Reference: AG1047I02v1

info@asongroup.com.au
+61 2 9083 6601
Suite 5.02, Level 5, 1 Castlereagh Street
Sydney NSW 2000
www.asongroup.com.au

17 September 2020

Hansen Yuncken
Level 3
75-85 O'Riordan Street
Alexandria NSW 2015

Attention: Paul Nelson

Catherine Field Public School, Oran Park
Section 4.55 Application Transport Statement

Dear Paul,

Ason Group has been commissioned by Hansen Yuncken to prepare a Transport Statement (TS) to support a Section 4.55 Application (S4.55) for proposed modifications (the Proposal) to the approved State Significant Development Application 9477 (SSD-9477) at O'Keefe Drive, Oran Park (the Site), legally referenced as Lot 1001 in DP1234527.

The Site was granted development consent on 17 June 2020 for a primary school with a future student population of 1,200 students from Kindergarten to Year 6.

The S4.55 seeks to modify the approved development for the following:

- Provision of a temporary access to the to the staff carpark via O'Keefe Drive.
- Amendments to the drop-off / pick-up area on O'Keefe Drive.

This TS provides an assessment of the access, traffic and parking implications, with specific consideration of the potential 'impacts' of the S4.55 when measured against the existing Site approval.

The Site lies within the Camden Council (Council) Local Government Area (LGA), as well as lying within the broader South West Growth Area (SWGA); as such, key references in preparing this TS include:

- Camden Local Environmental Plan 2010 (LEP 2010);
- Camden Development Control Plan 2011 (DCP 2011);
- Camden Growth Centre Precincts Development Control Plan 2017 (Camden GCP DCP);
- Campbelltown Growth Centre Precinct Development Control Plan 2016 (Campbelltown GCP DCP); and
- Growth Centres Development Code, 2006 (GCD Code).

This TS also references general access, traffic and parking guidelines, including:

- Australian Standard 2890.1:2004: Parking Facilities – Off-Street Car Parking (AS 2890.1);
- Australian Standard 2890.2:2018: Parking Facilities – Off-Street Commercial Vehicle Facilities (AS2890.2); and
- Australian Standard 2890.6:2009: Parking Facilities – Off-Street Parking for People With Disabilities (AS2890.6).

Our findings our summarised herewith.

Summary of Proposed Modifications

The S4.55 would provide for the following modifications to the currently approved development:

- Provision of a temporary access to the to the staff carpark via O'Keefe Drive.
- Amendments to the drop-off / pick-up area on O'Keefe Drive.

It is important to note that no changes are proposed to the student numbers, or number of parking spaces provided on-site.

Refer to **Attachment 1** for the Civil Design plan proposed as part of this S4.55, including the general layout of the school and DOPU areas, loading and parking areas.

Design Commentary

As detailed above, the primary modifications are design related when compared to the approved DA site plan, and include:

- Provision of a temporary access to the to the staff carpark via O'Keefe Drive.
- Amendments to the drop-off / pick-up area on O'Keefe Drive.

The proposed driveway access has been designed to accommodate a 10.24m Waste Collection Vehicle with a width of between ~9.1m which was informed by swept path analysis. Swept path analysis also demonstrates uninterrupted two-way for private vehicles. These are detailed in **Attachment 2**.

Regarding the drop-off / pick-up layout, a total width of 6.5m is provided which allows for vehicles to exit onto O'Keefe Drive while vehicles drop-off / pick-up students. Furthermore, it should be noted that the parallel parking spaces have been designed in accordance with AS2890.6 to accommodate special education students.

Swept path analysis has similarly been undertaken to assess vehicle circulation within the proposed layout including the waste collection vehicle, a 14.5m bus and private vehicles. This is appended in **Attachment 3**.

The design review confirms that the internal configuration of the Site has been appropriately designed in accordance with the requirements of the relevant Australian Standards.

Ason Group notes that a standard Condition of Consent is expected to require compliance with all relevant Australian Standards; this would allow for any minor changes to the plans, if required, to be undertaken as part of detailed Construction Certificate documentation.

Traffic Commentary

The proposed modification does not result in the change to on-site parking provision, student capacity and therefore not expected to generate any additional traffic to the approved scheme. Traffic generation and trip distribution are effectively identical to the previously submitted Transport Assessment.

Conclusions

Further to a detailed assessment of the proposed S4.55 modification to the approved development, Ason Group has concluded that:

- The proposed changes to the internal Site design provide compliance with all relevant Australian Standards. A standard Condition of Consent is expected to require compliance with all relevant Australian Standards.

The Proposal therefore provides for safe and efficient access and internal circulation and is acceptable from a layout perspective.

- The proposed modification results in no change to the traffic generation or trip distribution that was previously detailed in the Traffic Assessment submitted as part of the SSD-9477.

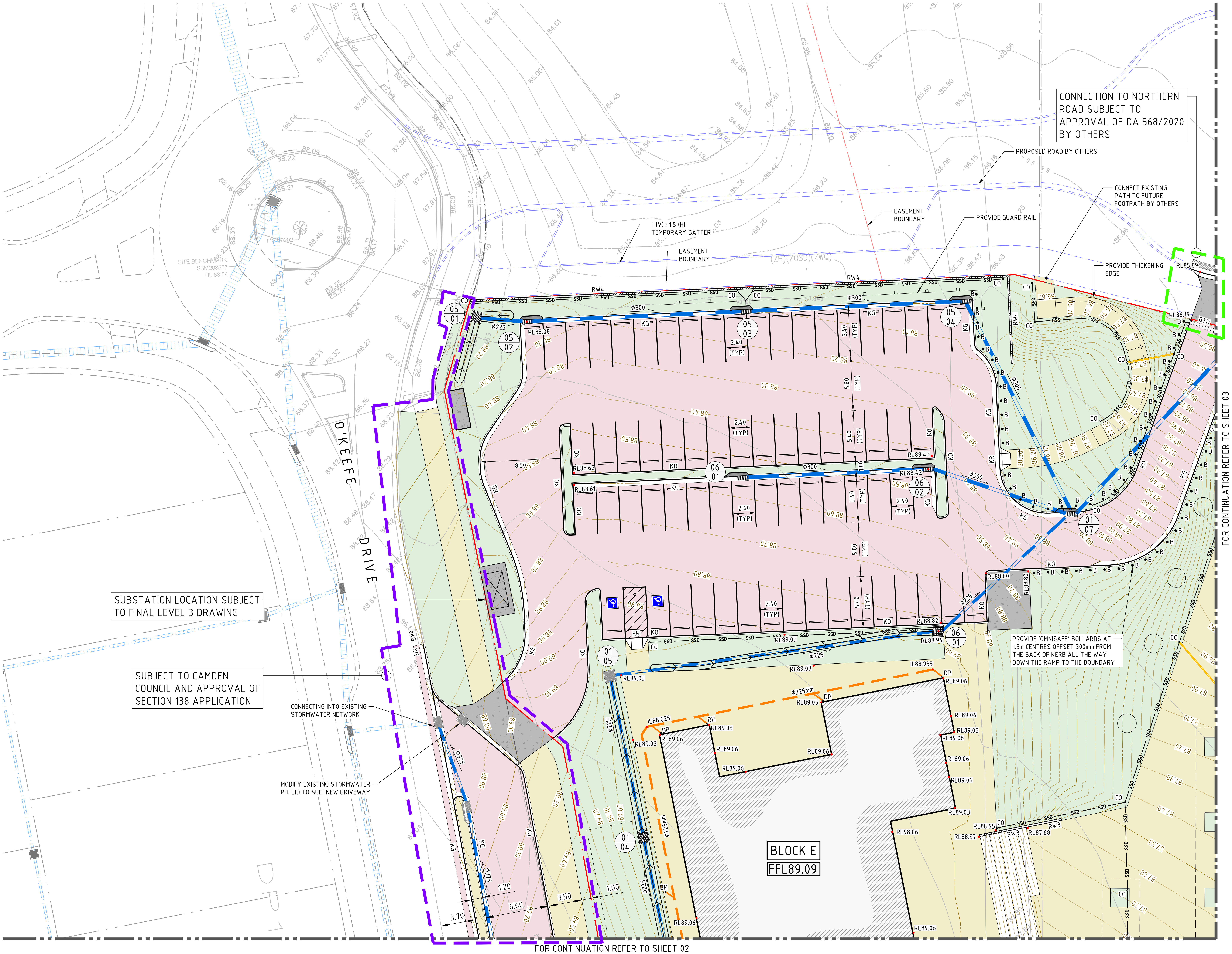
As such, Ason Group has determined that the S4.55 is supportable on traffic engineering and transport planning grounds.

We trust the above is of assistance to you and Council; should you or Council require any further information, please do not hesitate to contact the undersigned.

Yours sincerely,

Principal – Traffic Management & Operations – Ason Group
Email: dora.choi@asongroup.com.au

Attachment 1 – Civil Design Layout



LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- PROPOSED KERB
- EXISTING KERB
- FUTURE KERB
- SAWCUT AND PAVEMENT INFILL
- eXX — EXISTING KERB 'TYPE AS BELOW'
- KO — KERB ONLY
- KG — KERB AND GUTTER
- MTE — MATCH TO EXISTING
- VC — VEHICULAR CROSSING
- EXISTING TO BE REMOVED
- FFLXX.XX — PROPOSED FINISHED FLOOR LEVEL
- RLXX.XX — PROPOSED SPOT HEIGHT
- ILXX.XX — PROPOSED INVERT LEVEL
- BATTER 1(V) : 4(H) MAX U.N.O.
- XX.XX — CONTOURS
- XX.XX — EXISTING CONTOURS
- RW — RETAINING WALL
- DRAINAGE SWALE
- STORMWATER PIPE
- EXISTING STORMWATER PIPE
- FUTURE STORMWATER PIPE (BY OTHERS)
- SSD — SUBSOIL DRAINAGE LINE
- PVC SUBSOIL DRAINAGE PIPE
- CO — SUBSOIL DRAINAGE CLEAROUT
- RWO — RAINWATER OUTLET
- GRATED INLET PIT (NEW / EXTG)
- KERB INLET PIT (NEW / EXTG)
- JUNCTION PIT (NEW / EXTG)
- STRUCTURE No / LINE ID STORMWATER PIT TAG
- GTD — GRATED TRENCH DRAIN
- RWT — RAINWATER HARVESTING TANK
- PROPOSED LANDSCAPING - REFER TO LANDSCAPE ARCHITECT'S FOR DETAIL
- PROPOSED FLEXIBLE PAVEMENT
- PROPOSED FOOTPATH PAVEMENT
- PROPOSED RECREATIONAL AREAS - REFER TO LANDSCAPE ARCHITECT'S FOR DETAIL
- PAINTED ACRYLIC HARD COURT - REFER LANDSCAPE ARCHITECT'S FOR DETAILS
- SUBSTATION SLAB

GENERAL NOTES:

1. REFER SPECIFICATIONS NOTES FOR STORMWATER AND SITEWORKS GENERAL REQUIREMENTS.
2. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
3. CAD FILES TO BE SUPPLIED IN AUTOCAD FORMAT FOR SETOUT PURPOSES (UPON REQUEST).
4. PROVIDE 'OCEAN GUARD INSERTS' ON ALL GRATED INLET PITS
5. SUBSOIL DRAINAGE TO RETAINING WALLS, KERBS AND SWALE DRAINS NOT SHOWN FOR CLARITY - REFER RELEVANT DETAILS.
6. BASED ON GEOTECHNICAL INVESTIGATIONS THE CBH = 1.5%. THEREFORE SUBGRADE TREATMENT IS REQUIRED. REFER DETAIL SHEET.
7. ALL ROOF DOWNPIPES TO BE DIRECTLY CONNECTED TO THE RAINWATER TANK, SUBJECT TO CONFIRMATIONS FROM PROJECT HYDRAULIC ENGINEER.

DIAL BEFORE YOU DIG
www.1100.com.au

FOR INFORMATION

DESIGNED: T. BUGAEV   JOB MANAGER: N. SUTHERLAND   VERIFIER: J. GILLIGAN   DRAWN: J. O

AMENDMENTS

REV	BY	DATE	DESCRIPTION
1	TB	14.09.20	ISSUED FOR INFORMATION

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE.

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

HANSENYUNCKEN

NSW GOVERNMENT | Education

MECHANICAL & ELECTRICAL
STEENSEN VARMING
(02) 9967 2200

HYDRAULICS
WOOLACOTTS
(02) 8241 9900

FIRE
MCD FIRE ENGINEERING
(04) 2392 2745

LANDSCAPING
TAYLOR BRAMMER LANDS. ARCH.
(02) 9387 8855

PERUMAL PEDAVOLI ARCHITECTS
T: 02 9291 0000
WEB: www.pp-a.com.au
NOMINATED ARCHITECT:
Vince Pedavoli NSW reg No.5045

PERUMAL PEDAVOLI ARCHITECTS

CATHERINE FIELD PRIMARY SCHOOL
NEW HIGH QUALITY CLASSROOMS

DRAWING NAME
SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 01

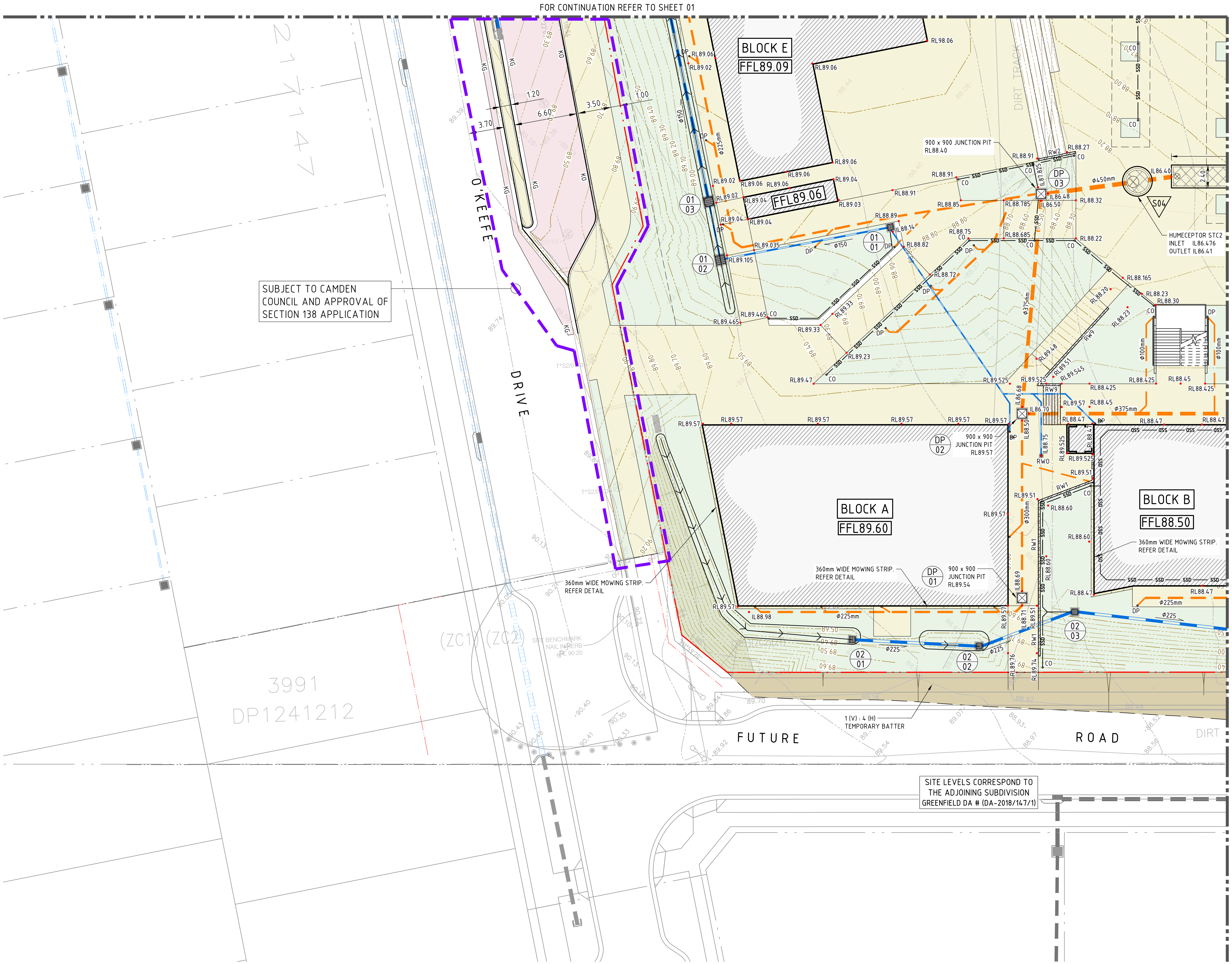
PROJECT NORTH

SCALE 1:200 @ A1

DRAWN	CHECKED	VERIFIED	DATE
TB	NS	JG	14.09.20

DRAWING NUMBER
PROJECT CODE SCH.REF. DISC. TYPE SERIES#
NHQC2-CF-CV-S-SK211.11

REVISION
1



LEGEND

	PROPOSED BOUNDARY LINE
	EXISTING BOUNDARY LINE
	PROPOSED KERB
	EXISTING KERB
	FUTURE KERB
	SAWCUT AND PAVEMENT INFILL
eXX	EXISTING KERB 'TYPE AS BELOW'
KO	KERB ONLY
KG	KERB AND GUTTER
MTE	MATCH TO EXISTING
VC	VEHICULAR CROSSING
x x x	EXISTING TO BE REMOVED
FFLXX.XX	PROPOSED FINISHED FLOOR LEVEL
• RLXX.XX	PROPOSED SPOT HEIGHT
• ILXX.XX	PROPOSED INVERT LEVEL
	BATTER 1(V) : 4(H) MAX U.N.O.
XX.XX	CONTOURS
XX.XX	EXISTING CONTOURS
RW	RETAINING WALL
	DRAINAGE SWALE
	STORMWATER PIPE
	EXISTING STORMWATER PIPE
	FUTURE STORMWATER PIPE (BY OTHERS)
SSD	SUBSOIL DRAINAGE LINE
	PVC SUBSOIL DRAINAGE PIPE
• CO	SUBSOIL DRAINAGE CLEAROUT
RWO	RAINWATER OUTLET
	GRATED INLET PIT (NEW / EXTG)
	KERB INLET PIT (NEW / EXTG)
	JUNCTION PIT (NEW / EXTG)
1 / 1	STRUCTURE No / LINE ID STORMWATER PIT TAG
GTD	GRATED TRENCH DRAIN
RWT	RAINWATER HARVESTING TANK
	PROPOSED LANDSCAPING - REFER TO LANDSCAPE ARCHITECT'S FOR DETAIL
	PROPOSED FLEXIBLE PAVEMENT
	PROPOSED FOOTPATH PAVEMENT
	PROPOSED RECREATIONAL AREAS - REFER TO LANDSCAPE ARCHITECT'S FOR DETAIL
	PAINTED ACRYLIC HARD COURT - REFER LANDSCAPE ARCHITECT'S FOR DETAILS
	SUBSTATION SLAB

GENERAL NOTES:

1. REFER SPECIFICATIONS NOTES FOR STORMWATER AND SITEWORKS GENERAL REQUIREMENTS.
2. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
3. CAD FILES TO BE SUPPLIED IN AUTOCAD FORMAT FOR SETOUT PURPOSES (UPON REQUEST).
4. PROVIDE 'OCEAN GUARD INSERTS' ON ALL GRATED INLET PITS
5. SUBSOIL DRAINAGE TO RETAINING WALLS, KERBS AND SWALE DRAINS NOT SHOWN FOR CLARITY - REFER RELEVANT DETAILS.
6. BASED ON GEOTECHNICAL INVESTIGATIONS THE CBR = 1.5%. THEREFORE SUBGRADE TREATMENT IS REQUIRED. REFER DETAIL SHEET.
7. ALL ROOF DOWNPIPES TO BE DIRECTLY CONNECTED TO THE RAINWATER TANK, SUBJECT TO CONFIRMATIONS FROM PROJECT HYDRAULIC ENGINEER.

DIAL BEFORE YOU DIG www.1100.com.au

FOR INFORMATION

DRAWN: J. O
DESIGNED: T. BUGAEV
JOB MANAGER: N. SUTHERLAND
VERIFIER: J. GILLIGAN

AMENDMENTS

REV	BY	DATE	DESCRIPTION
1	TB	14.09.20	ISSUED FOR INFORMATION

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE.

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

HANSENYUNCKEN
NSW GOVERNMENT Education

MECHANICAL & ELECTRICAL
STEENSEN VARMING
(02) 9967 2200
HYDRAULICS
WOOLACOTTS
(02) 8241 9900
FIRE
MCD FIRE ENGINEERING
(04) 2392 2745
LANDSCAPING
TAYLOR BRAMMER LANDS. ARCH.
(02) 9387 8855

PERUMAL PEDAVOLI ARCHITECTS
T: 02 9291 0000
WEB: www.pp-a.com.au
NOMINATED ARCHITECT:
Vince Pedavoli NSW reg No.5045

CATHERINE FIELD PRIMARY SCHOOL
NEW HIGH QUALITY CLASSROOMS

DRAWING NAME
SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 02

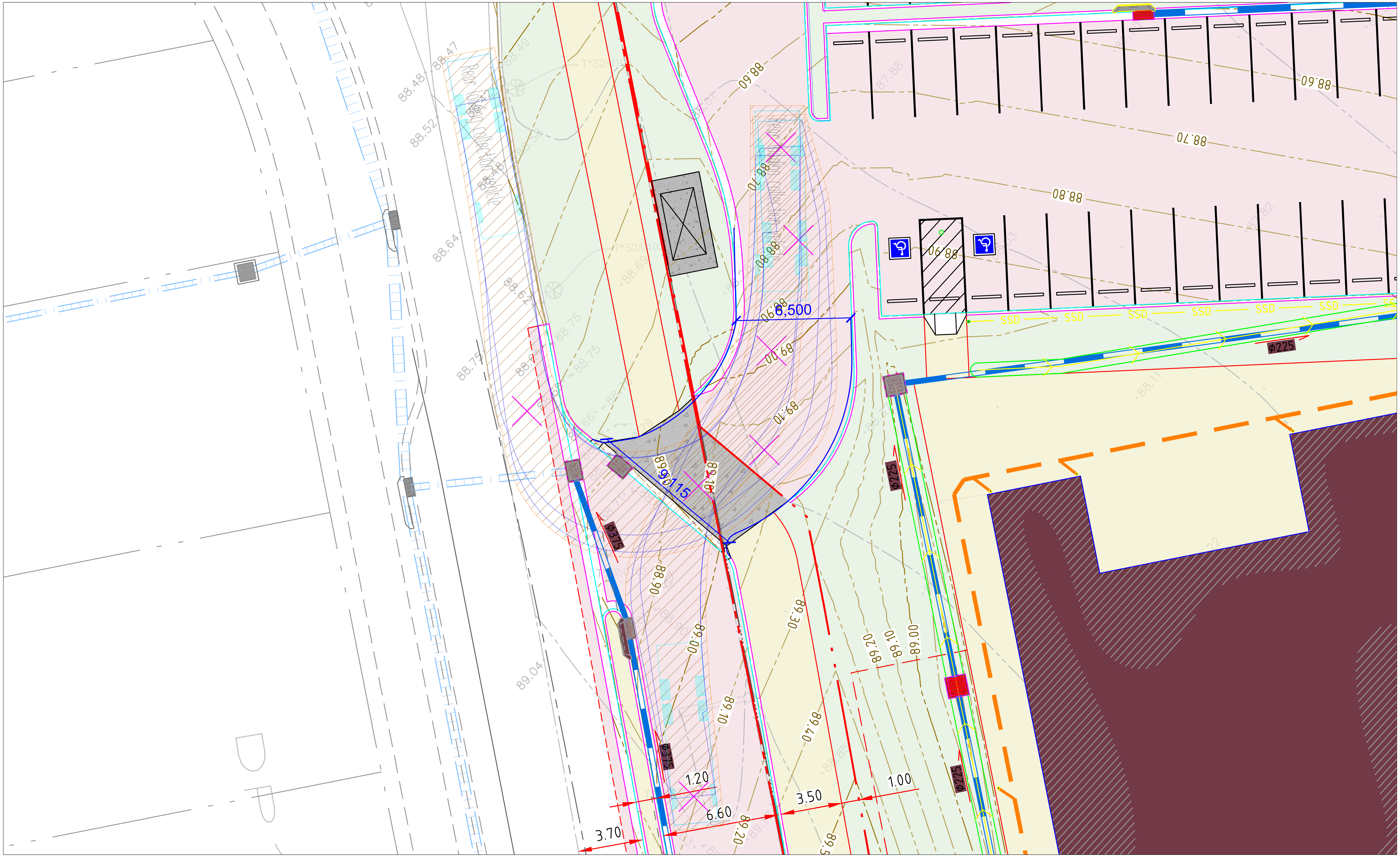
PROJECT NORTH

SCALE 1:200 @ A1

DRAWN	CHECKED	VERIFIED	DATE
TB	NS	JG	14.09.20

DRAWING NUMBER: NHQC2-CF-CV-S-SK211.12
REVISION: 1

Attachment 2 – Temporary Access Swept Path Assessment



Notes:
This drawing is provided for information purposes only and should not be used for construction.

Document Info:
Drawn by: AT

Client:
Hansen Yuncken

Project:
1047
Catherine Fields Primary School

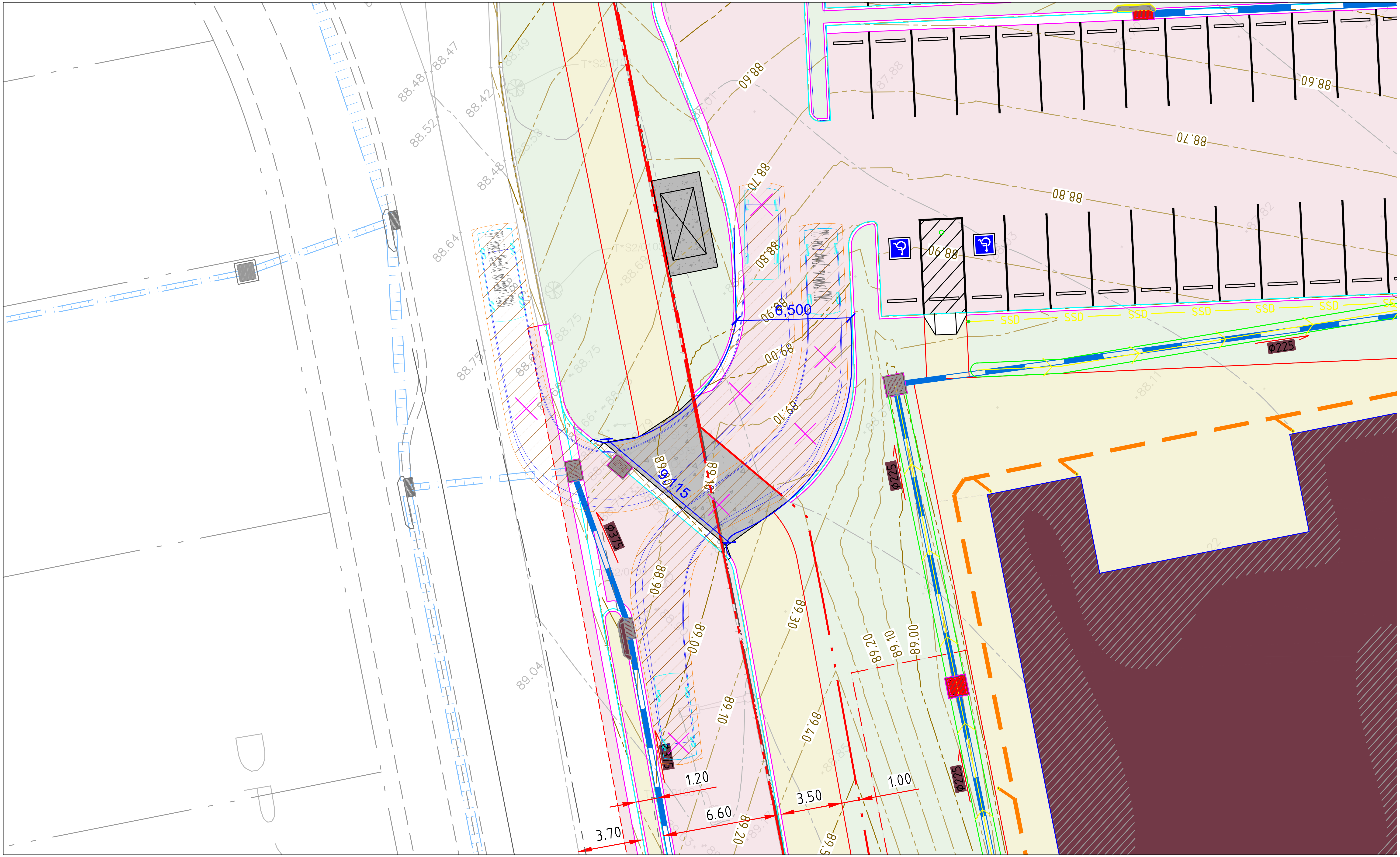
Drawing Title:
Swept Path Analysis
10.24m Waste Truck

Date:
11/09/20

Scale @ A3:
N/A

Drawing Number:
01

asongroup
Suite 5.02, Level 5, 1 Castlereagh St
Sydney NSW 2000
info@asongroup.com.au

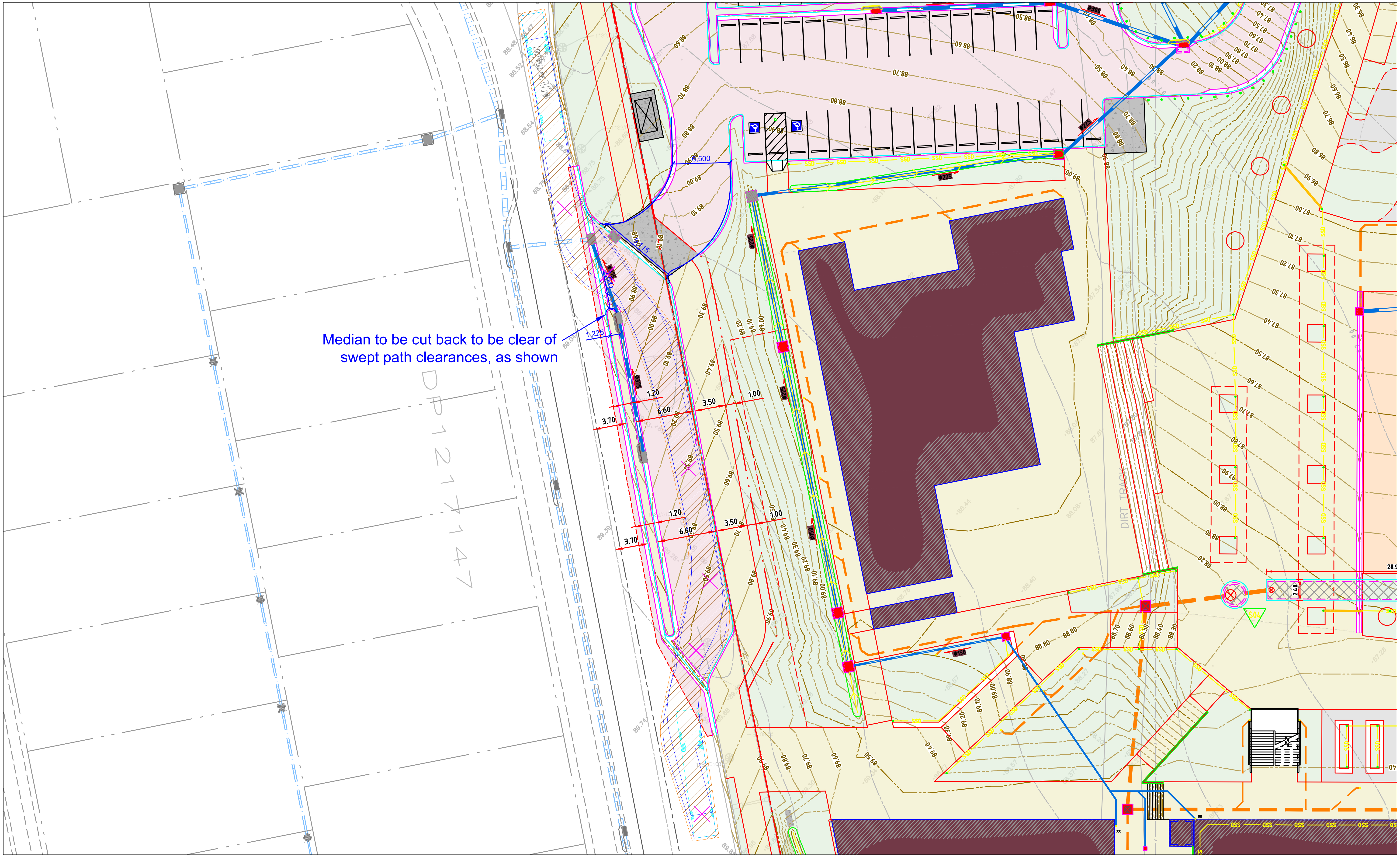


Notes:
This drawing is provided for information purposes only and should not be used for construction.

Document Info:	Drawn by: AT
Client:	Hansen Yuncken
Project:	1047 Catherine Fields Primary School
Drawing Title:	Swept Path Analysis B85 and B99 Design Vehicles
Date:	11/09/20
Scale @ A3:	N/A
Drawing Number:	02

asongroup
Suite 5.02, Level 5, 1 Castlereagh St
Sydney NSW 2000
info@asongroup.com.au

Attachment 3 – Revised Indented Kiss & Drop Swept Path Assessment



Notes:

This drawing is provided for information purposes only and should not be used for construction.

Document Info:
Drawn by: AT

Client:
Hansen Yuncken

Project:
1047
Catherine Fields Primary School

Drawing Title:
Swept Path Analysis
14.5m Rigid Bus

Date:
11/09/20

Scale @ A3:
N/A

Drawing Number:
03

asongroup
Suite 5.02, Level 5, 1 Castlereagh St
Sydney NSW 2000
info@asongroup.com.au