WARRAWONG COMMUNITY HEALTH CENTRE

91 COWPER ST, WARRAWONG, NSW 2052



CIVIL ENGINEERING WORKS DRAWING LIST:

5988-CV-10802 DETAIL SHEET 2

5988-CV-10000 COVER SHEET
5988-CV-10001 NOTES SHEET

5988-CV-10101 EROSION AND SEDIMENT CONTROL PLAN
5988-CV-10110 EROSION AND SEDIMENT CONTROL DETAIL SHEET

5988-CV-10201 BULK EARTHWORKS PLAN SHEET 1
5988-CV-10202 BULK EARTHWORKS PLAN SHEET 2

5988-CV-10301 SITEWORKS PLAN SHEET 1
5988-CV-10302 SITEWORKS PLAN SHEET 2
5988-CV-10303 SITEWORKS PLAN SHEET 3

5988-CV-10401 PAVEMENT PLAN SHEET 1
5988-CV-10402 PAVEMENT PLAN SHEET 2
5988-CV-10403 DETAIL SHEET 1

02	18/03/24	ISSUE FOR REF	BEJ	TAH					
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Level 4, 2 Glen Street Milsons Point NSW 2061 Australia

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WARRAWONG COMMUNITY
HEALTH CENTRE REF SUBMISSION

91 Cowper St, Warrawong, NSW 2052

drawing title
COVER SHEET

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	scale at A1	drawn ALA	checked TAH	approved TAH
	project no. 5988	drawing no. 5988-	CV-1000	0 rev.

construct contract. 2. The contractor shall retain the responsibility to undertake detailed design, confirm compliance with relevent standards, concent

conditions & the specification. 3. The contractor shall be responsible for ensuring the final design

is co-ordinated fully with other consultants. 4. No variation will be accepted for design amendments required to meet the functional objective of this documentation.

GENERAL NOTES

1. 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; the Contractor is to ensure that the drawings used for construction have been approved by all relevant authorities prior to commencement site.

6. 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.

7. For all temporary batters refer to geotechnical recommendations.

SURVEY AND SERVICES INFORMATION

Origin of levels

footprint.

Datum of levels : A.H.D. AUSTRALIAN HEIGHT DATUM Coordinate system : MGA2020 Survey prepared by: LANDTEAM AUSTRALIA
Setout Points: CONTACT THE SURVEYOR

enstruct 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 enstruct 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.

enstruct 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.

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

CIVIL SAFETY IN DESIGN

enstruct (NSW) Pty Ltd operates under Safe Work Australia's code of Conduct for the Safe Design of Structures. These drawings shall be read in conjunction with the enstruct Civil risk and Solutions Register.

Under the Code of Conduct it is the Client's responsibility to provide a copy of the Civil Risk and Solutions Register to the Principal Contractor. It is the Principal Contractor's responsibility to review the hazards and risks identified during the design process to ensure a safe

workplace is maintained for the construction, maintenance and

SITEWORKS NOTES

1. All basecourse material to comply with RMS specification No 3051 and compacted to minimum 98% modified dry density in accordance with AS 1289

eventual demolition of the civil infrastructure.

2. All trench backfill material shall be compacted to the same density as the adjacent material. 3. 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

DBYD SERVICES NOTE

"Public Service Utility information shown on plan has been complied from information received from Dial Before You Dig inquiry, reference Number which was obtained on 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."

CONCRETE NOTES

EXPOSURE CLASSIFICATION: External 32

CONCRETE

Place concrete of the following characteristic compressive strength f'c as defined in AS 1379.

de delinied in 7.6 1070.								
Location	AS 1379 f'c MPa	Specified	Nominal					
	at 28 days	Slump	Agg. Size					
Kerbs	S20	80	20					
Pavements	S32	80	20					
Retaining wall footing	S40	80	20					

1. Use Type 'GP' cement, unless otherwise specified.

2. All concrete shall be subject to project assessment and testing to AS

3. Consolidate by mechanical vibration. Cure all concrete surfaces as directed in the Specification.

4. For all falls in slab, drip grooves, reglets, chamfers etc. refer to Architects drawings and specifications.

5. The location of all construction joints shall be submitted to Engineer for review.

6. No holes or chases shall be made in the slab without the approval of

the Engineer. 7. Slurry used to lubricate concrete pump lines is not to be used in any

8. All building slabs cast on ground require sand blinding with a

FORMWORK

1. 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.

STORMWATER DRAINAGE NOTES

Concrete Underlay. Refer to structural drawings.

1. Stormwater Design Criteria:

(A) Average exceedance probability 1% AEP for roof drainage to first external pit

5% AEP for paved and landscaped areas (B) Rainfall intensities -

Time of concentration: 5 minutes 1% AEP = 306 mm/hr

5% AEP = 217 mm/hr (C) Rainfall losses -

Impervious areas: IL= 1.0 mm, CL = 0 mm/hr Pervious areas: IL=16.5 mm, CL=1.56mm/hr

2. Pipes 300 dia and larger to be reinforced concrete Class "2" approved spigot and socket with rubber ring joints U.N.O. Pipes in public roadways (including public

domain) to be class "4" reinforced concrete. 3. Pipes up to 225 dia may be sewer grade uPVC with solvent welded joints, subject to approval by the

5. Enlargers, connections and junctions to be manufactured

fittings where pipes are less than 300 dia. 6. Pipes are to be installed in accordance with AS 3725. All bedding to be type H2 U.N.O.

7. Care is to be taken with invert levels of stormwater lines. Grades shown are not to be reduced without approval.

8. Adopt invert levels for pipe installation (grades shown are only nominal). 8. All downpipe connections are to be 150mm DIA or the

same size as the downpipe (whichever is larger) laid at 1% minimum fall connection to the nearest pit. Minimum cover 450mm in non-trafficable landscaped areas. 9. Pits in roadways (including public domain) are to be

insitu to council details. 10. Pit grates and covers shall conform with AS3996-2006,

and AS1428.1 for access requirements.

SUBSOIL NOTES

Subsoil drains to be slotted flexible uPVC U.N.O. All subsoil drainage shall outlet to drainage pits or land

3. Pavement subsoil drains are to be placed in accordance with standard drawings behind all kerb and gutter, on the low side of all pavements, and road

crossings at sag vertical curves. 4. Where subsoil drains pass under floor slabs and/or vehicular pavements, unslotted uPVC sewer grade pipe is to be used.

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Infrastructure

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WARRAWONG COMMUNITY **HEALTH CENTRE -REF SUBMISSION**

91 Cowper St, Warrawong, NSW 2052

NOTES SHEET

ISSUE FOR REF NTS

5988-CV-10001 5988

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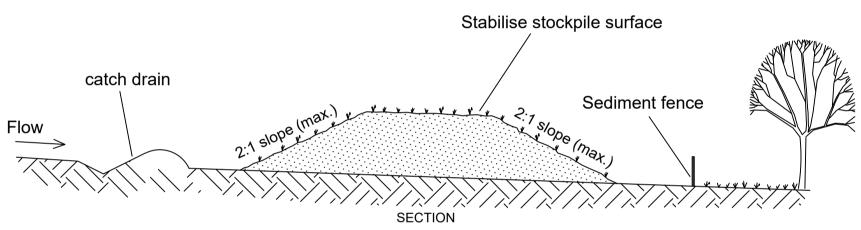
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REF SUBMISSION

91 Cowper St, Warrawong, NSW 2052

EROSION AND SEDIMEN
CONTROL PLAN

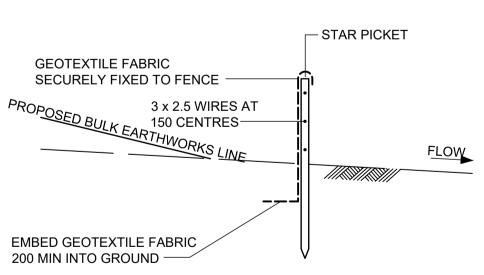
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Construction Notes

- 1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER
- FLOW, ROADS AND HAZARD AREAS. COORDINATE WITH ARBORIST IF REQUIRED. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
- WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
- WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP 5. CONSTRUCT EARTH BANKS (TYP) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT
 - FENCES (TYP) 1 TO 2 METRES DOWNSLOPE. REFER TO TYPICAL DETAILS

STOCKPILES NTS



NOTE
ENDS OF SILTATION FENCE TO RETURNED
UP SLOPE TO PREVENT RUNOFF SILTATION FENCE DETAIL
SCALE 1:20

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EROSION AND SEDIMENT CONTROL DETAIL SHEET

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5988-CV-10110 5988

Totals

5825.315sq.m 4263.478 Cu. M. 679.658 Cu. M. 3583.820 Cu. M. Cut>

Surface Analysis: Elevation Ranges						
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)			
1		-4.000	-3.500			
2		-3.500	-3.000			
3		-3.000	-2.500			
4		-2.500	-2.000			
5		-2.000	-1.500			
6		-1.500	-1.000			
7		-1.000	-0.500			
8		-0.500	0.000			
9		0.000	0.500			
10		0.500	1.000			
11		1.000	1.500			
12		1.500	2.000			

BULK EARTHWORKS MODEL NOTES

- 1. THIS DRAWING IS AN ESTIMATE FOR INFORMATION ONLY WHICH SHOULD NOT BE TAKEN AS AN ACCURATE MEASUREMENT AND SHOULD NOT BE USED FOR CONSTRUCTION.
- 2. THIS MODEL REPRESENTS A LEVEL COMPARISON BETWEEN:
 A) THE EXISTING SURFACE LEVELS, AND
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THIS ESTIMATE DOES NOT INCLUDE EXCAVATION FOR

- ANY BELOW GROUND SERVICES INCLUDING STORMWATER INFRASTRUCTURE.

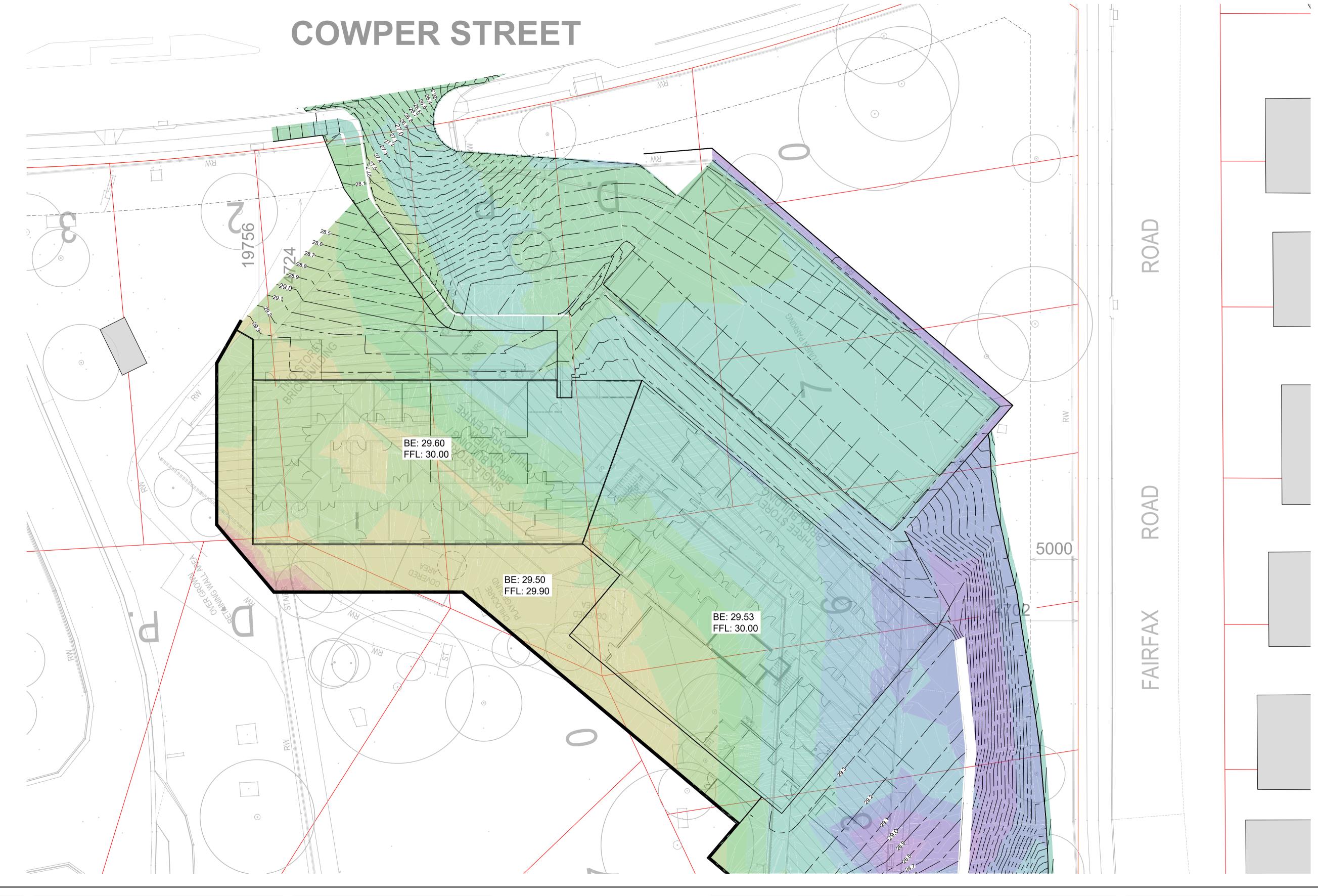
 5. NO ALLOWANCE HAS BEEN CONSIDERED FOR SERVICE TRENCHES, IN GROUND TANKS,
- STRUCTURAL FOOTINGS, PILING, FLOOR SLABS OR LIFT PITS.

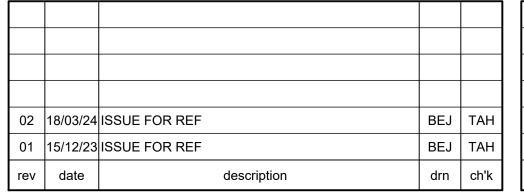
 6. NO BULKING FACTOR HAVE BEEN APPLIED TO THE
- BULK EXCAVATION VOLUMES.

 7. IT HAS BEEN ASSUMED THAT ALL EXCAVATED MATERIAL IS NOT CONTAMINATED AND CAN BE USED AS FILL MATERIAL ON SITE (NOT INCLUDING TOPSOIL). IF CONTAMINATION IS PRESENT, A SEPARATE
- 8. ANY DAMAGE TO EXISTING ROADS OR EXISTING BUILDINGS WILL BE RECTIFIED BY THE CONTRACTOR AT HIS EXPENSE.

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description

drn ch'k

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BULK EARTHWORKS
SHEET 1

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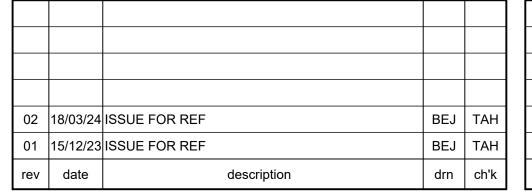
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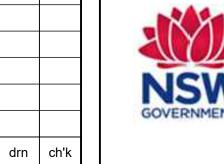
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description

NSW Health Infrastructure

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BULK EARTHWORKS
SHEET 2

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Totals

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
Surface Bulk Volumes_Warrawong	1.000	1.000	5825.315sq.m	4263.478 Cu. M.	679.658 Cu. M.	3583.820 Cu. M. <cut></cut>

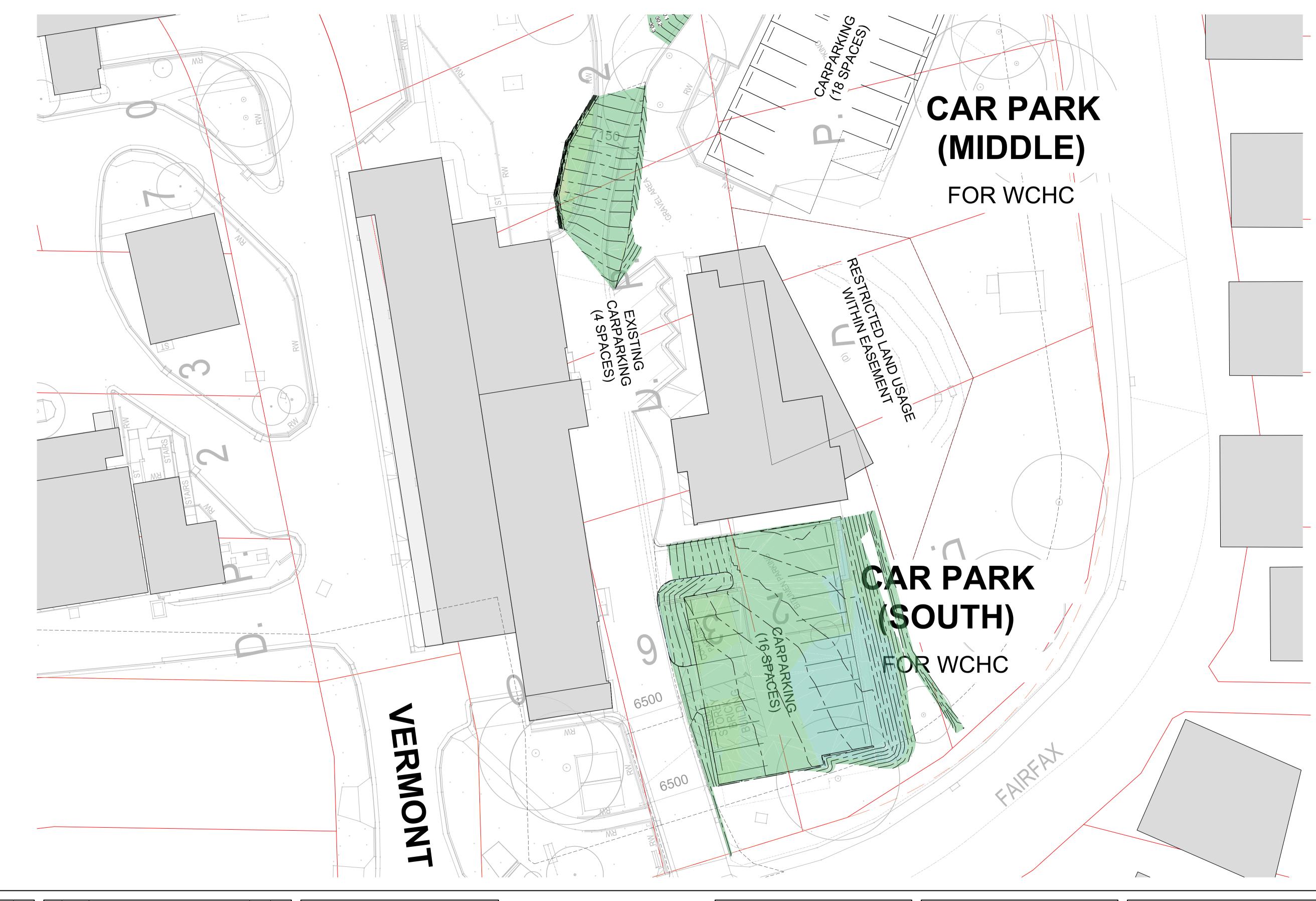
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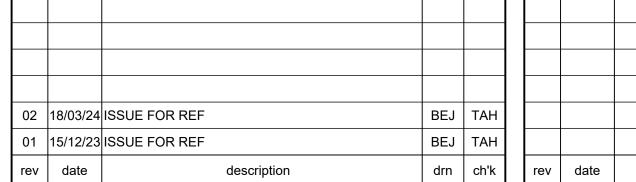
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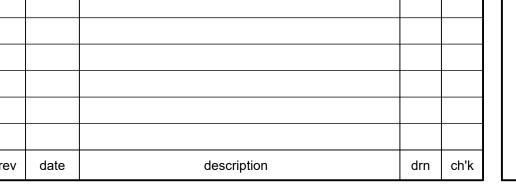
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drawing title
BULK EARTHWORKS
SHEET 3

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