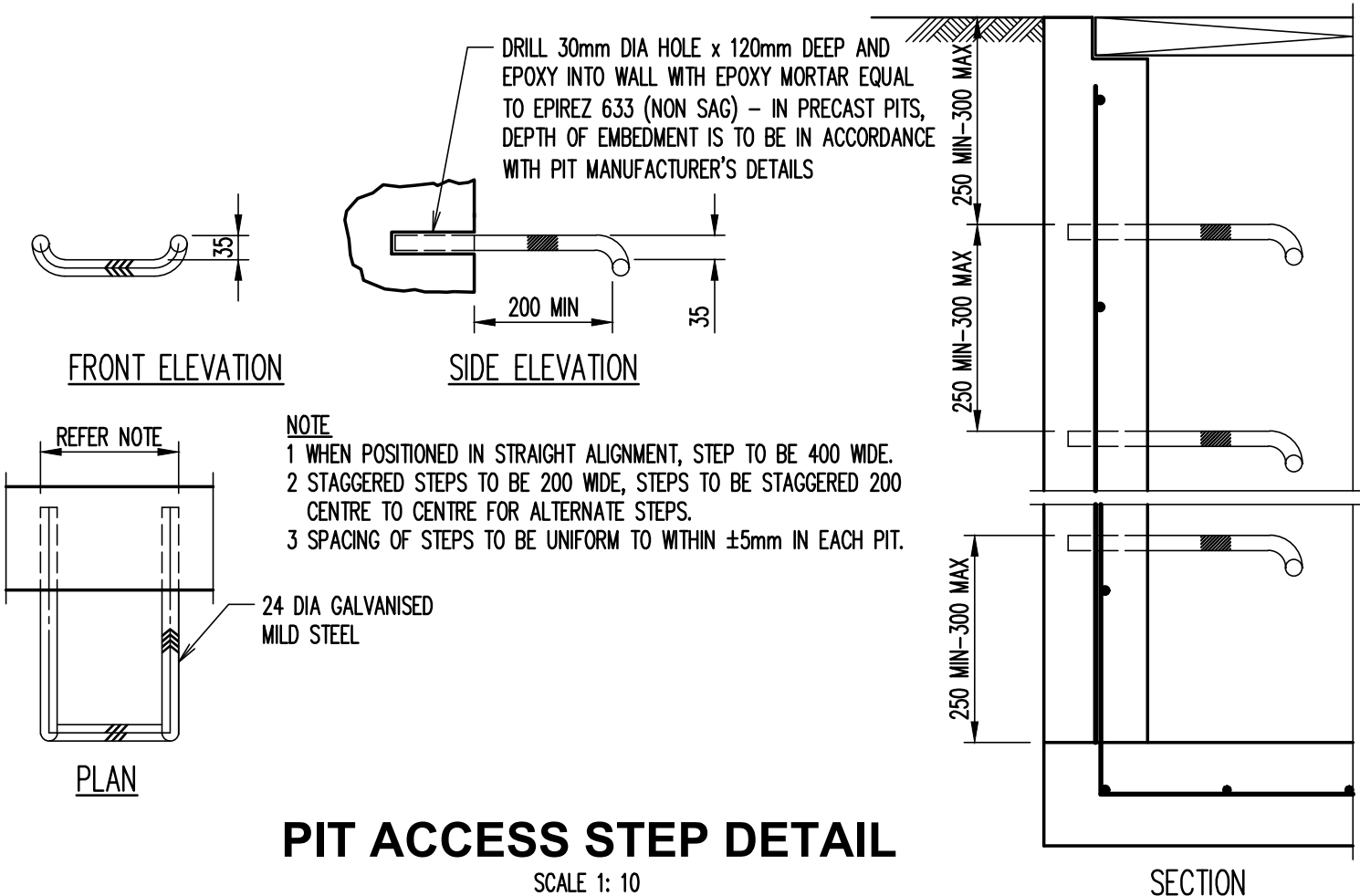
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NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



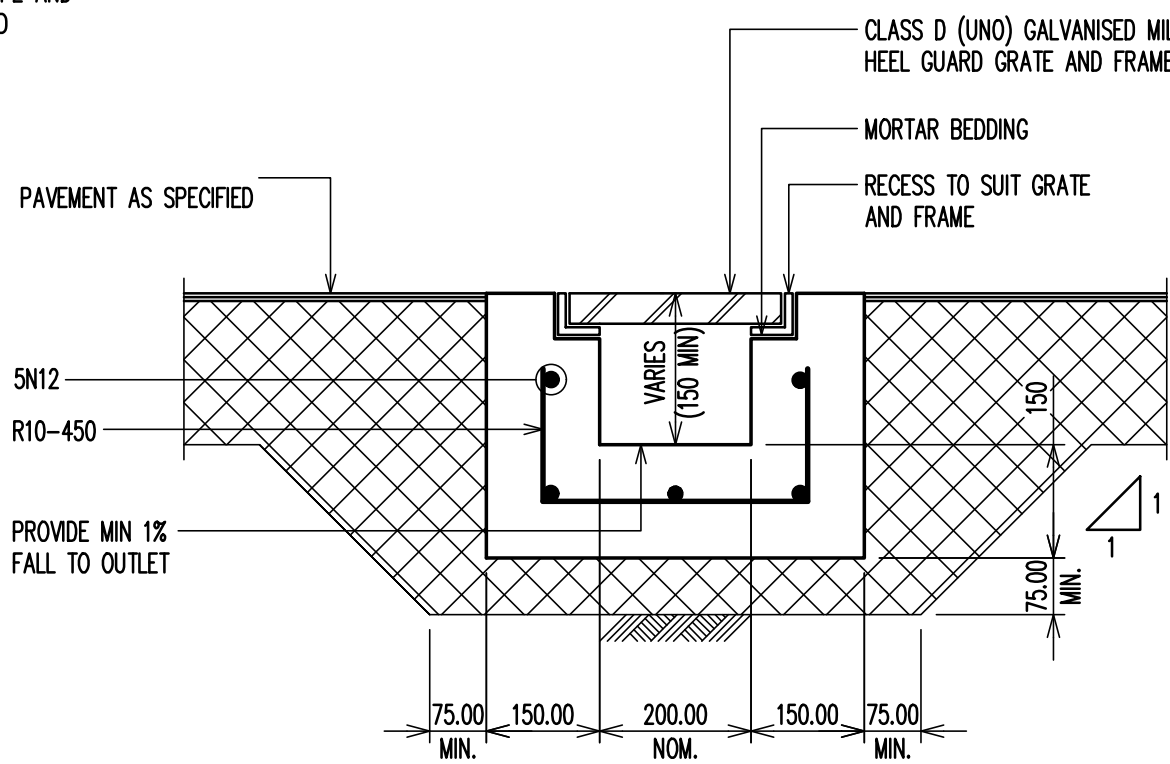
PIT CORNER DETAILS

SCALE 1:20



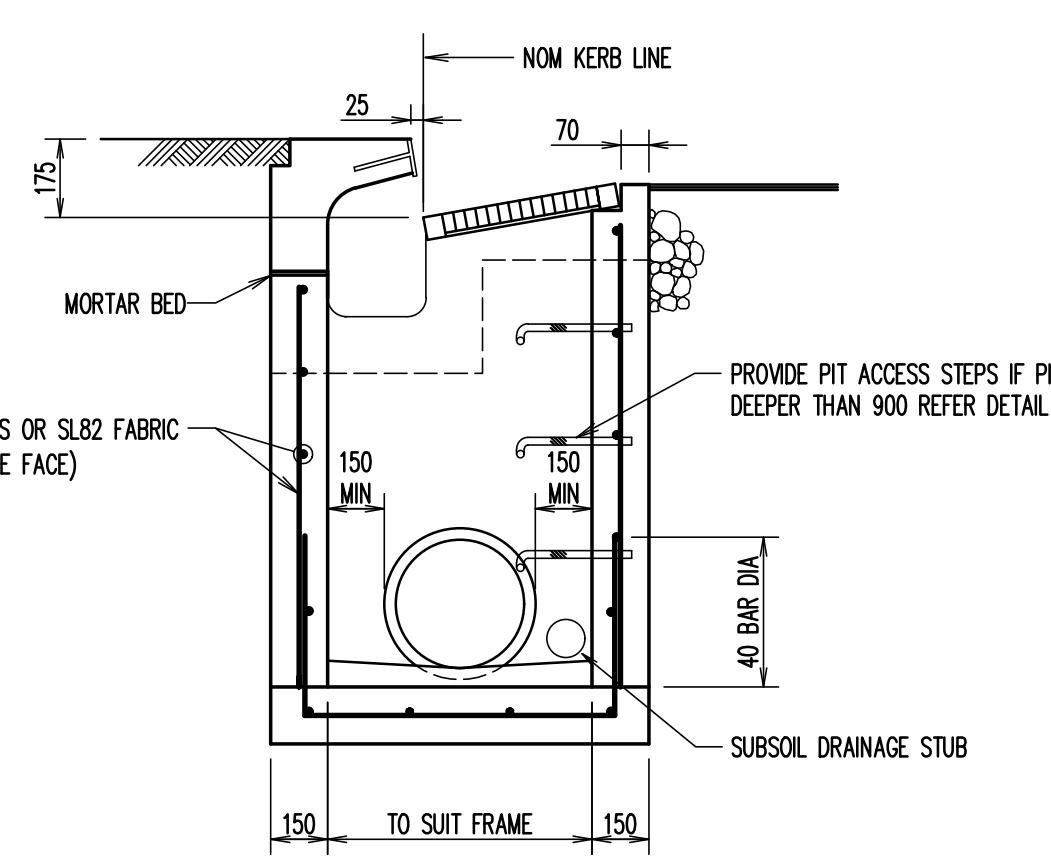
PIT ACCESS STEP DETAIL

SCALE 1:10

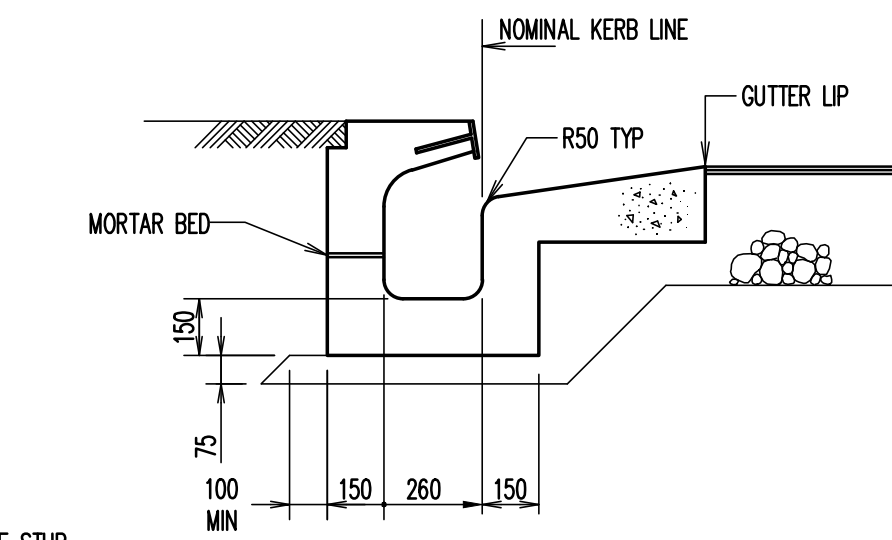


GRATED DRAIN (GD)

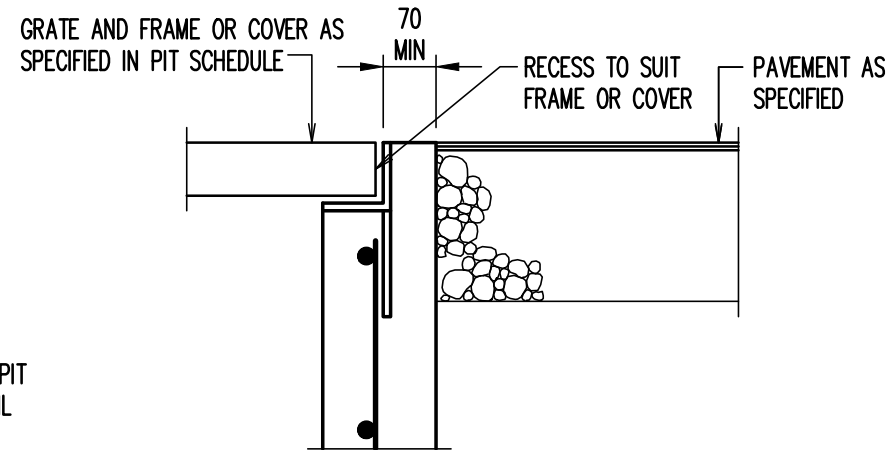
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SECTION C
SCALE 1:20

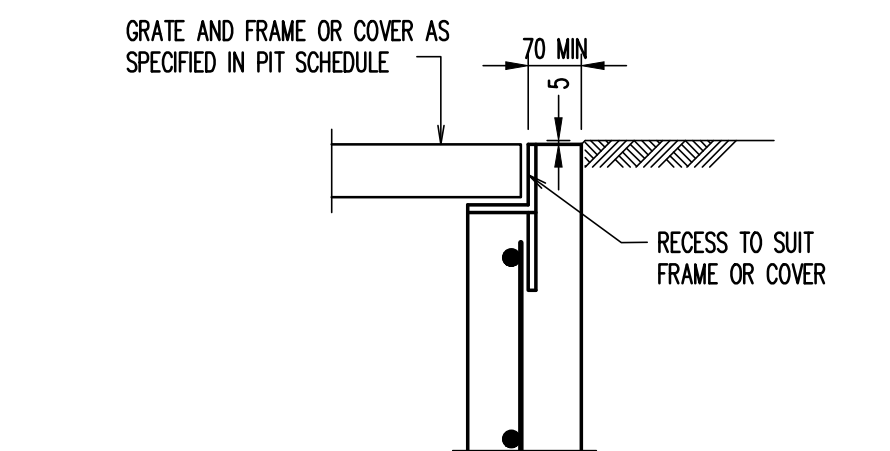


SECTION D
SCALE 1:20



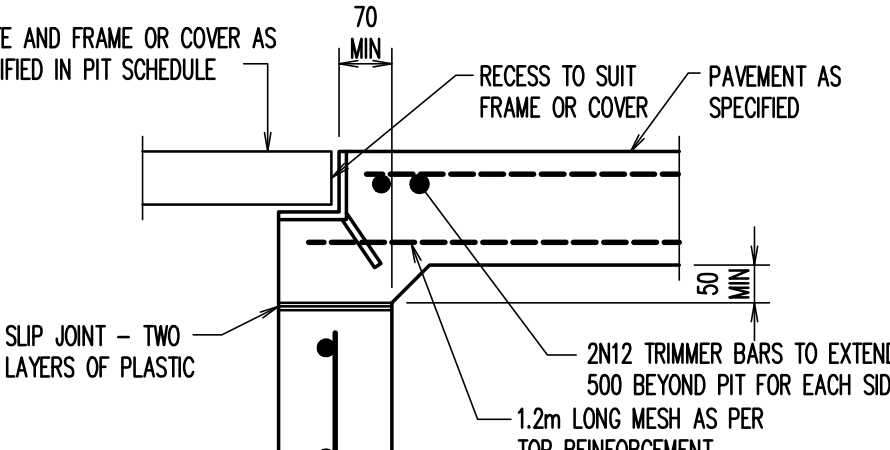
DETAIL E

SCALE 1:10



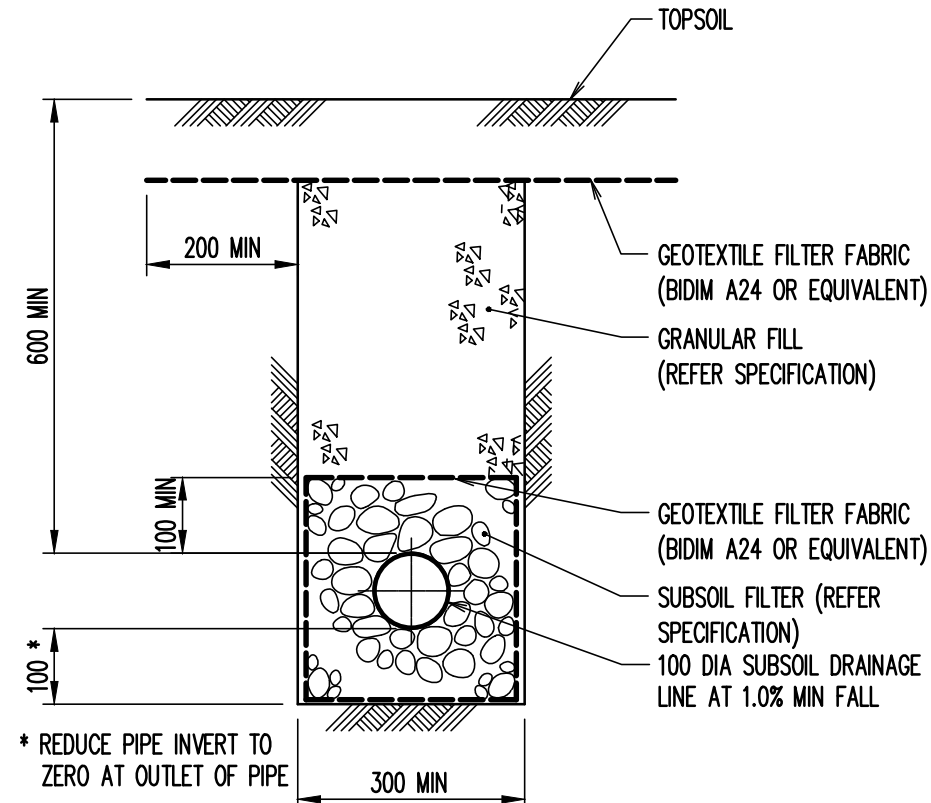
DETAIL F

SCALE 1:10



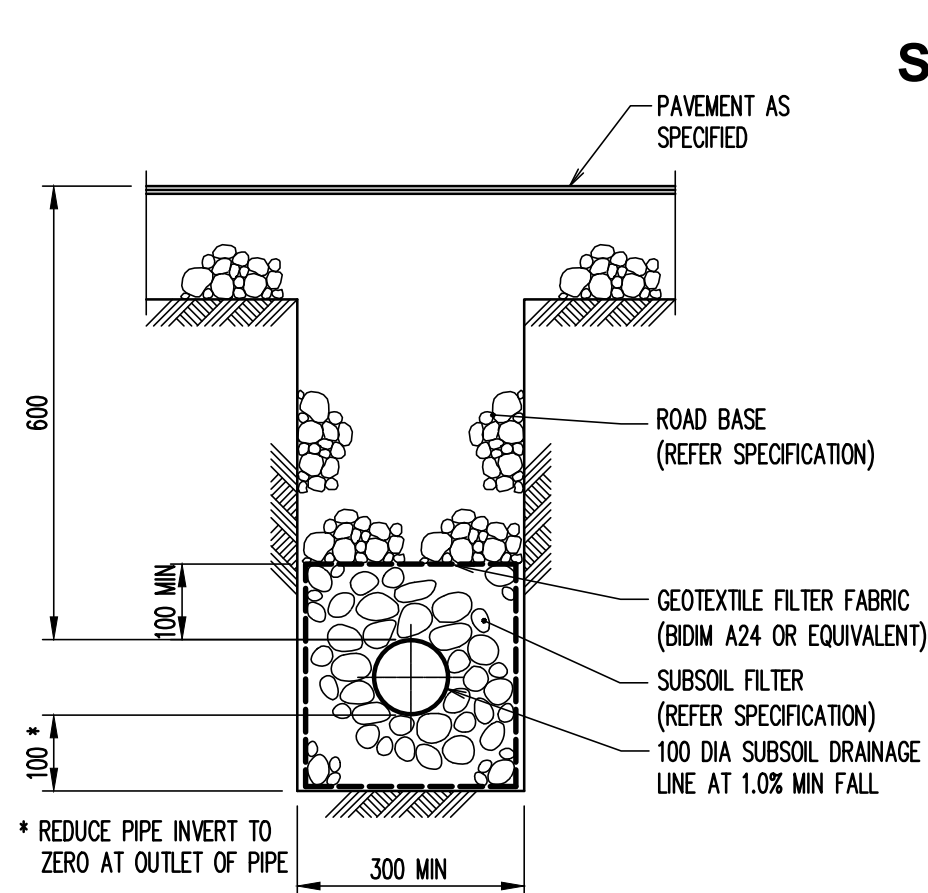
DETAIL D

SCALE 1:10



SUBSOIL IN LANDSCAPED AREAS

SCALE 1:10



SUBSOIL IN PAVED AREAS

SCALE 1:10

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P2	FOR APPROVAL	GC	AI	11.04.19
P1	FOR APPROVAL	GC	AI	22.03.19
Rev	Description	Eng	Draft	Date

Project
**JINDABYNE CENTRAL SCHOOL
LEARNING BUILDING AND
CARPARK**

Sheet Subject
CONCEPT DETAILS SHEET 1

Architect
graypuksand
1/156 Clarence Street Sydney NSW 2000
Civil Engineer

TTW Taylor
Thomson
Whitting

612 9439 7288 | 48 Chandos Street St Leonards NSW 2055

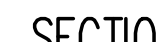
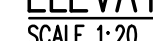
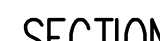
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Job No
181098

Drawing No
J-SKC05

Revision
P2

Plot File Created: Apr 11, 2019 - 10:49am



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RELEVANT NOTES ON DRAWING J-C001**

Project

JINDABYNE CENTRAL SCHOOL
LEARNING BUILDING AND
CARPARK

Sheet Subject

CONCEPT DETAILS SHEET 2

Architect

graypuksand

1/156 Clarence Street Sydney NSW 2000

17150 Clare
Civil Engineer

TTW Taylor
Thomson
Whitting

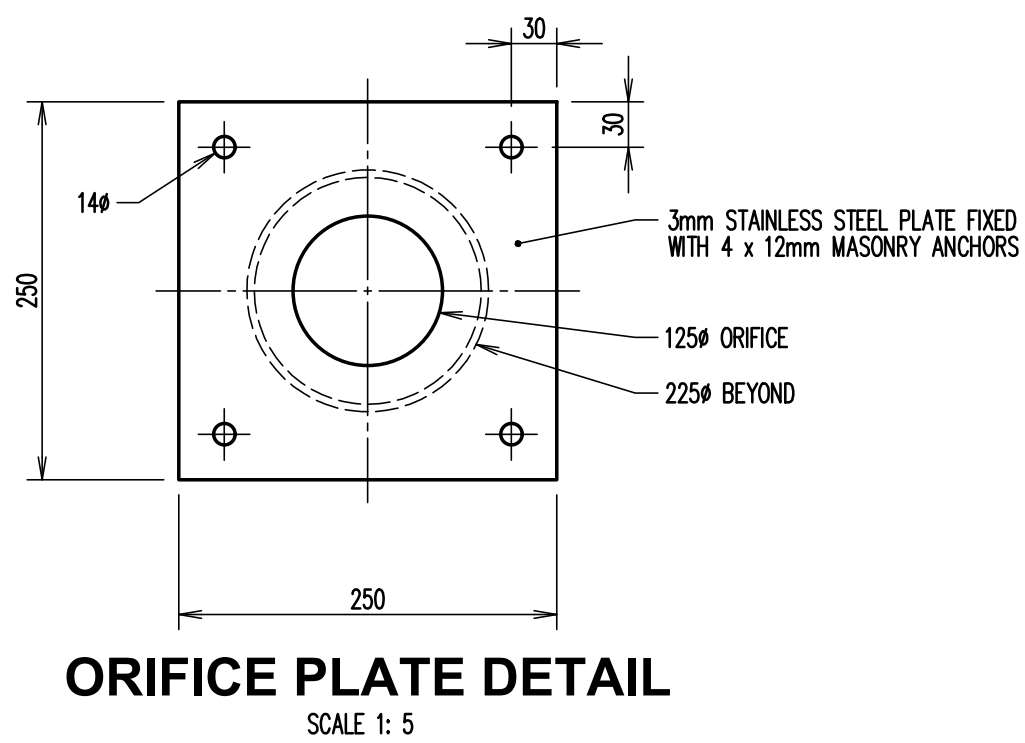
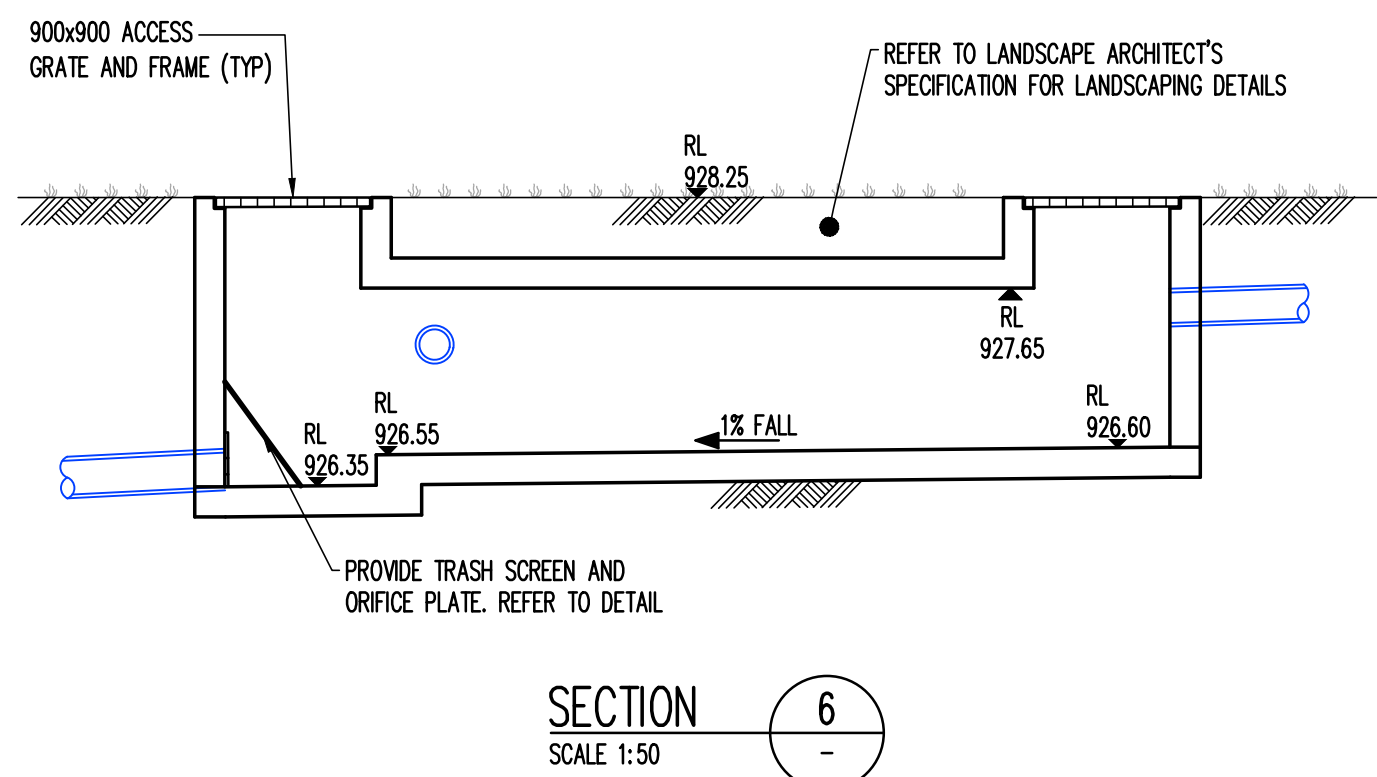
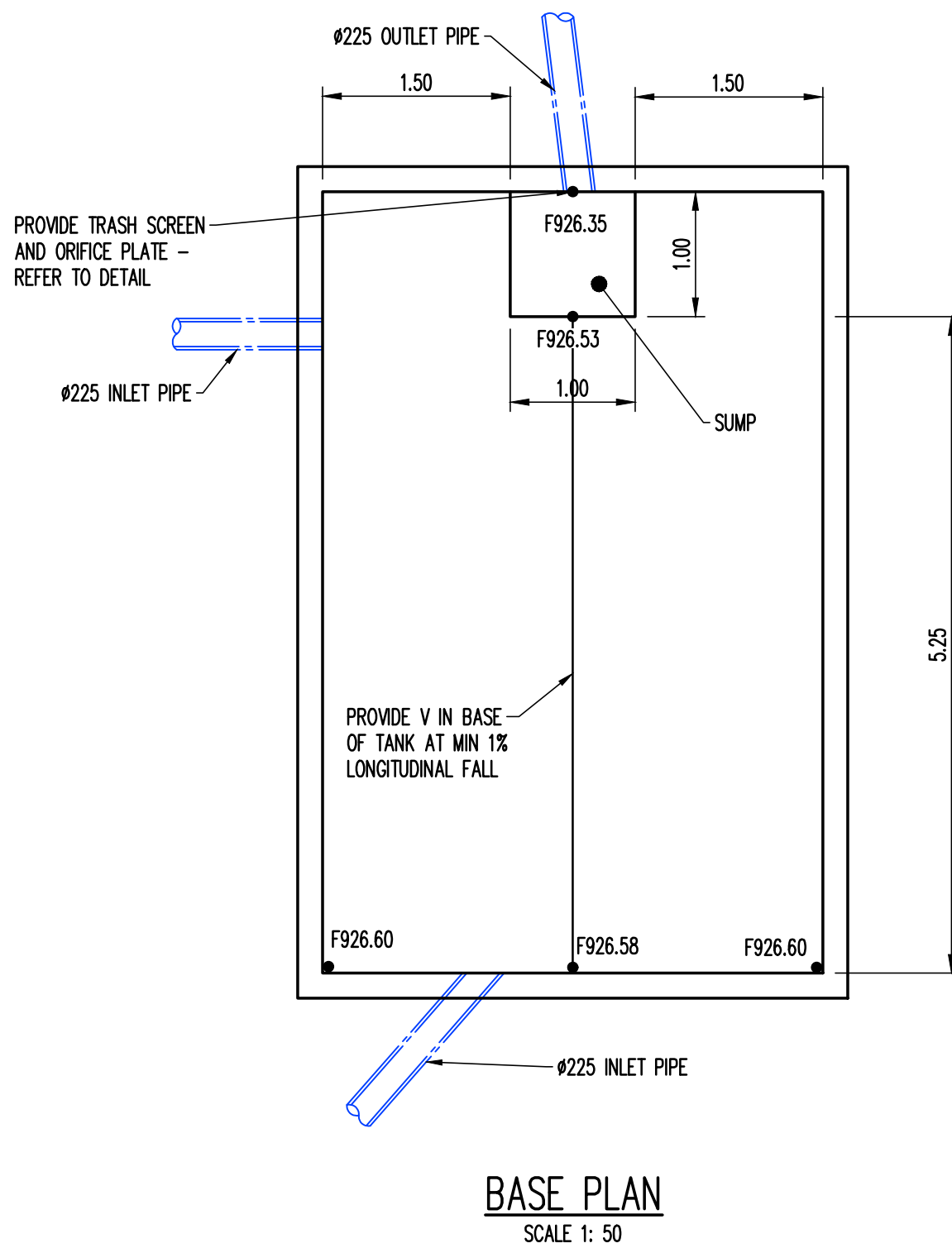
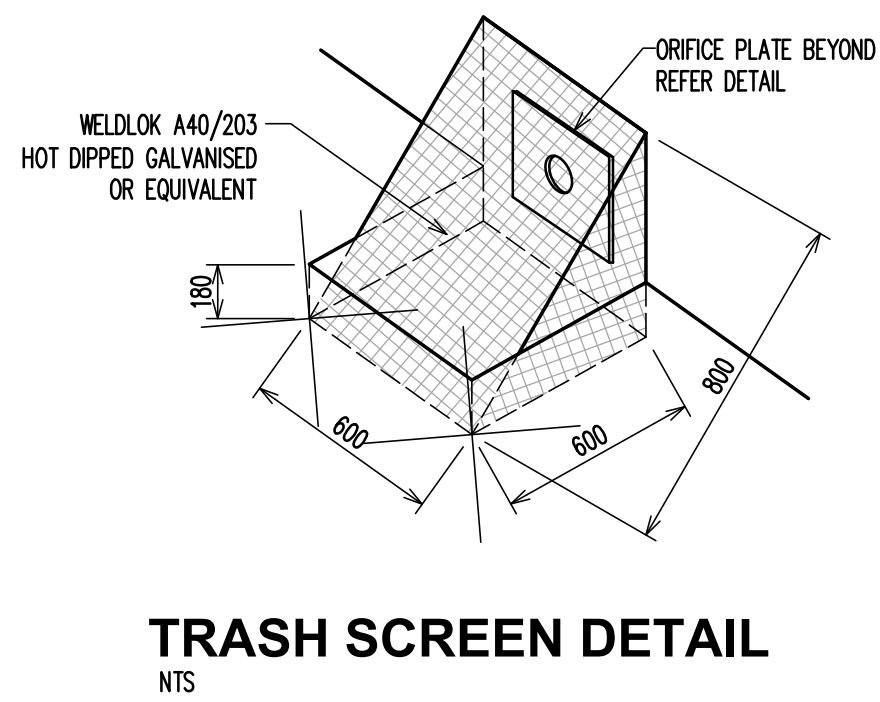
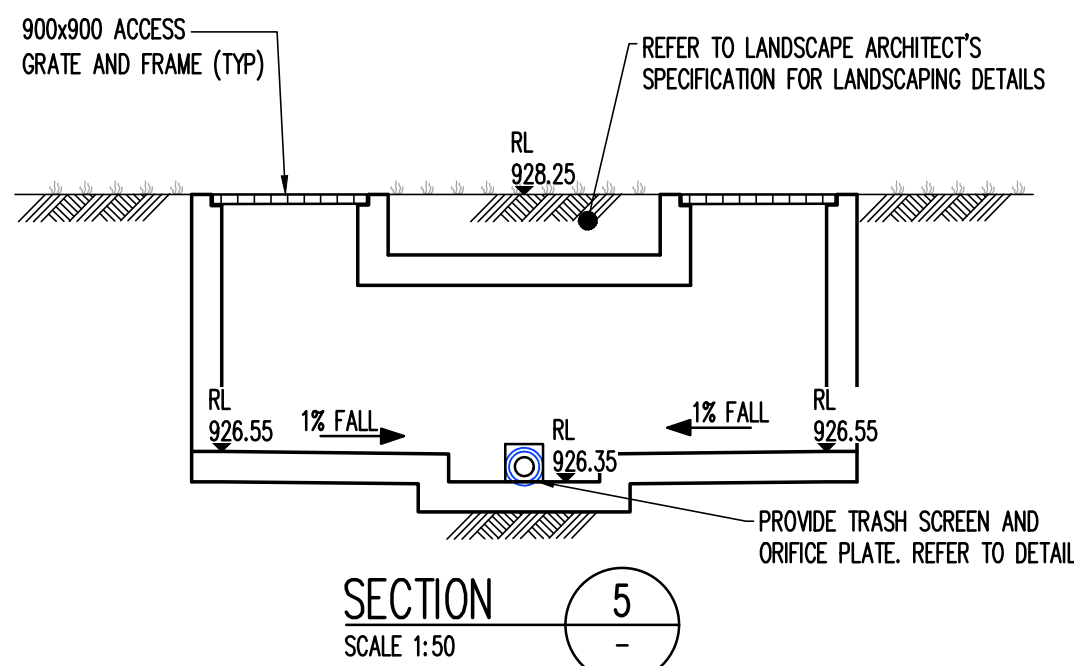
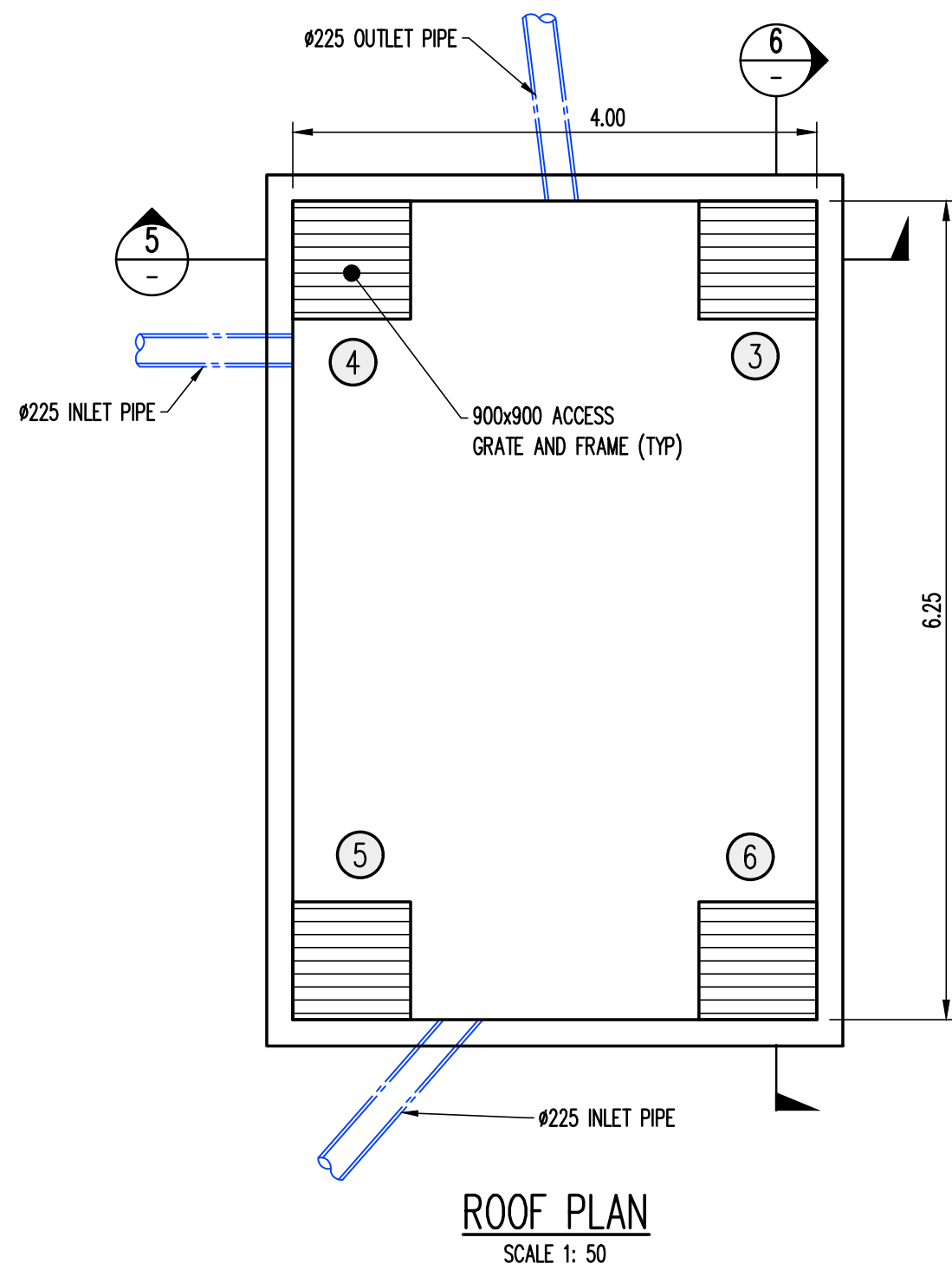
612 9439 7288 | 48 Chandos Street St Leonards NSW 206

Scale : A1	Drawn	Authorised
AS SHOWN	AI	

Job No.	Drawing No.	Revision
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181098 J-SKC06 P2

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P2	FOR APPROVAL	GC	AI	11.04.19
P1	FOR APPROVAL	GC	AI	22.03.19
Rev	Description	Eng	Draft	Date

Project

JINDABYNE CENTRAL SCHOOL

Sheet Subject

CONCEPT OSD TANK DETAILS SHEET

Architect

graypuksand

1/156 Clarence Street Sydney NSW 2000

Civil Engineer

TTW Taylor Thomson Whitting

612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Scale : A1 Drawn Authorised

AS SHOWN AI

Job No Drawing No Revision

181098 J-SKC07 P2

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