

# SCEGGS DARLINGHURST MASTERPLAN

## CIVIL WORKS

**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
TKD	PROPOSED SITE PLAN	AR.MP.1104	P3	10.11.17
RYGATE	SURVEY	78629		20.08.18

**PIT SCHEDULE**

Note: Grate size does not necessarily reflect pit size, refer pit type details, shown on detail sheets - C???.  
Final internal pit dimensions are to comply with AS3500

Type	Description	Cover (Clear Opening)	Number
A	Kerb inlet pit 1800 linted	450 x 900 Class D galvanised mild steel grate hinged to frame	????????
B	Surface inlet pit	600 x 900 Class D galvanised mild steel grate hinged to frame	????????
C	Junction pit	600 x 900 Class D galvanised mild steel grate with concrete in-fill	????????
D	Existing pit to be demolished and removed		????????
E	Existing pit to remain		????????

**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

**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 = 21.7 mm
    - 5% AEP = 16.7 mm
  - Rainfall losses -
    - Impervious areas: IL = 1.5 mm , CL = 0 mm/hr
    - Pervious areas: IL = 19.6 mm , CL = 1.6 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 shall be sewer grade uPVC with solvent welded joints.
- 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
- Enlargers, connections and junctions to be manufactured fittings where pipes are less than 300 dia.
- Where subsail drains pass under floor slabs and vehicular pavements, unslotted uPVC sewer grade pipe is to be used. Grates and covers shall conform with AS 3996-2006, 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 levels of stormwater lines. Grades shown are not to be reduced without approval.
- All stormwater pipes to be 150 dia at 1.0% min fall U.N.O.
- Subsail drains to be slotted flexible uPVC U.N.O.
- Adopt invert levels for pipe installation (grades shown are only nominal).

**SURVEY AND SERVICES INFORMATION**

Origin of levels : RL 23.868m A.H.D  
Datum of levels : A.H.D. AUSTRALIAN HEIGHT DATUM  
Coordinate system : ISG OR MGA OR LOCAL  
Survey prepared by :  
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.

**DBYD SERVICES NOTE**

"Public Service Utility information shown on plan has been compiled from information received from Dial Before You Dig inquiry, reference Number 14602954, which was obtained on 19/07/18. Unless specifically shown otherwise, this location and depth of services shown on this plan have not been verified.

The location of services shown on this drawing have been plotted as accurately as possible from diagrams provided by service authorities and should be confirmed by site inspection."

**EROSION AND SEDIMENT CONTROL NOTES**

- All work shall be generally carried out in accordance with
  - Local authority requirements,
  - EPA - Pollution control manual for urban stormwater,
  - LANDCOM NSW - Managing Urban Stormwater: Soils and Construction ("Blue Book").
- 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.
- Maintain all erosion and sediment control devices to the satisfaction of the superintendent and the local authority.
- When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.
- Minimise the area of site being disturbed at any one time.
- Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses.
- 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.
- Control water from upstream of the site such that it does not enter the disturbed site.
- All construction vehicles shall enter and exit the site via the temporary construction entry/exit.
- All vehicles leaving the site shall be cleaned and inspected before leaving.
- Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event.
- Clean out all erosion and sediment control devices after each storm event.

**Sequence Of Works**

- Prior to commencement of excavation the following soil management devices must be installed.
  - Construct silt fences below the site and across all potential runoff sites.
  - Construct temporary construction entry/exit and divert runoff to suitable control systems.
  - Construct measures to divert upstream flows into existing stormwater system.
  - Construct sedimentation traps/basin including outlet control and overflow.
  - Construct turf lined swales.
  - Provide sandbag sediment traps upstream of existing pits.
  - Construct geotextile filter pit surround around all proposed pits as they are constructed.
- On completion of pavement provide sand bag kerb inlet sediment traps around pits.
- 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 environmental 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.

**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.

**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 DOUGLAS PARTNERS (JOB NO. 45427 APRIL 2008) 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 DOUGLAS PARTNERS (JOB NO. 45427 APRIL 2008) 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**

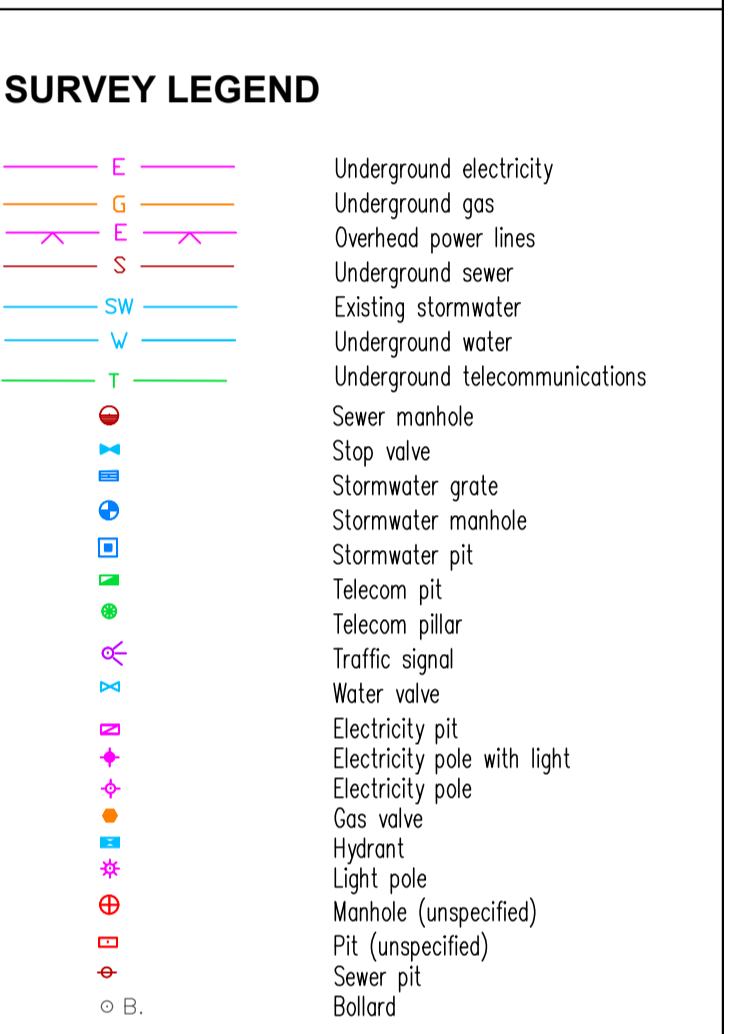
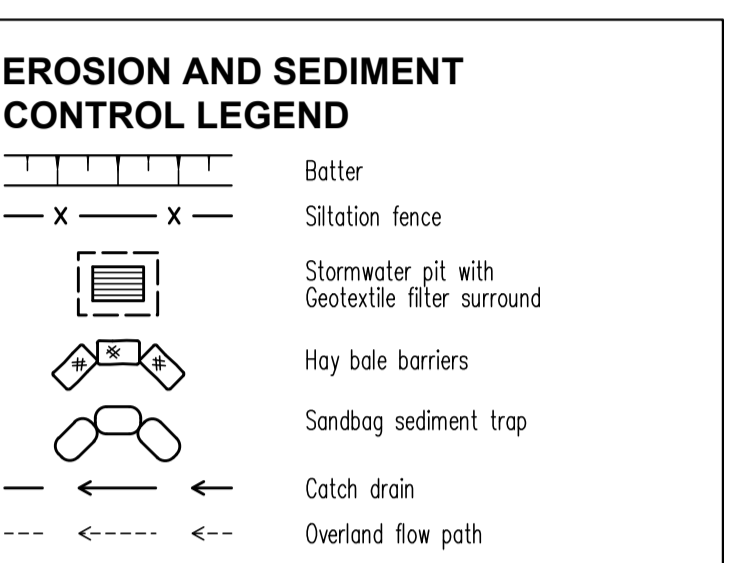
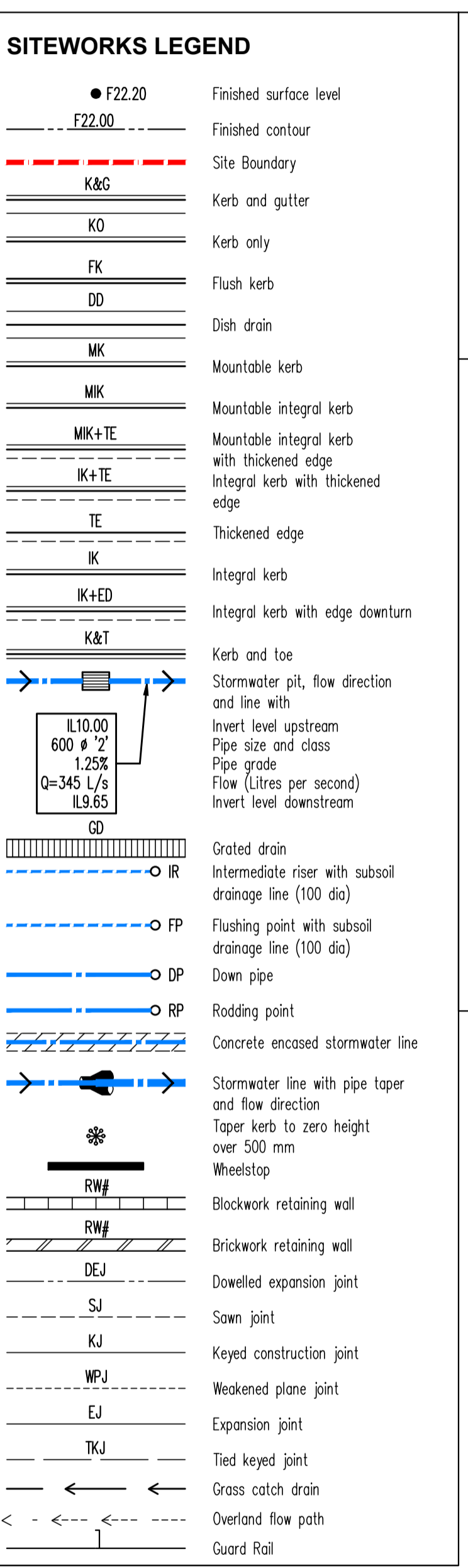
Contractor to ensure appropriate measures are taken to prevent pollutants from construction works contaminating the surrounding environment.

**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.



**DRAWING SCHEDULE**

Drawing No.	Drawing Title
C01	NOTES AND LEGEND SHEET
C02	EROSION AND SEDIMENT CONTROL PLAN
C03	EXISTING SERVICES PLAN
C05	SITeworks AND STORMWATER PLAN
C10	DETAIL SHEET 1
C11	DETAIL SHEET 2

**PRELIMINARY**

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
P1	PRELIMINARY		DU	DU	19.10.18									

Architect  
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Project  
SCEGGS DARLINGHURST MASTER PLAN

Sheet Subject  
NOTES AND LEGEND SHEET

Scale : A1  
NTS

Drawn  
AS

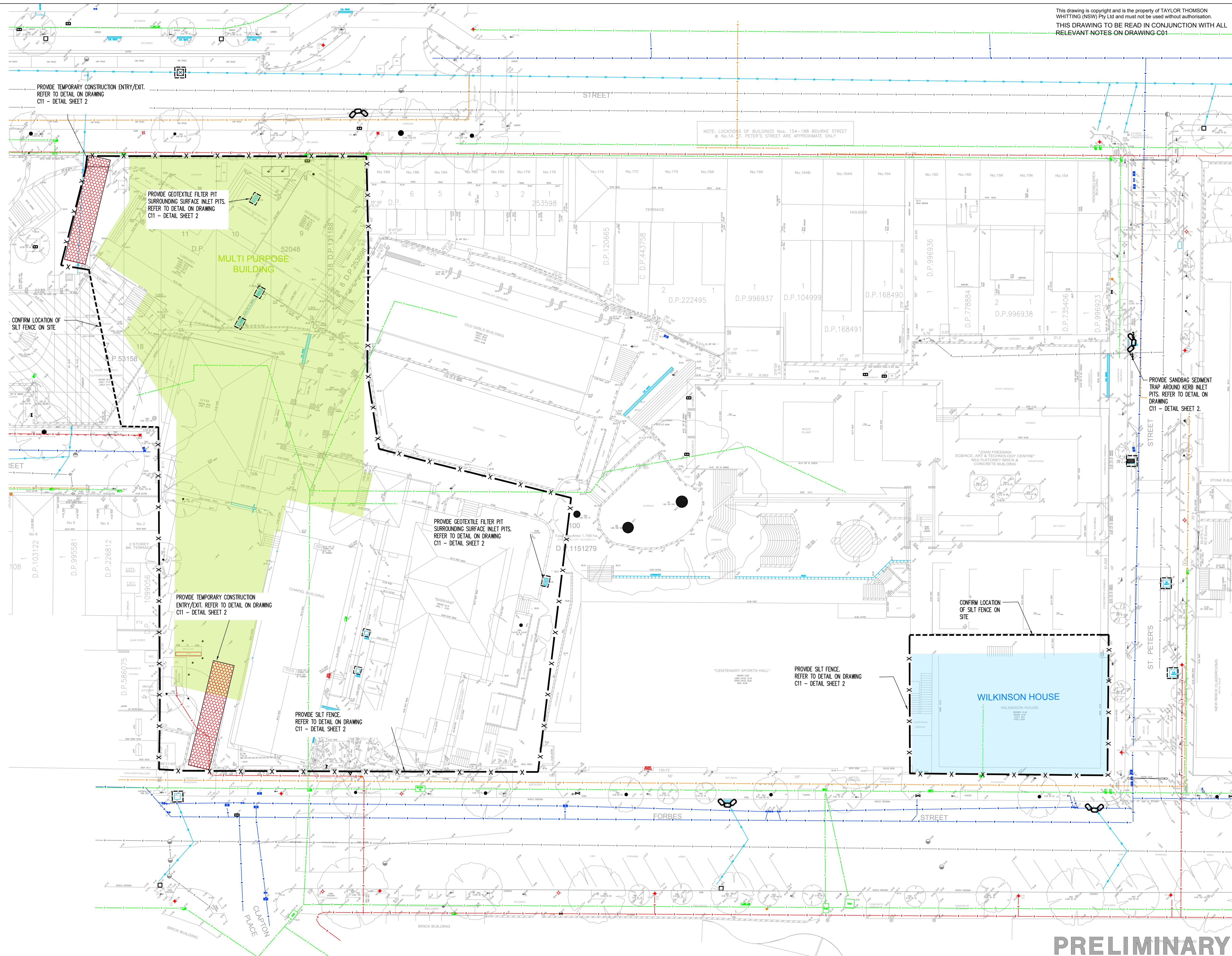
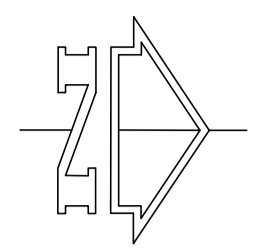
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Job No  
181375

Drawing No  
C01

Revision  
P1

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**EROSION AND SEDIMENT CONTROL LEGEND**

- Batter
- Siltation fence
- Stormwater pit with Geotextile filter surround
- Hay bale barriers
- Sandbag sediment trap
- Catch drain
- Overland flow path

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**PRELIMINARY**

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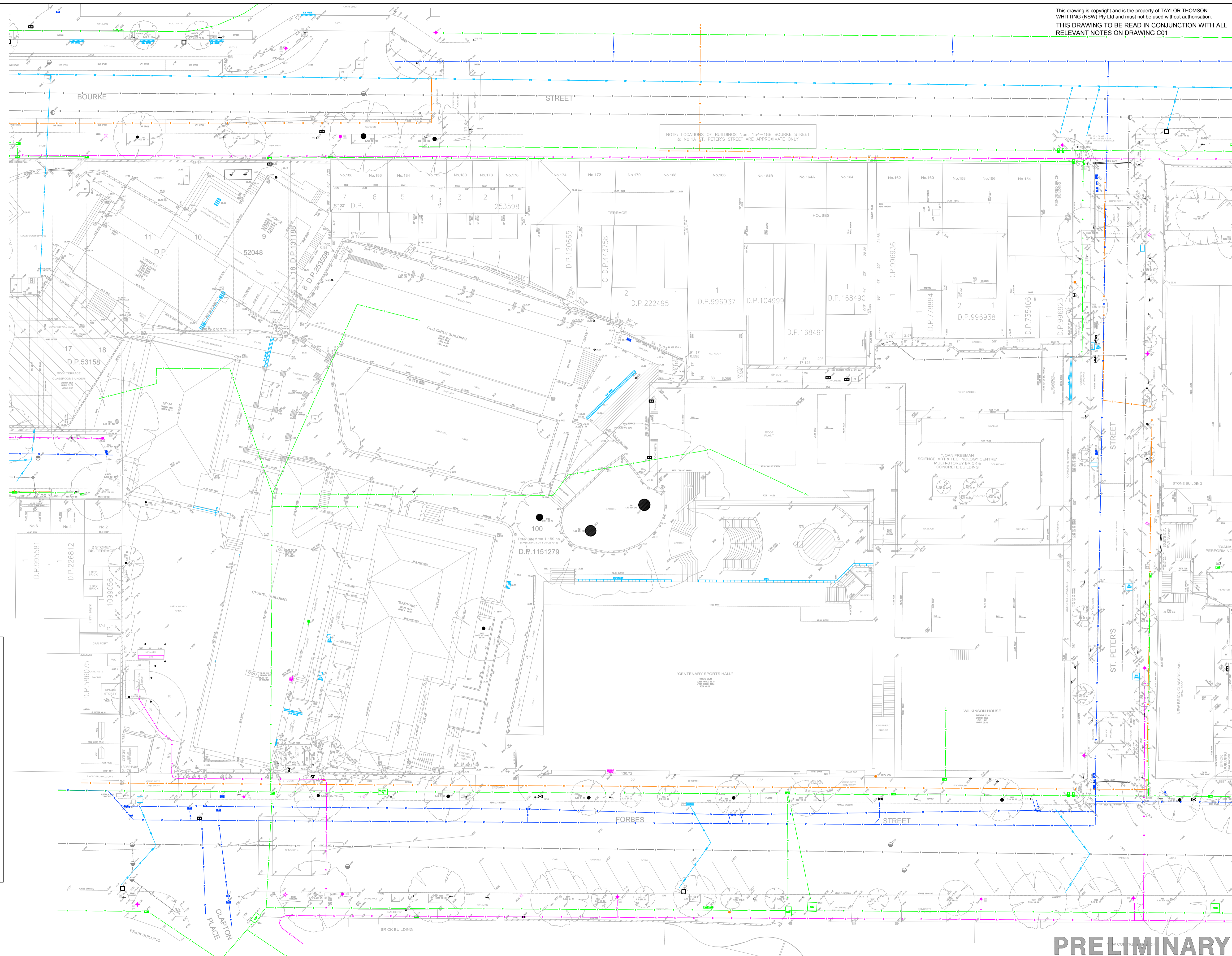
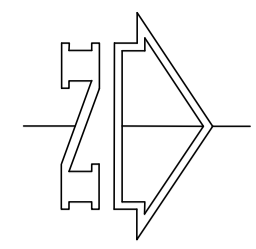
Architect  
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Project  
**SCEGGS DARLINGHURST MASTER PLAN**

Sheet Subject  
**EROSION AND SEDIMENT CONTROL PLAN**

Scale : A1 1:250	Drawn AS	Authorised SB
Job No 181375	Drawing No C02	Revision P1
Plot File Created: Oct 19, 2018 - 2:48pm		



NOTE: LOCATIONS OF BUILDINGS Nos. 154-188 BOURKE STREET & No.1A ST. PETER'S STREET ARE APPROXIMATE ONLY

SURVEY LEGEND	
	Underground electricity
	Underground gas
	Overhead power lines
	Underground sewer
	Existing stormwater
	Underground water
	Underground telecommunications
	Sewer manhole
	Stop valve
	Stormwater grate
	Stormwater manhole
	Stormwater pit
	Telecom pit
	Telecom pillar
	Traffic signal
	Water valve
	Electricity pit
	Electricity pole with light
	Electricity pole
	Gas valve
	Hydrant
	Light pole
	Manhole (unspecified)
	Pit (unspecified)
	Sewer pit
	Bollard

Reference: C03.dwg - USER: darwin - Plot File Created: Oct 19, 2018 - 11:48am

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 AT ORIGINAL SIZE

**PRELIMINARY**

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
P1	PRELIMINARY	DU	DU	19/10/18					

Architect  
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**SCEGGS DARLINGHURST  
 MASTER PLAN**

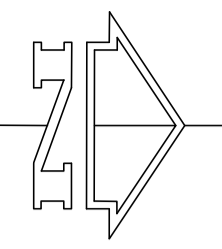
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**EXISTING SERVICES PLAN**

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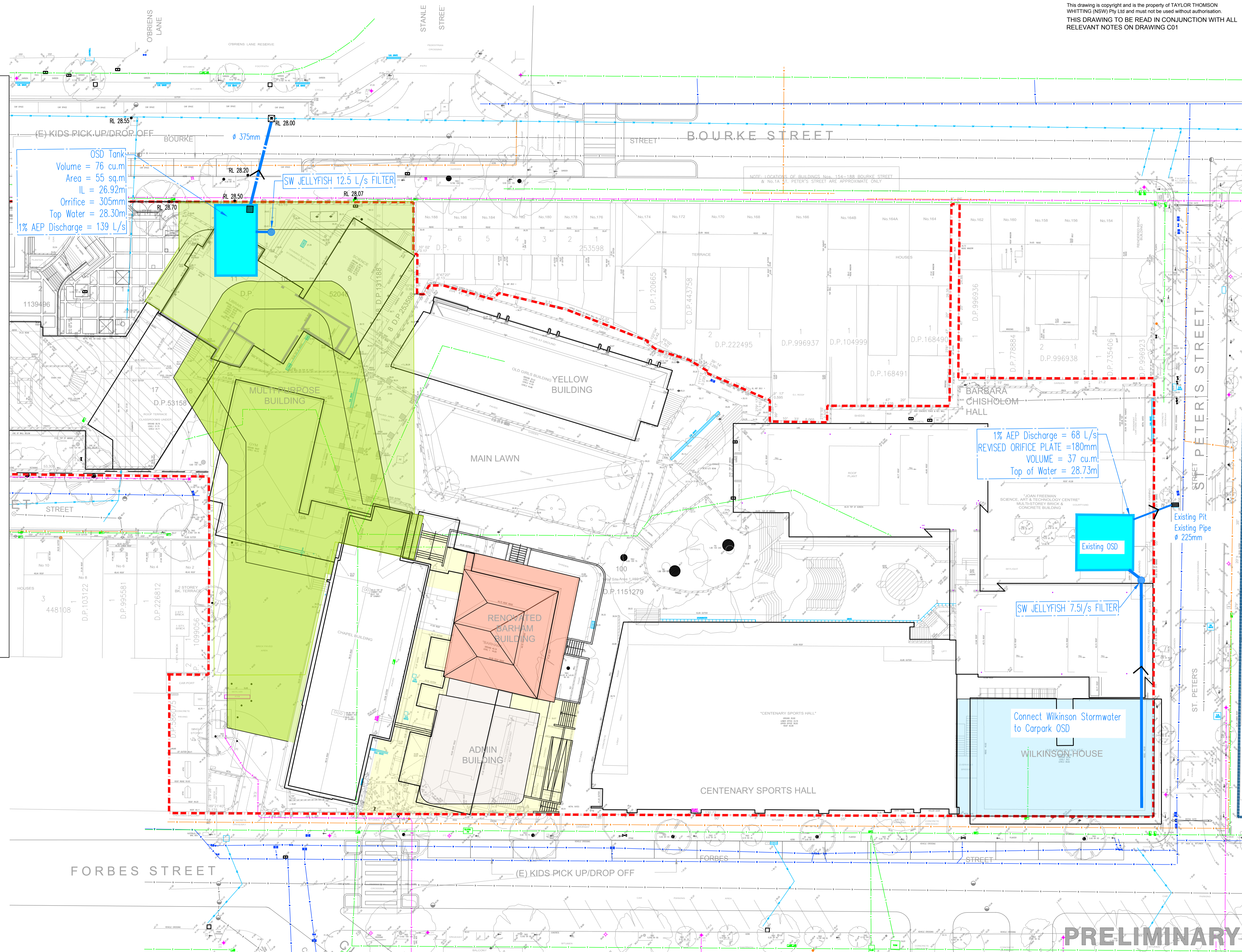
  

Job No	Drawing No	Revision
181375	C03	P1

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SITWORKS LEGEND	
● F22.20	Finished surface level
— F22.00	Finished contour
— K&G	Site Boundary
— K&G	Kerb and gutter
— KO	Kerb only
— FK	Flush kerb
— DD	Dish drain
— MK	Mountable kerb
— MIK	Mountable integral kerb
— MIK+TE	Mountable integral kerb with thickened edge
— IK+TE	Integral kerb with thickened edge
— TE	Thickened edge
— IK	Integral kerb
— IK+ED	Integral kerb with edge downturn
— K&T	Kerb and toe
—	Stormwater pit, flow direction and line with
—	Invert level upstream
—	Pipe size and class
—	Pipe grade
—	Flow (Litres per second)
—	Invert level downstream
—	Grated drain
— IR	Intermediate riser with subsol drainage line (100 dia)
— FP	Flushing point with subsol drainage line (100 dia)
— DP	Down pipe
— RP	Rodding point
—	Concrete encased stormwater line
—	Stormwater line with pipe taper and flow direction
—	Taper kerb to zero height over 500 mm
—	Wheelstop
— RW#	Blockwork retaining wall
— RW#	Brickwork retaining wall
— DEJ	Dowelled expansion joint
— SJ	Sawn joint
— KJ	Keyed construction joint
— WPJ	Weakened plane joint
— EJ	Expansion joint
— TKJ	Tied keyed joint
—	Grass catch drain
—	Overland flow path
—	Guard Rail



Reference: C05.dwg - USER: darwin - Plot File Created: Oct 19, 2018 - 6:45pm

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AT ORIGINAL SIZE

**PRELIMINARY**

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
P2	PRELIMINARY	DU	DU	19.10.18										
P1	PRELIMINARY	DU	DU	12.10.18										

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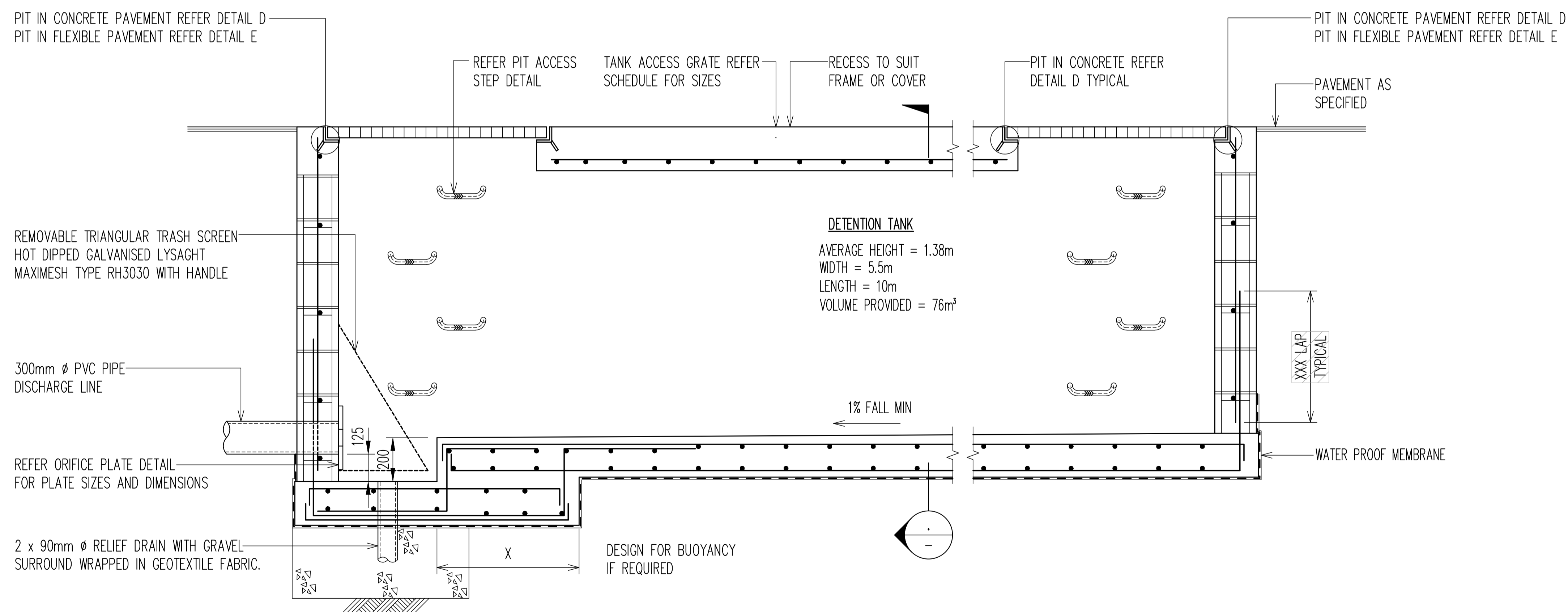
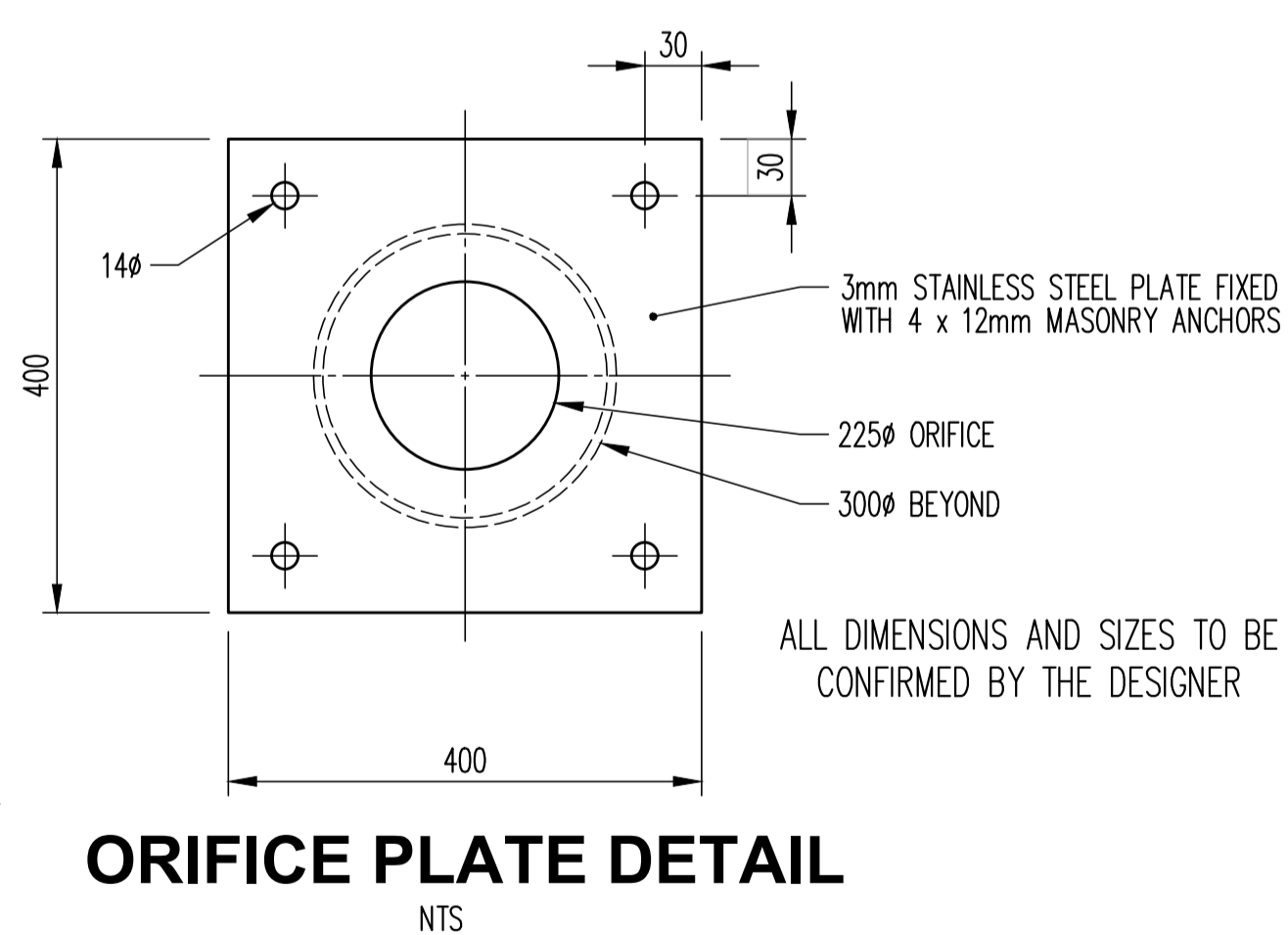
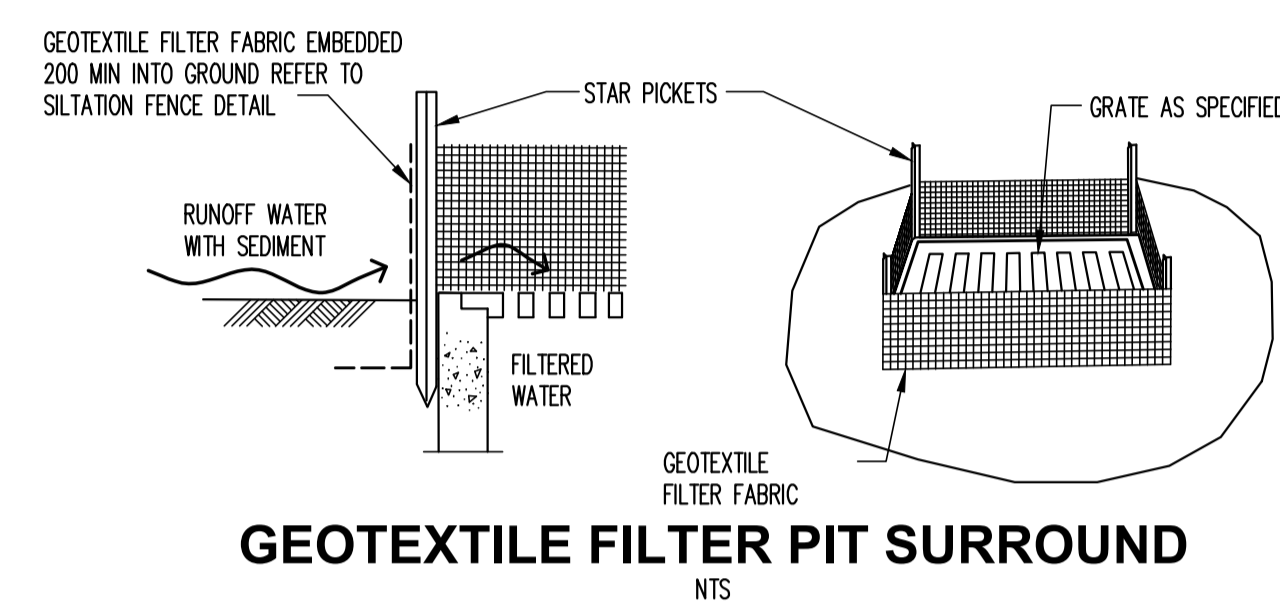
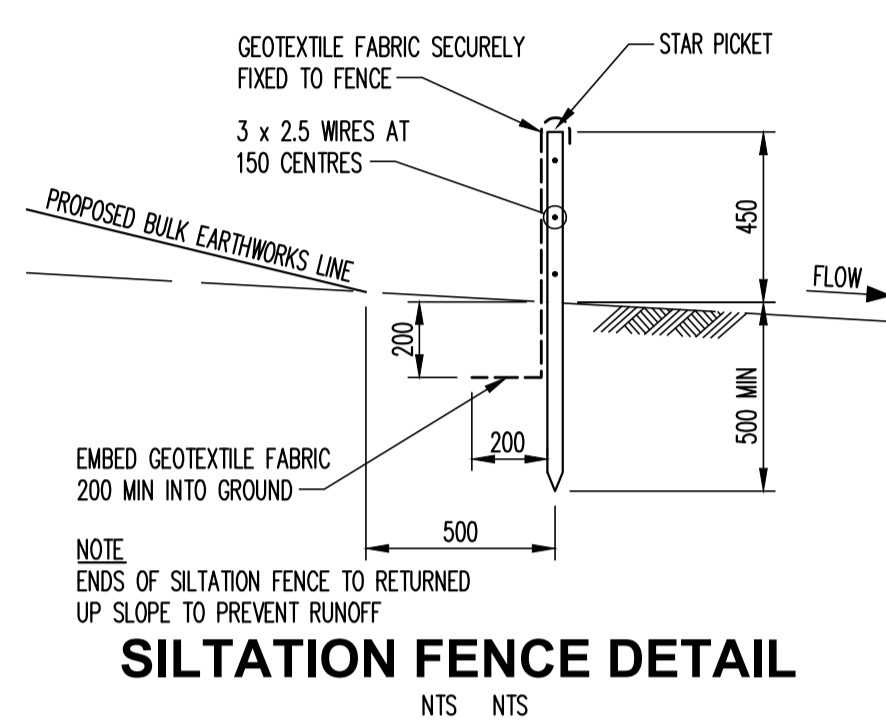
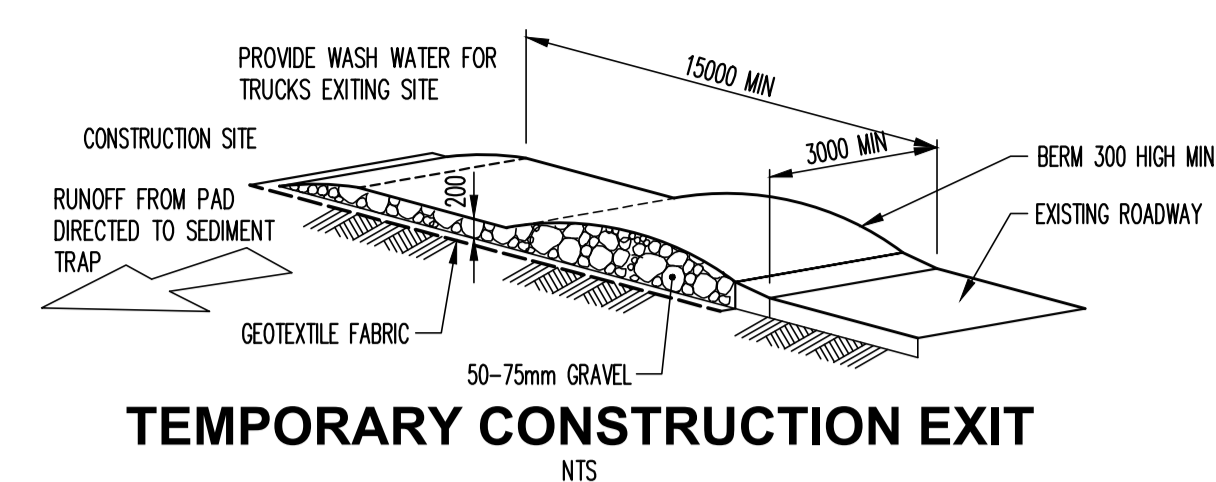
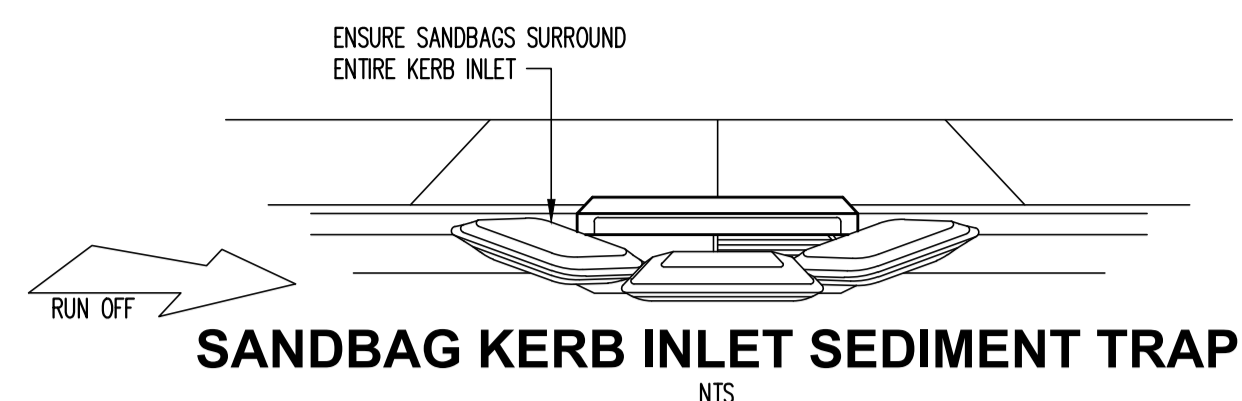
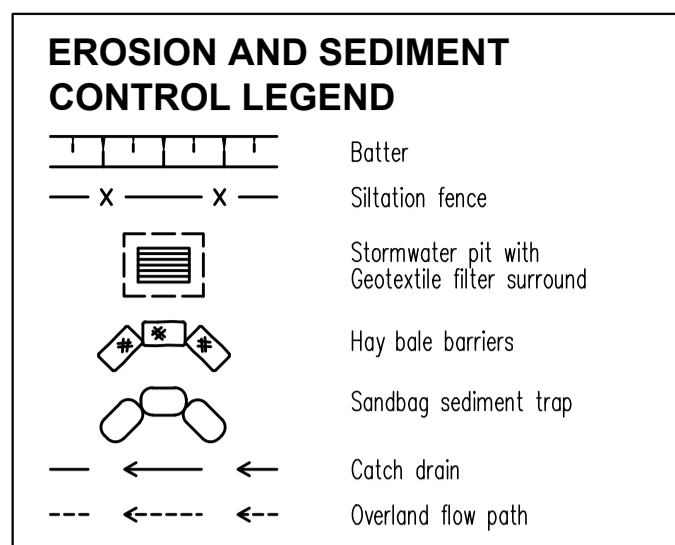
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Project  
**SCEGGS DARLINGHURST MASTER PLAN**

Sheet Subject  
**SITWORKS AND STORMWATER PLAN**

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Job No <b>181375</b>	Drawing No <b>C05</b>	Revision <b>P2</b>
Plot File Created: Oct 19, 2018 - 6:45pm		





Reference: C11.dwg - USES: Australia - Plot File Created: Oct 19, 2018 - 6:49pm

**PRELIMINARY**

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
P1	PRELIMINARY	DU	DU	19/10/18					

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Project  
**SCEGGS DARLINGHURST MASTER PLAN**

Sheet Subject  
**DETAIL SHEET 2**

Scale: A1  
AS SHOWN

Drawn: AS  
Authorised: SB

Job No: **181375**  
Drawing No: **C11**  
Revision: **P1**

Plot File Created: Oct 19, 2018 - 6:49pm