Construction Soil and Water Management Plan

Mosman High School

Prepared for Multiplex Australasia / 22 September 2023

201635

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(ABN 74 649 974 112) I Consulting Engineers
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Your Partner in Engineering

Contents

1.0 The Development Site

The site is located at 745 Military Road, Mosman NSW 2088 (Lot 1 DP1268793) and is within Mosman Municipal Council (LGA). The site is bordered by Military Road to the east, Gladstone Avenue to the west, Belmont Road to the north and Avenue Road to the south. The site locality is shown in Figure 1.
The area of the site is 14488 m^2 based on survey data provided by LTS Lockley (Shown in Attachment B) and generally grades from southeast to northwest (3% average), with highest level of 79.20 mAHD at south eastern boundary falling to 74.30 mAHD at north western boundary.

Figure 1: Site Locality Plan (Six Map)

The site falls within Infrastructure (SP2) land use based on Mosman Local Environmental Plan (LEP, 2012) and is currently used as educational facility. The site in existing conditions incorporates multiple buildings, sport fields, an open carpark and several other paved areas. The site incorporates two pedestrian entry egresses via Military Road and Belmont Road and two access driveways via Gladstone Avenue.

2.0 Construction Methodology

It is anticipated that there will be three types of construction work occurring within the site which are:

1. Demolition / Clearing
2. Excavation
3. Construction

3.0 Access Locations

As the proposed construction methodology by Multiplex is a staged construction the access to the worksite varies through the various stages/phases. For most of the duration of the works the site will be accessed via a temporary vehicular crossing on Belmont Road adjacent to existing site tennis courts. Towards the end of the works the site access will be moved further west on Belmont Road for access to existing car park on corner of Belmont Road and Gladstone Avenue, and also an additional site access will be provided Gladstone Avenue.

4.0 Traffic Movements within the Worksite

During demolition/clearing, excavation vehicles are to move through the site in a clockwise direction, entering from the temporary vehicle crossover on Belmont Road adjacent to the existing tennis courts and exiting from the same driveway. Vehicle loads are to be covered at all times when leaving the site and any loose debris be washed off vehicles prior to exiting the site.

5.0 Builders Compound Location

The builders compound will be located within the existing car park within the site at the corner of Belmont Road and Gladstone Avenue.

6.0 Site Storage

It is anticipated that all site storage is to be incorporated into the builders compound.

7.0 Crane Locations

The tower crane will be located between the corner of the existing Building B and the existing tennis court.

8.0 Erosion and Sediment Control Measures

During the construction stage of the project, an erosion and sediment control plan is to be implemented to prevent sediment laden stormwater from flowing into adjoining properties, bushland, roadways or receiving water bodies. Stormwater controls onsite are detailed in an erosion and sediment control plan and also the staged construction environmental management plans attached in Appendix A which is in accordance with relevant regulatory authority guidelines including Mosman Council's DCP and Landcom NSW's Managing Urban Stormwater, Soils and Construction ("Blue Book"). The measures implemented include:

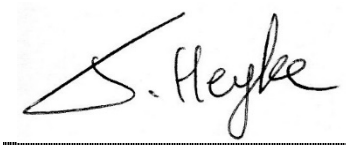
- Siltation fencing around the perimeter of the extent of works.
- Temporary construction entry/exits located at the contractor access points.
- Geotextile pit filters on all existing stormwater pits within the site and proposed stormwater pits as they are constructed.
- Sandbag kerb sediment traps along the kerb on Belmont Road and Gladstone Avenue.

9.0 Management of Stormwater Flows During Construction

During construction in order to manage stormwater flows for small and large sized storm events, including, but not limited to 1 in 5 year ARI, all existing overland flow paths are to be maintained so as to not impact on any downstream properties by altering catchments during construction. The overland flow from the extent of works will have the erosion and sediment managed by the measures stated in the previous section.

Once the roof of the proposed building has been erected, all downpipes and roof drainage are to be connected into the stormwater pit and pipe system as soon as possible in order to have as much of the stormwater flow during storm events within the pipes minor stormwater system as possible.

Prepared by
TTW (NSW) PTY LTD



JARED HEYKE
Civil Engineer

Authorised By
TTW (NSW) PTY LTD

Adrian Hall
Associate

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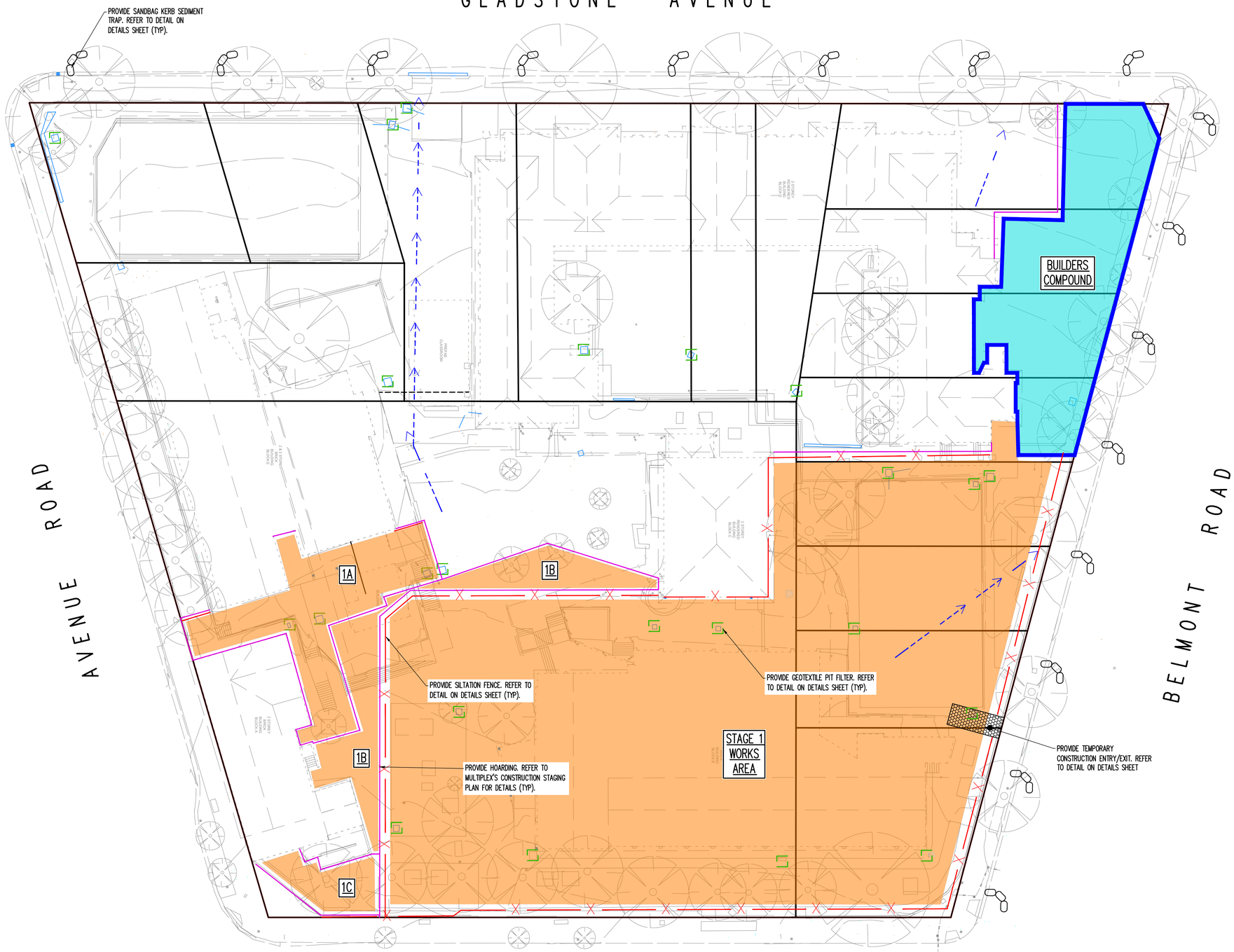
Appendix A

Construction Environmental Management Plans

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES ON DRAWING CV-82-A-001



EROSION AND SEDIMENT CONTROL NOTES

1. 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").
2. 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.
3. Maintain all erosion and sediment control devices to the satisfaction of the superintendent and the local authority.
4. When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.
5. Minimise the area of site being disturbed at any one time.
6. Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses.
7. 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.
8. Control water from upstream of the site such that it does not enter the disturbed site.
9. All construction vehicles shall enter and exit the site via the temporary construction entry/exit.
10. All vehicles leaving the site shall be cleaned and inspected before leaving.
11. Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event.
12. Clean out all erosion and sediment control devices after each storm event.

Sequence Of Works

1. Prior to commencement of excavation the following soil management devices must be installed.
1.1. Construct silt fences below the site and across all potential runoff sites.
1.2. Construct temporary construction entry/exit and divert runoff to suitable control systems.
1.3. Construct measures to divert upstream flows into existing stormwater system.
1.4. Construct sedimentation traps/basin including outlet control and overflow.
1.5. Construct turf lined swales.
1.6. Provide sandbag sediment traps upstream of existing pits.
2. Construct geotextile filter pit surround around all proposed pits as they are constructed.
3. On completion of pavement provide sand bag kerb inlet sediment traps around pits.
4. 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.

EROSION AND SEDIMENT CONTROL LEGEND

- Siltation fence
- Stormwater pit with Geotextile filter surround
- Sandbag sediment trap
- Overland flow path
- Site Hoarding
- Works Zone
- Builders Compound

NOTE: EXISTING OVERLAND FLOW PATHS WILL BE MAINTAINED DURING THE WORKS AS SHOWN

FileName: Stage 1.dwg - USER: gareth - Plot File Created: Sep 22, 2023 - 4:01pm

A1

Rev	Description	Eng	Draft	Date
A	ISSUE FOR APPROVAL	AH	JH	22.09.23
P1	ISSUE FOR APPROVAL	AH	AI	08.11.21

Architect
WOODS BAGOT
2/60 CARRINGTON STREET, NSW 200

Client
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22/135 KINGS STREET, NSW 200

Engineer
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Project
MOSMAN HIGH SCHOOL UPGRADE
745 MILITARY ROAD, MOSMAN , NSW 2088

Sheet Subject
CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN - STAGE 1&1A/B/C

Scale : A1 1:300 | Drawn JW | Authorised

Job No 201635 | Drawing No STAGE 1 | Revision A

Plot File Created: Sep 22, 2023 - 4:01pm

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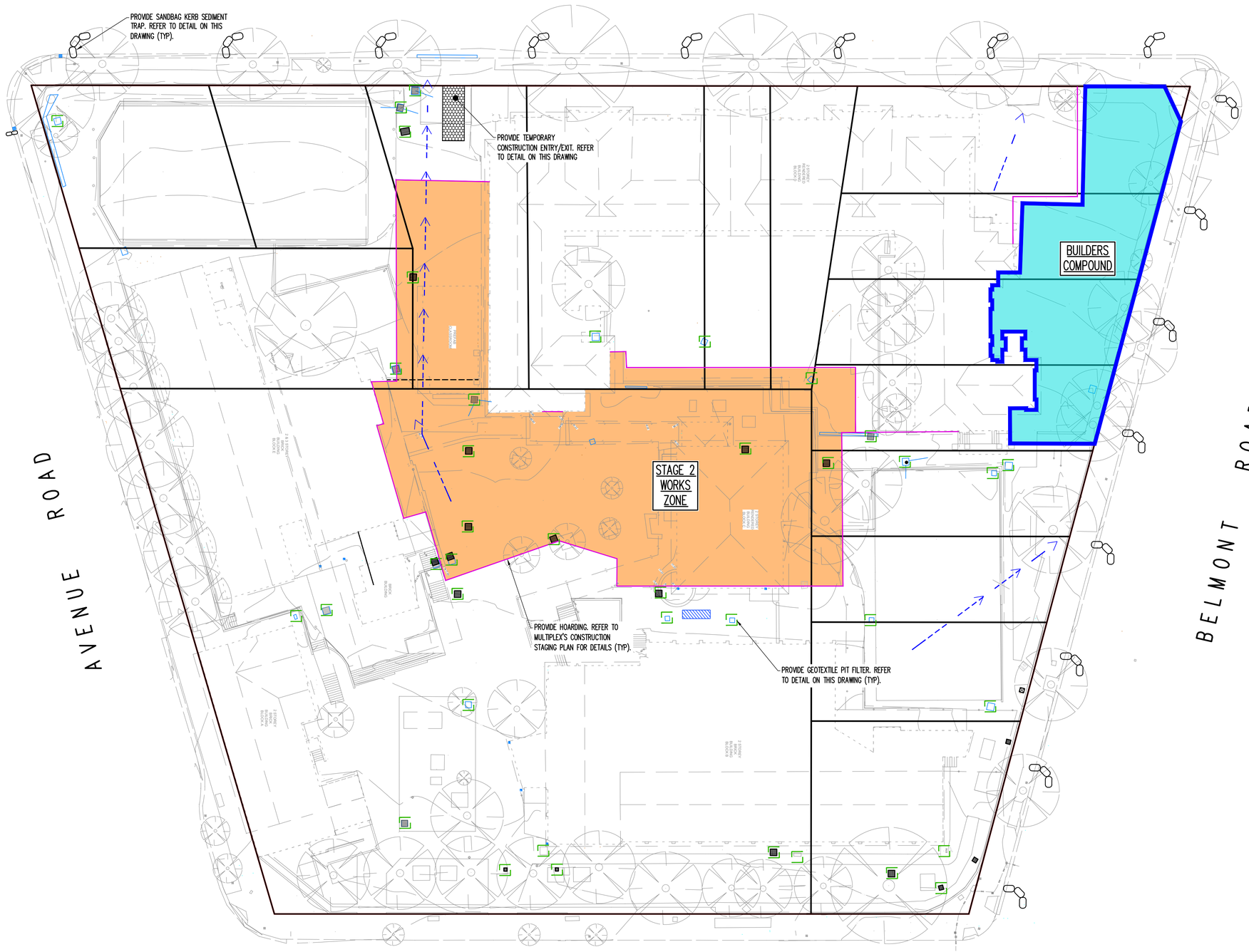

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FileName: Stage 2.dwg - USER: jsmith - Plot File Created: Sep 22, 2023 - 4:32pm

A1

Rev	Description	Eng	Draft	Date
A	ISSUE FOR APPROVAL	AH	JH	22.09.23
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Sheet Subject
CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN - STAGE 2

Scale : A1 1:300 | Drawn JW | Authorised

Job No 201635 | Drawing No STAGE 2 | Revision A

Plot File Created: Sep 22, 2023 - 4:32pm

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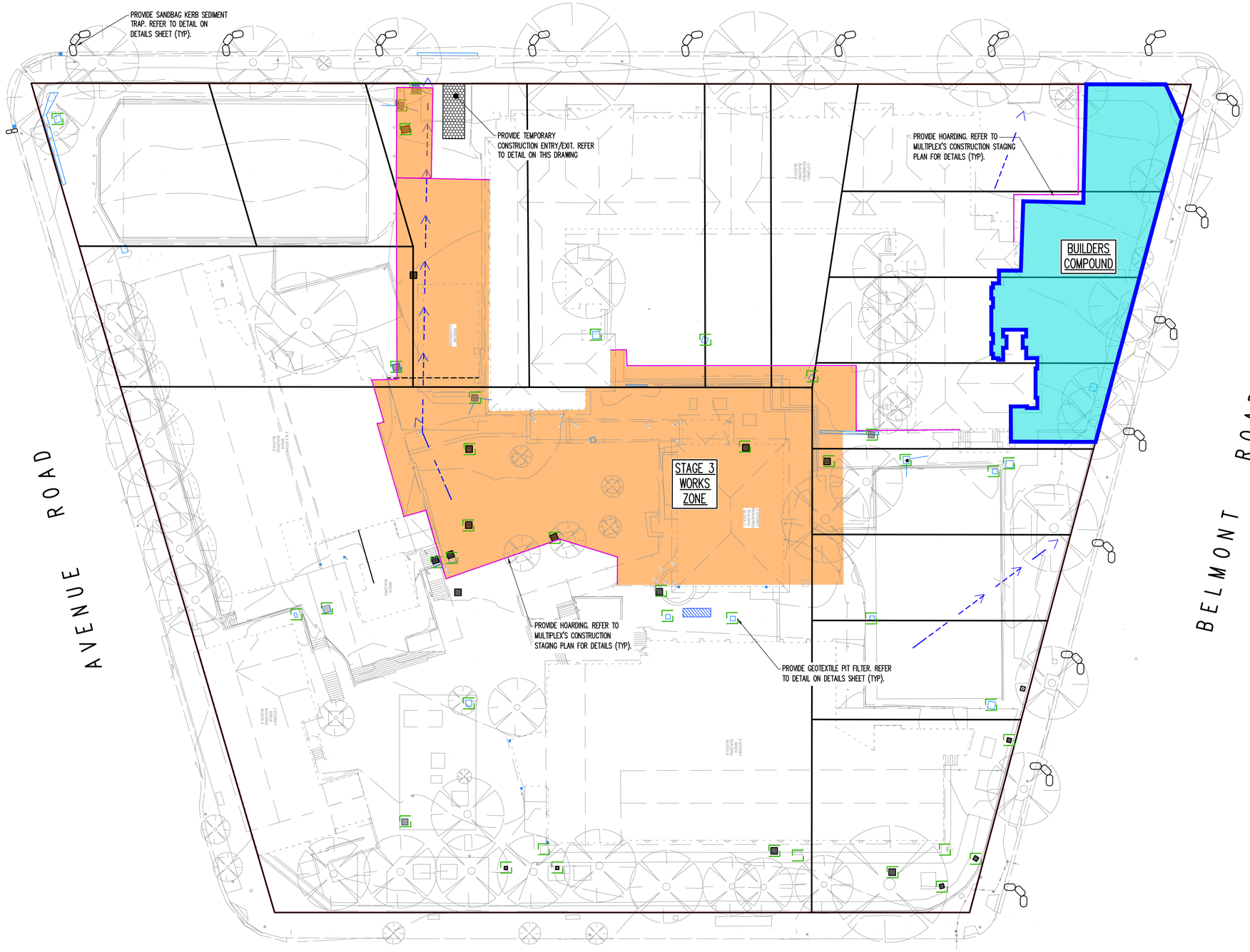

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NOTE: NEW BUILDING DOWNPIPES ARE TO CONNECTED INTO STORMWATER NETWORK AS SOON AS POSSIBLE

NOTE: EXISTING OVERLAND FLOW PATHS WILL BE MAINTAINED DURING THE WORKS AS SHOWN

FileName: Stage 3.dwg – USER: jonath – Plot File Created: Sep 22, 2023 – 4:33pm

A1

Rev	Description	Eng	Draft	Date
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P1	ISSUE FOR APPROVAL	AH	AI	08.11.21

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CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN - STAGE 3

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P1	ISSUE FOR APPROVAL	AH	AI	08.11.21

Architect
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Sheet Subject
CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN - STAGE 4

Scale : A1 1:300 | Drawn JW | Authorised

Job No 201635 | Drawing No STAGE 4 | Revision A

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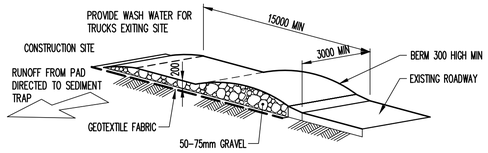

TEMPORARY CONSTRUCTION EXIT

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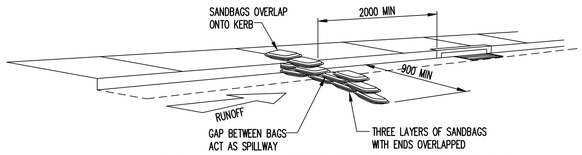

SANDBAG KERB SEDIMENT TRAP

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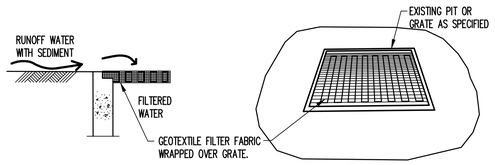

GEOTEXTILE PIT FILTER

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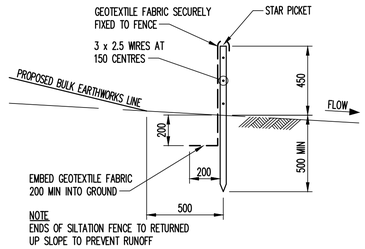

SILTATION FENCE DETAIL

SCALE 1: 20

A1

Rev	Description	Eng	Draft	Date
P1	ISSUE FOR APPROVAL	AH	AI	08.11.21

Architect
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Sheet Subject
CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN - DETAILS SHEET

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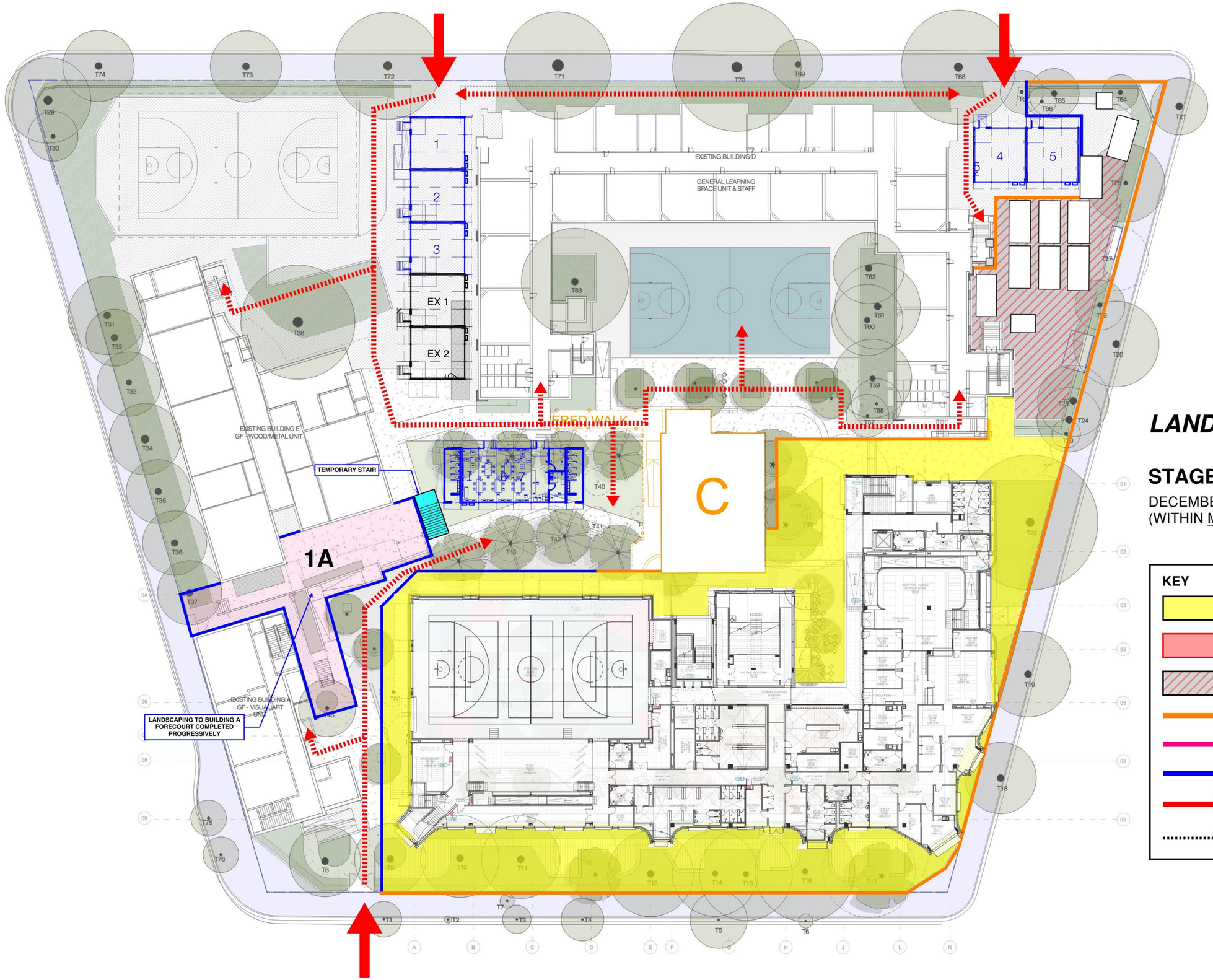
AS SHOWN	JW	

Job No	Drawing No	Revision
201635	DETAILS SHEET	P1

Plot File Created: Nov 08, 2021 - 4:04pm

Appendix B

Multiplex Construction Staging Plans / Methodology



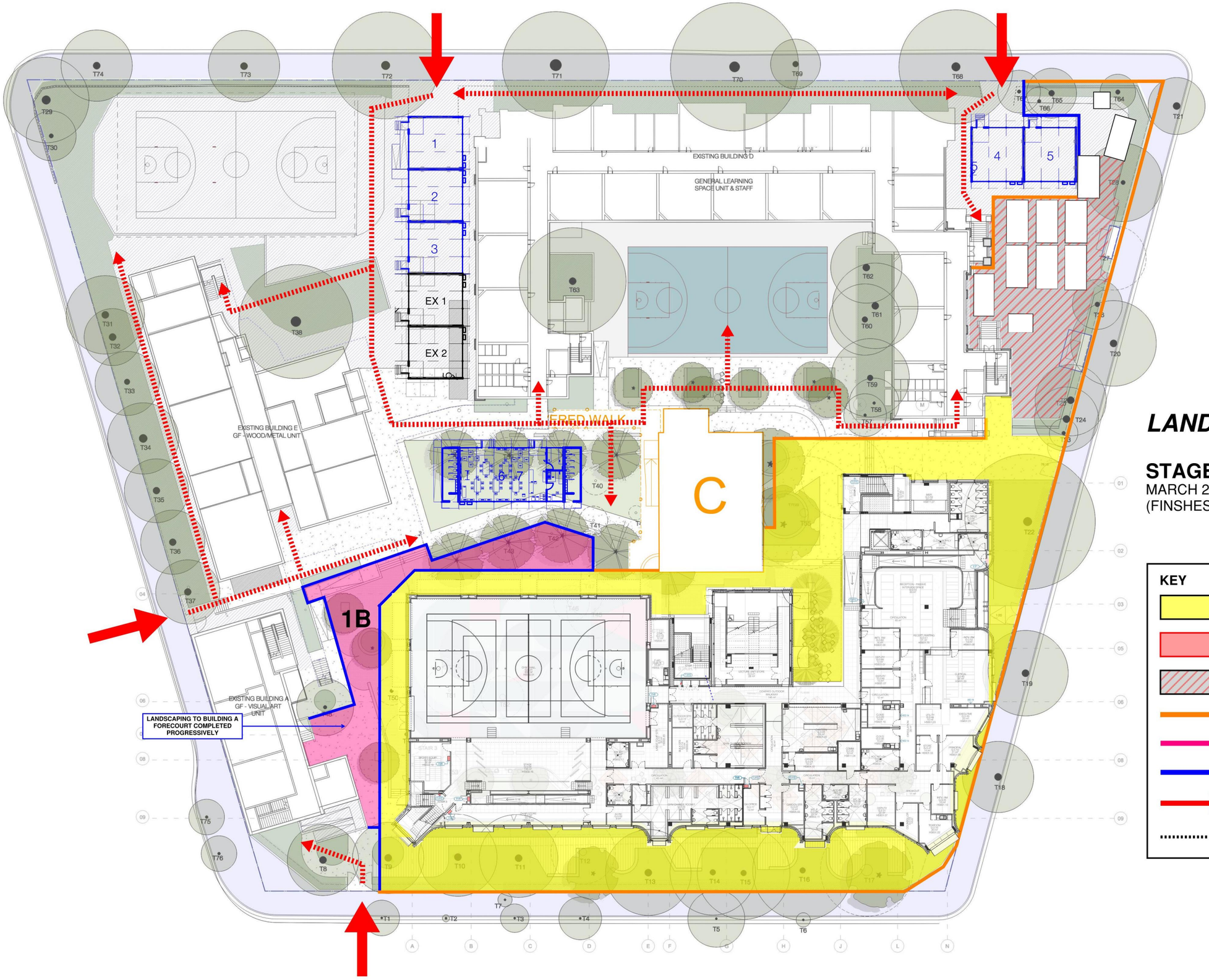
LANDSCAPING

STAGE 1A

DECEMBER 17 2022
(WITHIN MILESTONE 1)

KEY

- EXTENT OF WORKS
- DEMOLITION WORKS
- MULTIPLEX SITE AMENITIES
- A-CLASS HOARDING
- CLIENT REQUESTED A-CLASS HOARDING
- ATF FENCING
- MHS ACCESS/EGRESS POINTS
- PLANT ACCESS/EGRESS



LANDSCAPING

STAGE 1B

MARCH 2023

(FINSHES AT CONCLUSION OF MILESTONE 1)

KEY

- EXTENT OF WORKS
- DEMOLITION WORKS
- MULTIPLEX SITE AMENITIES
- A-CLASS HOARDING
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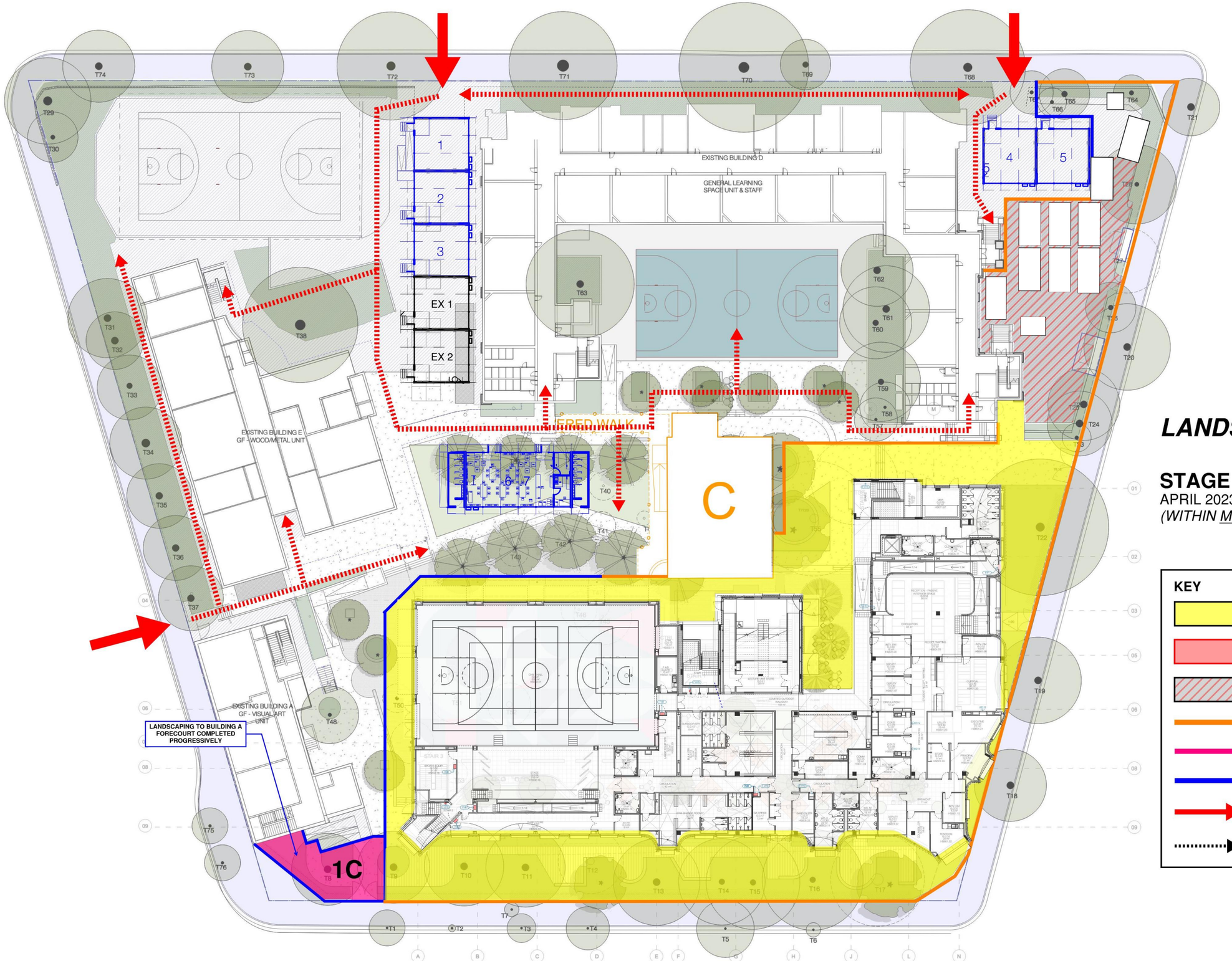
- ATF FENCING
- MHS ACCESS/EGRESS POINTS
- PLANT ACCESS/EGRESS



LANDSCAPING

STAGE 1C

APRIL 2023

(WITHIN MILESTONE 1)

KEY

- EXTENT OF WORKS
- DEMOLITION WORKS
- MULTIPLEX SITE AMENITIES
- A-CLASS HOARDING
- CLIENT REQUESTED A-CLASS HOARDING
- ATF FENCING
- MHS ACCESS/EGRESS POINTS
- PLANT ACCESS/EGRESS

LANDSCAPING

STAGE 2 (GROUND FLOOR)
MID AUGUST 2023

SHARED ACCESS FOR LOADOUT, TRAFFIC CONTROLLERS IN PLACE

MPX CONSTRUCTION GATE

WASTE ENCLOSURE

GF DOOR CLOSED THROUGHOUT STAGE

EXISTING BUILDING D

GENERAL LEARNING SPACE UNIT & STAFF

EXISTING BUILDING E
GF - WOOD/METAL UNIT

ERED WALK

C

TEMPORARY RAMP TO BUILDING D FOR DDA ACCESS

DEMOLITION SCAFFOLDING

SCAFFOLD TO EXTEND OVER LINKBRIDGE ROOF

1m MAX. CLEARANCE SUBJECT TO FINAL HOARDING LOCATION

ACCESSWAY TO BE CLOSED DURING DEMOLITION

EXISTING BUILDING A
GF - VISUAL ART UNIT

STAIR 3

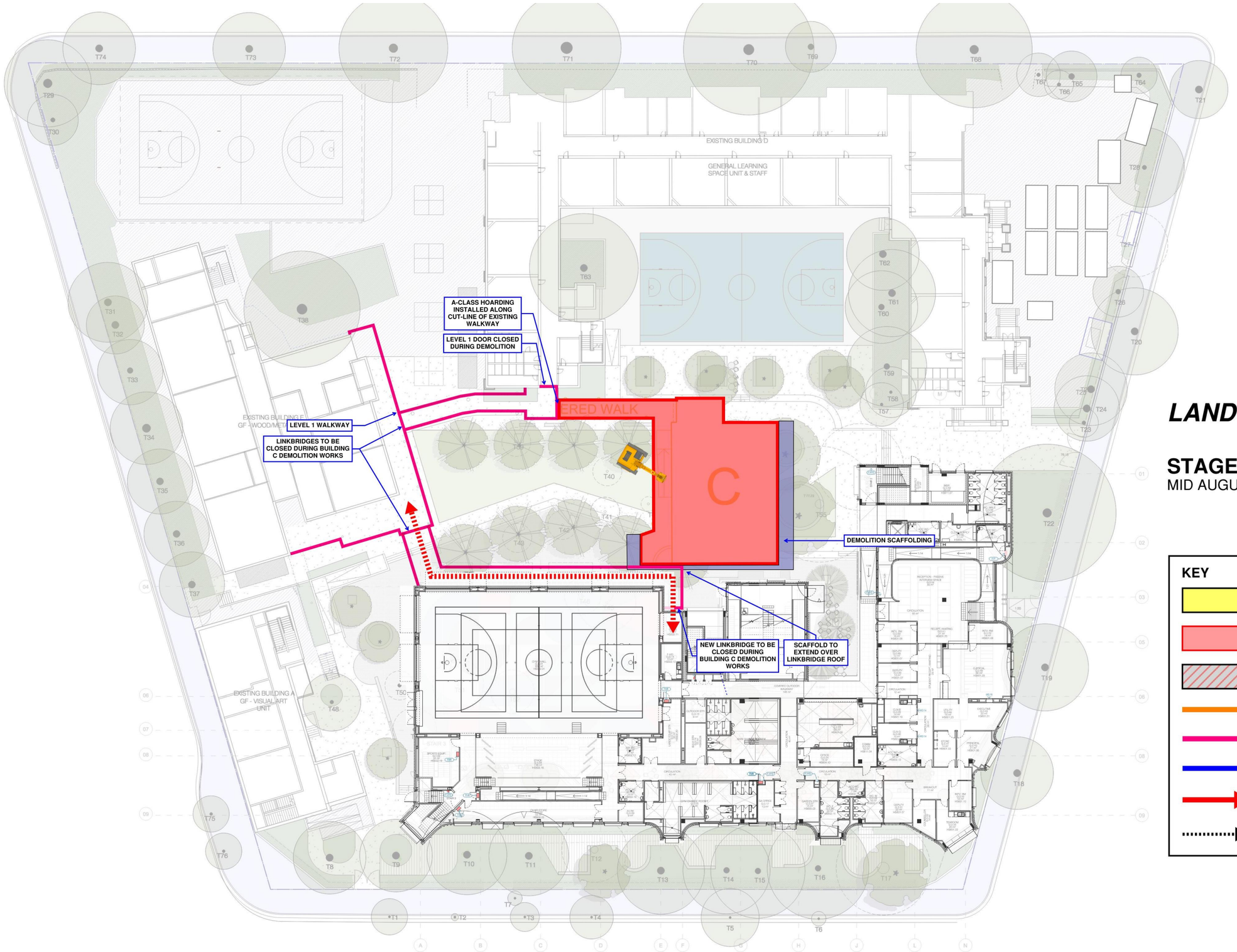
T1 T2 T3 T4 T5 T6 T7 T8 T9 T10 T11 T12 T13 T14 T15 T16 T17 T18 T19 T20 T21 T22 T23 T24 T25 T26 T27 T28 T29 T30 T31 T32 T33 T34 T35 T36 T37 T38 T40 T41 T42 T43 T46 T48 T50 T58 T59 T60 T61 T62 T63 T64 T65 T66 T68 T69 T70 T71 T72 T73 T74 T75 T76

A B C D E F G H J L N

01 02 03 04 05 06 07 08 09

KEY

- EXTENT OF WORKS
- DEMOLITION WORKS
- MULTIPLEX SITE AMENITIES
- A-CLASS HOARDING
- CLIENT REQUESTED A-CLASS HOARDING
- ATF FENCING
- MHS ACCESS/EGRESS POINTS
- PLANT ACCESS/EGRESS

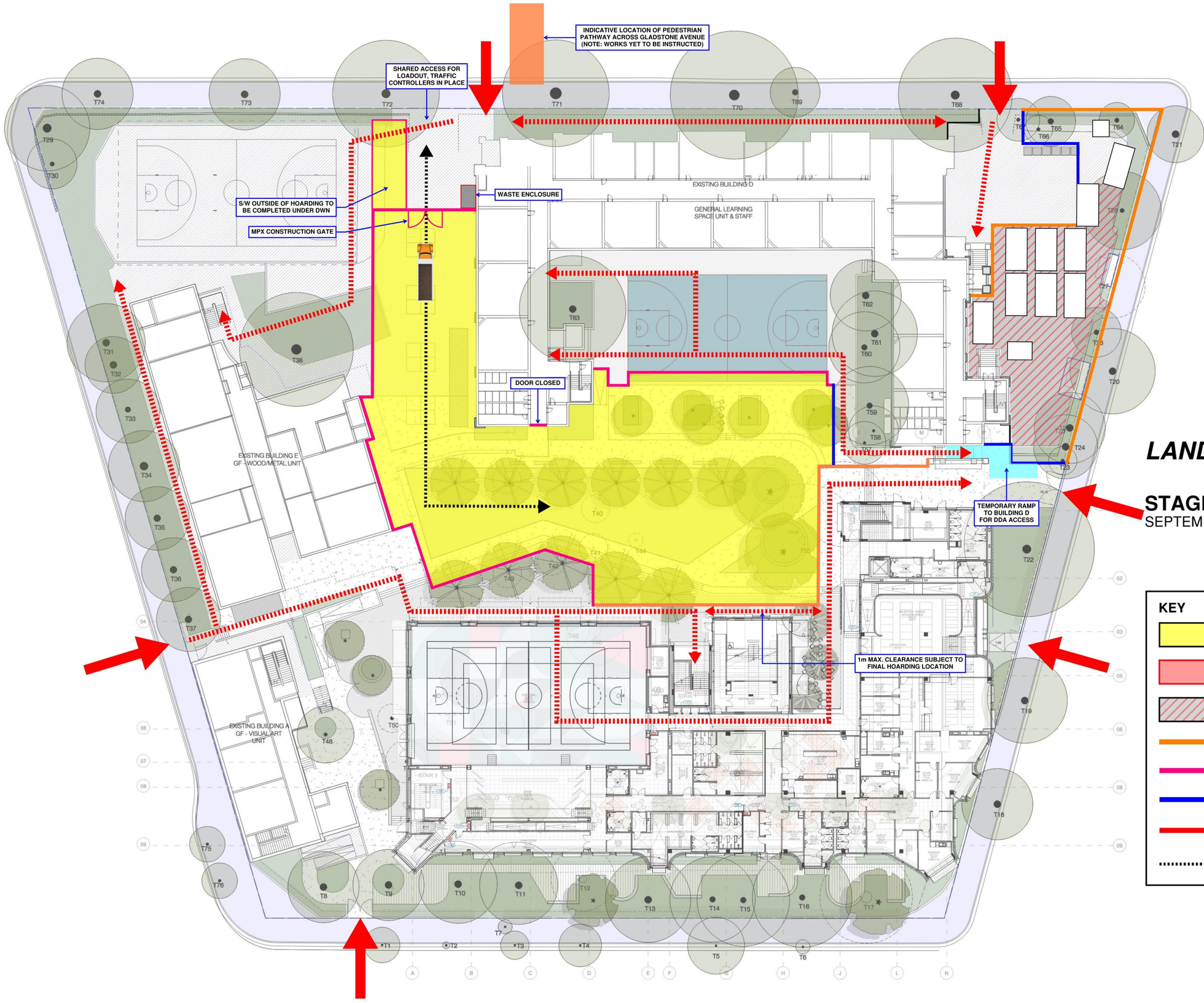


LANDSCAPING

STAGE 2 (LEVEL 1)
MID AUGUST 2023

KEY

- EXTENT OF WORKS
- DEMOLITION WORKS
- MULTIPLEX SITE AMENITIES
- A-CLASS HOARDING
- CLIENT REQUESTED A-CLASS HOARDING
- ATF FENCING
- MHS ACCESS/EGRESS POINTS
- PLANT ACCESS/EGRESS

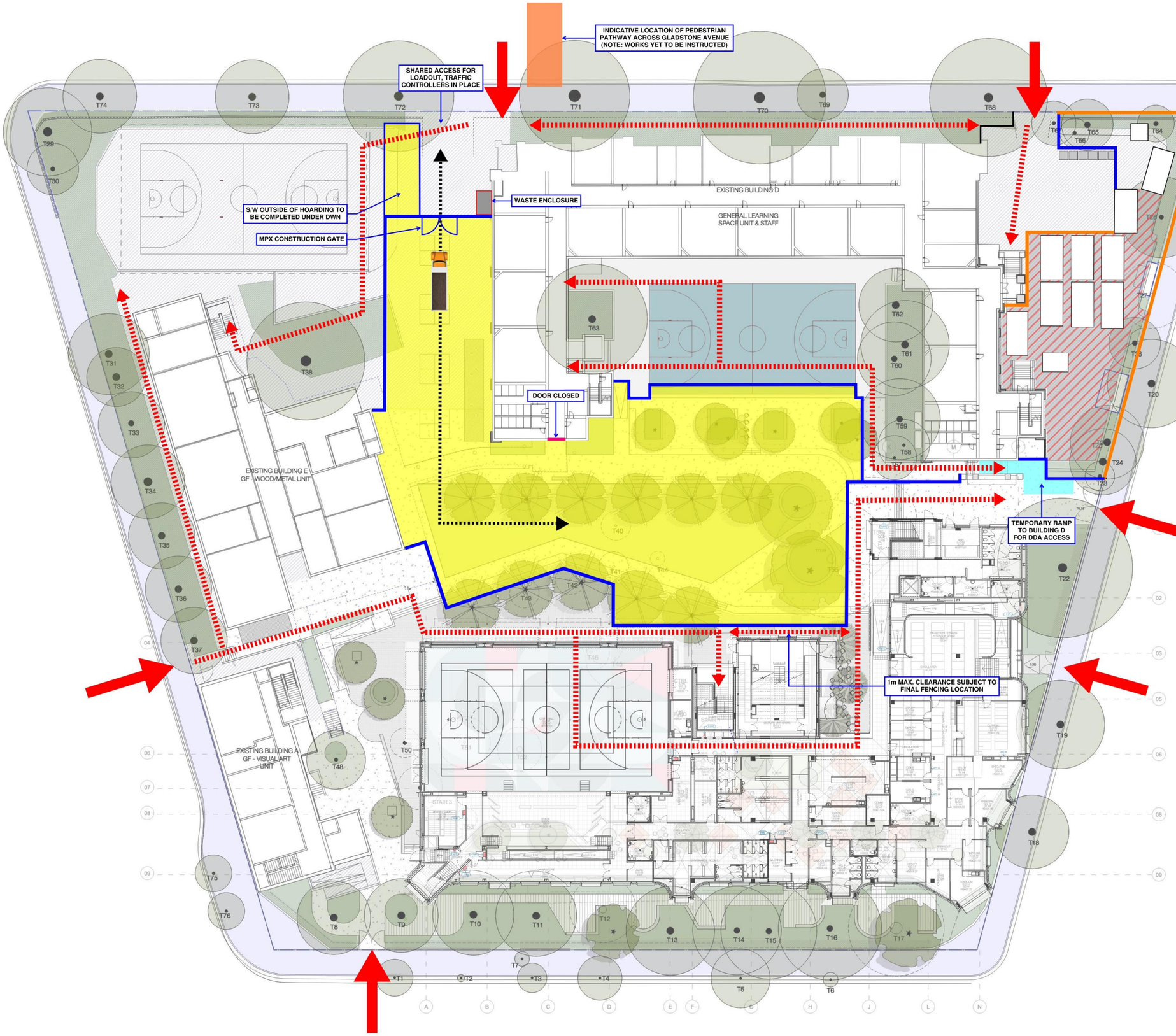


LANDSCAPING

STAGE 3A
SEPTEMBER / OCTOBER 2023

KEY

- EXTENT OF WORKS
- DEMOLITION WORKS
- MULTIPLEX SITE AMENITIES
- A-CLASS HOARDING
- CLIENT REQUESTED A-CLASS HOARDING
- ATF FENCING
- MHS ACCESS/EGRESS POINTS
- PLANT ACCESS/EGRESS



LANDSCAPING

STAGE 3B

A-CLASS HOARDING TO BE REMOVED AND REPLACED WITH ATF FENCING TO ALLOW FOR FINAL LANDSCAPING FINISHES. NOTE ALL HAZMAT WILL BE REMEDIATED PRIOR TO A-CLASS REMOVAL.

KEY

- EXTENT OF WORKS
- DEMOLITION WORKS
- MULTIPLEX SITE AMENITIES
- A-CLASS HOARDING
- CLIENT REQUESTED A-CLASS HOARDING
- ATF FENCING
- MHS ACCESS/EGRESS POINTS
- PLANT ACCESS/EGRESS

INDICATIVE LOCATION OF PEDESTRIAN PATHWAY ACROSS GLADSTONE AVENUE (NOTE: WORKS YET TO BE INSTRUCTED)

MULTIPLEX ACCESS ONLY

EXISTING BUILDING D

GENERAL LEARNING SPACE UNIT & STAFF

EXISTING BUILDING E GF - WOOD/METAL UNIT

EXISTING BUILDING A GF - VISUAL ART UNIT

LANDSCAPING

STAGE 4
NOVEMBER 2023

KEY

- EXTENT OF WORKS
- DEMOLITION WORKS
- MULTIPLEX SITE AMENITIES
- A-CLASS HOARDING
- CLIENT REQUESTED A-CLASS HOARDING
- ATF FENCING
- MHS ACCESS/EGRESS POINTS
- PLANT ACCESS/EGRESS