WYONG HOSPITAL EXPANSION PLANNING

GENERAL NOTES

- I. Contractor must verify all dimensions and existing levels on site prior to commencement of works. Any discrepancies to be reported to the
- 2. Strip all topsoil from the construction area. All stripped topsoil shall be disposed of off-site unless directed otherwise. 3. Make smooth connection with all existing works.
- 4. 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
- 5. 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.
- 6. For all temporary batters refer to geotechnical recommendations.

REFERENCE DRAWINGS

I. 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.

Dwg No Rev Date

Consultant Dwg Title

19152-02 02 04.08.1 BEE&LETHBRIDGE DETAILS SURVEY TREHY INGOLD NEATE DETAIL SURVEY PLAN 22604-SV01 A 15.05.18 DETAIL SURVEY PLAN 1801916-DSA01A 20.12.18 REVIT MODEL 55372—HDR—AR—MDL—000103 10.01.19

SURVEY AND SERVICES INFORMATION SURVEY

: CONTACT THE SURVEYOR

Origin of levels : P.M.71265 RL13.600 : A.H.D. AUSTRALIAN HEIGHT DATUM Datum of levels Coordinate system : MGA Survey prepared by: BEE&LETHBRIDGE

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

subsequent to installation. Taylor Thomson Whitting does not guarantee that the services information shown on these drawings shows more than the presence

installation may not reflect changes in the physical environment

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

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.

immediately to the Engineer/Superintendent.

BOUNDARY AND EASEMENT NOTE

The property boundary and easement locations shown on Taylor Thomson Whitting drawing's have been based from information received from : BEE&LETHBRIDGE

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.

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. 2. 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. 4. 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

SIGNS AND LINE MARKING NOTES

. Pavement marking and sign posting on public roads shall be in accordance with the requirements of the relevant Road Authority. The contractor shall obtain these requirements from the Road

Contractor is to provide guide posts, spaced in accordance with AS1742.2. They are to be located near all head walls and pipe

3. Raised pavement markers to be in accordance with AS1742.2 4. Where existing pavement marking conflicts with proposed, it is to be removed.

5. Lane widths do not include width of gutter. 6. Line marking plan does not define boundaries.

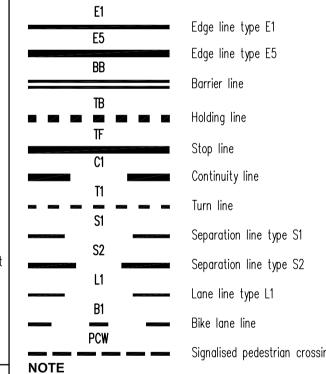
7. Erect temporary sign 'changed traffic conditions ahead' 120m ahead of new work in both directions. 8. Establish the location of existing utility services and locate new

signs clear of these installations. 9. The sloped face of the SF median kerbs which adjoin through lanes, are to be painted white in lieu of an E3 edge line. The reflective payement markers normally associated with an E3 edge line are to be located on the pavement adjacent to the SF kerb.

. Bicycle pavement markings and sign posting to be in accordance

LINEMARKING LEGEND

with Austroads Standards.



Line marking to be in accordance with AS1742.2 and the

relevant local or state authority guidelines

Signalised pedestrian crossing

1. 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.

2. All trench backfill material shall be compacted to the same density with an approved select material and compacted to a minimum

98% standard maximum dry density in accordance with AS 1289 5.1.1

REINFORCEMENT NOTES

1. Fix reinforcement as shown on drawings. The type and grade is indicated by a symbol as shown below. On the drawings this is followed by a numeral which indicates the size in

N. Hot rolled ribbed bar grade D500N grade R250N R. Plain round bar SL. Square mesh RL. Rectangular mesh

. Provide bar supports or spacers to give the following concrete cover to all reinforcement unless otherwise noted on drawings.

40 when cast directly in contact with around.

Footings - 40 top, 40 bottom, 40 sides. 40 top, 40 bottom, 40 when exposed to weather or ground. 40 generally. - 40 when cast in forms but later exposed to

. Cover to reinforcement ends to be 50 mm u.n.o. 4. Provide N12-450 support bars to top reinforcement as

required, Lap 500 U.N.O. Maintain cover to all pipes, conduits, reglets, drip grooves etc All coas to be standard coas unless noted otherwise. Fabric end and side laps are to be placed strictly in accordance with the manufacturers requirements to achieve a

full tensile lap. Fabric shall be laid so that there is a maximum of 3 layers at any location.

B. Laps in reinforcement shall be made only where shown on the drawings unless otherwise approved. Lap lengths as per table

CONCRETE NOTES

Place concrete of the following characteristic compressive strength f'c

EXPOSURE CLASSIFICATION: External:

is defined in AS 1373.				
ocation	AS 1379 f'c MPa at 28 days	Specified Slump	Nominal Agg. Size	
ootpath lits	S32 S25	80 80	20 20	-
T '00'				

Use Type 'GP' cement, unless otherwise specified All concrete shall be subject to project assessment and testing to

Consolidate by mechanical vibration. Cure all concrete surfaces as directed in the Specification. For all falls in slab, drip grooves, reglets, chamfers etc. refer to Architects drawings and specifications.

. Unless shown on the drawings, the location of all construction join shall be submitted to Engineer for review. 6. No holes or chases shall be made in the slab without the approval

'. Conduits and pipes are to be fixed to the underside of the top reinforcement laver. 8. Slurry used to lubricate concrete pump lines is not to be used in

any structural members. 9. All slabs cast on ground require sand blinding with a Concrete

The design, certification, construction and performance of the formwork, falsework and backpropping shall be the responsibility of the contractor. Proposed method of installation and removal of formwork is to be submitted to the superintendent for comment prior to work being carried out.

SITEWORKS NOTES

as the adjacent material. 3. All service trenches under vehicular pavements shall be backfilled

STORMWATER DRAINAGE NOTES

I Stormwater Design Criteria : (A) Average recurrence interval -1:100 years for roof drainage to first external pit 1:20 years for paved and landscaped areas (B) Rainfall intensities -

Time of concentration: 6 minutes 1:100 years = 191 mm/hr1:20 years = 206 mm/hr(C) Runoff coefficients - $C_{100} =$ Roof areas: Roads and paved areas: $C_{20} = 0.9$

Landscaped areas: $C_{20} = 0.6$ 2. Pipes 300 dia and larger to be reinforced concrete Class "2" approved spigot and socket with rubber ring joints U.N.O.

3. Pipes up to 300 dia shall be sewer grade uPVC with solvent 4. Equivalent strength VCP or FRP pipes may be used subject

to approval. 5. Precast pits may be used external to the building subject to approval by Engineer

6. Enlargers, connections and junctions to be manufactured fittings where pipes are less than 300 dia. . Where subsoil drains pass under floor slabs and vehicular

payements, unslotted uPVC sewer grade pipe is to be used. 8. Grates and covers shall conform with AS 3996-2006, and AS 1428.1 for access requirements.

9. Pipes are to be installed in accordance with AS 3725. All bedding to be type H2 U.N.O. 10. Care is to be taken with levels of stormwater lines. Grades

l. All stormwater pipes to be 150 dia at 1.0% min fall U.N.O. 2. Subsoil drains to be slotted flexible uPVC U.N.O. 13. Adopt invert levels for pipe installation (grades shown are only nominal).

shown are not to be reduced without approval.

PIT SCHEDULE

Note: Grate size does not necessarily reflect pit size, refer pit type details, shown on detail sheets — **C152**

	Final internal pit dimensions are to comply with AS3500								
	Type	Description	Cover (Clear Opening)	Number					
	A	Kerb inlet pit 1800 lintel	450 x 900 Class D galvanised mild steel grate hinged to frame	2,4,5,6,7,8 9,10,11,12, 13,14,15,18					
е				17,18					
	В	Surface inlet pit	600 x 900 Class D galvanised mild steel grate hinged to frame	1,51,52					
	С	Headwall		3					

JOINTING NOTES

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.

3. Where possible joints should be located to match kerbing and / or adjacent pavement joints.

4. All	pedestrian	tootpath	jointings	as to	ollows (un	0).			
		FACE	0 F	ΚE	R B				
MPJ .	WPJ	3		WPJ	WPJ		 		
	1.5 x W (1.5m MAX)								
	6.0m MAX								

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.

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 practicably possible from existing structure(s).

EXISTING TREES

to be protected. To prevent damage to trees and/or personnel, site works to be carried out as far as practicably possible from existing trees. Advice needs to be sought from Arborist and/or Landscape Architect on measures required to protect trees.

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

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

GROUND CONDITIONS

Contractor to be aware of the site geotechnical conditions.

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

Contractor to be aware of potential hazards due to working in confined spaces such as stormwater pits, trenches and/or tanks.

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

prevent pollutants from construction works contaminating the surrounding environment. SITE ACCESS/EGRESS

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

EXISTING STRUCTURES

GROUNDWATER

Contractor to be aware existing trees exist within the site which need

EXCAVATIONS

approval of Geotechnical Engineer.

Refer to geotechnical report by (Douglas Partners) for

HAZARDOUS MATERIALS

(Douglas Partners) for details.

CONFINED SPACES

Contractor to provide safe working methods and use appropriate PPE when entering confined spaces.

WATER POLLUTION Contractor to ensure appropriate measures are taken to

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.

SURVEY LEGEND

Surface level Kerb line Retaining wall

IL10.00

IL9.65

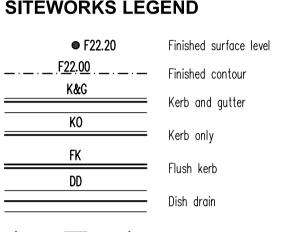
GD

600 ø '2'

Q=345 L/s

Existing boundary

EASEMENT FOR _____(__m WIDE)



Invert level upstream Pipe size and class Pipe grade Flow (Litres per second) Invert level downstream Grated drain

and line with

Stormwater pit, flow direction

Intermediate riser with subsoil drainage line (100 dia) ---- FP Flushing point with subsoil drainage line (100 dia) **DP** Down pipe

Concrete encased stormwater line Taper kerb to zero height over 500 mm

Blockwork retaining wall

Dowelled expansion joint Keyed construction joint WPJ Weakened plane joint

— Tied keyed joint

PAVEMENT LEGEND



40mm Thickness asphaltic concrete (AC10) on 150mm Compacted thickness fine crushed rock (DGB20) on 200mm Compacted thickness fine crushed rock (DGS40)



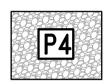
50mm Thickness asphaltic concrete (AC10) on 150mm Compacted thickness fine crushed rock (DGB20) on 250mm Compacted thickness fine crushed rock (DGS40)

100mm Thickness concrete (f'c=32MPa) with SL82 fabric



25mm Sand bedding on compacted subgrade

(40 top cover) on



200mm Compacted fine crushed rock (DGB20)

DRAWING SCHEDULE (TTW)

Drawing Title Drawing No C101 **NOTES & LEGENDS SHEET** EROSION AND SEDIMENT CONTROL PLAN C102 C105 **OVERALL SITEWORKS PLAN**

C106 SITEWORKS PLAN SHEET 1 C107 **SITEWORKS PLAN SHEET 2** C108 **SITEWORKS PLAN SHEET 3 - LEVEL 1** C109 SITEWORKS PLAN SHEET 4 - LEVEL 2 C110 **SITEWORKS PLAN SHEET 5 - LEVEL 2**

SITEWORKS PLAN SHEET 6

SITEWORKS PLAN SHEET 7

C120 **SECTION SHEET 1**

C130 **BULK EARTHWORKS PLAN** C140 **TURNING PATH SHEET**

DETAILS SHEET 2

C151 **DETAILS SHEET 1**

C111

C112

C152

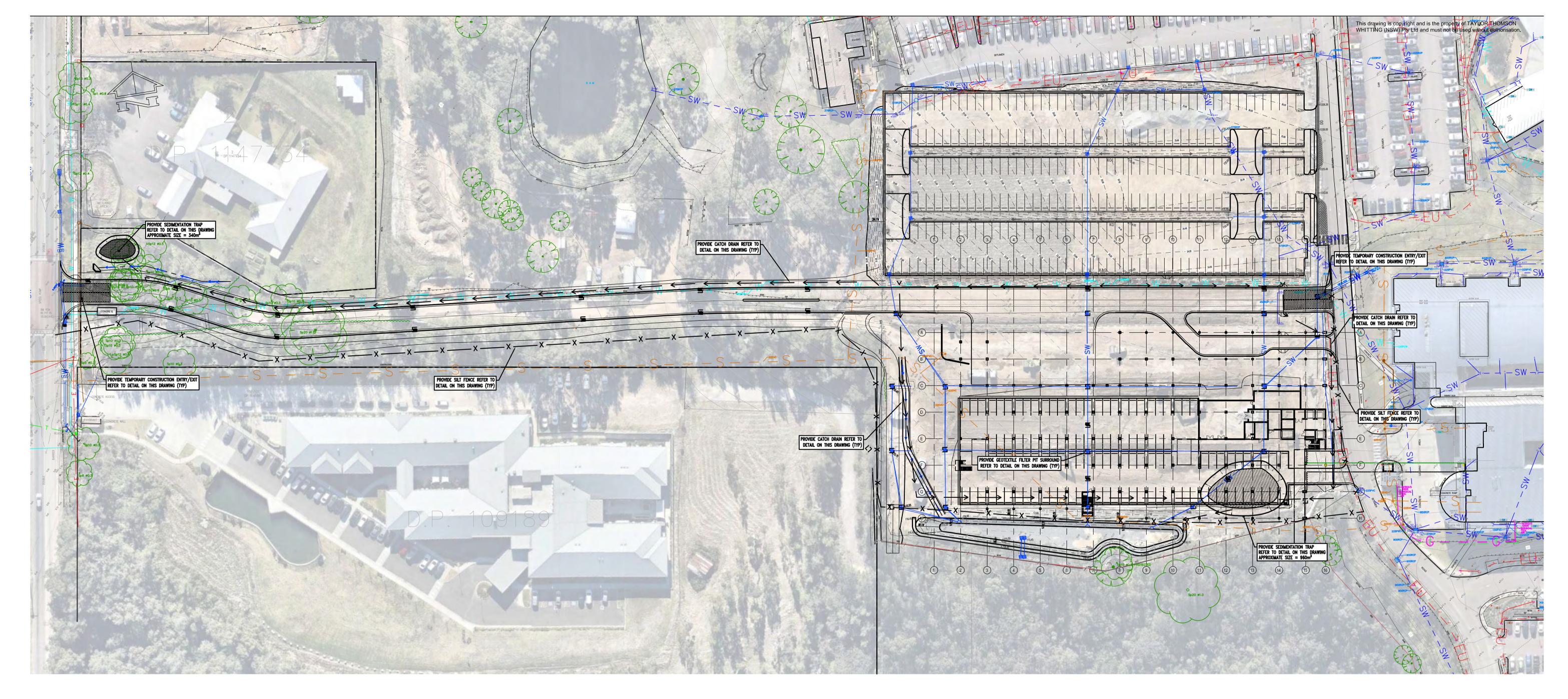
FOR APPROVAL

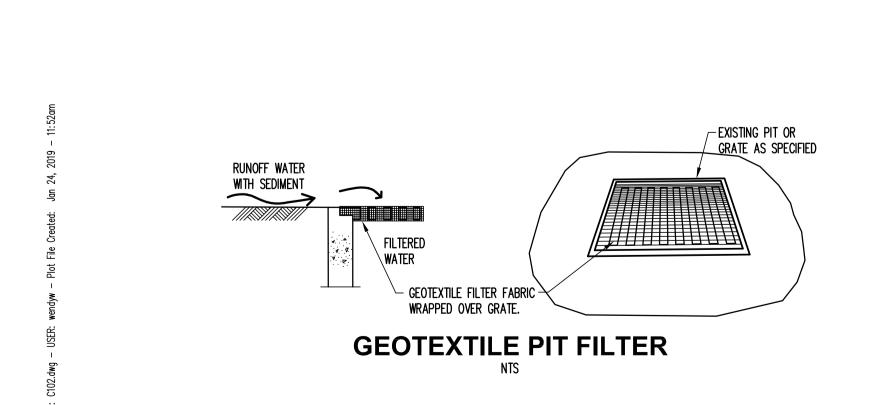
NTS SB WW WYONG HOSPITAL EXPANSION NOTES AND LEGENDS SHEET **Taylor Thomson** PLANNING 181458 612 9439 7288 | 48 Chandos Street St Leonards NSW 2065 Plot File Created: Jan 24, 2019 - 11:37am

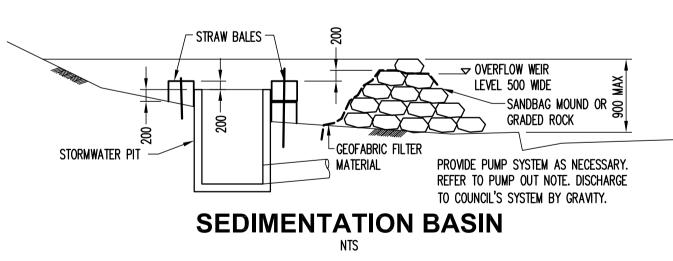
P3

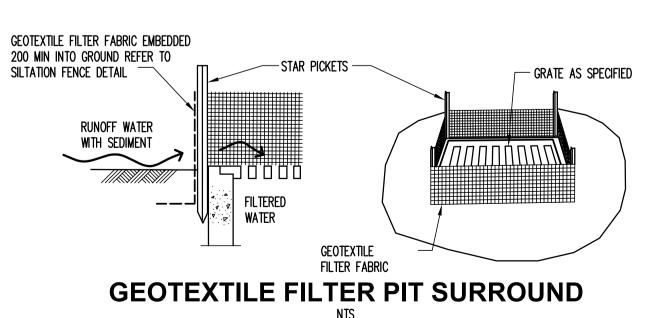
SB WW 09.11.18 SB WW 11.10.18 Eng Draft Date Rev Description

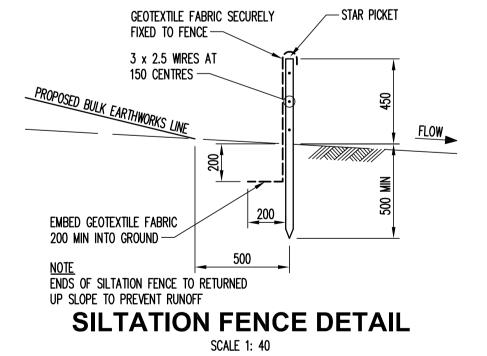
LEVEL 1, 110 WALKER STREET, NORTH SYDNEY. NSW 2060 Eng Draft Date Rev Description Eng Draft Date

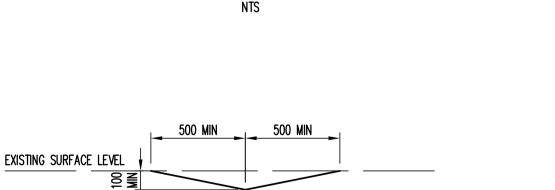


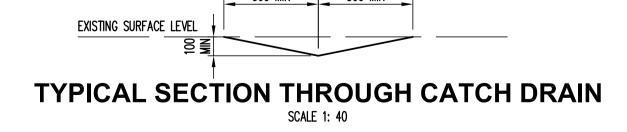












50-75mm GRAVEL-

TEMPORARY CONSTRUCTION EXIT

PROVIDE WASH WATER FOR TRUCKS EXITING SITE

GEOTEXTILE FABRIC -

CONSTRUCTION SITE

FOR APPROVAL

— BERM 300 HIGH MIN

— EXISTING ROADWAY

				Architect	Civil Engineer		Project	Sheet Subject	Scale : A1	Drawn Au	ıthorised
P5 FOR APPROVAL	SB WW 24.01.19			HDR	T:	aylor	WYONG HOSPITAL EXPANSION	SEDIMENT & EROSION	1:600	WW SI	В
P4 FOR APPROVAL	SB WW 19.11.18			LEVEL 1, 110 WALKER STREET, NORTH SYDNEY,							
P3 FOR APPROVAL	SB WW 09.11.18			NSW 2060		homson	PLANNING	CONTROL PLAN	Job No	Drawing No	Revision
P2 FOR COORDINATION	SB RH 22.10.18			11011 2000	W W	Vhitting			181458	C102	P5
P1 FOR COORDINATION	SB RH 11.10.18								-		
Rev Description	Eng Draft Date Rev Description	Eng Draft Date Rev Description	Eng Draft Date	612 9439 7288 48 Chandos Street St Leonards NSW 2065					Plot File Created: Jan 24, 2019 - 11:52am		

