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Sheet Subject	Scale: A1	Drawn	Authorised
COVER, NOTES AND LEGENDS SHEET	NTS	LW	
	Job No	Drawing No	Revision
	201435	C300	P5
Plot File Created: Jun 06, 2021 - 9:40am			

PathName: C:\05-04-2021 - 9-41am
User: JH
Plot File Created: Jul 06, 2021 - 9:41am

P4	ISSUE FOR INFORMATION	GC	LW	02.06.21
P3	ISSUE FOR SSDA	GC	JH	17.12.20
P2	ISSUE FOR DRAFT SSDA	GC	LW	30.11.20
P1	ISSUE FOR DRAFT SSDA	GC	LW	30.10.20
Rev	Description	Eng	Draft	Date

Rev	Description	Eng	Draft	Date
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Rev	Description	Eng	Draft	Date
Rev	Description	Eng	Draft	Date

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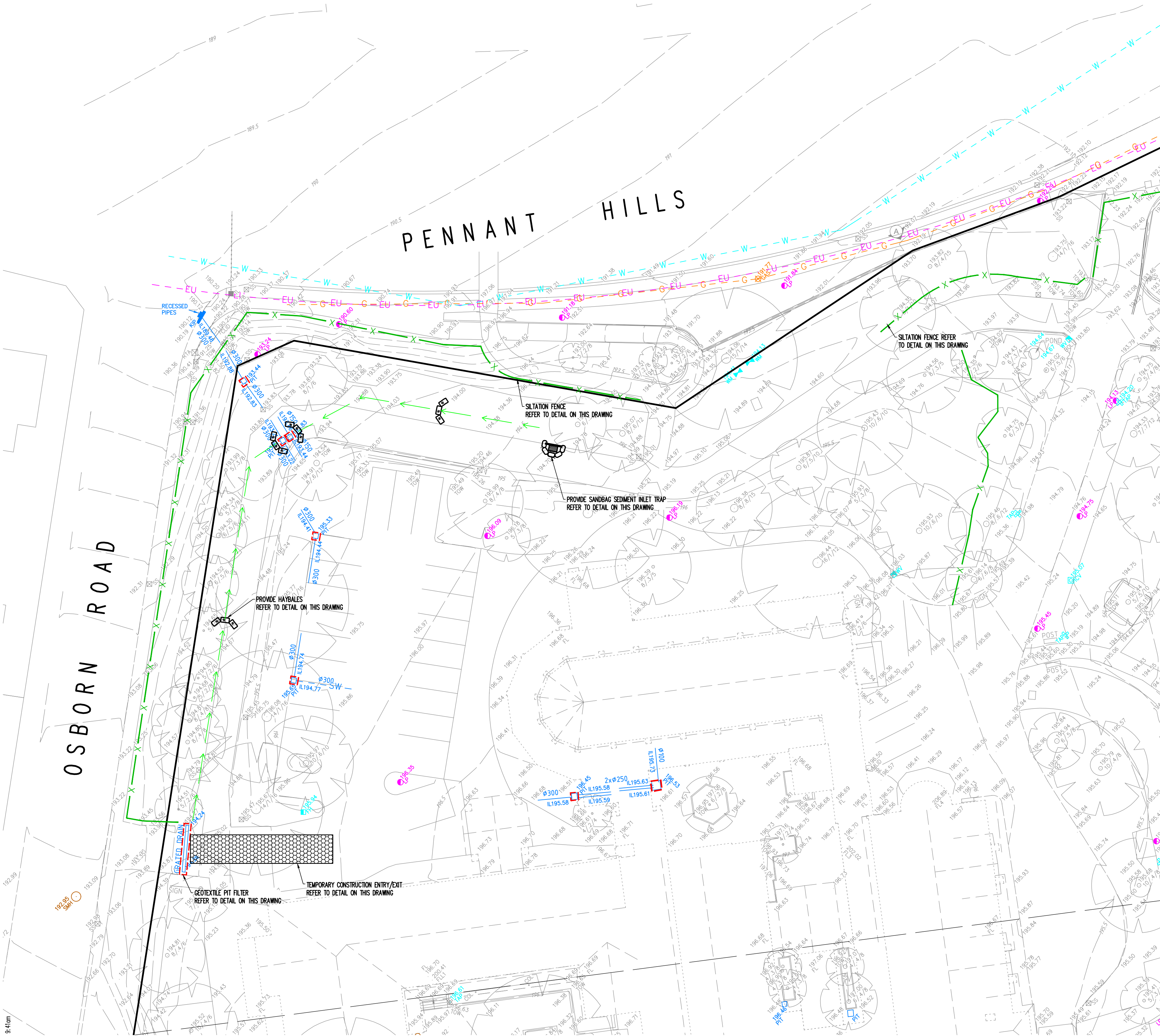
Project
LORETO NORMANHURST
PHILIP AND EIRIN LANE PA1
GARPHARK

Sheet Subject
**EROSION & SEDIMENT
CONTROL PLAN SHEET 1
AND DETAILS**

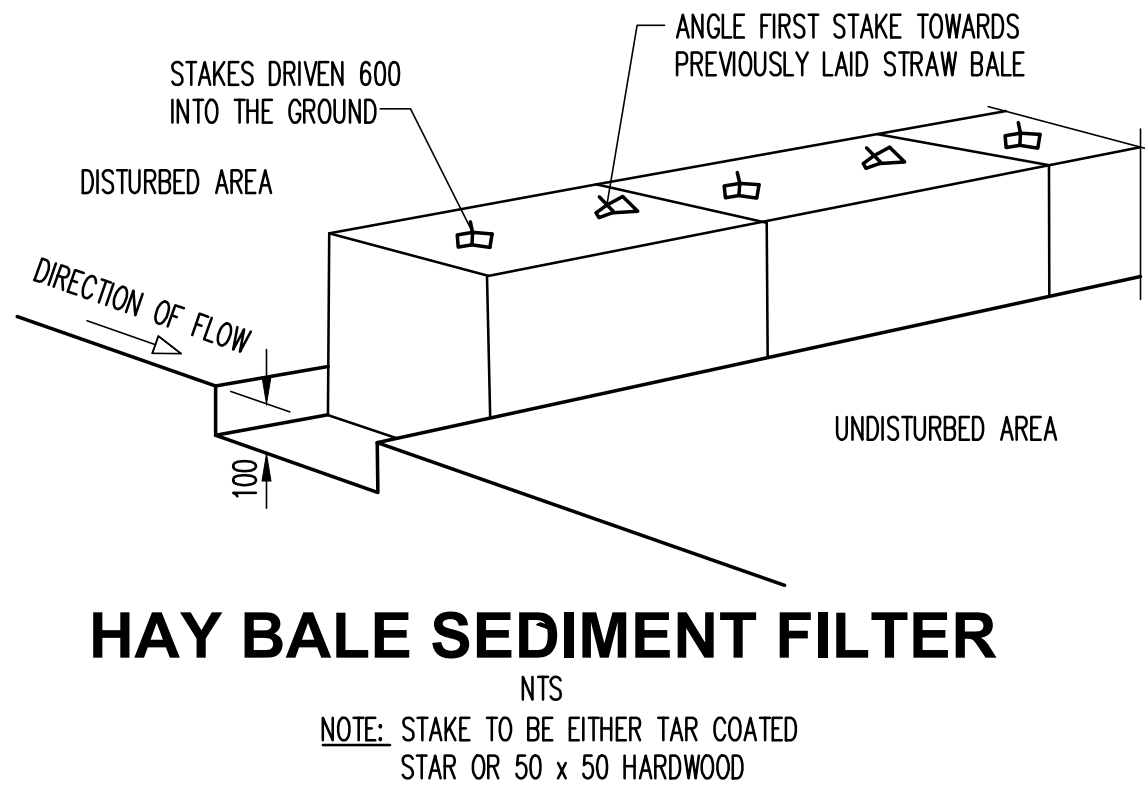
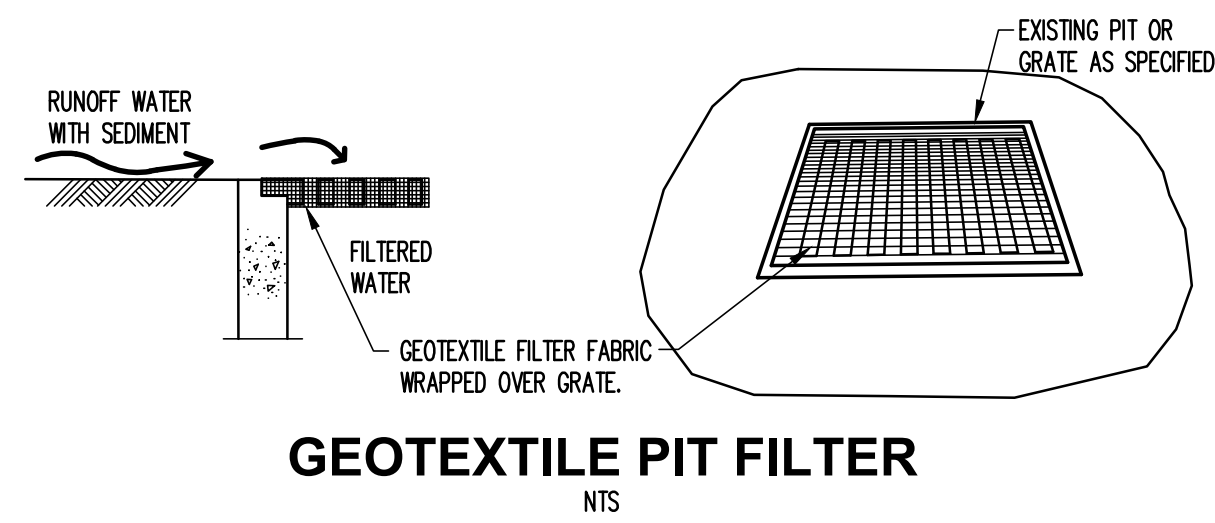
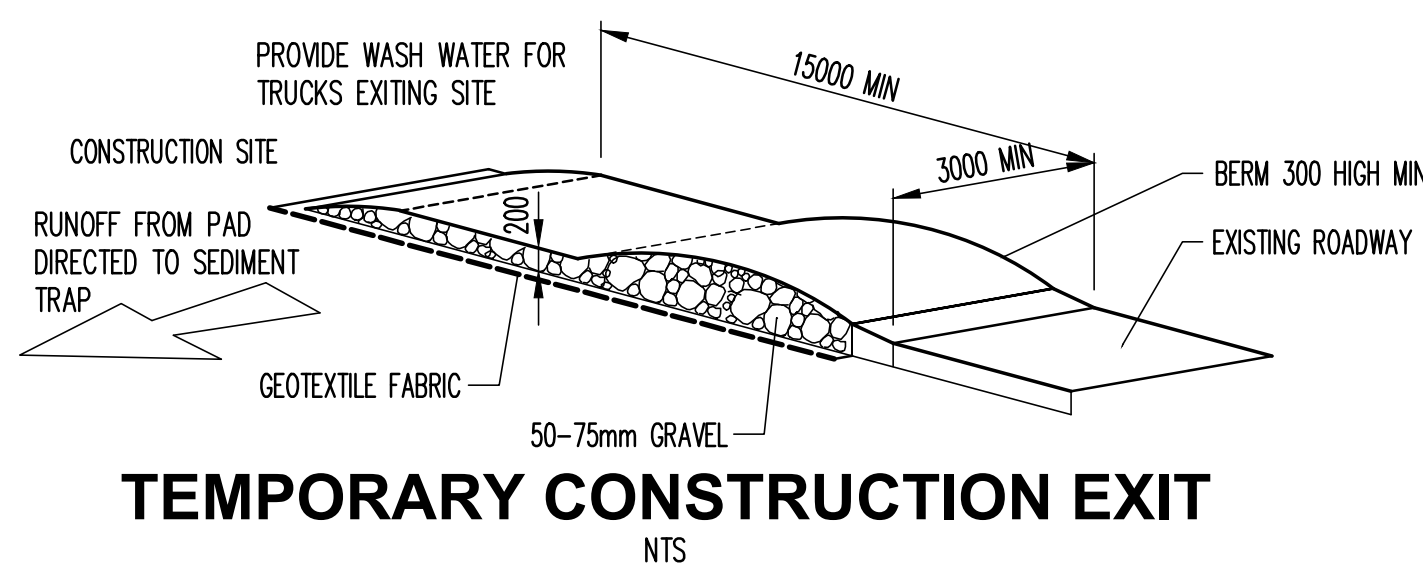
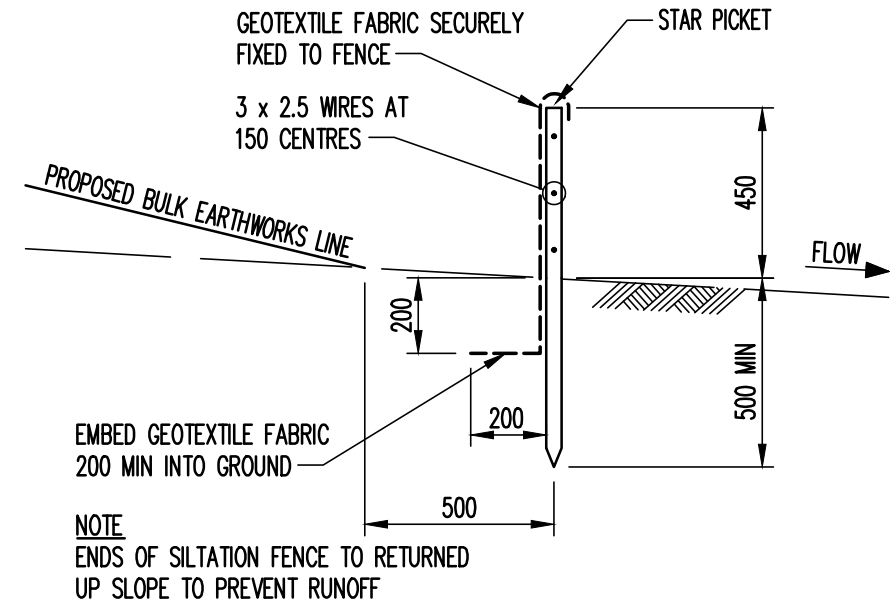
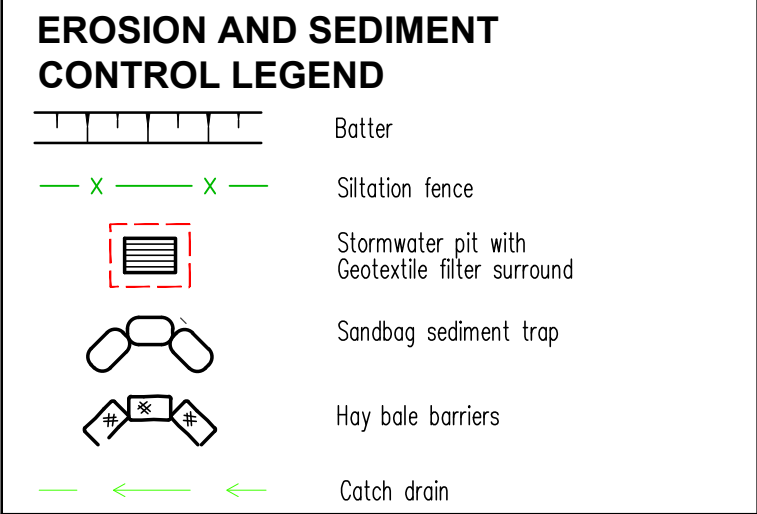
Scale : A1
1:250 U.N.O
Job No
201435
Plot File Created: Jul 06, 2021 - 9:41am

Drawn
JH
Drawing No
C305

Authorised
SB
Revision
P4

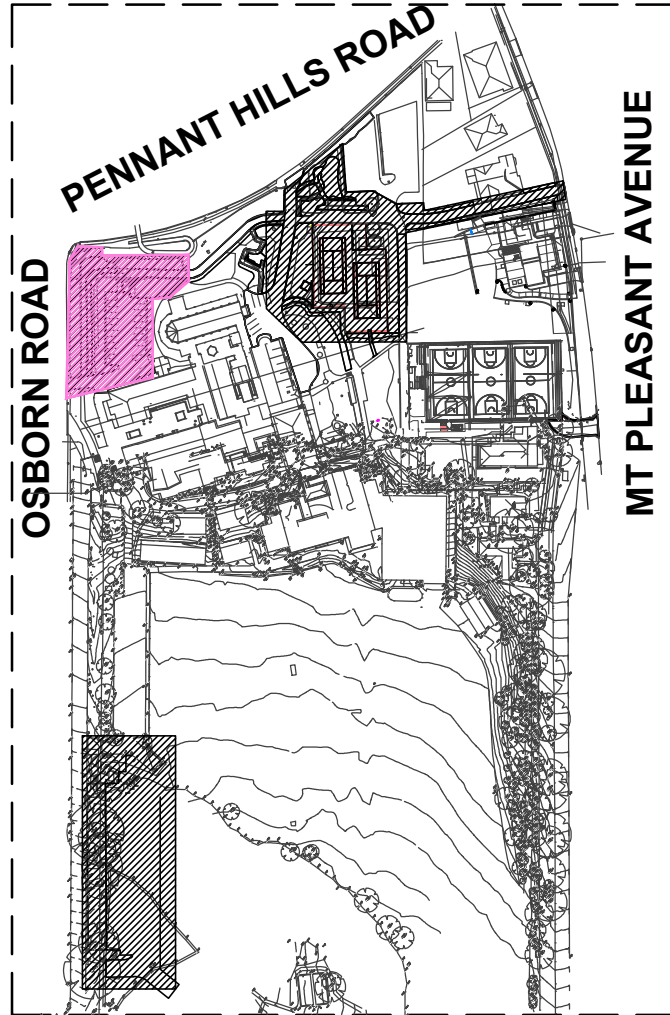


FOR CONTINUATION REFER TO DRAWING NO C306



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KEY PLAN

EROSION AND SEDIMENT CONTROL NOTES

- 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").
- 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

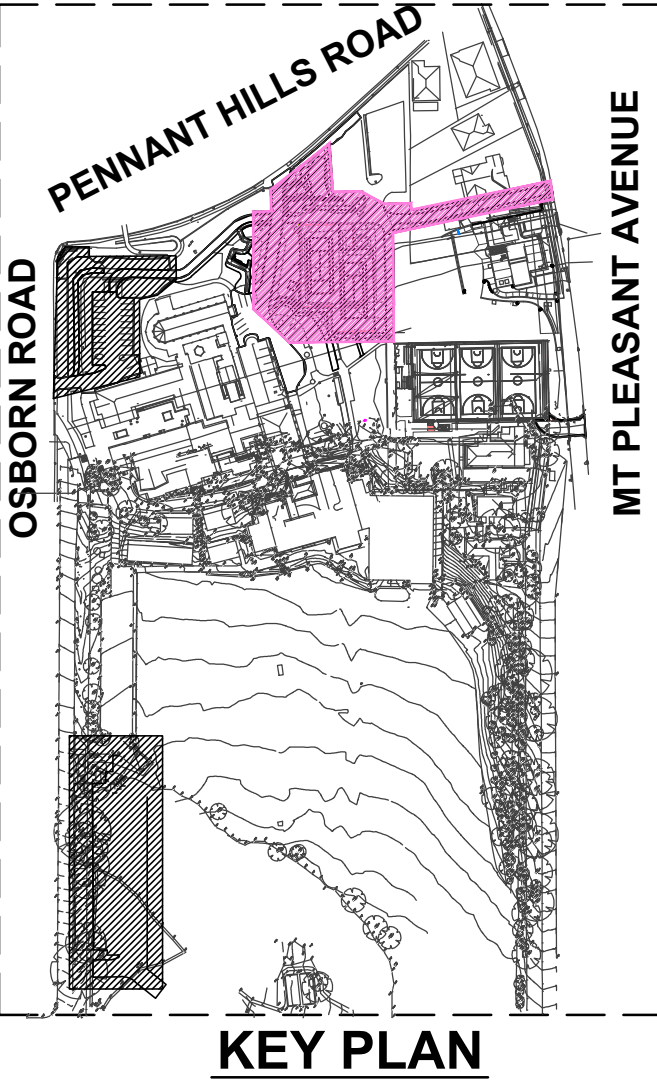
- Prior to commencement of excavation the following soil management devices must be installed.
- Construct silt fences below the site and across all potential runoff sites.
- Construct temporary construction entry/exit and divert runoff to suitable control systems.
- Construct measures to divert upstream 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

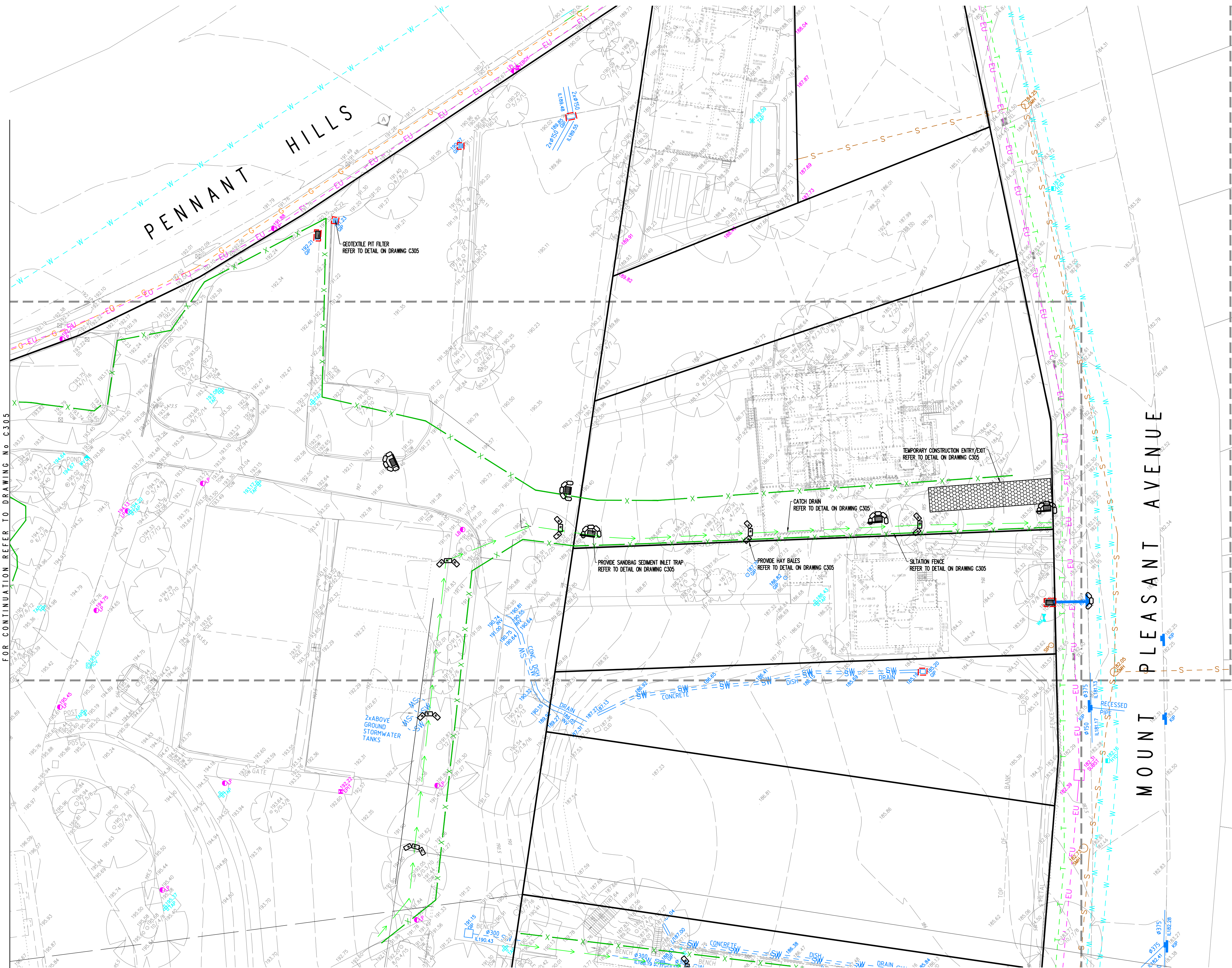
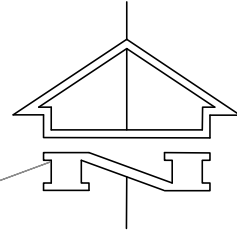
Prior to discharge of site stormwater, groundwater and seepage water into council's stormwater system, contractors must undertake water quality tests in conjunction with a suitably qualified environment consultant outlining the following:

- 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.

0 2.5 5 7.5 10 12.5 15 17.5 20m
1:250 A1 1:500 A3



KEY PLAN



PLAN
SCALE 1: 250

EROSION AND SEDIMENT CONTROL LEGEND

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

0 2.5 5 7.5 10 12.5 15 17.5 20m

1:250 A1 1:500 A3

P5	ISSUE FOR INFORMATION	GC	LW	23.06.21
P4	ISSUE FOR INFORMATION	GC	LW	02.06.21
P3	ISSUE FOR SSDA	GC	JH	17.12.20
P2	ISSUE FOR DRAFT SSDA	GC	LW	30.11.20
P1	ISSUE FOR DRAFT SSDA	GC	LW	30.10.20

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
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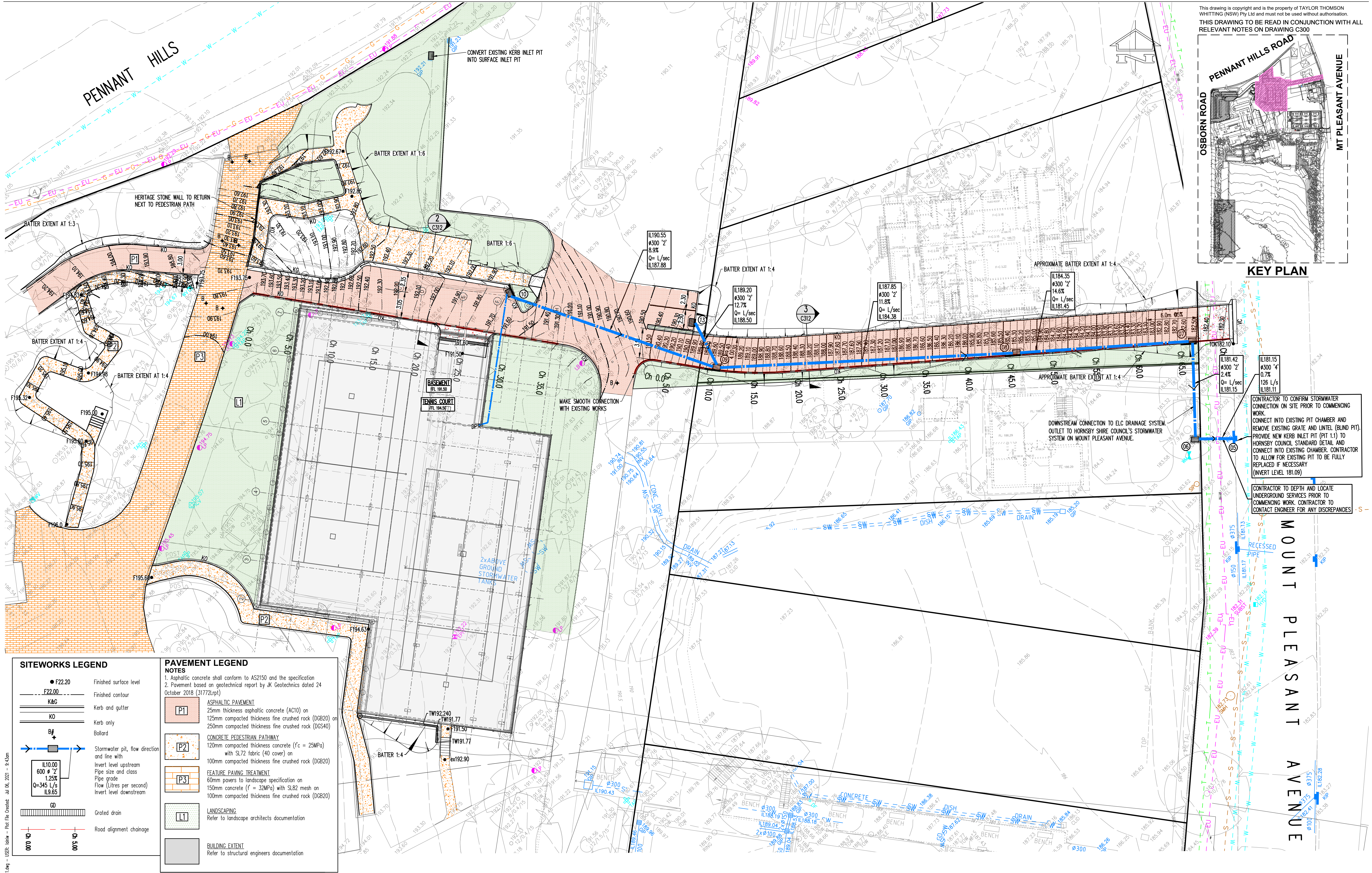
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Project
LORETO NORMANHURST
PHASE 2 AND PHASE 3
GATEPARK

Sheet Subject
EROSION & SEDIMENT CONTROL PLAN SHEET 2

Scale : A1 1:250	Drawn JH	Authorised SB
Job No 201435	Drawing No C306	Revision P5
Plot File Created: Jul 06, 2021 - 9:41am		



SITWORKS LEGEND

- F22.20 Finished surface level
- F22.00 Finished contour
- K&G Kerb and gutter
- KO Kerb only
- Bf Bollard
- 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
- Road alignment chainage

PAVEMENT LEGEND

NOTES

- Asphaltic concrete shall conform to AS2150 and the specification
- Pavement based on geotechnical report by JK Geotechnics dated 24 October 2018 (31772Lrpt)

- ASPHALTIC PAVEMENT**
25mm thickness asphaltic concrete (AC10) on 125mm compacted thickness fine crushed rock (DGB20) on 250mm compacted thickness fine crushed rock (DGS40)
- CONCRETE PEDESTRIAN PATHWAY**
120mm compacted thickness concrete (f'c = 25MPa) with SL72 fabric (40 cover) on 100mm compacted thickness fine crushed rock (DGB20)
- FEATURE PAVING TREATMENT**
60mm pavers to landscape specification on 150mm concrete (f'c = 32MPa) with SL82 mesh on 100mm compacted thickness fine crushed rock (DGB20)
- LANDSCAPING**
Refer to landscape architects documentation
- BUILDING EXTENT**
Refer to structural engineers documentation

A1				0	1	2	3	4	5	6	7	8	9	10
P6	ISSUE FOR INFORMATION	GC	LW	02.06.21										
P5	ISSUE FOR SSDA	GC	JH	17.12.20										
P4	ISSUE FOR SSDA	GC	JH	09.12.20										
P3	ISSUE FOR DRAFT SSDA	GC	LW	30.11.20										
P2	ISSUE FOR COORDINATION	GC	LW	13.11.20										
P1	ISSUE FOR DRAFT SSDA	GC	LW	30.10.20										
Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
					P7	ISSUE FOR INFORMATION	GC	LW	23.06.21					

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Project

LORETO NORMANHURST
P1A, P3A AND THROUGH
SITE LINK

Sheet Subject

SITWORKS & PAVEMENT PLAN
SHEET 2

Scale : A1
1:200

Drawn
JH

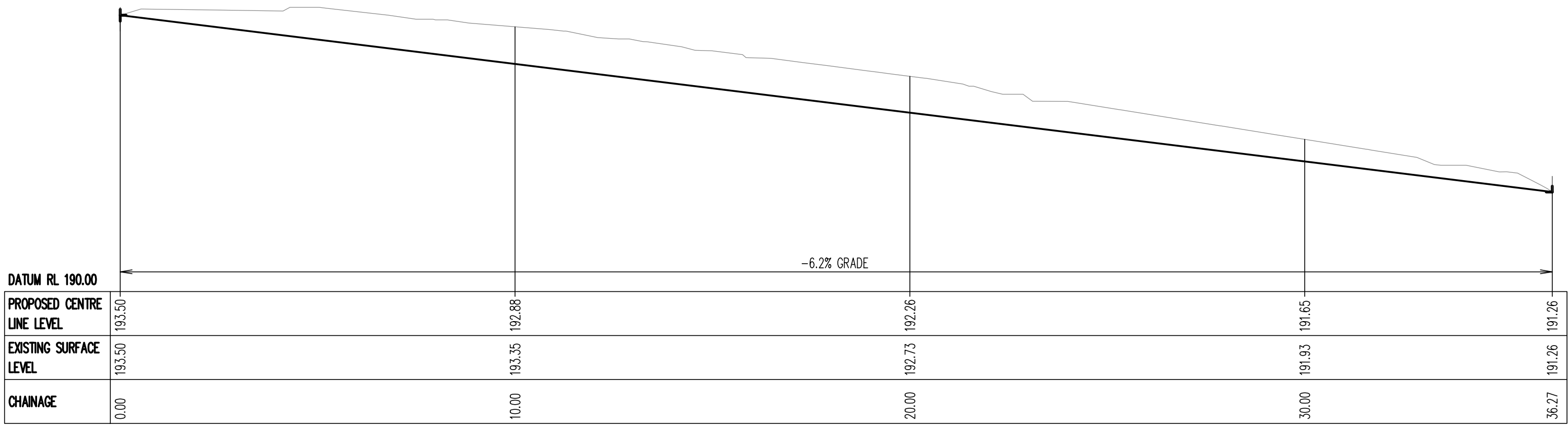
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SB

Job No
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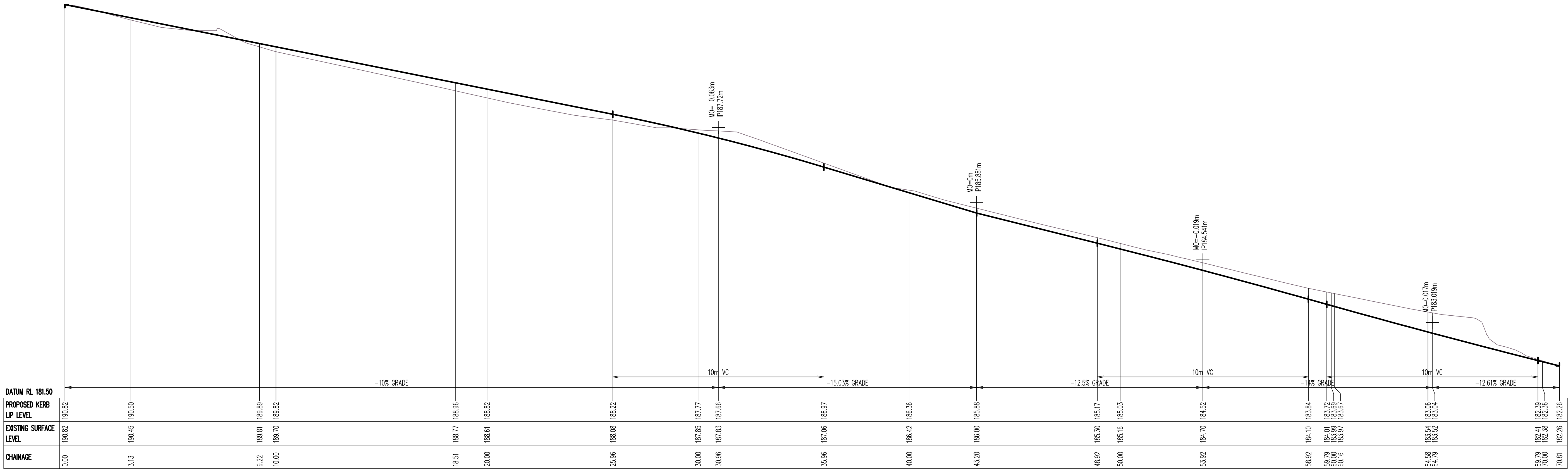
Drawing No
C311

Revision
P7

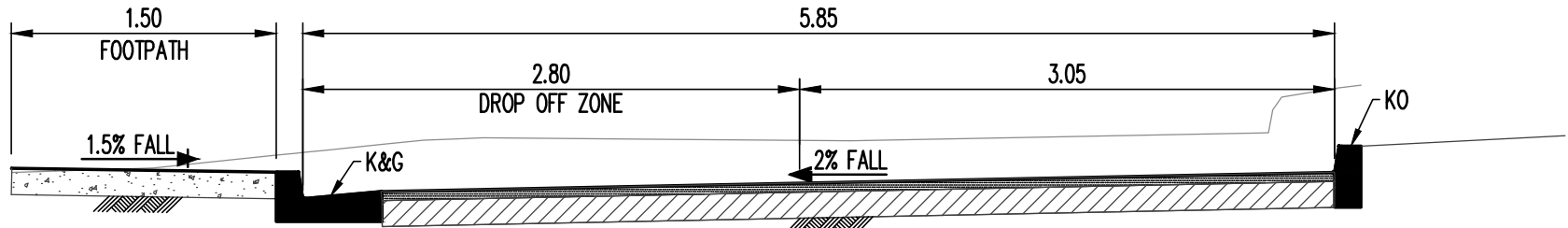
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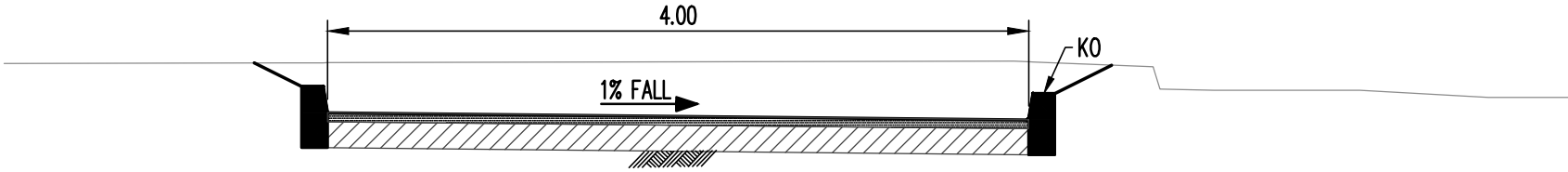
AL2 LONGITUDINAL SECTION
SCALE 1:100 HORIZONTAL
1:50 VERTICAL



AL3 LONGITUDINAL SECTION
SCALE 1:100 HORIZONTAL
1:50 VERTICAL



SECTION 2
SCALE 1:40



SECTION 3
SCALE 1:40

Filename: C315.dwg User: jwh - Plot File Created: Jul 06, 2021 - 9:43am

A1 0 1 2 3 4 5 6 7 8 9 10

P4	ISSUE FOR INFORMATION	GC	LW	02.06.21					
P3	ISSUE FOR SSDA	GC	JH	17.12.20					
P2	ISSUE FOR DRAFT SSDA	GC	LW	30.11.20					
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Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date

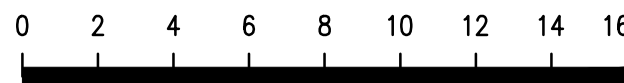
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Project
LORETO NORMANHURST
PHILIPPS AND EIRIKSON PA1
GARAGE

Sheet Subject
TYPICAL CROSS SECTIONS
AND LONGITUDINAL SECTIONS

Scale : A1 AS SHOWN	Drawn JH	Authorised SB
Job No 201435	Drawing No C315	Revision P4
Plot File Created: Jul 06, 2021 - 9:43am		



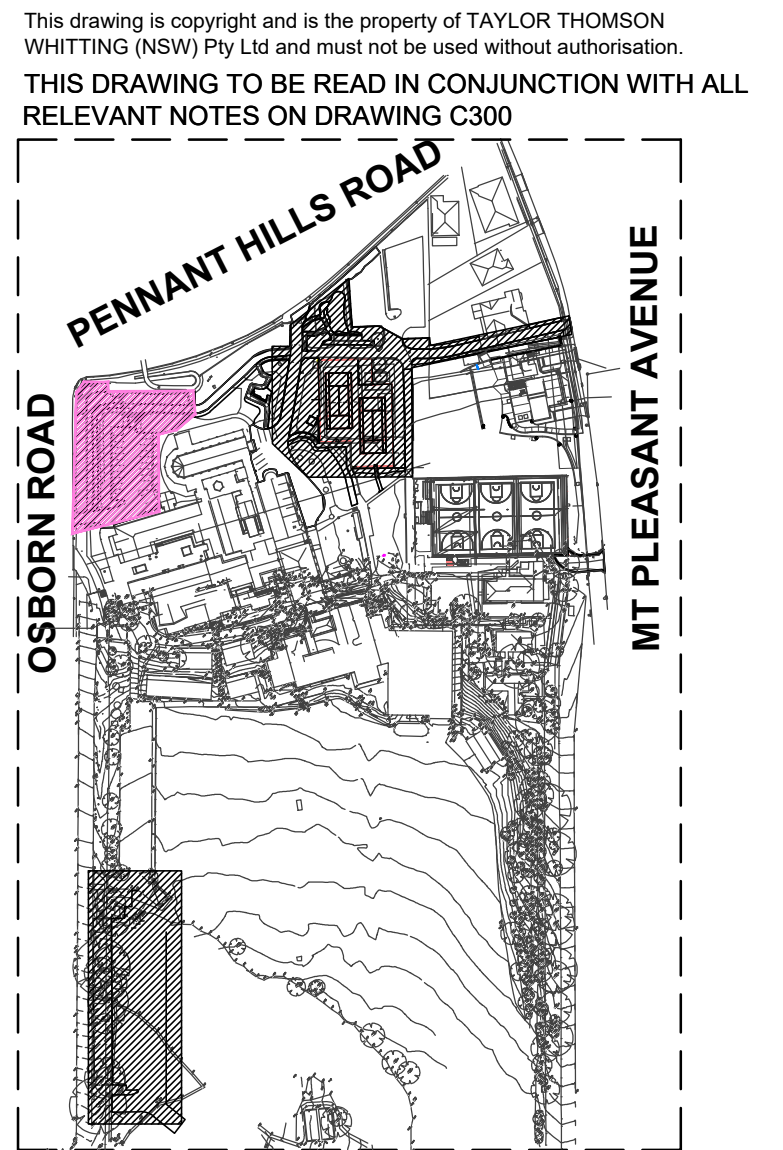
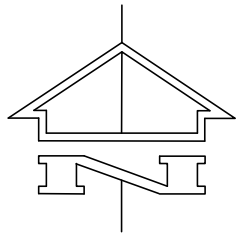
P1 ISSUE FOR INFORMATION				GC	LW	02.06.21								
Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date

Engineer

TTW **Structural
Civil
Traffic
Façade**

612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Scale : A1	Drawn	Authorised
1:200	JH	SB
Job No	Drawing No	Revision
201435	C320	P1
Plot File Created: Jul 06, 2021 - 9:44am		



KEY PLAN

SITEWORKS LEGEND

• F22.20 Finished surface level
 --- F22.00 Finished contour
 K&G Kerb and gutter
 KO Kerb only
 Stormwater pit, flow direction and line with
 Invert level upstream
 Pipe size and class
 Pipe grade
 Flow (Litres per second)
 Invert level downstream

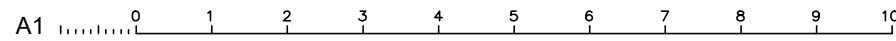
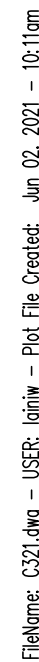
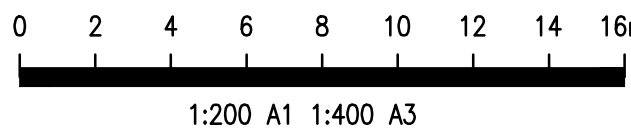
IL10.02
 600 Ø 2'
 1.25%
 Q=345 L/s
 19.65

PAVEMENT LEGEND

NOTES

1. Asphaltic concrete shall conform to AS2150 and the specification
2. Pavement based on geotechnical report by JK Geotechnics dated 24 October 2018 (31772Lrpt)

	ASPHALTIC PAVEMENT 25mm thick asphalt concrete (AC10) on 125mm compacted thickness fine crushed rock (DG820) 250mm compacted thickness fine crushed rock (DGCS40)
	CONCRETE PEDESTRIAN PATHWAY 120mm compacted thickness concrete ($f_c = 25\text{MPa}$) with SL72 fabric (40 cover) on 100mm compacted thickness fine crushed rock (DG820)
	FEATURE PAVING TREATMENT 60mm pavers to landscape specification on 150mm concrete ($f_c = 32\text{MPa}$) with SL82 mesh on 100mm compacted thickness fine crushed rock (DG820)
	LANDSCAPING Refer to landscape architects documentation
	BUILDING EXTENT Refer to structural engineers documentation



P1 ISSUE FOR INFORMATION				GC	LW	02.06.21								
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Project

LORETO NORMANHURST
P1A, P3A AND THROUGH
SITE LINK

Sheet Subject

SIGNS AND LINEMARKING PLAN SHEET 2

Scale : A1

AS SHOWN

Drawn

JH

Authorised

SB

Job No. _____

201435 C3

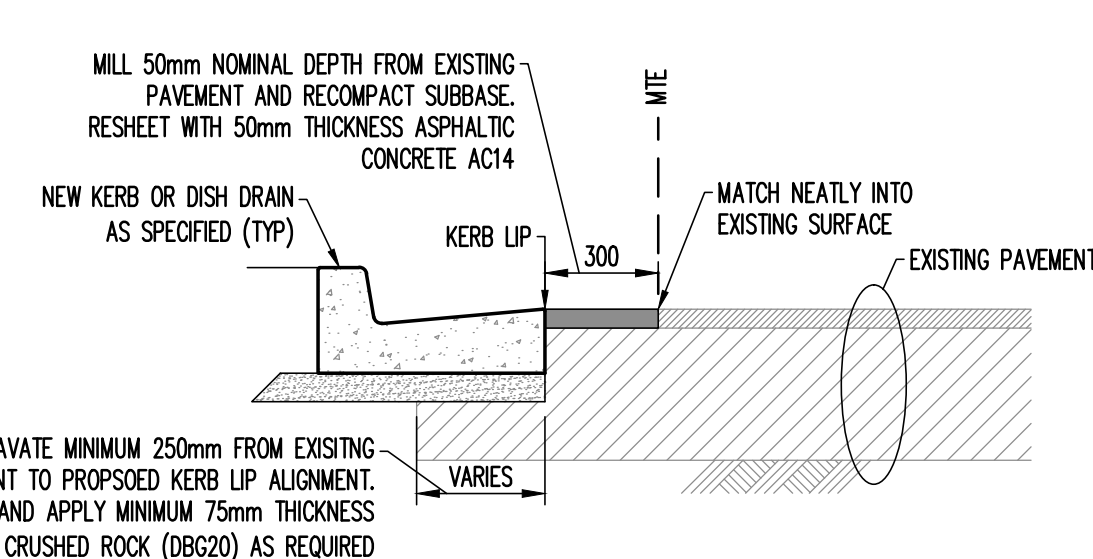
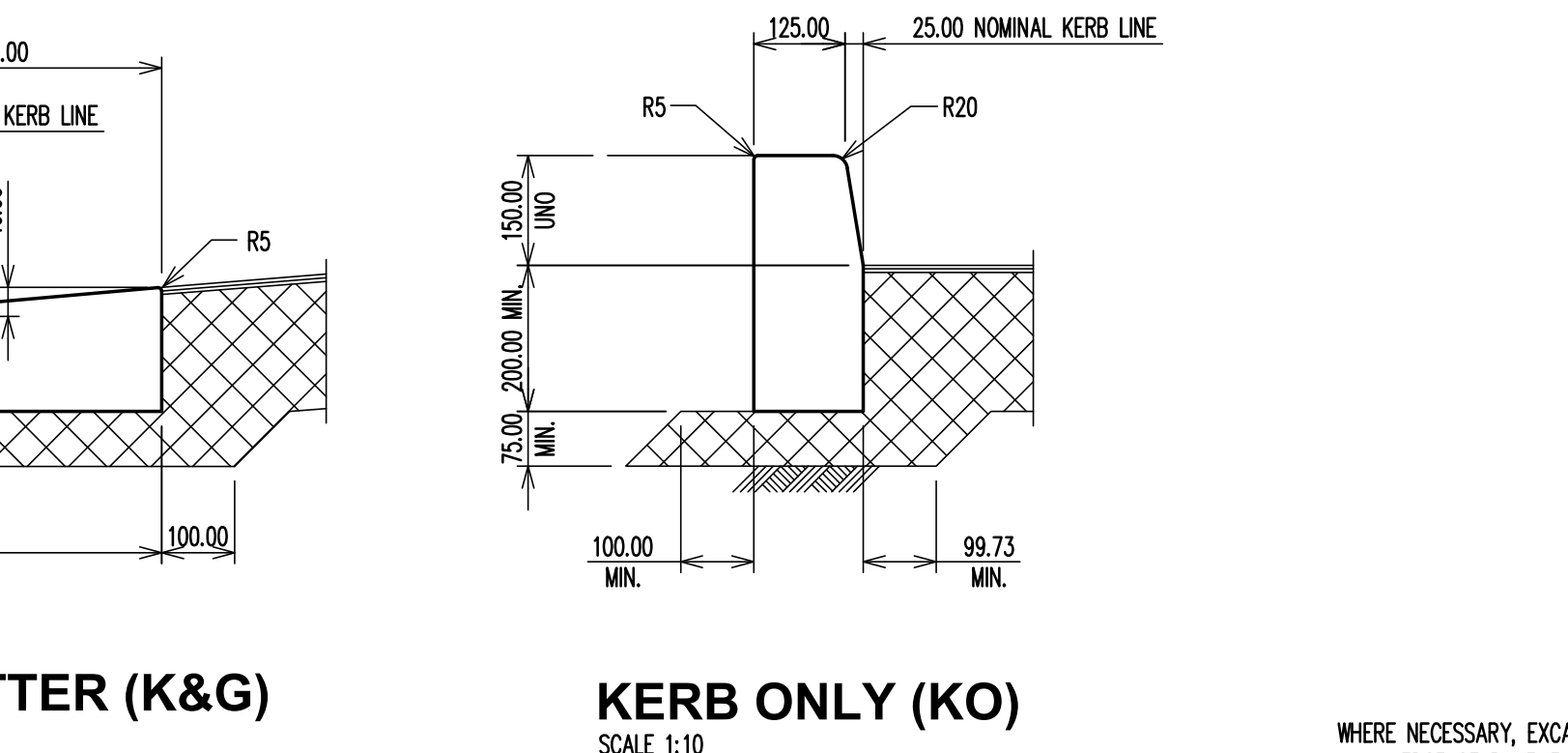
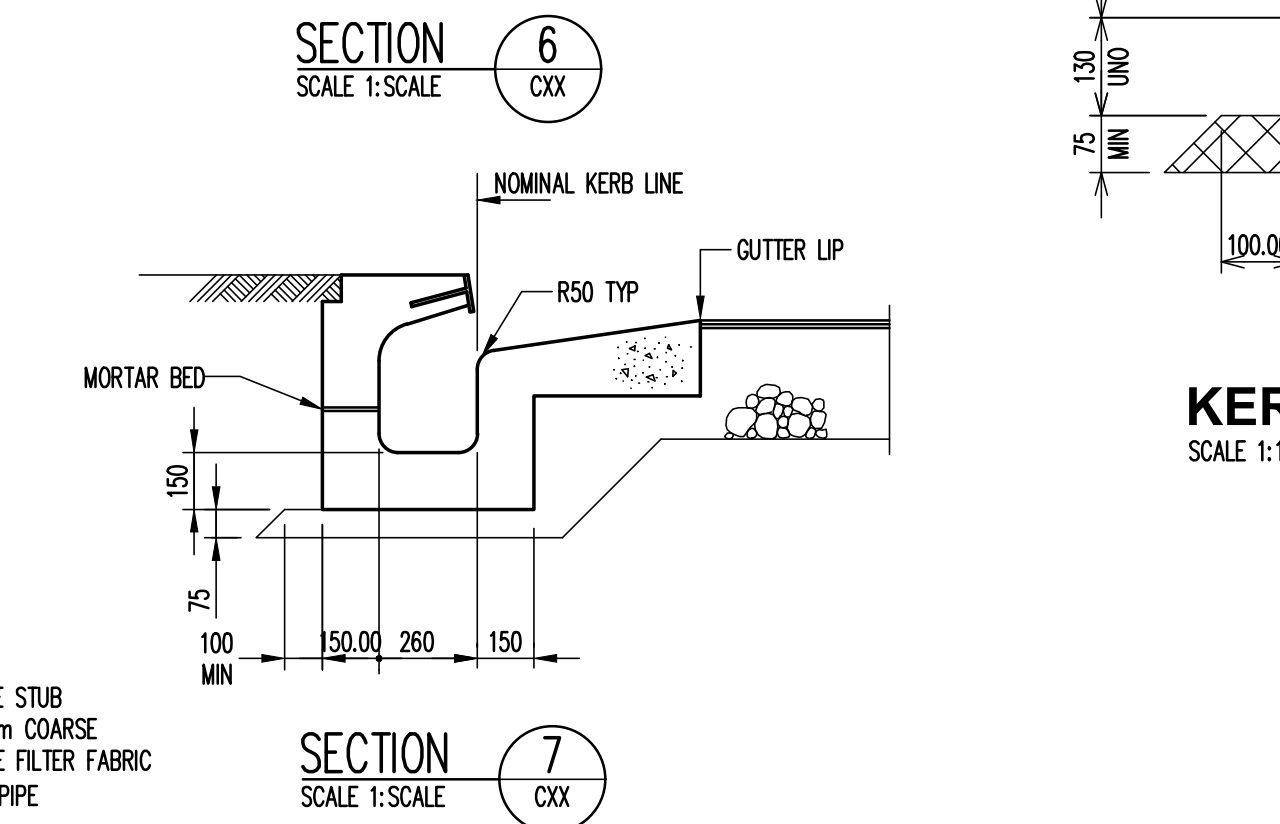
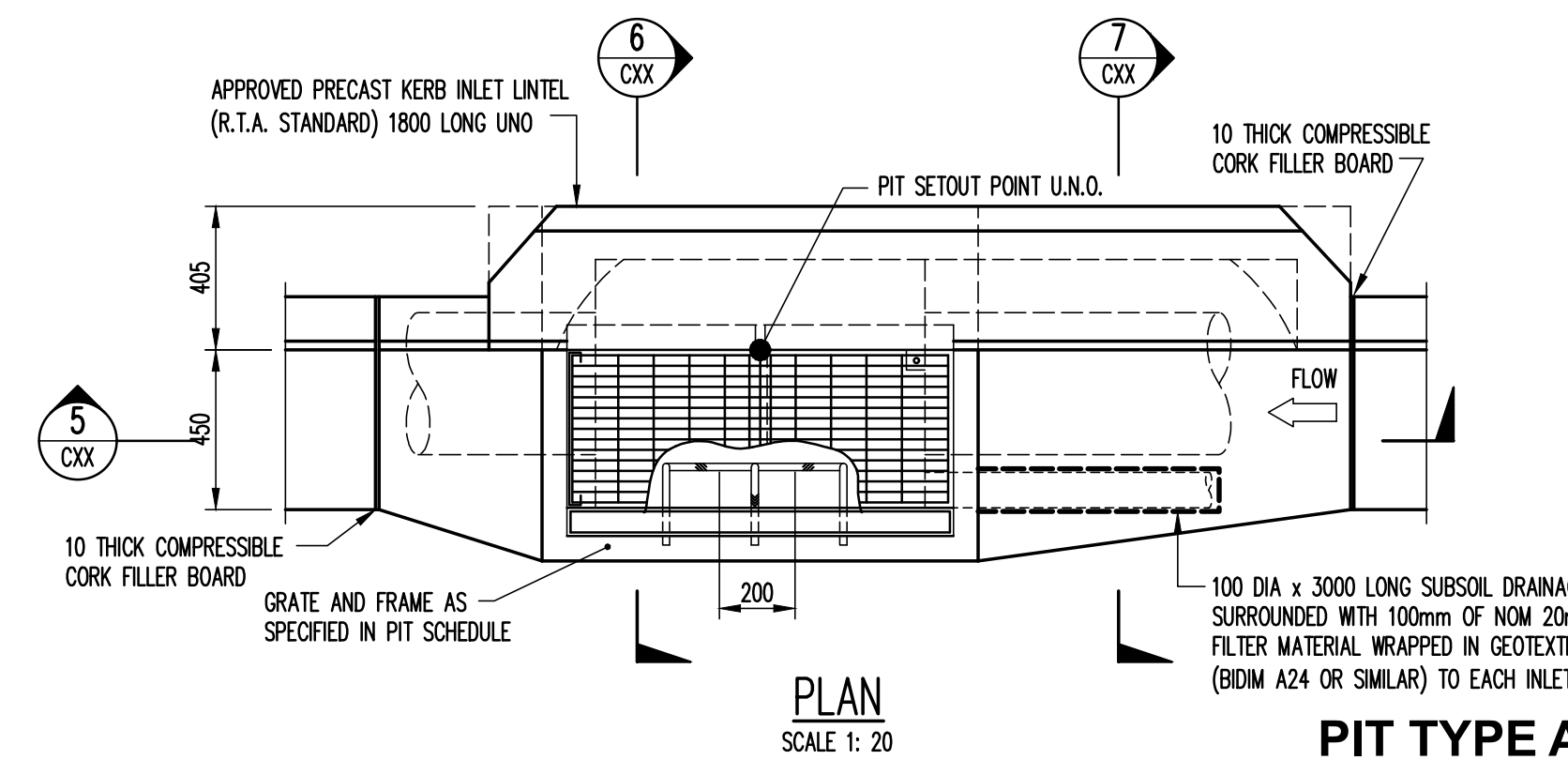
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Drawing No

C321

Revisor

P1



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(CONFIRM LOCATION WITH BOTH CIVIL ENGINEERING AND ARCHITECTURAL DRAWINGS)

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Project

LORETO NORMANHURST
P1A, P3A AND THROUGH
SITE LINK

Sheet Subject

DETAILS SHEET 1

Scale : A1	Drawn	Authorised
AS SHOWN	LW	
Job No	Drawing No	Revision
201435	C330	P5
Plot File Created: Jul 06, 2021 - 9:46am		

FIXED BOLLARD TO FLEXIBLE PAVEMENT

The diagram illustrates the construction of a Sawn Control Joint (SJ). It shows a cross-section of a pavement structure with multiple layers. A central fabric strip, 900 mm wide, is placed between the pavement layers. A 3 mm wide sawn groove is cut into the top surface, with a depth of 1/4 of the slab thickness. A sealant reservoir is formed on the sawcut or trowelled groove, with a depth of 11 mm. The sealant is applied to the groove. The pavement is specified as N16 extra each side, lap 450 where required. The fabric is cut out every second longitudinal bar at the sawn joint location. The diagram also shows the placement of longitudinal bars, which are cut at the sawn joint locations. The bars are 50 mm thick and are placed on either side of the sawn joint locations. The diagram is labeled with dimensions and material specifications.

N16 EXTRA EACH SIDE
LAP 450 WHERE REQUIRED

PAVEMENT AS SPECIFIED

SEALANT RESERVOIR ON SAWCUT OR
TROWELLED GROOVE REFER TO DETAIL A

3 WIDE SAWN GROOVE - 1/4 DEPTH OF SLAB

11

11

FABRIC 900 WIDE CENTRAL
CUT OUT EVERY SECOND
LONGITUDINAL BAR AT
SAWN JOINT LOCATION

NOTE: CUT LONGITUDINAL BARS IN THICKENED
EDGES etc. 50mm EITHER SIDE OF SAWN
JOINT LOCATIONS

SAWN CONTROL JOINT (SJ)

SCALE 1: 20

NOTE: REFER TO JOINTING NOTES, POINT 5
FOR TIMING OF SAW CUTS.

DOWELLED EXPANSION JOINT (DEJ)

DOWN CORNING 888 SILICONE JOINT SEALANT
 INSTALLED TO MANUFACTURERS SPECIFICATION
 APPROVAL REQUIRED FOR EQUIVALENT PRODUCT

DEPTH TO WIDTH RATIO TO SEALANT
 MANUFACTURERS SPECIFICATIONS

CLOSED CELL POLYETHYLENE
 BACKING ROD

EXPANDING CORK FILLER
 BOARD AS SPECIFIED

DETAIL C

NTS

EXPANSION JOINT (EJ)

SCALE 1: 20

FRONT ELEVATION

SIDE ELEVATION

PLAN

SECTION

PIT ACCESS STEP DETAIL

SCALE 1: 10

NOTE

1. WHEN POSITIONED IN STRAIGHT ALIGNMENT, STEP TO BE 400 WIDE.
2. STAGGERED STEPS TO BE 200 WIDE, STEPS TO BE STAGGERED 200 CENTRE TO CENTRE FOR ALTERNATE STEPS.
3. SPACING OF STEPS TO BE UNIFORM TO WITHIN $\pm 5\text{mm}$ IN EACH PIT.
4. STEPS TO BE IN ACCORDANCE WITH AS1657.

DRILL 30mm DIA HOLE x 120mm DEEP AND EPOXY INTO WALL WITH EPOXY MORTAR EQUAL TO EPIREX 633 (NON SAS) – IN PRECAST PITS, DEPTH OF EMBEDMENT IS TO BE IN ACCORDANCE WITH PIT MANUFACTURER'S DETAILS

24 DIA GALVANISED MILD STEEL

REFER NOTE

250 MIN – 300 MAX

200 MIN

35

250 MIN – 300 MAX

250 MIN – 300 MAX

A1 0 1 2 3 4 5 6 7 8 9 10

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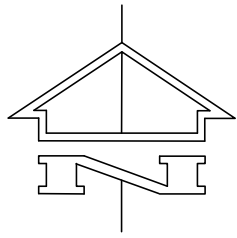
Project

**LORETO NORMANHURST
PHAROS AND STEPHEN H. AND PA1
SAFARI PARK**

Sheet Subject

DETAILS SHEET 2

Scale : A1	Drawn	Authorised
AS SHOWN	LW	
Job No	Drawing No	Revision
201435	C331	P1
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Batter

$$\frac{B10.00+X}{B10.00} \times \text{STEP} = \frac{B10.00+X}{B10.00}$$

Bulk Earthworks Step
(Step from low side to high side)

● B22.00

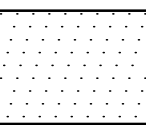
Bulk earthworks spot level

822.00

Bulk earthworks contour level

BE 22.00

Bulk earthworks platform level



Flat platforms shown with dots

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Project

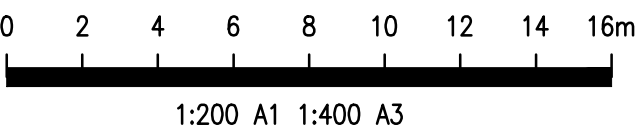
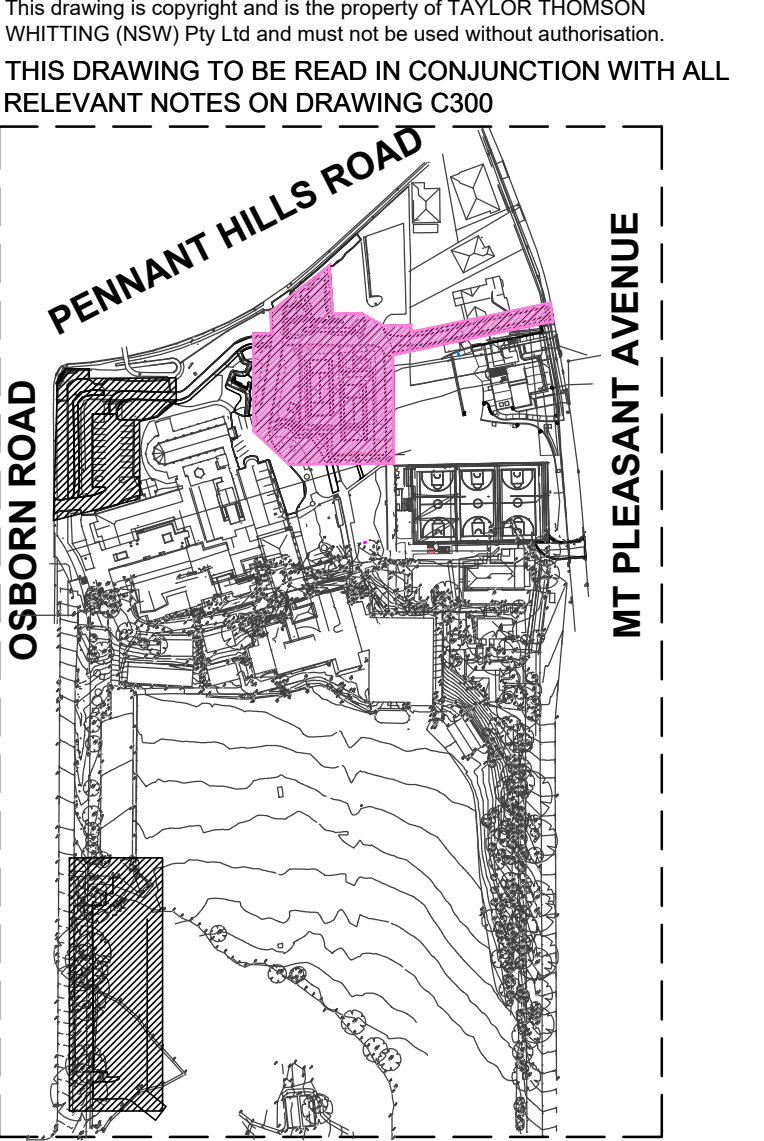
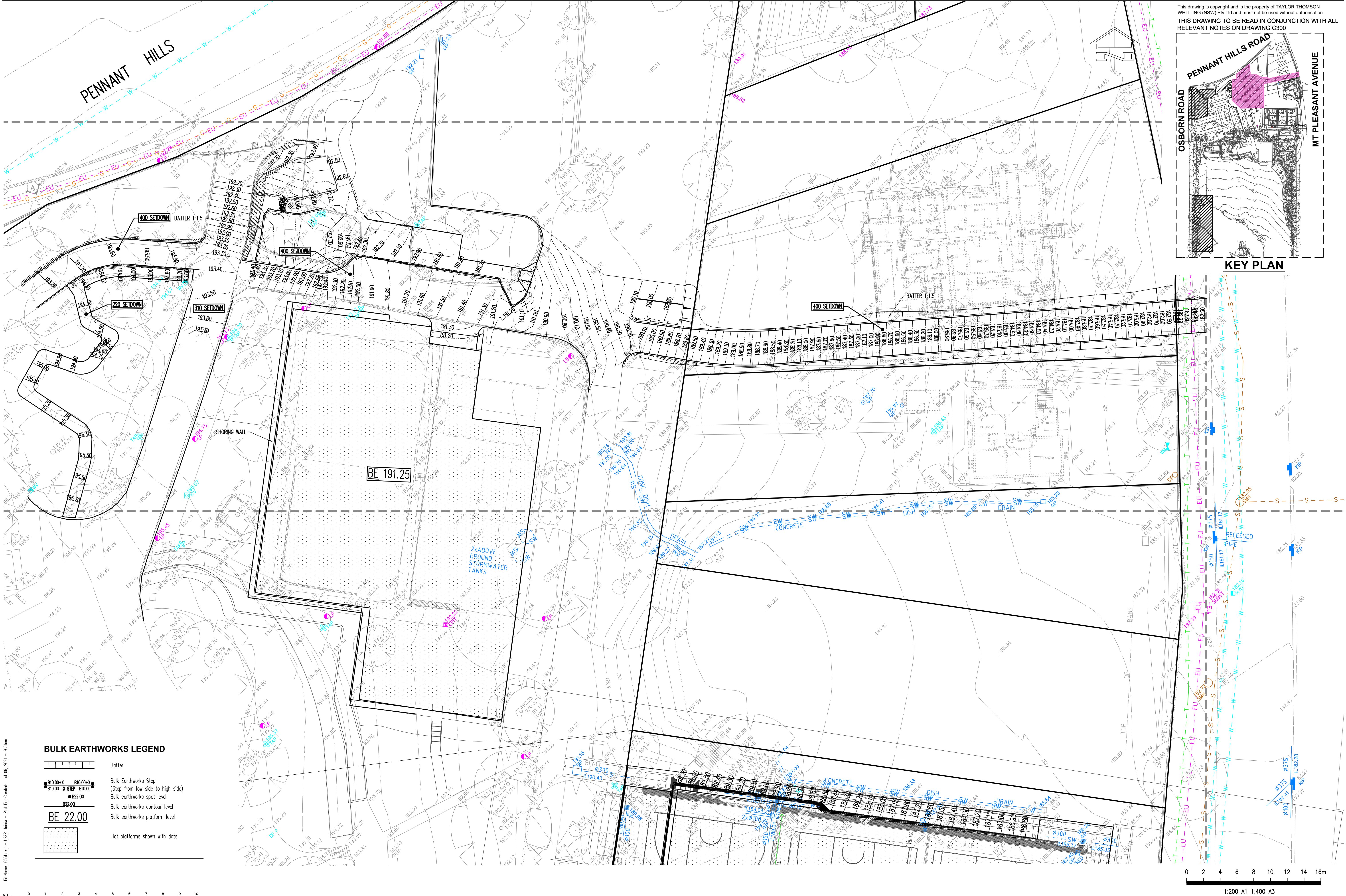
LORETO NORMANHURST
PHASE 3A AND STEEL THROUGH PA1
SARFARK

Sheet Subject
BULK EARTHWORKS - SHEET 1

Scale : A1	Drawn	Authorised
AS SHOWN	LW	
Job No	Drawing No	Revision
201435	C350	P2
Plot File Created: Jul 06, 2021 - 9:47am		

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P2	ISSUE FOR INFORMATION	GC	LW	02.06.21										
P1	ISSUE FOR TRAFFIC SSDA	GC	LW	30.10.20										
Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date



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Project
LORETO NORMANHURST
PHILIP AND EIRLINDA
GARPHARK
PA1

Sheet Subject
BULK EARTHWORKS - SHEET 2

Scale : A1	Drawn	Authorised
AS SHOWN	LW	
Job No	Drawing No	Revision
201435	C351	P3
Plot File Created: Jul 06, 2021 - 9:51am		

PathName: C:\05.dwg - User: Jahn - Plot File Created: Jul 06, 2021 - 9:52am

A12 1 2 3 4 5 6 7 8 9 10

P4	ISSUE FOR INFORMATION	GC	LW	02.06.21					
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P2	ISSUE FOR DRAFT SSDA	GC	LW	30.11.20					
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Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date

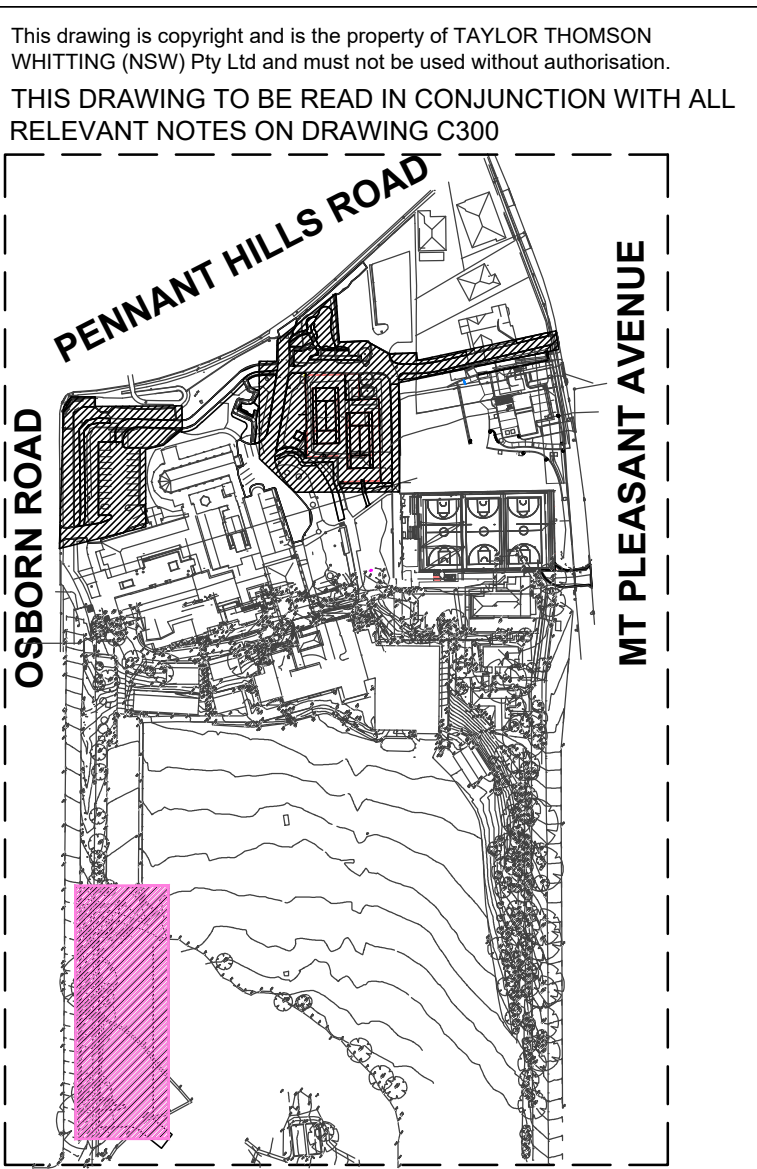
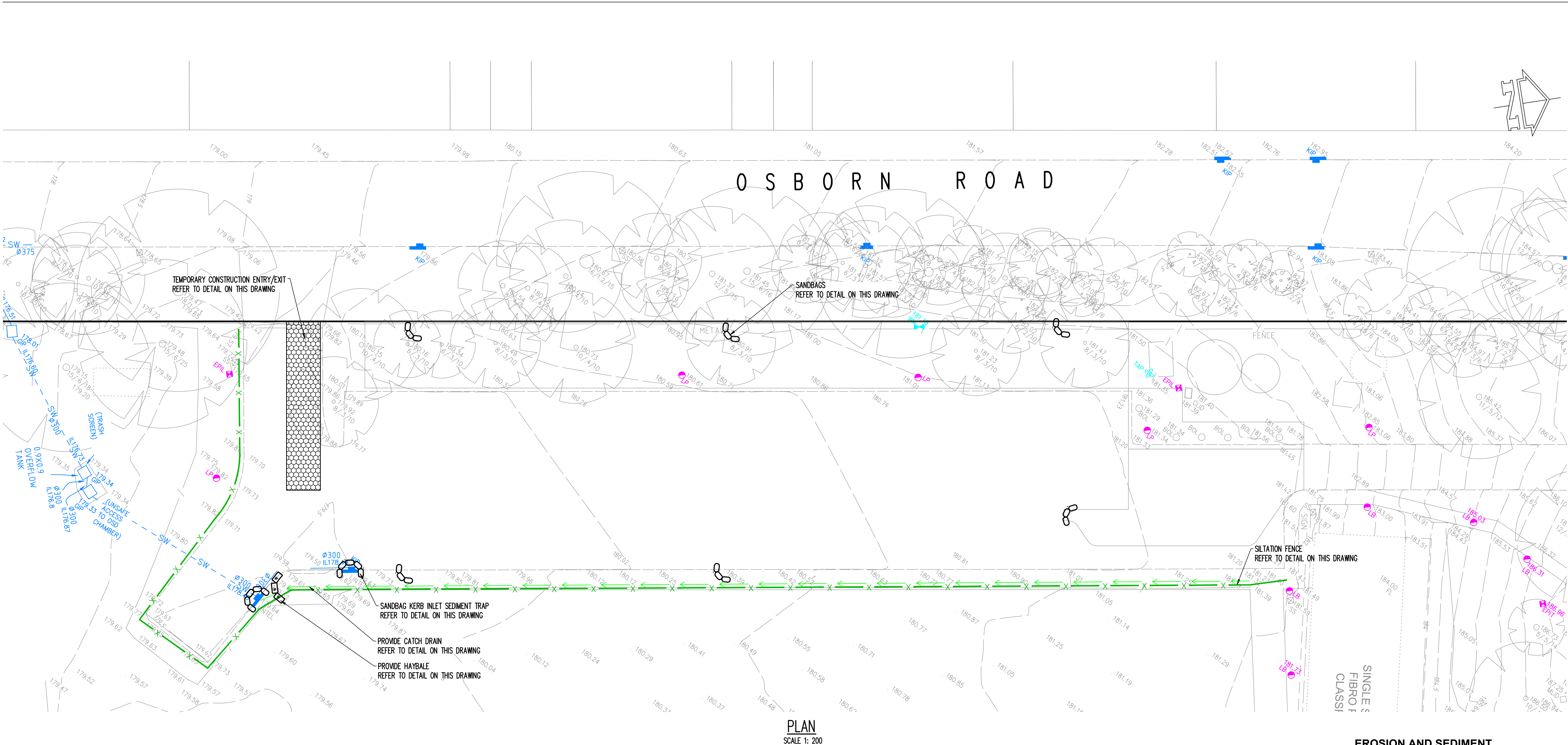
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P3A OSBORN DRIVE
SITE LINK

Sheet Subject
EROSION & SEDIMENT
CONTROL PLAN AND DETAILS

Scale : A1
1:200 U.N.O
Job No
201435
Plot File Created: Jul 06, 2021 - 9:52am
Drawing No
C405
Authorised
SB
Revision
P4



EROSION AND SEDIMENT CONTROL NOTES

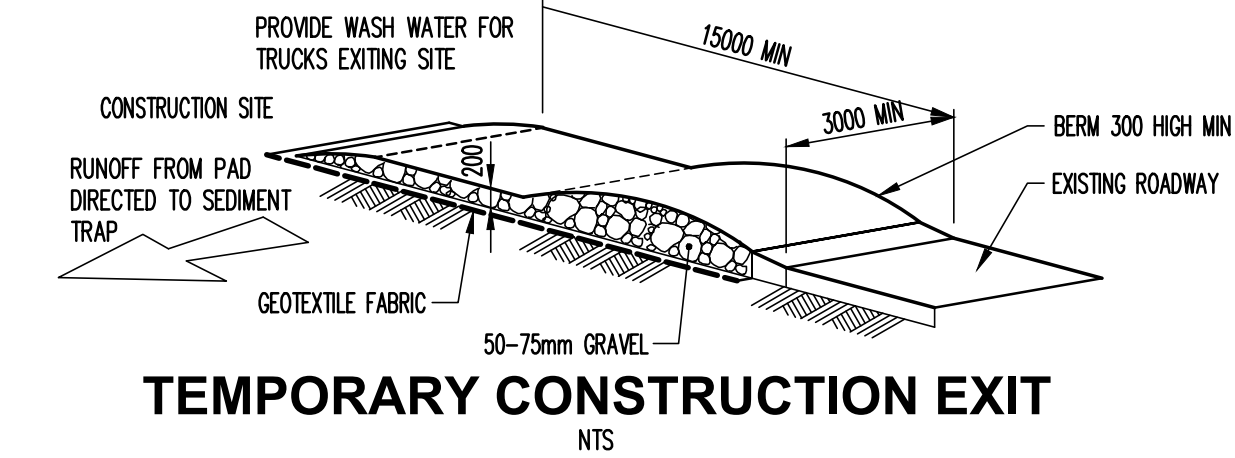
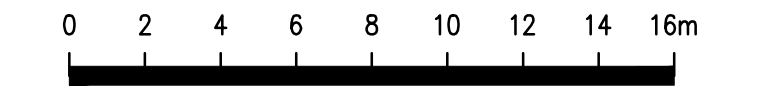
- All work shall be generally carried out in accordance with
(A) Local authority requirements,
(B) EPA – Pollution control manual for urban stormwater,
(C) LANDCOW NSW – Managing Urban Stormwater: Soils and Construction ("Blue Book").
- Erosion and sediment control **drawings and notes** are provided 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

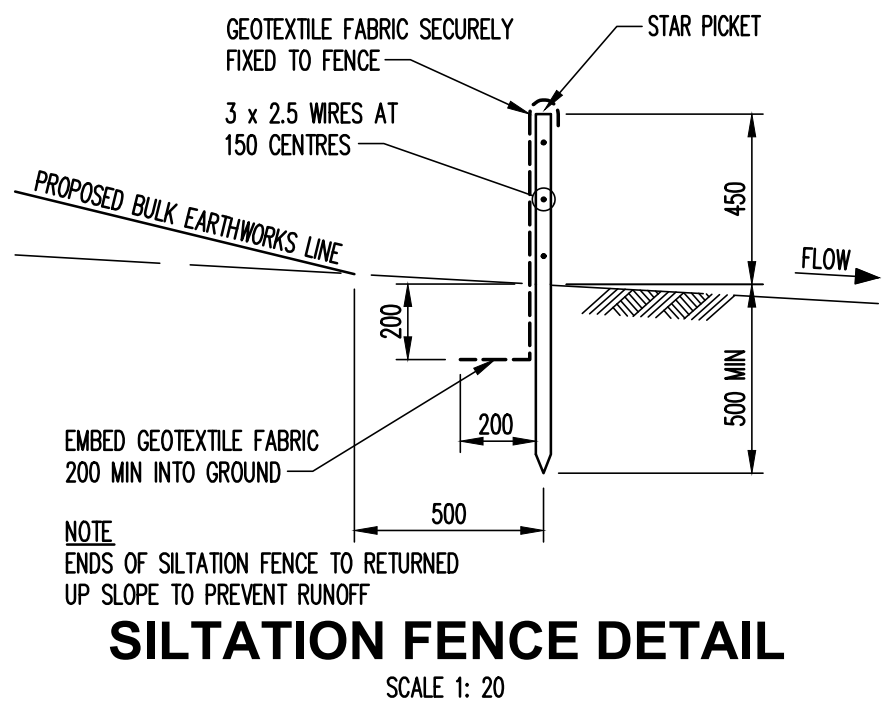
Prior to discharge of site stormwater, groundwater and seepage water into council's stormwater system, contractors must undertake water quality tests in conjunction with a suitably qualified environment consultant outlining the following:

- 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.



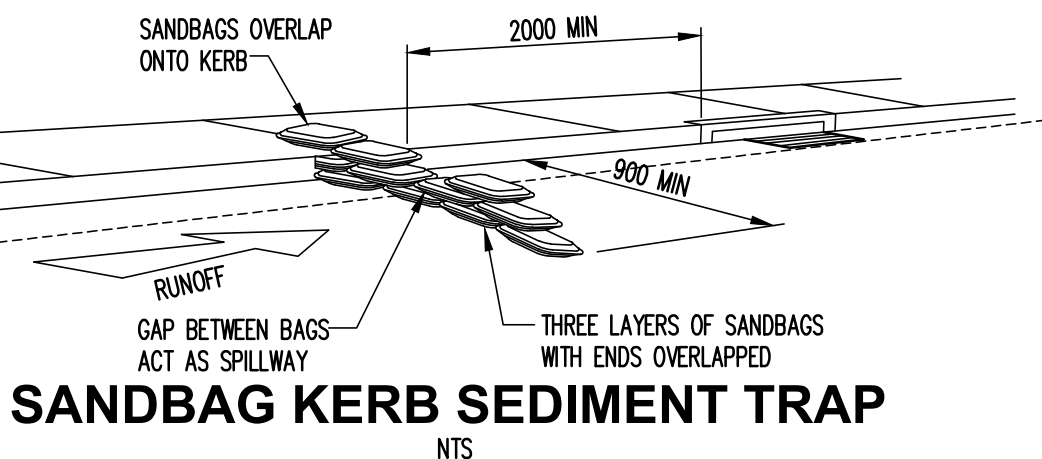
TYPICAL SECTION THROUGH CATCH DRAIN

SCALE 1: 20



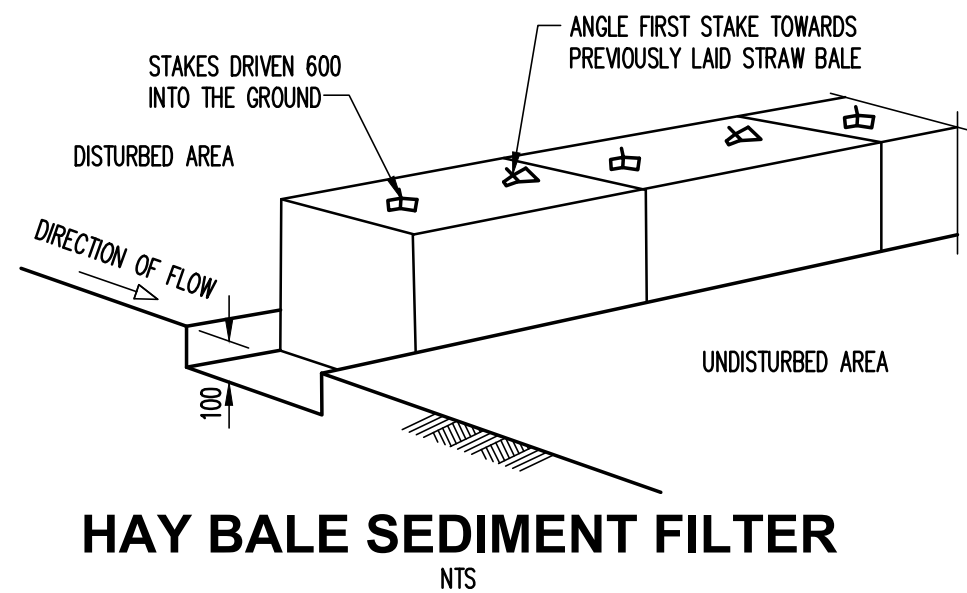
SANDBAG KERB INLET SEDIMENT TRAP

NTS



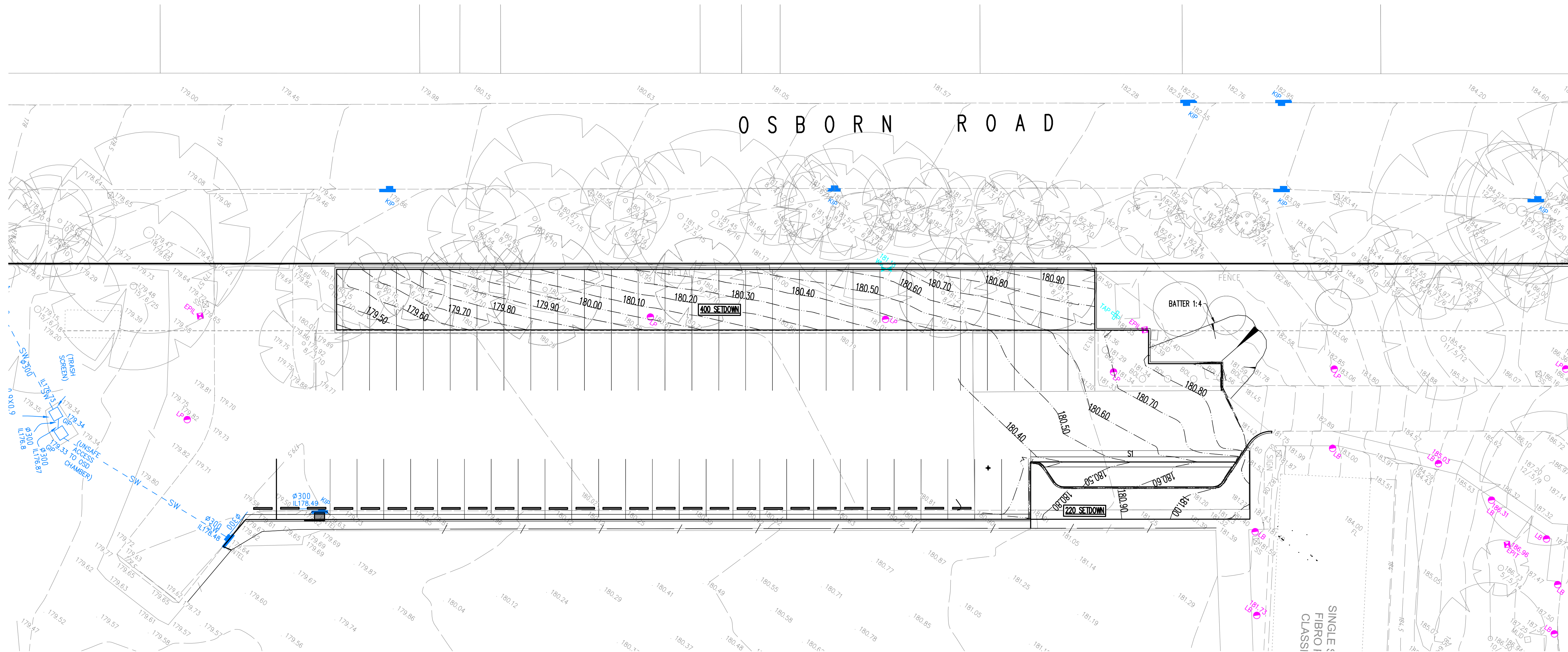
SANDBAG KERB SEDIMENT TRAP

NTS



HAY BALE SEDIMENT FILTER

NOTE: STAKE TO BE EITHER TAR COATED STAR OR 50 x 50 HARDWOOD



Batter

Bulk Earthworks Step
(Step from low side to high side)

Bulk earthworks spot level

Bulk earthworks contour level

Bulk earthworks platform level

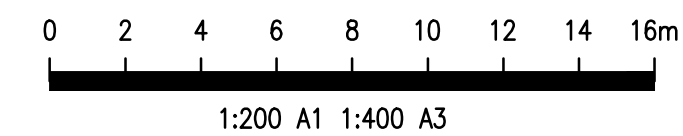
Flat platforms shown with dots

Diagram showing a cross-section with a grid. The calculation for the bulk earthworks volume is shown as:

$$\frac{B_{10.00} + X}{2} \times \frac{B_{10.00} + X}{2} = B_{22.00}$$

The result **B22.00** is underlined.

A small square with dots is shown at the bottom left, representing a flat platform.



A1 0 1 2 3 4 5 6 7 8 9 10																			
P2 ISSUE FOR INFORMATION GC LW 02.06.21																			
P1 ISSUE FOR DRAFT DA GC LW 06.04.21																			
Rev Description Eng Draft Date										Rev Description Eng Draft Date									

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Project

LORETO NORMANHURST
P1A, P3A AND THROUGH
SITE LINK

Sheet Subject

BULK EARTHWORKS

Scale : A1 1:200	Drawn JH	Authorised SB
Job No 201435	Drawing No C450	Revision P1
Plot File Created: Jul 06, 2021 - 9:54am		