

HUNTER INDOOR SPORTS CENTRE

2 MONASH ROAD, BROADMEDOW, NSW, 2292

CIVIL ENGINEERING PACKAGE



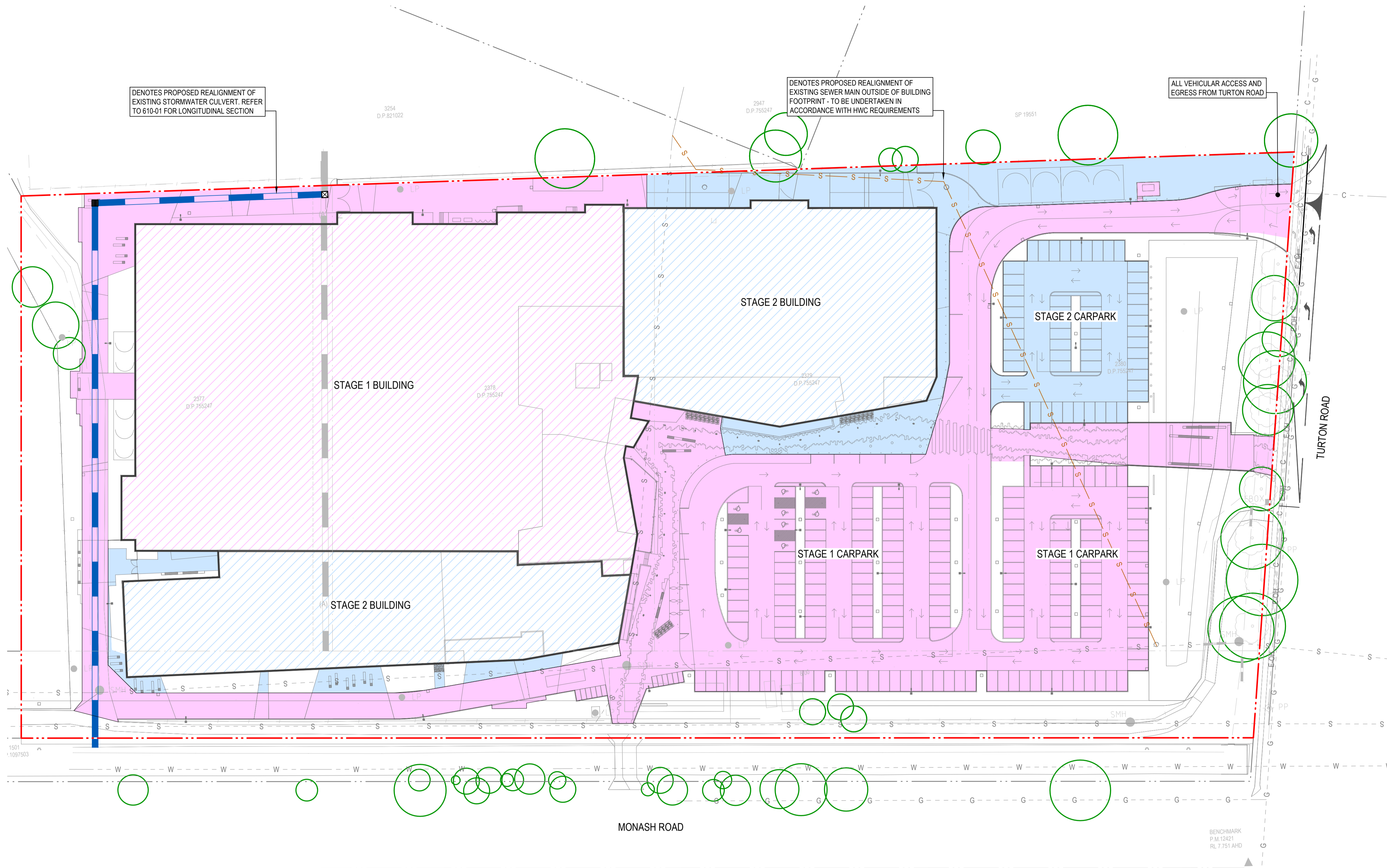
LOCALITY PLAN

IMAGE SOURCE : NEARMAPS

DRAWING LIST

| DRAWING | TITLE |
|------------------|--|
| 250106-DA-000-01 | COVER SHEET, DRAWING LIST AND LOCALITY PLAN |
| 250106-DA-030-01 | GENERAL ARRANGEMENT PLAN |
| 250106-DA-110-01 | CONCEPT EROSION AND SEDIMENT CONTROL PLAN |
| 250106-DA-130-01 | CONCEPT EROSION AND SEDIMENT CONTROL DETAILS |
| 250106-DA-210-01 | BULK EARTHWORKS PLAN |
| 250106-DA-310-01 | CONCEPT CIVIL WORKS PLAN STAGE 1 |
| 250106-DA-320-01 | CONCEPT CIVIL WORKS PLAN STAGE 2 |
| 250106-DA-360-01 | CONCEPT ACCESS PLAN |
| 250106-DA-610-01 | CONCEPT CULVERT SECTION |
| 250106-DA-980-01 | SWEPT PATH PLAN - 14.5m BUS |

| REV | DESCRIPTION | ISSD | APP | DATE | PROJECT MANAGER | CLIENT | ARCHITECT | SCALE | NORTH | PROJECT TITLE | STATUS |
|-------------------------------------|------------------------|------|-----|----------|------------------------|--|-----------|---------------------------------|-------|---|--|
| A | ISSUED FOR INFORMATION | JH | JH | 30.05.25 | J.HOEY | BASKETBALL ASSOCIATION OF NEWCASTLE | | 0 25 50 75 100m SCALE 1:2500 | | HUNTER INDOOR SPORTS CENTRE 2 MONASH ROAD, BROADMEDOW, NSW, 2292 | FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTION |
| 1 | ISSUED FOR APPROVAL | JH | JH | 03.06.25 | DESIGNED T.SQUIRES | | | | | | |
| 2 | ISSUED FOR APPROVAL | JH | JH | 04.06.25 | DRAFTED R.HUTCHISON | | | | | | |
| 3 | ISSUED FOR APPROVAL | JH | JH | 10.06.25 | VERIFIED TBD | | | | | | |
| 4 | ISSUED FOR APPROVAL | JH | JH | 24.02.26 | | | | | | | |
| SHEET SIZE: A1 SETOUT: TBD | | | | | | | | | | | |
| 54 HUDSON STREET, HAMILTON NSW 2303 | | | | | | | | | | PROJECT - SET - DRAWING - SHEET 250106-DA-000-01 | REVISION 4 |



| LEGEND | |
|--------|------------------------------|
| | SITE BOUNDARY LINE |
| | STAGE 1 WORKS - BUILDINGS |
| | STAGE 2 WORKS - BUILDINGS |
| | STAGE 1 WORKS - CARPARK |
| | STAGE 2 WORKS - CARPARK |
| | EXISTING TREE TO BE RETAINED |

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| 4 | ISSUED FOR APPROVAL | JH | JH | 24.02.26 | |

CLIENT
BASKETBALL ASSOCIATION OF NEWCASTLE

ARCHITECT
EJE

SCALE
0 5 10 15 20m
SCALE 1:500

NORTH

SHEET SIZE A1
SETOUT TBD

54 HUDSON STREET, HAMILTON NSW 2303

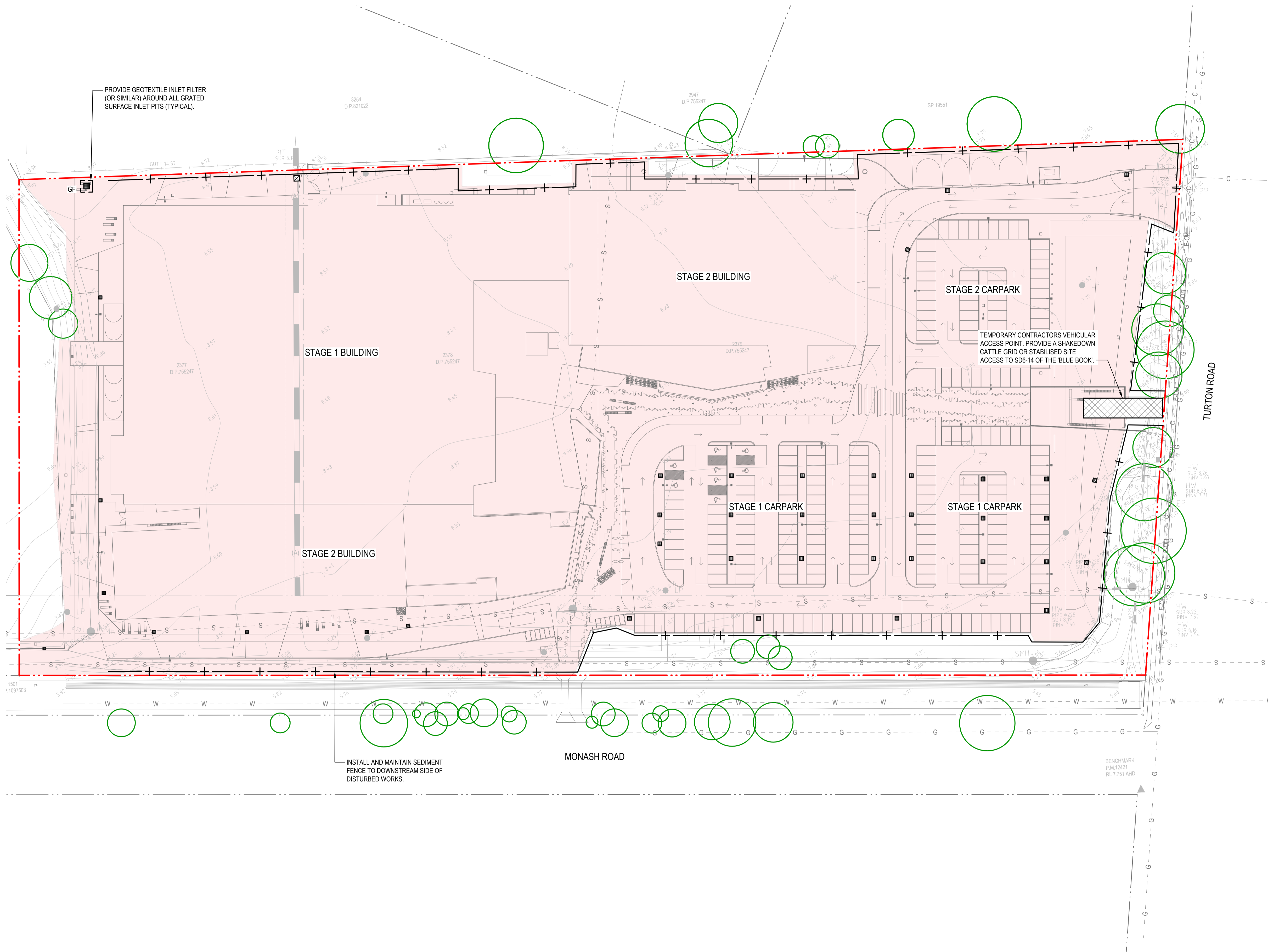
PROJECT TITLE
HUNTER INDOOR SPORTS CENTRE
2 MONASH ROAD, BROADMEADOW, NSW, 2292

DRAWING TITLE
GENERAL ARRANGEMENT PLAN

STATUS
FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION

PROJECT - SET - DRAWING - SHEET
250106-DA-030-01

REVISION
4



| LEGEND | |
|--------|------------------------------------|
| | SITE BOUNDARY LINE |
| | SEDIMENT FENCE |
| | DIVERSION DRAIN (CLEAN) EARTH BANK |
| | STABILISED SITE ACCESS |
| | STOCKPILES |
| | INDICATIVE EXTENT OF DISTURBANCE |
| | GEOTEXTILE INLET FILTER |
| | EXISTING TREE TO BE RETAINED |

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BASKETBALL ASSOCIATION OF NEWCASTLE

ARCHITECT
EJE

SCALE
0 5 10 15 20m
SCALE 1:500

NORTH

SHEET SIZE A1
SETOUT TBD

GROUNDSWELL ENGINEERS
54 HUDSON STREET, HAMILTON NSW 2303

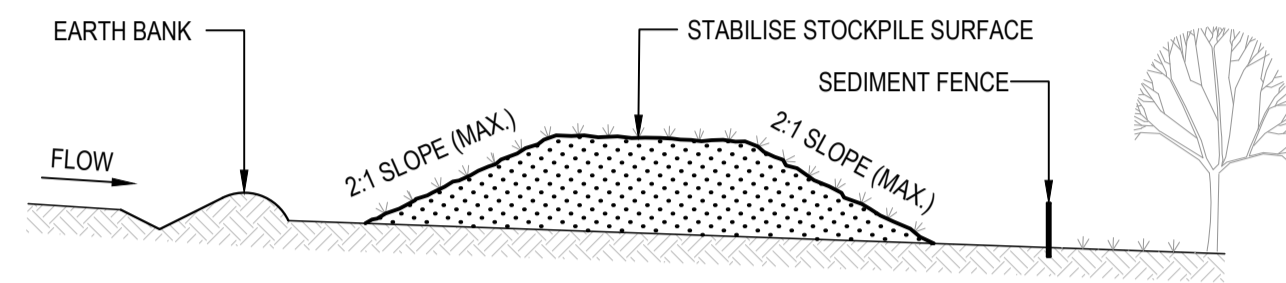
PROJECT TITLE
HUNTER INDOOR SPORTS CENTRE
2 MONASH ROAD, BROADMEADOW, NSW, 2292

DRAWING TITLE
CONCEPT EROSION AND SEDIMENT CONTROL PLAN

STATUS
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PROJECT - SET - DRAWING - SHEET
250106-DA-110-01

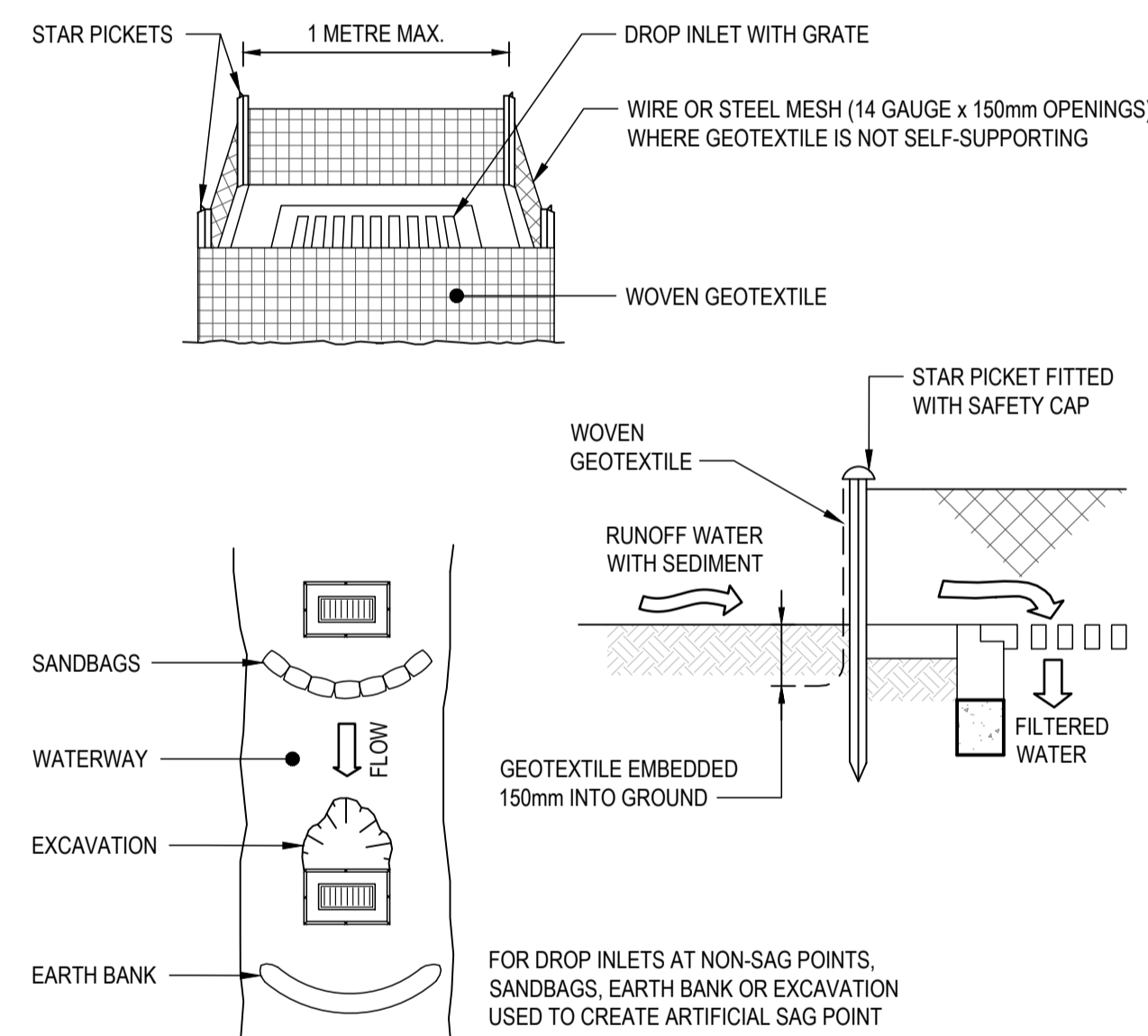
REVISION
4



CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

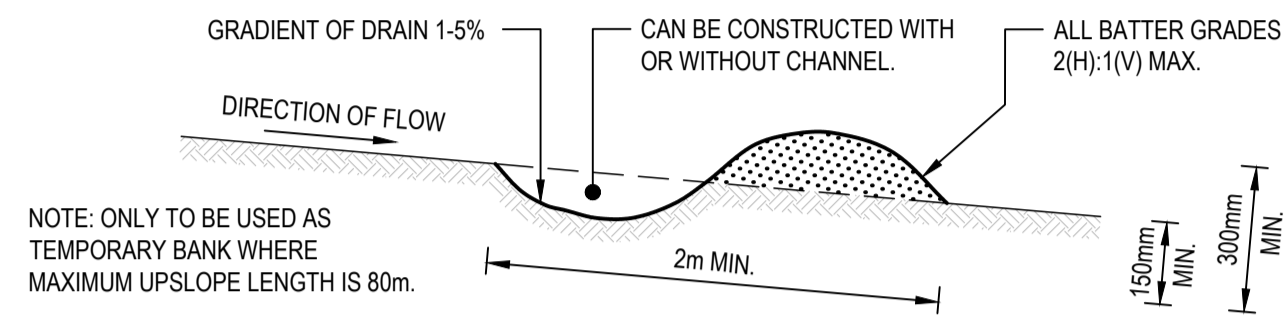
STOCKPILES (SD 4-1)



CONSTRUCTION NOTES

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOTEXTILE. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER (SD 6-12)

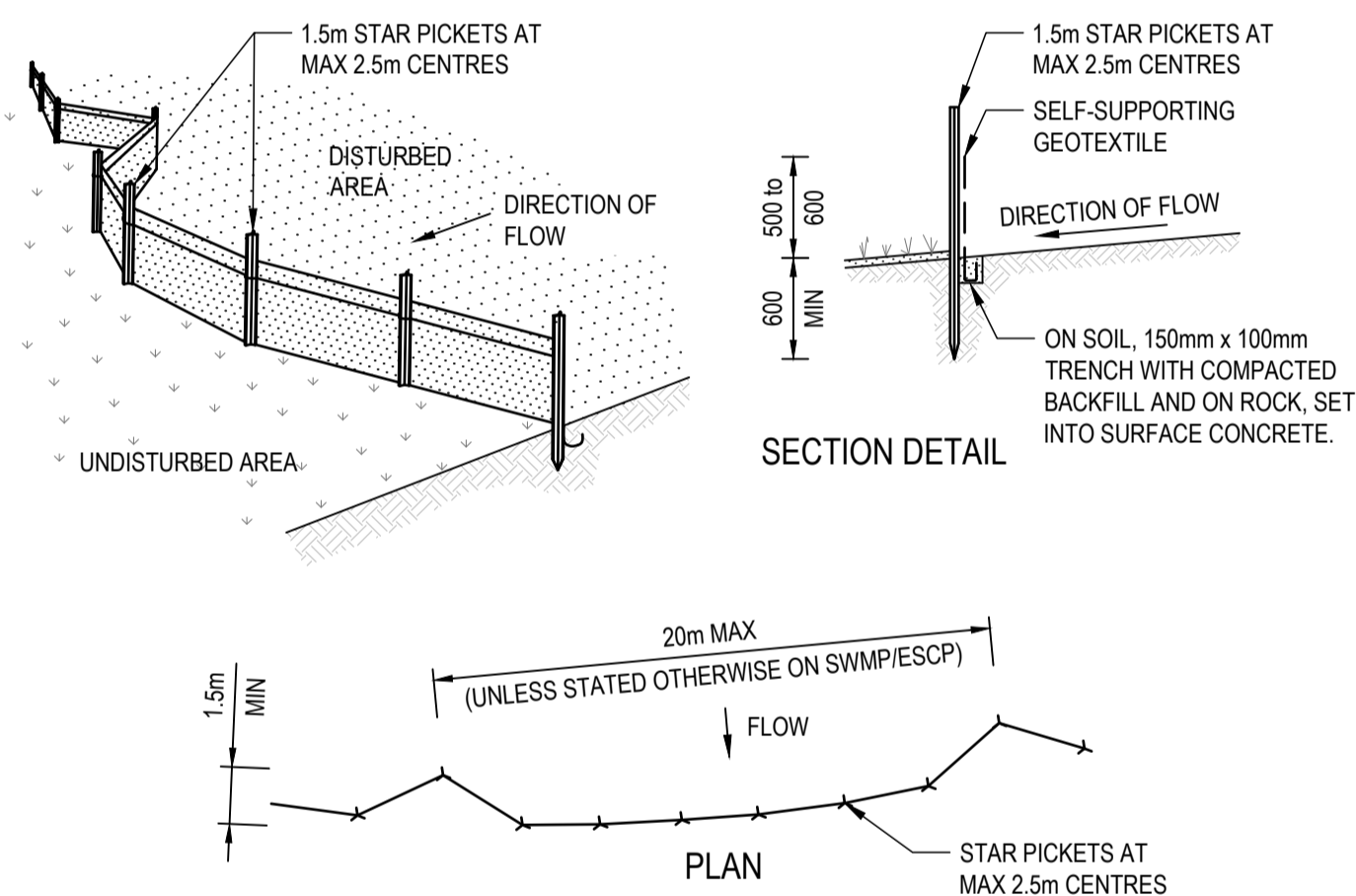


CONSTRUCTION NOTES

1. BUILD WITH GRADIENTS BETWEEN 1 AND 5 PERCENT.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V SHAPED.
5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

DIVERSION DRAIN (DIRTY) - BORROW AREA TO BE ON DISTURBED SIDE OF DRAIN
 DIVERSION DRAIN (CLEAN) - PROVIDE GEOTEXTILE LINING TO SECTION OF DRAIN

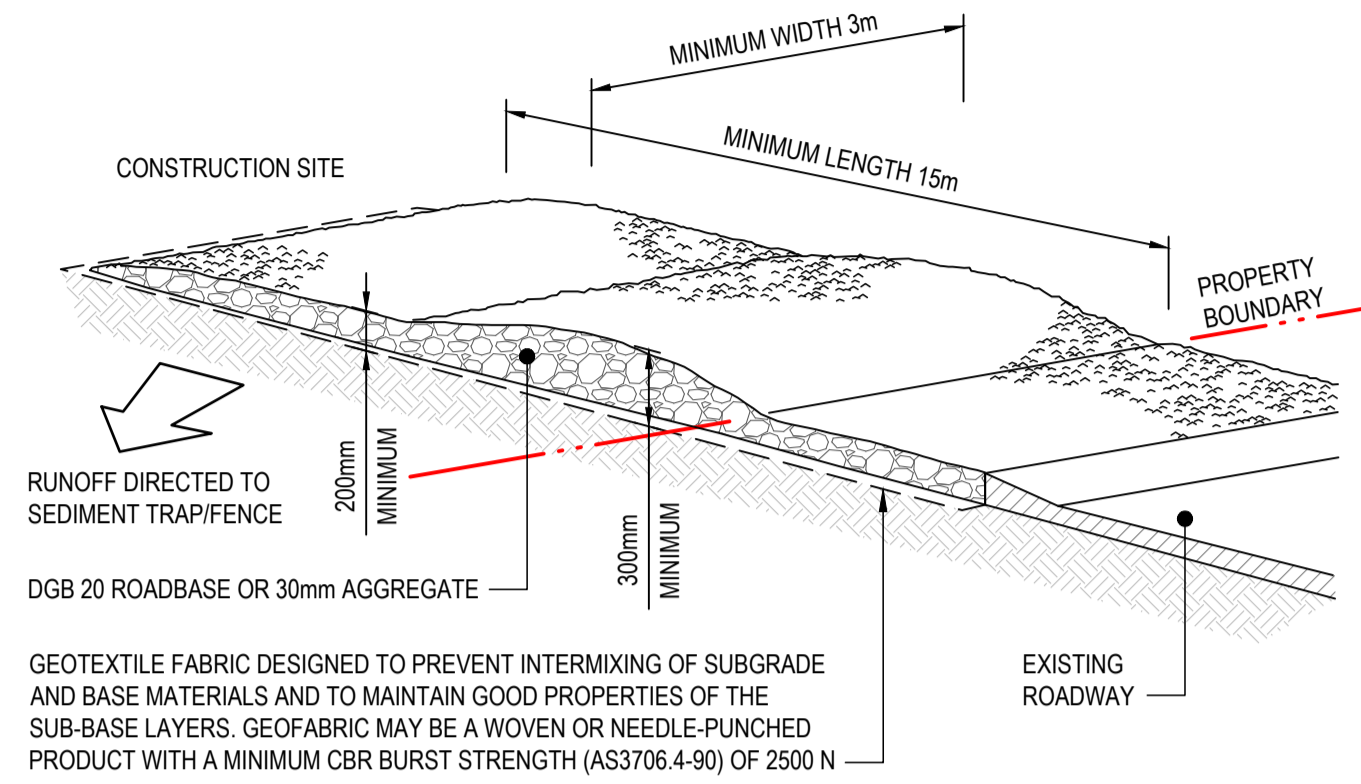
EARTH BANK - LOW FLOW (SD 5-5)



CONSTRUCTION NOTES

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE (SD 6-8)

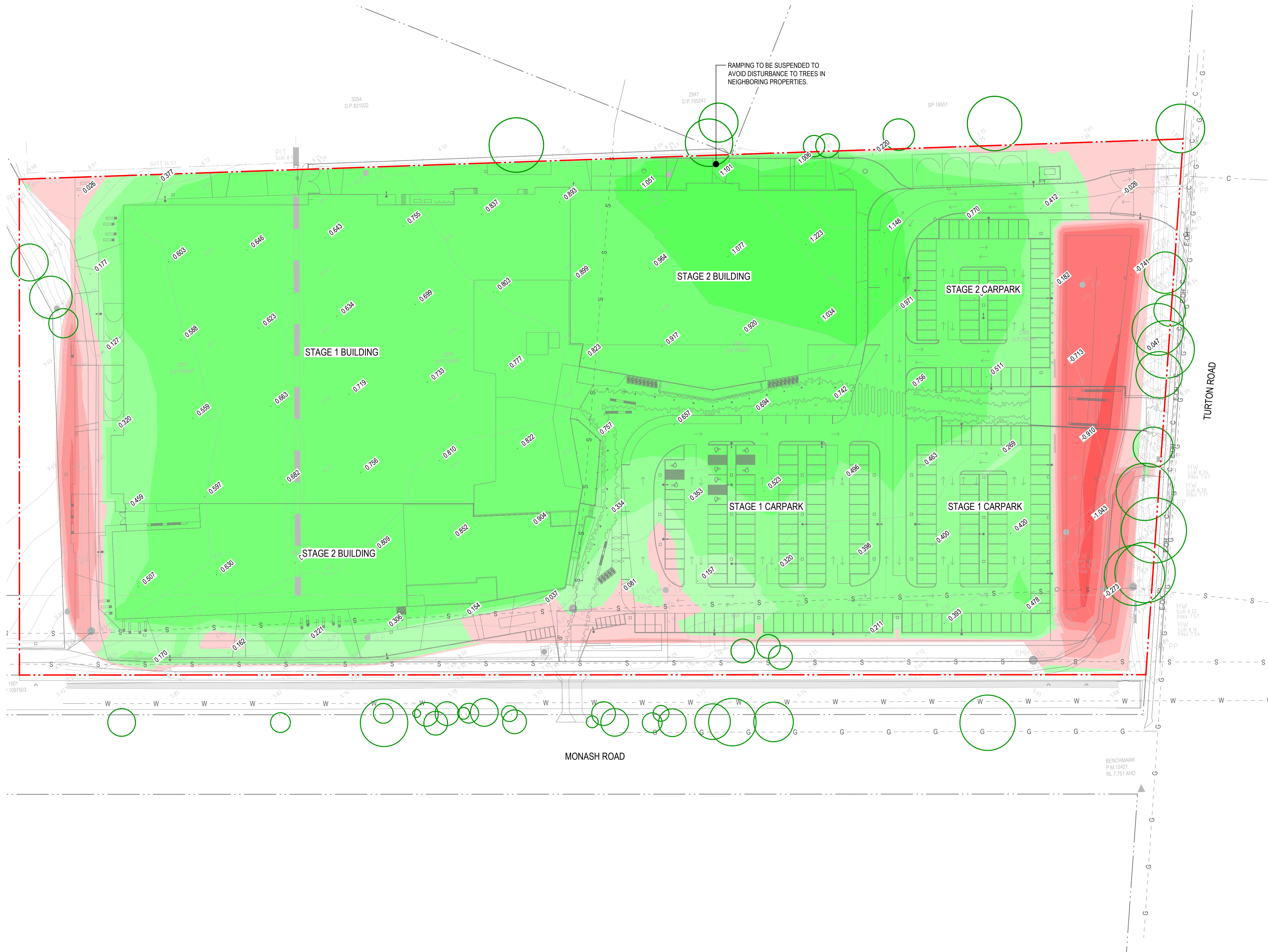


CONSTRUCTION NOTES

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

STABILISED SITE ACCESS (SD 6-14)

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| A | ISSUED FOR INFORMATION | JH | JH | 30.05.25 | J.HOEY | BASKETBALL ASSOCIATION OF NEWCASTLE | EJE | 0 5 10 15 20m SCALE 1:500 | NORTH | HUNTER INDOOR SPORTS CENTRE 2 MONASH ROAD, BROADMEADOW, NSW, 2292 | FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTION |
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| LEGEND | |
|---------------|------------------------------|
| | SITE BOUNDARY LINE |
| 0.412 | BULK EARTHWORKS SPOT HEIGHT |
| | EXISTING TREE TO BE RETAINED |
| DEPTH OF CUT | |
| | -1.0m TO -1.5m |
| | -0.5m TO -1.0m |
| | -0.25m TO -0.5m |
| | -0.1m TO -0.25m |
| | 0.1m TO -0.1m |
| DEPTH OF FILL | |
| | 0.1m TO 0.25m |
| | 0.25m TO 0.5m |
| | 0.5m TO 1.0m |
| | 1.0m TO 1.5m |

- | NOTES | |
|-------|---|
| 1. | BULK EARTHWORKS LEVELS AND VOLUMES ARE BASED ON A COMPARISON OF THE DESIGN BULK EARTHWORKS SURFACE AND THE EXISTING SURFACE LEVEL AS SURVEYED. NO ALLOWANCE FOR PAVEMENT OF BUILDING PAD. |
| 2. | NO ALLOWANCE HAS BEEN MADE FOR SELECT LAYERS OR UNSUITABLE MATERIAL THAT IS LIKELY TO BE PRESENT. |
| 3. | NO ALLOWANCE HAS BEEN MADE FOR TEMPORARY SEDIMENT DAMS |
| 4. | NO ALLOWANCE HAS BEEN MADE FOR SAND LEVELING LAYER BENEATH BUILDING PADS |
| 5. | NO ALLOWANCE HAS BEEN MADE FOR SERVICE TRENCHES, DRAINAGE TRENCHES, DRAINAGE INFRASTRUCTURE (PITS, CULVERTS, ETC) IN THE LEVELS OR VOLUMES PRESENTED ON THIS PLAN. |
| 6. | NO ALLOWANCE FOR ANY TEMPORARY BATTERS DURING WORKS. |
| 7. | NO BULKING FACTORS HAVE BEEN CONSIDERED/ALLOWED FOR. |
| 8. | APPROXIMATE BULK EARTHWORKS VOLUMES BASED ON THE NOTES ABOVE ARE AS FOLLOWS; |
| | <ul style="list-style-type: none"> BULK CUT = 1,591m³ BULK FILL = 19,306 m³ BULK CUT/FILL BALANCE = 17,715m³ (FILL) |
| 9. | ALL BULK EARTHWORKS TO BE UNDERTAKEN IN ACCORDANCE WITH SITE SPECIFIC GEOTECHNICAL REPORT AND BULK EARTHWORKS NOTES. |
| 10. | ABOVE ALLOWANCE INCLUDES PRELIMINARY TRENCH VOLUMES FOR SEWER AND CULVERT RELOCATIONS. |

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CLIENT: BASKETBALL ASSOCIATION OF NEWCASTLE

ARCHITECT: EJE

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SCALE: 1:500

0 5 10 15 20m

NORTH

SHEET SIZE: A1

SETOUT: TBD

GROUNDSWELL ENGINEERS

54 HUDSON STREET, HAMILTON NSW 2303

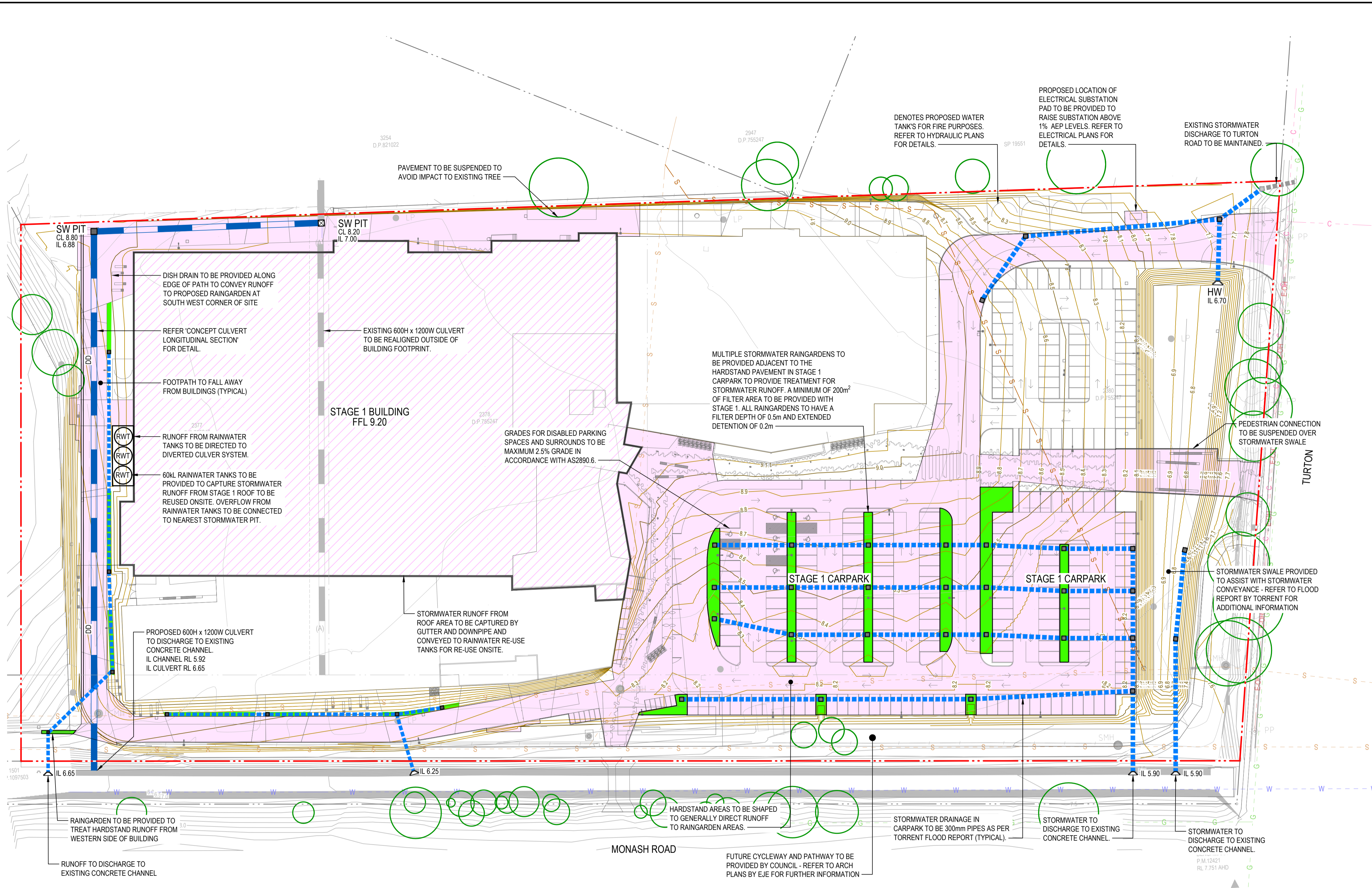
PROJECT TITLE: HUNTER INDOOR SPORTS CENTRE
 2 MONASH ROAD, BROADMEADOW, NSW, 2292

DRAWING TITLE: BULK EARTHWORKS PLAN

STATUS: FOR INFORMATION ONLY
 NOT TO BE USED FOR CONSTRUCTION

PROJECT - SET - DRAWING - SHEET: 250106-DA-210-01

REVISION: 4



| LEGEND | |
|--------|---|
| | SITE BOUNDARY LINE |
| | STAGE 1 WORKS - BUILDINGS |
| | STAGE 1 WORKS - CARPARK |
| | STORMWATER PIPE |
| | EXISTING STORMWATER PIPE |
| | EXISTING 600 x 1200 CULVERT |
| | PROPOSED 600 x 1200 CULVERT |
| | SW PIT STORMWATER PIT AND TAG COVER LEVEL / INVERT LEVEL |
| | HW PROPOSED HEADWALL TAG INVERT LEVEL |
| | PROPOSED RAINWATER TANK TO FUTURE DETAILS |
| | PROPOSED SEWER |
| | EXISTING SERVICES BASED ON SURVEY DATA SUPPLIED |
| | PROPOSED RAINGARDEN TO FUTURE DETAILS |
| | DESIGN CONTOURS (0.1m INTERVALS) |
| | EXISTING CONTOURS (0.1m INTERVALS) |
| | EXISTING TREE TO BE RETAINED |

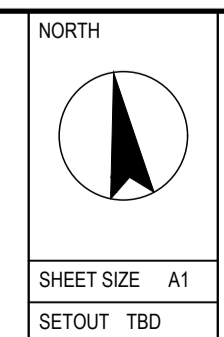
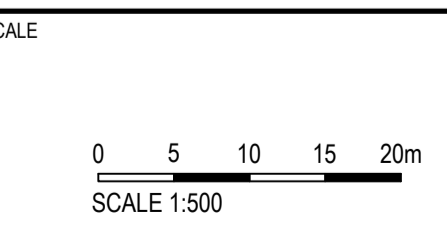
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| 5 | ISSUED FOR APPROVAL | JH | JH | 13.06.25 | VERIFIED |
| 5 | ISSUED FOR APPROVAL | JH | JH | 24.02.26 | TBD |

CLIENT
BASKETBALL ASSOCIATION OF NEWCASTLE



ARCHITECT

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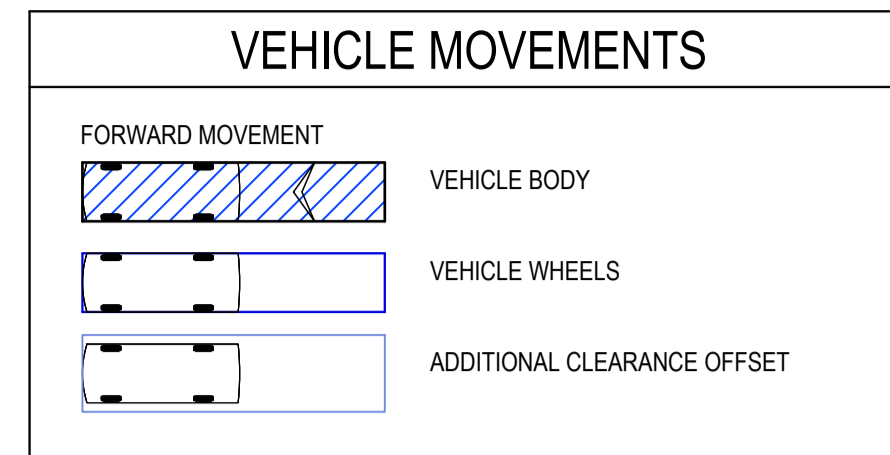
PROJECT TITLE
HUNTER INDOOR SPORTS CENTRE
2 MONASH ROAD, BROADMEDOW, NSW, 2292

DRAWING TITLE
CONCEPT CIVIL WORKS PLAN STAGE 1

| STATUS | |
|---|----------|
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| PROJECT - SET - DRAWING - SHEET | REVISION |
| 250106-DA-310-01 | 5 |

| LEGEND | |
|--------|---|
| | SITE BOUNDARY LINE |
| | FOOTPATH TO BE PROVIDED IN ACCORDANCE WITH COUNCIL SD A1401 |
| | DRIVEWAY TO BE PROVIDED IN ACCORDANCE WITH COUNCIL SD A1300 |
| VC | VEHICLE CROSSING TO BE PROVIDED IN ACCORDANCE WITH COUNCIL SD A1300 |
| | EXISTING GAS |
| | EXISTING WATER |
| | EXISTING SEWER |
| | EXISTING ELECTRICITY (OVERHEAD) |
| | EXISTING TELECOMMUNICATIONS |
| | EXISTING TREE TO BE RETAINED |

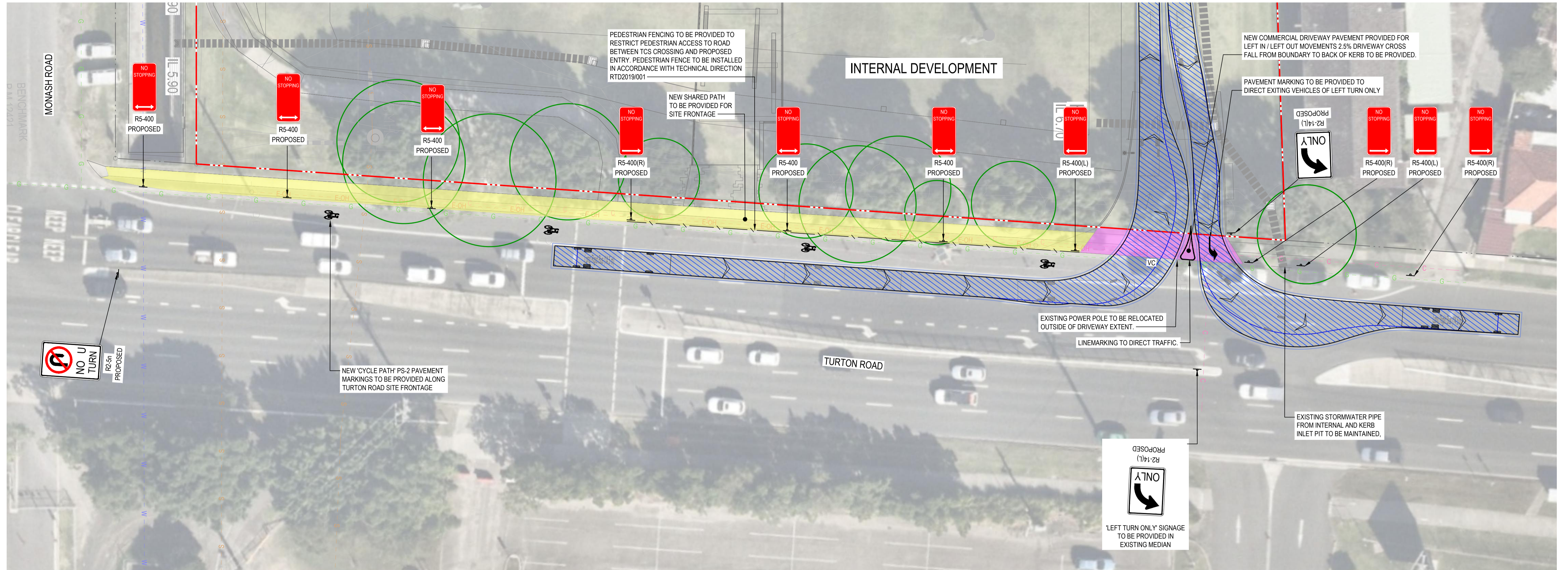
- NOTES**
- LIGHTING DESIGN ASSESSMENT TO BE UNDERTAKEN AS PART OF DETAILED DESIGN PROCESS
 - DETAILED PAVEMENT, SIGNAGE & LINEMARKING PLANS TO BE PROVIDED AS PART OF DETAILED DESIGN PROCESS



VEHICLE PROFILE

LONG RIGID BUS (14.5m)

| | |
|---------------------|---------|
| OVERALL LENGTH | 14.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 3.102m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |



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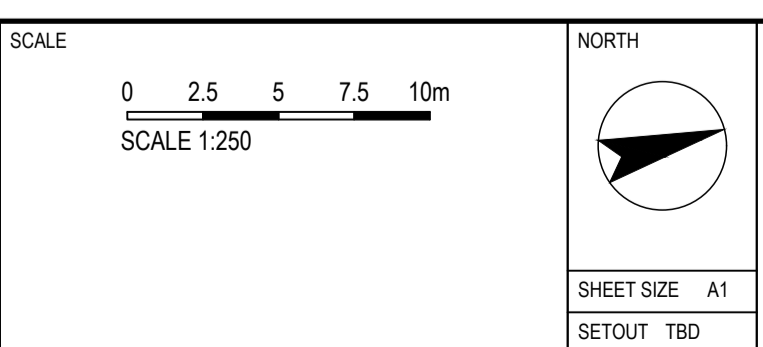
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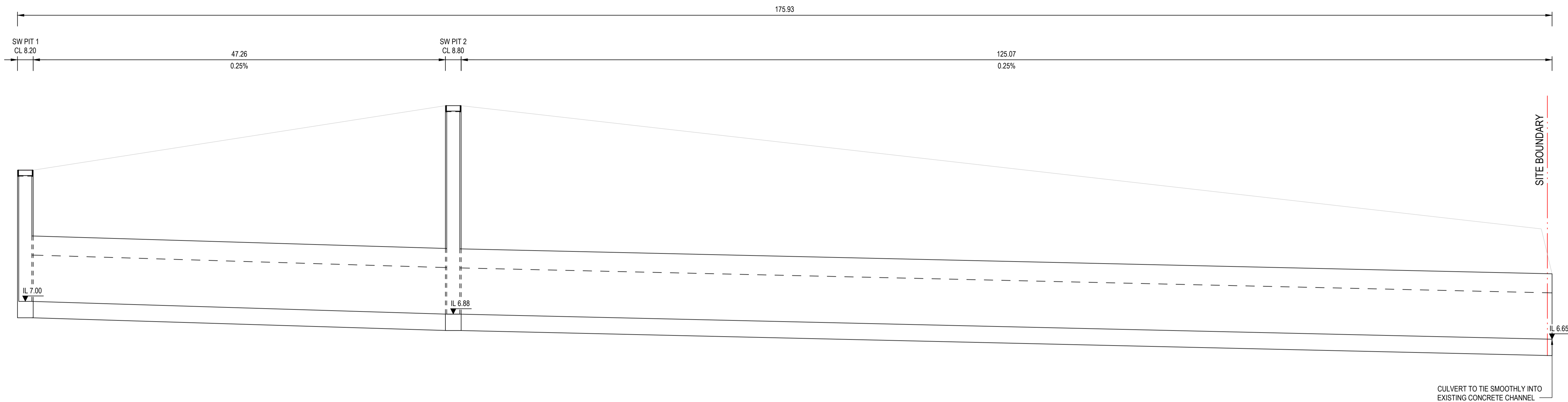
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2 MONASH ROAD, BROADMEDOW, NSW, 2292

DRAWING TITLE: CONCEPT ACCESS PLAN

| | |
|---|-------------|
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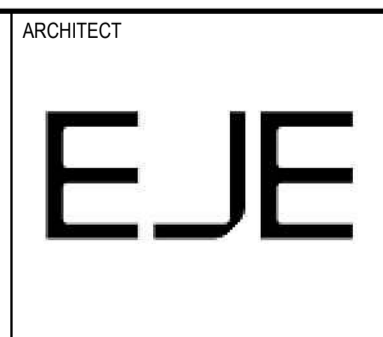


CULVERT LONGITUDINAL SECTION A
310-01
 VERTICAL SCALE 1:20
 HORIZONTAL SCALE 1:500

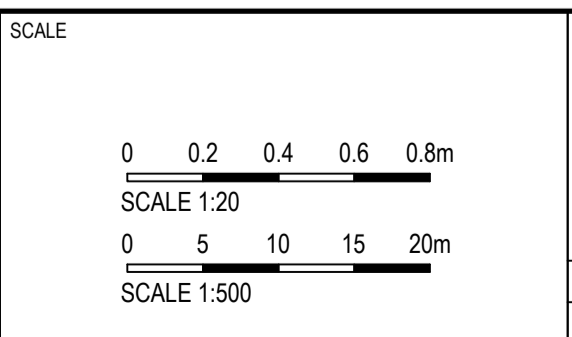
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CLIENT
BASKETBALL ASSOCIATION OF NEWCASTLE



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SHEET SIZE A1
 SETOUT TBD



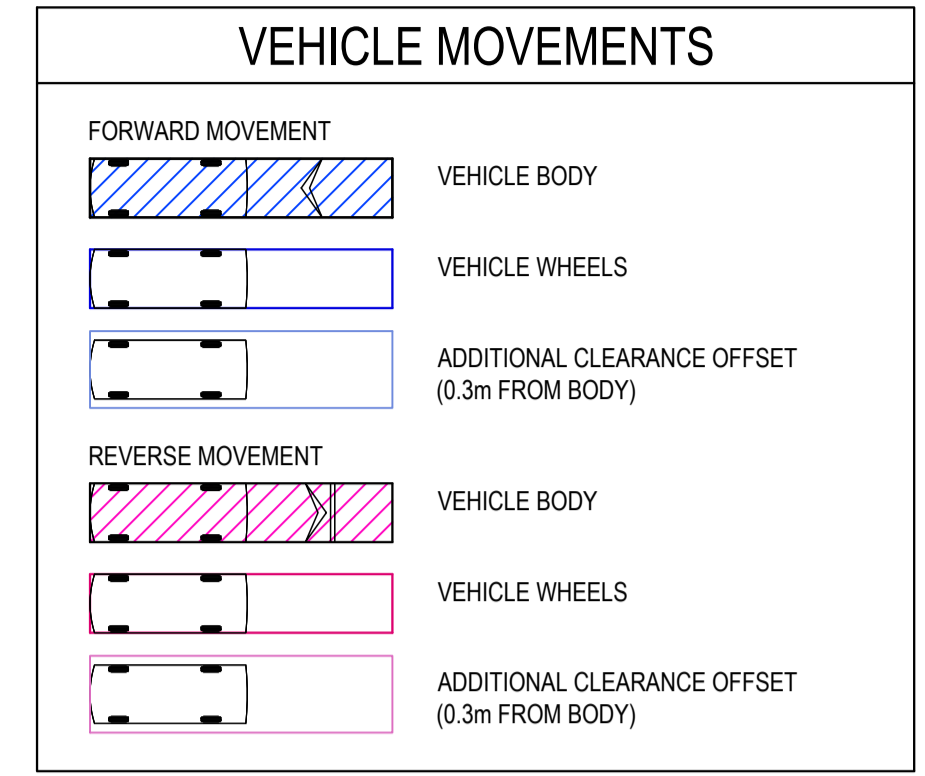
PROJECT TITLE
 HUNTER INDOOR SPORTS CENTRE
 2 MONASH ROAD, BROADMEADOW, NSW, 2292

DRAWING TITLE
 CONCEPT CULVERT SECTION

STATUS
FOR INFORMATION ONLY
 NOT TO BE USED FOR CONSTRUCTION

PROJECT - SET - DRAWING - SHEET
250106-DA-610-01

REVISION
1



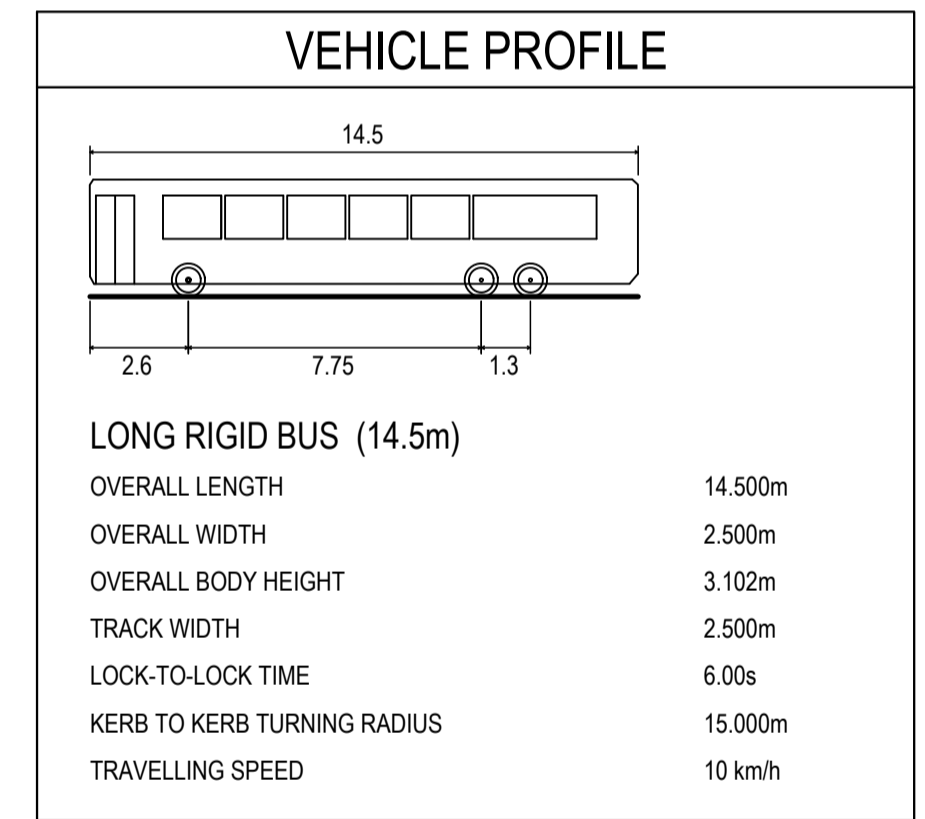
DISCLAIMER

THE VEHICLE SWEEP PATHS / TEMPLATES PROVIDED HAVE BEEN PRODUCED USING SIMULATION SOFTWARE AND ARE TO BE USED AS A GUIDE ONLY. THESE SIMULATIONS MAY NOT REFLECT ACTUAL DRIVER BEHAVIOUR AND / OR EXPERIENCE UNDER ACTUAL DRIVING CONDITIONS.

IT IS GROUNDSWELL'S INTENTION TO UTILISE STANDARD VEHICLES NOMINATED IN AS2890 / AUSTRROADS FOR ALL DESIGN / CHECKING VEHICLE SIMULATIONS AT AN IDEAL MOVEMENT SPEED OF 10 km/h WITH A MINIMUM VEHICLE BODY OFFSET OF 0.3m.

IF THE USE OF SPECIFIC VEHICLES (NOT DETAILED UNDER AS2890 / AUSTRROADS) IS REQUESTED, IT IS TO BE NOTED THAT THEIR DIMENSIONS AND MANOEUVRING CHARACTERISTICS HAVE BEEN INTERPRETED INTO THE SIMULATION SOFTWARE FROM INFORMATION PROVIDED BY SERVICE PROVIDERS AND VEHICLE MANUFACTURERS. GROUNDSWELL ACCEPTS NO RESPONSIBILITY OF THE ACCURACY THESE VEHICLE MOVEMENTS, AND ANY MANOEUVRES PROVIDED SHOULD ONLY BE USED AS A GUIDE WITH ACTUAL DESIGN BEING BASED AROUND ENGINEERING ADVICE AND AUSTRALIAN STANDARDS.

AT ALL TIMES, STANDARD VEHICLE SWEEP PATHS / TEMPLATES ARE TO TAKE DESIGN PRECEDENCE OVER ALL SPECIFIC VEHICLES. UNDER NO CIRCUMSTANCE DOES THE SIMULATION PROVIDED RELIEVE ANY PARTY OF THEIR ROLE AND RESPONSIBILITY FOR PROVIDING DESIGN SOLUTIONS IN ACCORDANCE WITH GOOD DESIGN PRACTICES.

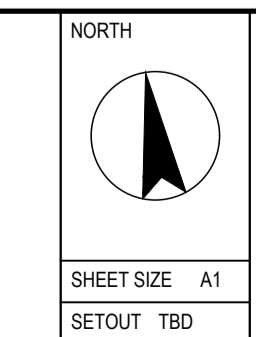
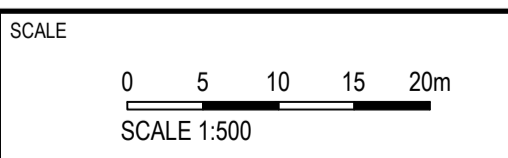


| REV | DESCRIPTION | ISSD | APP | DATE | PROJECT MANAGER | CLIENT | ARCHITECT |
|-----|------------------------|------|-----|----------|---------------------|-------------------------------------|-----------|
| A | ISSUED FOR INFORMATION | JH | JH | 30.05.25 | J.HOEY | BASKETBALL ASSOCIATION OF NEWCASTLE | EJE |
| 1 | ISSUED FOR APPROVAL | JH | JH | 03.06.25 | DESIGNED T.SQUIRES | | |
| 2 | ISSUED FOR APPROVAL | JH | JH | 04.06.25 | DRAFTED R.HUTCHISON | | |
| 3 | ISSUED FOR APPROVAL | JH | JH | 10.06.25 | VERIFIED TBD | | |
| 4 | ISSUED FOR APPROVAL | JH | JH | 24.02.26 | | | |

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PROJECT TITLE
HUNTER INDOOR SPORTS CENTRE
2 MONASH ROAD, BROADMEADOW, NSW, 2292

DRAWING TITLE
SWEEP PATH PLAN - 14.5m BUS

STATUS
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PROJECT - SET - DRAWING - SHEET
250106-DA-980-01

REVISION
4