

St Catherine's School

**St Catherine's School,
Twickenham**

Construction Management Plan

September 2024

Caneparo Associates Limited
21 Little Portland Street
London W1W 8BT
Tel: 020 3617 8200

www.caneparoassociates.com

Registered in England: 9930032

Construction Management Plan

Guidance Notes

1. In order to ensure developments are carried out safely the London Borough of Richmond upon Thames (as the local Planning & Highways Authority) require a Construction Management Plan is submitted for the project that demonstrates how the works are to be carried out.
2. Construction traffic may have a disproportionate impact on a street, the highway network and neighbours; therefore, you must clearly demonstrate proposals that mitigate this impact as far as possible.
3. This pro-forma document has been prepared to ensure the council's key concerns in relation to construction traffic, site and highway network management are addressed.
4. A CMP once approved, becomes an enforceable planning condition and [enforcement action](#) may be taken against sites that do not adhere to the methodology approved in a CMP.
5. Wording must be precise, and ambiguous phrases such as, "generally", "normally", "roughly", "anticipated", "intended", "approximate" or "likely to be" must be avoided, otherwise the CMP will be rejected. Where exact details are not known at the time of preparing the CMP, a robust worst case should be stated.
6. The relevant planning condition relating to this CMP will need to be formally discharged by the Council before any licences for temporary structures on the highway & any parking suspensions granted. Further approvals will be required for any [skips](#), temporary structures on the highway, parking suspensions, road closures or Temporary Traffic Orders.
7. You should be aware that developments on or adjacent to the Transport for London (TfL) [Road Network \(red routes\)](#) or other infrastructure may require additional liaison and some licences may need to be issued through [TfL](#). Confirmation of these will be required and details should be appended.
8. In addition, you should familiarise yourself with the requirement to use clean, safe vehicles with good levels of direct vision, safety bars and advisory signage:
<https://tfl.gov.uk/info-for/deliveries-in-london/delivering-safely>
9. Please ensure you read through the CMP template and only provide information relevant to each section in a clear and concise way.
10. Drawings should be at a minimum scale of 1:200, be properly drawn (CAD, not by hand) and appended to the CMP document.
11. Before works commence on-site you should check to see if there are any nearby [planning applications](#) or potential conflicts with [roadworks](#) or [road closures](#).

INTRODUCTION

1. Date of this document

12/09/2024

2. Site / Property address

St Catherine's School, Twickenham

3. Planning reference (if known)

23/3208/FUL

4. Brief description of the work

The proposal seeks to demolish the existing music block at St Catherine's School to allow for a new building comprising 2 storeys which will offer a new and improved Music and Arts Building. The proposal also includes planting and landscaping improvements.

5. Contact details (name & mobile number)

| | |
|---|---|
| Property Owner / Client: | St Catherine's School Jonny Hughes – 020 8891 2898 |
| Project Manager / Contractor | To be confirmed in the final CMP. |
| Emergency Contact | To be confirmed in the final CMP. |
| Person responsible for completing this document | Name: Sarah Woodley Company: Caneparo Associates Address: 21 Little Portland Street, W1W 8BT |

6. Estimated Start Date and Programme Length

Estimated Start Date: July 2025

Programme:

| Indicative Construction Programme | | |
|------------------------------------|----------------|----------------|
| Phase | Start | End |
| Site setup and demolition | July 2025 | August 2025 |
| Piling | September 2025 | September 2025 |
| Sub-structure | September 2025 | October 2025 |
| Super-structure | October 2025 | February 2026 |
| Fit-out, testing and commissioning | February 2026 | June 2026 |

LOGISTICS AND SITE SETUP

7. Vehicle routing (*Please provide a description of the local routing via the nearest major A roads. Please note construction vehicles are generally expected to approach a site so it is on the left hand side, to avoid excessive manoeuvring, and to exit in forward gear. (Routing drawings should be appended to the end of this document)*)

To site:

Option 1 - A305 York Street – King Street – Cross Deep – Grotto Road – Site.

Option 2 - A310 Strawberry Vale – Cross Deep – Grotto Road – Site.

Away from site:

Option 1 - Site – Grotto Road - Cross Deep - King Street - A305 York Street.

Option 2 - Site – Grotto Road - Cross Deep - A310 Strawberry Vale.

Detail of the vehicle routing plan is provided at **Appendix A**.

To facilitate the proposed egress routes, a Temporary Traffic Management Order (TTMO) will be required to convert the eastern section of Grotto Road into two-way flow, from the junction with Cross Deep up to the entrance into the on-site loading area. The remaining western stretch of Grotto Road will remain one-way for westbound traffic flow.

8. Please list any nearby Sensitive Receptors (schools, hospitals, care homes, major shopping areas, large offices, etc.) In some circumstances, the council may require permitted hours for construction vehicles to be restricted to between **09:30 and 15:00 Mon to Fri**, to avoid cumulative impacts on the highway network during peak periods, particularly where there are nearby schools. (Section 8 below)

Local residents along Grotto Road, Cross Deep and Popes Grove will be notified of the construction works occurring at the site. Vehicles entering and exiting the on-site loading area will be considerate of existing residents along all roads and within close proximity to the site. Construction will not take place outside of the controlled working hours. Temporary parking bay suspensions will occur along the eastern part of Grotto Road throughout construction. All appropriate licences will be applied for, and residents will be notified of the temporary parking bay suspensions on Grotto Road prior to these being applied for.

St Catherine's School will be aware of the construction works happening at the site and the proposed vehicle access arrangements. All staff and students will be made aware of the construction works to maintain safety within the school.

Radnor House Independent school is located within the vicinity of the site. Important considerations will be taken when mitigating vehicle activity to not conflict with the school day. It will also be paramount to engage with school's where necessary to promote pedestrian safety.

A member of the project management team will be elected as a Community Liaison Officer whose contact details will be made available on the site hoarding including a 24-hour emergency number. Their role and responsibilities will include being the primary point of contact for the local community and answering queries and questions where necessary.

9. Working hours (*no works of any kind permitted prior to 8am or after 6pm at any time*)

Site Hours: 08:00 –18:00 Monday to Friday and Saturday 08:00 - 13:00.

Construction Vehicle hours: 09:00 – 14:30 & 16:30-18:00 Monday to Friday and Saturday 08:00 - 13:00.

Part of the construction works will take place outside of school term time, therefore construction traffic will be able to occur from 08:00-18:00 between July and August 2025. The above times present a worst-case scenario for when the school is in operation and construction traffic will need to be mitigated to prevent conflict with school activity.

10. Please confirm you understand and agree to the following items:

| | |
|---|----------|
| a. No more than one vehicle to attend the site at any time (<i>mandatory</i>) | Y |
| b. Vehicles will not be permitted to stack outside the site or on local roads and a proper call-up procedure will be used | Y |
| c. Construction vehicles will not block the road (where this is unavoidable, justification must be provided in Section 20) | Y |

| | |
|--|---|
| d. You will provide qualified Traffic Marshals to oversee vehicle movements on the public highway if required. (The minimum requirement is the possession of the Site Access Traffic Marshal qualification) | Y |
| e. Any signage or barriers will conform to Chapter 8 of the Traffic Signs Regulations and General Directions 2019 and NRSWA requirements | Y |

11. Please describe how spoil / waste is to be removed (*vehicles must be shown on drawings*)

All vehicles throughout the demolition and construction phase will load from the on-site loading area accessible from Grotto Road. To facilitate vehicles entering the site, the existing gated access on Grotto Road will be widened to allow construction vehicles to manoeuvre into and out of the proposed loading area, which will form part of the schools existing playing fields. The loading area will be screened off and gated to prevent unauthorised access. Gravel will be used on-site to form the loading area. Wheel washing facilities, site offices and material storage will be stored on-site within the loading area and clear of the public highway at all times.

During the demolition phase, a tipper lorry will be located within the on-site loading area which will allow for the collection of any waste during the demolition arrangement. Tipper lorries will be sheeted over before exiting the site onto the highway network.

As mentioned previously, a TTMO will be applied for to convert the eastern section of Grotto Road into two-way traffic flow so that all construction vehicles approach and exit from the junction with Grotto Road / Cross Deep. Banksman will be positioned at this junction to assist with the exit of construction vehicles and temporarily hold other vehicles on the network. Appropriate signage will be located on Grotto Road relating to the TTRO to notify all road users.

Details of the Proposed Construction Arrangement is located at **Appendix B**.

12. If required, how will concrete be supplied to the site?

| | |
|--|---|
| a. Standard Ready-Mix vehicles (<i>must be included on drawings</i>) | Y |
| b. Bagged material delivered and mixed on site | N |

13. Please confirm you can maintain a clear carriageway passing width of 3.0m for other vehicles when construction vehicles are in position

Y

- a. If not, then in streets where there is restricted width for large construction vehicles, you will be expected to use **Narrow-Bodied Vehicles**. These are defined as having a body width - excluding wing mirrors - of 2.0m or less (*An example would be a Mitsubishi Fuso or Nissan Cabstar style, flatbed tipper truck or LWB Transit*)

14. Please describe the measures you will use to ensure pedestrians and vulnerable highway users will be protected during the works.

Construction traffic poses a potential risk to pedestrian and cyclist safety. Vulnerable road users' safety will be paramount. The use of traffic marshals/ banksmen during all periods of operation at the site will ensure pedestrian and cyclist safety. Clear signage, cones and good lighting for pedestrians will be provided as required. The public right of way will be regularly cleaned down and inspected for hazards.

Banksmen will be positioned on Grotto Road near to the vehicle access to assist with vehicles accessing the on-site loading area. Traffic marshals will be located on Grotto Road to hold pedestrians, cyclists and vehicles utilising Grotto Road whilst vehicles are manoeuvring into and out of the site.

Pedestrian gates and a level crossing will be provided near the construction site, to allow for staff and students to continue to travel around the school in a safe manner throughout term time. All staff and student's movements within the school will be monitored by traffic marshals and banksmen to ensure safety at all times.

Banksmen and traffic marshals will also be positioned at the junction with Cross Deep / Grotto Road to assist construction vehicles that are exiting the site. This will require the temporary holding of pedestrians, cyclists and vehicles whilst a construction vehicle is travelling eastbound on Grotto Road and turning onto Cross Deep.

15. Programme schedule and vehicles

(Please provide a breakdown per Phase of the project, of the type, dimensions (L&W) and expected weekly number of vehicles expected to attend the site. e.g. Excavation – Tipper truck – 9m x 2.5m – 5 vehicles per week; transit van - 5m x 1.9m – 10 vehicles per week, etc.)

| PHASE | VEHICLE TYPES & DIMENSIONS | EXPECTED NUMBER PER WEEK |
|-------------|--|--------------------------|
| Site Set Up | <ul style="list-style-type: none"> 5.9m length and 2m width Light Van for general tradesmen deliveries | 12 |
| | <ul style="list-style-type: none"> 10m length and 2.5m width Rigid Flatbed / 14m length 2.5m width Articulated Lorry for bringing hoarding equipment / fencing. | 3 |

| | | |
|------------------------------------|---|---|
| Piling | <ul style="list-style-type: none"> • 10m length and 2.5m width Rigid Flatbed / 14m length 2.5m width Articulated Lorry for bringing mini piling rig. | 1 |
| | <ul style="list-style-type: none"> • 8.2m length and 2.5m width Medium Tipper for spoil removal. | 5 |
| | <ul style="list-style-type: none"> • 5.9m length and 2m width Light Van for general tradesmen deliveries. | 5 |
| Substructure | <ul style="list-style-type: none"> • 8.4m length, 2.4m concrete mixer for the pouring of concrete to form the foundations of the building. | 5 |
| | <ul style="list-style-type: none"> • 5.9m length and 2m width Light Van for general tradesmen deliveries | 5 |
| Superstructure | <ul style="list-style-type: none"> • 8.4m length, 2.4m concrete mixer for the pouring of concrete into the respective parts of the building | 4 |
| | <ul style="list-style-type: none"> • 5.9m length and 2m width Light Van for general tradesmen deliveries | 3 |
| Fit-out, Testing and Commissioning | <ul style="list-style-type: none"> • 10m length and 2.5m width Rigid Flatbed / 14m length 2.5m width Articulated Lorry for bringing large materials. | 3 |
| | <ul style="list-style-type: none"> • 5.9m length and 2m width Light Van for general tradesmen deliveries | 4 |

16. Are there any planned exceptional loads required (i.e. crane or plant deliveries using a low-loader; mobile crane lifts; piling rigs, steel beams, etc.) Provide details and vehicle dimensions. A site setup drawing will be required, as will swept path analysis drawings where necessary

A mini piling rig will be required to attend the site which will be transferred to the site via a rigid flatbed lorry.

A swept path analysis of all construction vehicles delivering to the site and utilising the on-street loading bay is included at **Appendix C**.

17. Will a Footway closure be required? **N**

If yes please provide a drawing showing the pedestrian diversion route and safety measures that conform to [Chapter 8 of the Traffic Signs Regulations and General Directions 2019](#) and [NRSWA](#) requirements

18. Will a Road closure be required? **N**

If yes please provide a drawing showing the diversion route and safety measures and written/email confirmation this has been agreed with the LBRuT network management team

19. Please confirm you understand & agree to the following site protection measures **Y**

| | |
|----|---|
| a. | All road gulleys to be protected & no site waste to enter public drainage systems |
| b. | All vehicle engines to be switched off when on stand |
| c. | The public highway to be kept clean at all times during the works |
| d. | Any damage to the public highway will be reported immediately |

20. Will you require a parking suspension? If so what length and for how long? (*a standard bay is 5m in length*)

All parking bays positioned to the east of the site on Grotto Road will be suspended throughout construction, this comprises the suspension of 5 parking bays (25m in length).

21. **DRAWINGS.** These must be CAD drawn at a minimum scale of **1:200**, show the position of vehicles and show the site in the context of its surroundings, including any street trees, lighting columns, street furniture, gully positions, etc. Drawings must be attached or appended to this CMP document. (*Please tick which ones are included*).

| | | |
|----|--|----------|
| a. | Site Setup, Skips, Vehicle positions etc. | Y |
| b. | Concrete Vehicle positions | Y |
| c. | Swept Path Analysis | Y |
| d. | Abnormal Loads – low loaders, cranes, etc. | Y |
| e. | Vehicle Routing | Y |

22. **ADDITIONAL DOCUMENTS** - Please attach the following and tick where necessary.

| | | |
|----|---|-----|
| a. | Noise, Vibration and Dust mitigation measures statement | N/A |
| b. | Additional Licences (TfL etc.) | N/A |
| c. | (Other) | N/A |

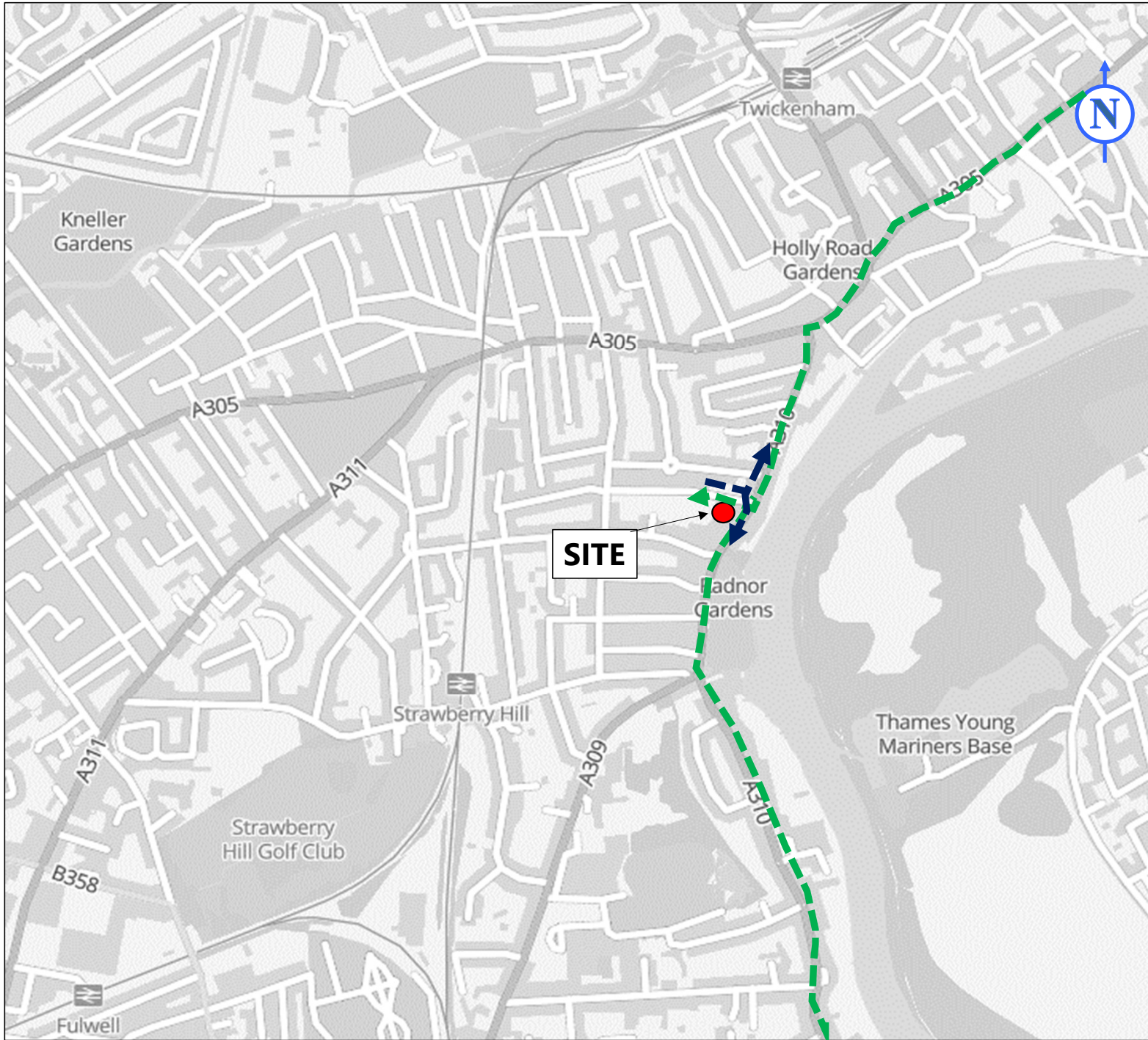
23. ADDITIONAL INFORMATION (if required above).

The brick wall on the northern side of Grotto Road is locally listed and extra caution will be taken when vehicles are manoeuvring along Grotto Road to ensure no scraping / damages occur along the wall.

The silver birch tree positioned within the school playing fields will be protected throughout construction which is demonstrated on the Proposed Construction Arrangement plan at **Appendix B**.

APPEND DRAWINGS BELOW

APPENDIX A



NOTES

1. Do not scale from this drawing.
2. This drawing is to be read & printed in colour.
3. This drawing is for illustrative purpose only.

KEY:

- Site ●
- Arrival →
- Departure →

| Rev | Details | Drawn | Check | Date |
|-----|----------------------|-------|-------|------------|
| A | Vehicle Routing Plan | DAG | SW | 16.09.2022 |

REVISION HISTORY

Client:

St Catherine's School

Project:

St Catherine's School New Music and Art Building

Drawing Title:

Vehicle Routing Plan

Scale:

NTS

Size:

A3

Drawn by:

DAG

Checked by:

S.W

Date:

16.09.2022

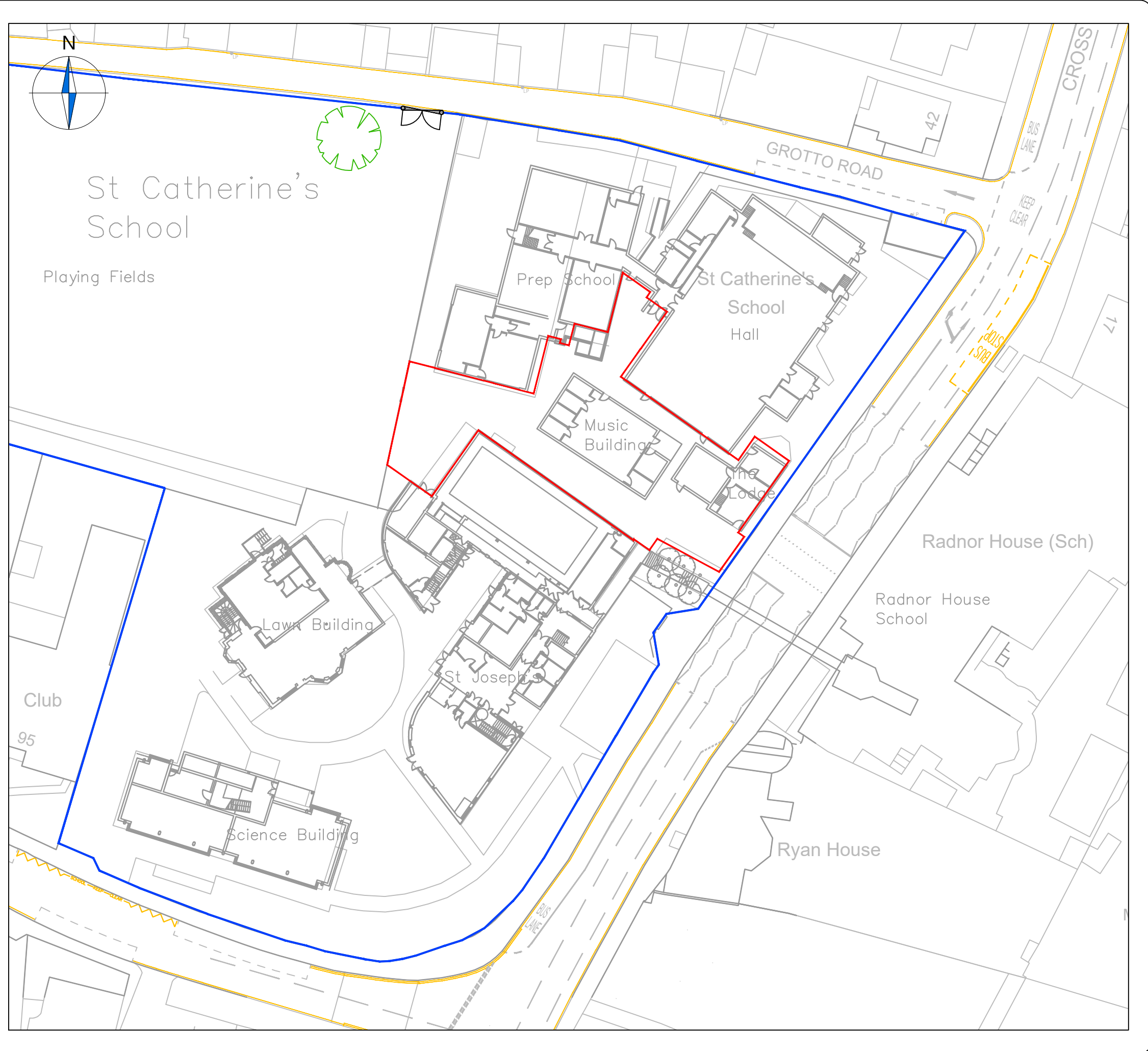


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| Scheme Ref: | Drawing No: | Sheet: | Rev: |
|-------------|-------------|--------|------|
| CA4952 | 6 | 1 | . |





APPENDIX B



NOTES

1. This drawing to be read & printed in colour.
2. This drawing is for illustrative purposes only.

KEY:

| | |
|---|------------------------|
|  | OWNERSHIP BOUNDARY |
|  | APPLICATION BOUNDARY |
|  | EXISTING GATE |
|  | EXISTING TREE LOCATION |

| | | | | |
|-----|---------------------------------|-------|---------|------------|
| D | Layout updated | JS | SW | 12.09.2024 |
| C | Existing Lighting Columns Added | JS | SW | 04.09.2024 |
| B | Tree Location Updated | RLM | SW | 26.02.2024 |
| Rev | Details | Drawn | Checked | Date |

REVISION HISTORY

Status: Preliminary For Approval For Construction
 For Information For Tender As Built

Client:
St Catherine's School

Project:
St Catherine's School, Twickenham

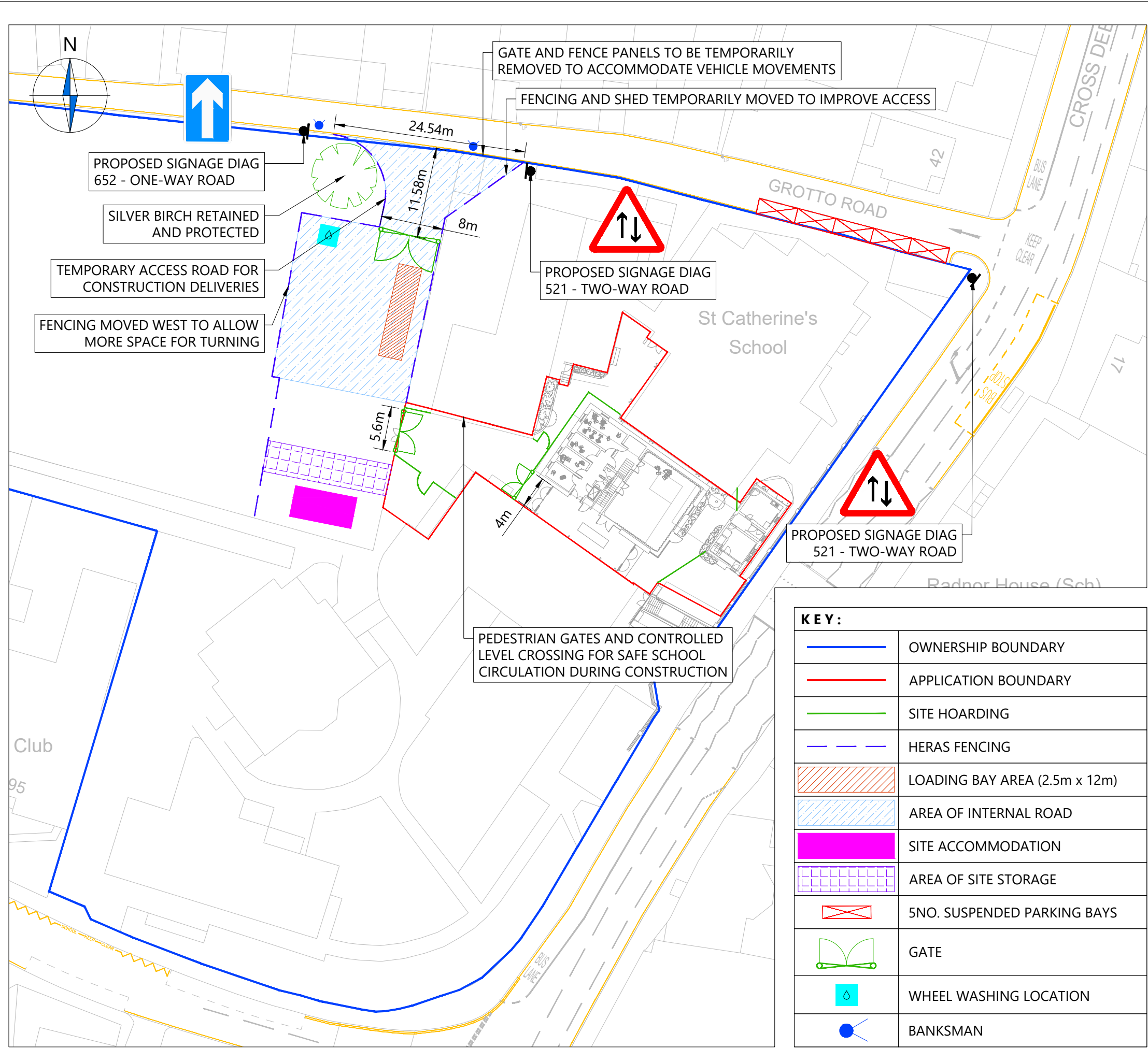
Drawing Title:
Existing Highway Arrangement

Scale: **1:500** Size: **A3**

Drawn by: **COS** Checked by: **SW** Date: **23.08.2022**

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Scheme Ref: **4952** Drawing No: **001** Sheet: **1 of 1** Rev: **D**



NOTES

1. This drawing to be read & printed in colour.
2. This drawing is for illustrative purposes only.

| | | | | |
|-----|-------------------------------------|-------|---------|----------|
| J | Updated based on Client's comments. | JS | SW | 12.09.24 |
| I | Updated based on Client's comments. | JS | SW | 05.09.24 |
| H | Updated based on Client's comments. | RLM | SW | 04.03.24 |
| Rev | Details | Drawn | Checked | Date |

REVISION HISTORY

| | | | |
|---------|---|---------------------------------------|---|
| Status: | <input type="checkbox"/> Preliminary | <input type="checkbox"/> For Approval | <input type="checkbox"/> For Construction |
| | <input checked="" type="checkbox"/> For Information | <input type="checkbox"/> For Tender | <input type="checkbox"/> As Built |

Client:

St Catherine's School

Project:

St Catherine's School, Twickenham

Drawing Title:

Proposed Construction Arrangement A

Scale:

1:500

Size:

A3

Drawn by:

COS

Checked by:

SW

Date:

30.08.2022



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Scheme Ref:

4952

Drawing No:

002

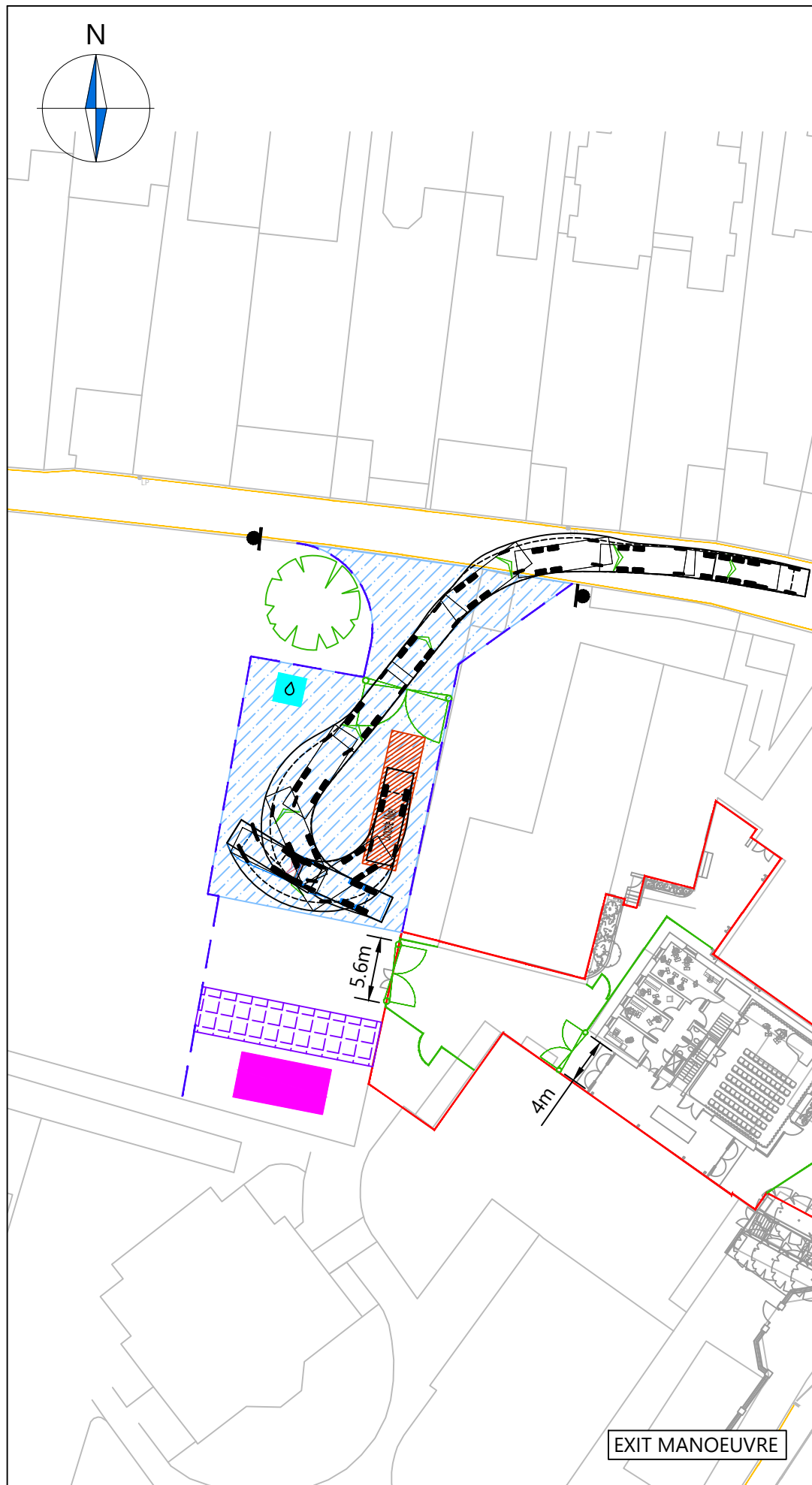
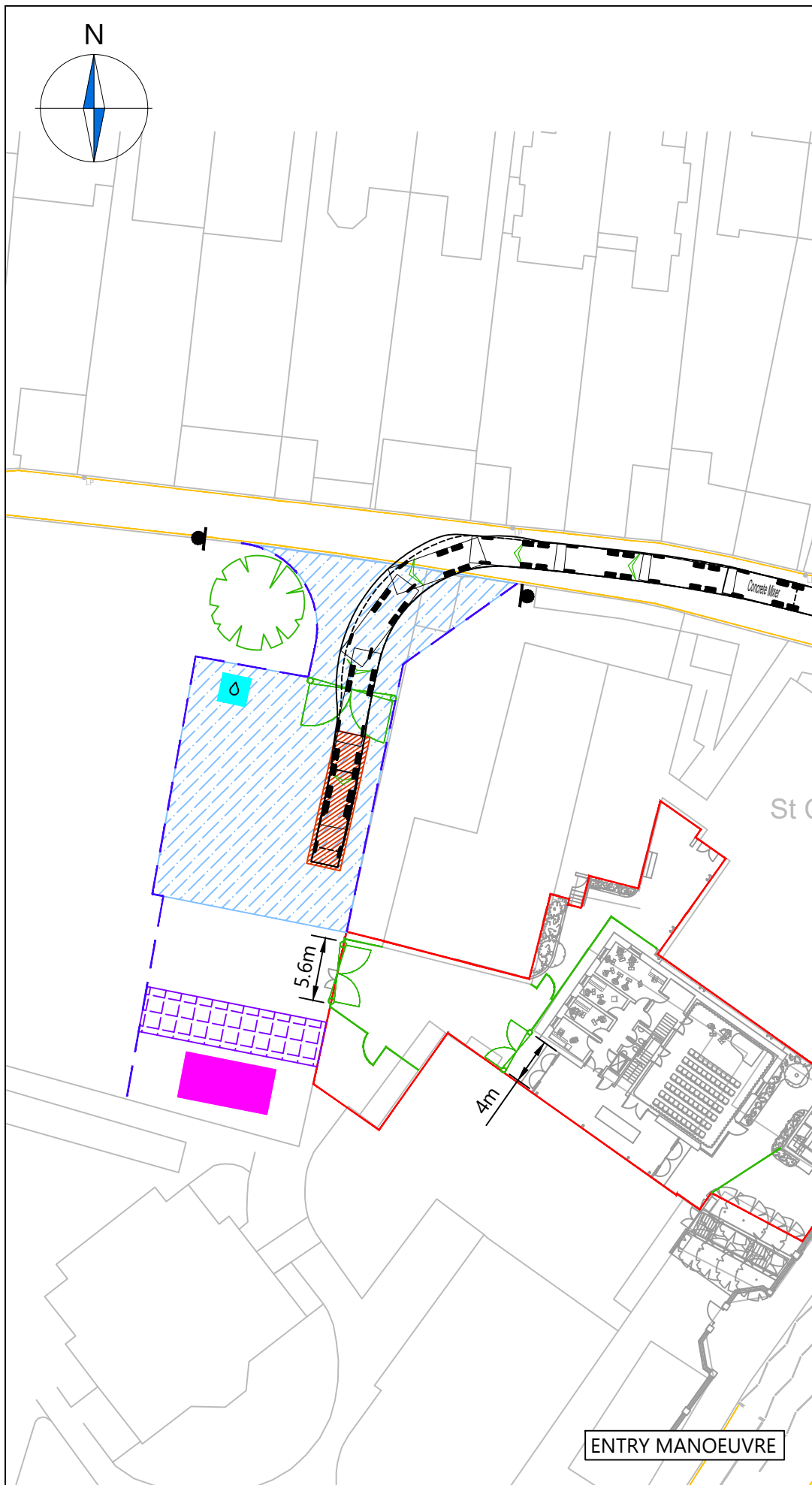
Sheet:

1 of 1

Rev:

J

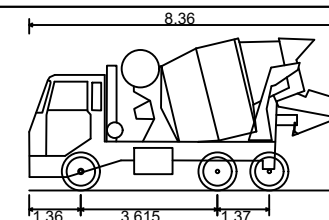
APPENDIX C



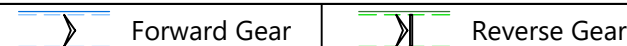
NOTES

1. This drawing to be read & printed in colour.
2. This drawing is for illustrative purposes only.
3. Stationary steering has not been used as part of the vehicle swept path analysis on this drawing.

CONCRETE MIXER



| | |
|-----------------------------|--------|
| Overall Length | 8.360m |
| Overall Width | 2.390m |
| Overall Body Height | 4.027m |
| Min Body Ground Clearance | 0.358m |
| Max Track Width | 2.413m |
| Lock to Lock Time | 6.00s |
| Kerb to Kerb Turning Radius | 8.210m |



| | | | | |
|---|-------------------------------------|-----|----|----------|
| J | Updated based on Client's comments. | JS | SW | 12.09.24 |
| I | Updated based on Client's comments. | JS | SW | 06.09.24 |
| H | Updated based on Client's comments. | RLM | SW | 04.03.24 |

REVISION HISTORY

| | | | |
|---------|---|---------------------------------------|---|
| Status: | <input type="checkbox"/> Preliminary | <input type="checkbox"/> For Approval | <input type="checkbox"/> For Construction |
| | <input checked="" type="checkbox"/> For Information | <input type="checkbox"/> For Tender | <input type="checkbox"/> As Built |

Client: _____

Project: **St Catherine's School**

Project: **St Catherine's School, Twickenham**

Drawing Title: _____

Vehicle Swept Path Analysis for a Concrete Mixer

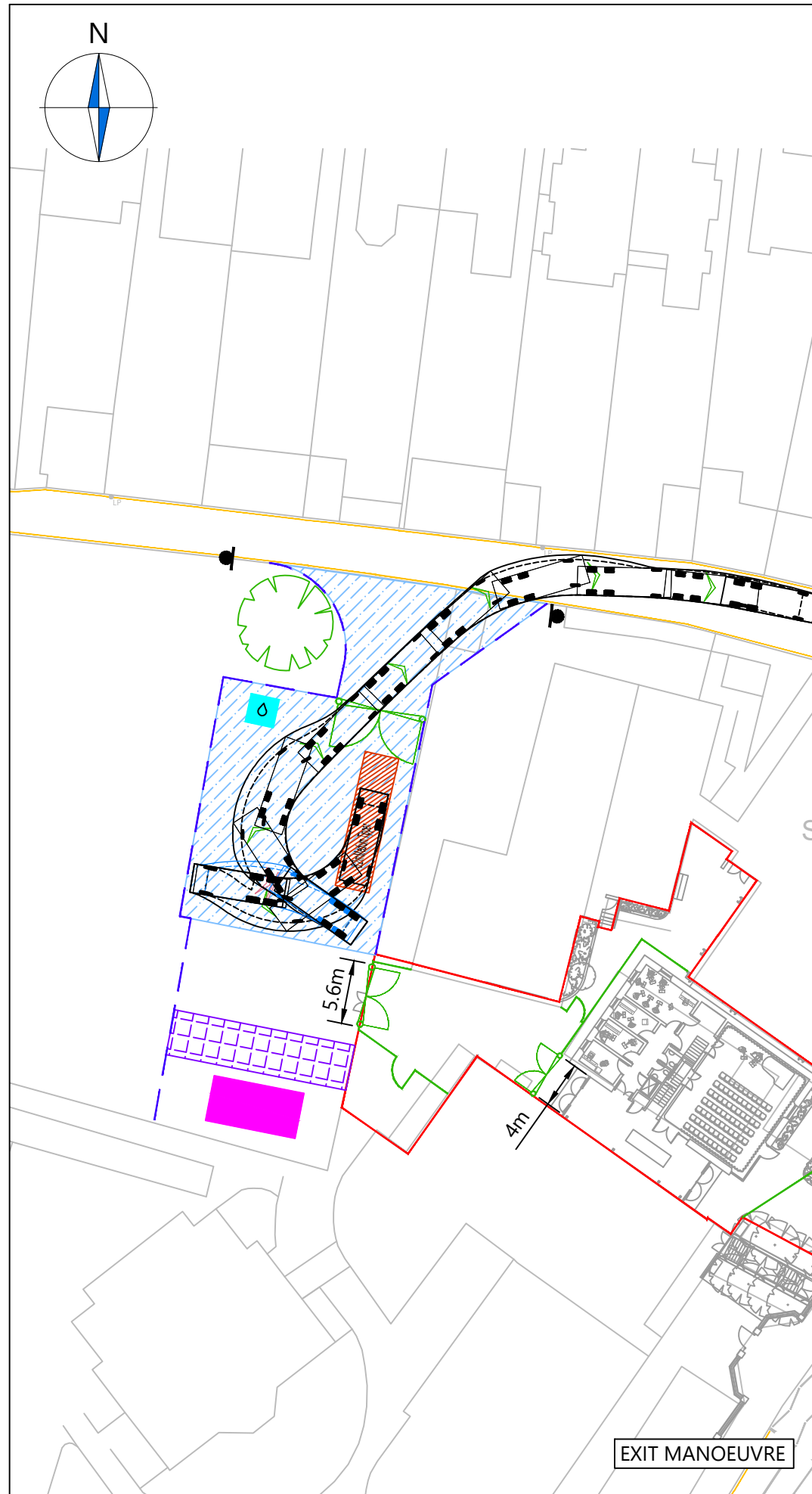
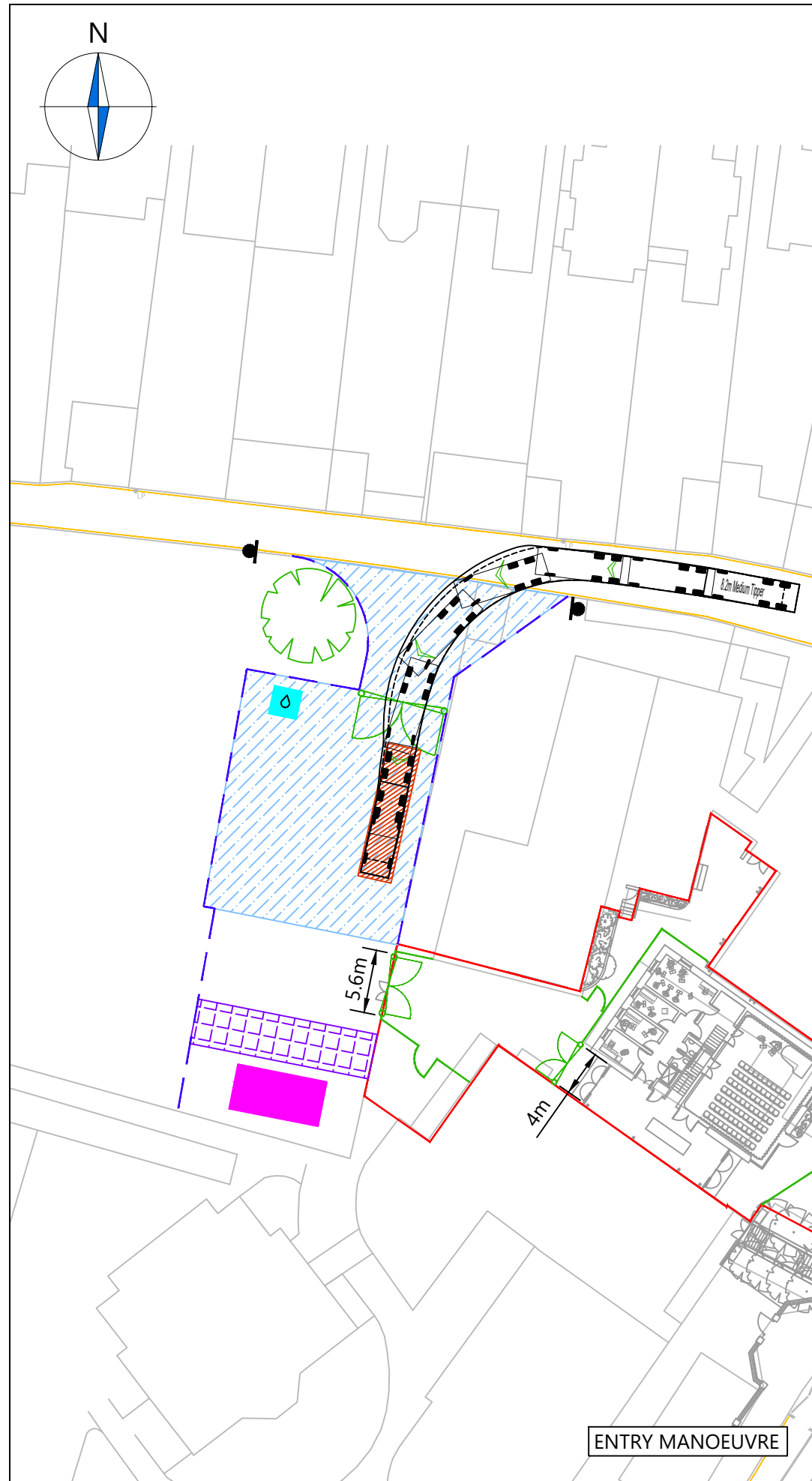
Scale: **1:500** Size: **A3**

Drawn by: **COS** Checked by: **SW** Date: **24.08.2022**



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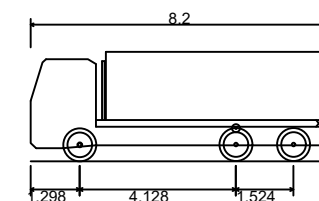
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|-------------|--------------|---------------|----------|
| Scheme Ref: | Drawing No: | Sheet : | Rev: |
| 4952 | TR001 | 1 of 3 | J |



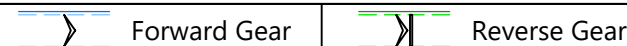
NOTES

1. This drawing to be read & printed in colour.
2. This drawing is for illustrative purposes only.
3. Stationary steering has not been used as part of the vehicle swept path analysis on this drawing.

MEDIUM TIPPER



| | |
|-----------------------------|--------|
| Overall Length | 8.200m |
| Overall Width | 2.500m |
| Overall Body Height | 2.894m |
| Min Body Ground Clearance | 0.344m |
| Max Track Width | 2.500m |
| Lock to Lock Time | 5.00s |
| Kerb to Kerb Turning Radius | 9.284m |



| | | | | |
|---|-------------------------------------|-----|----|----------|
| J | Updated based on Client's comments. | JS | SW | 12.09.24 |
| I | Updated based on Client's comments. | JS | SW | 06.09.24 |
| H | Updated based on Client's comments. | RLM | SW | 04.03.24 |

Rev Details **REVISION HISTORY** Drawn Checked Date

- Status:
- Preliminary
 - For Approval
 - For Construction
 - For Information
 - For Tender
 - As Built

Client:

St Catherine's School

Project:

St Catherine's School, Twickenham

Drawing Title:

Vehicle Swept Path Analysis for a Medium Tipper

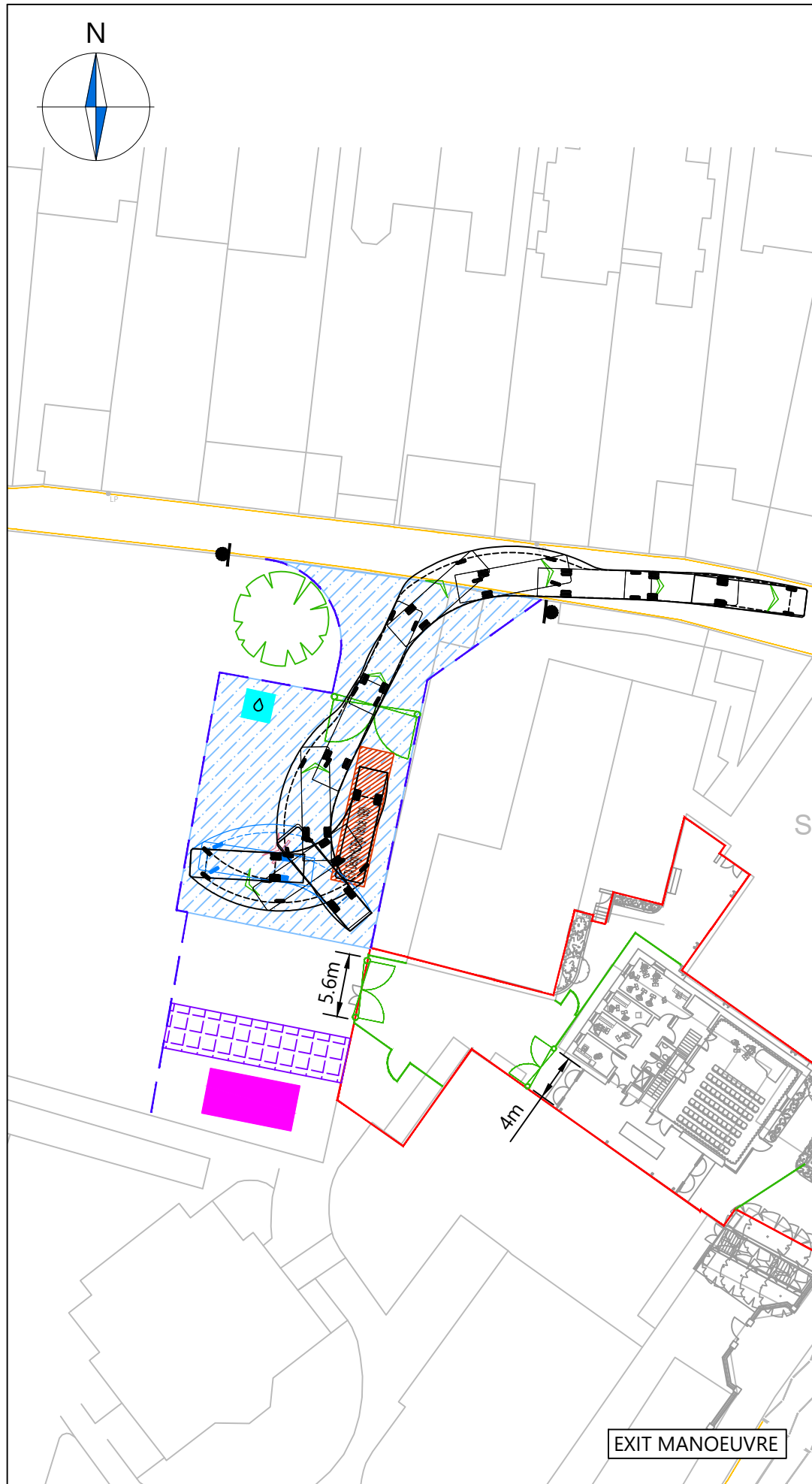
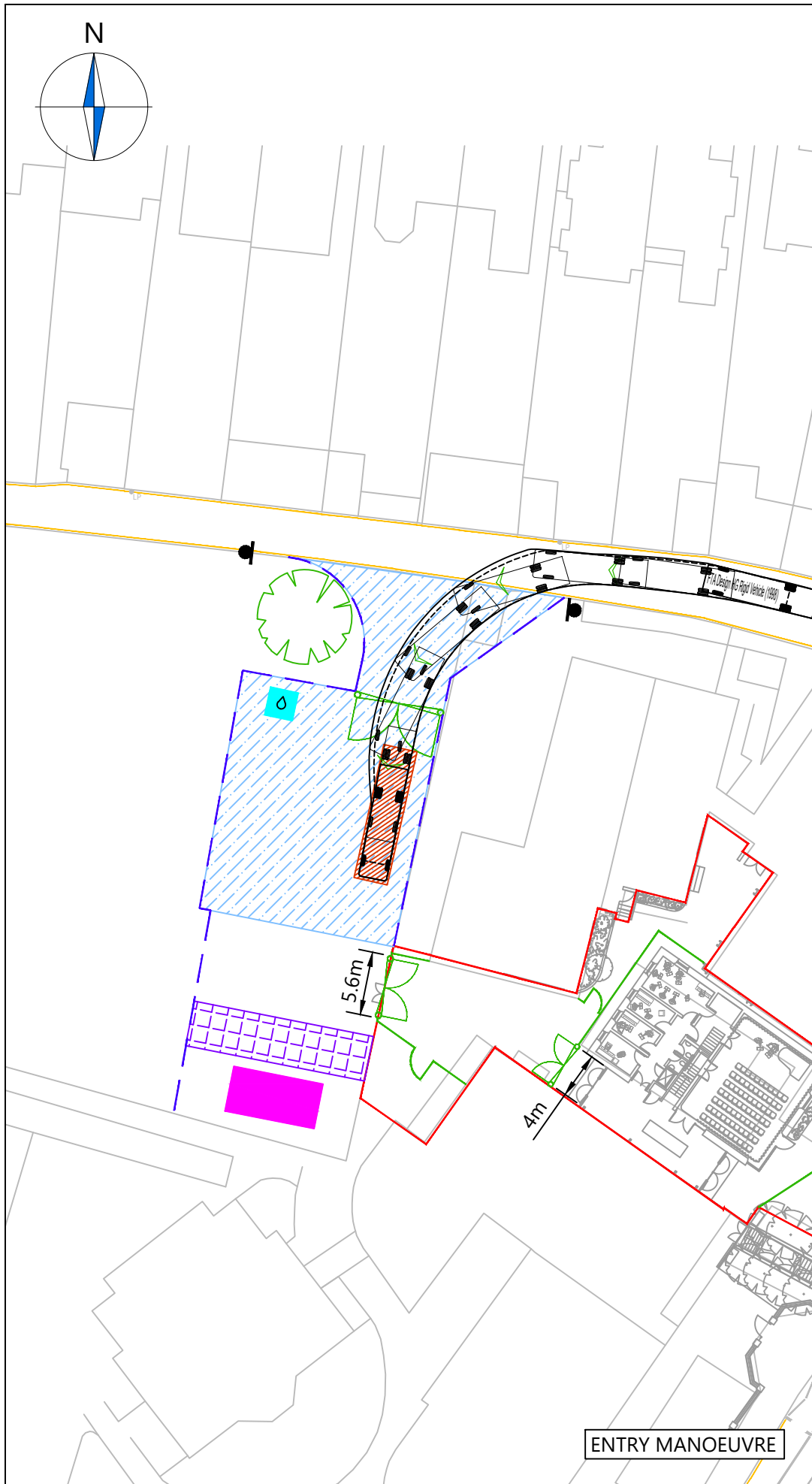
Scale: 1:500 Size: A3

Drawn by: COS Checked by: SW Date: 24.08.2022



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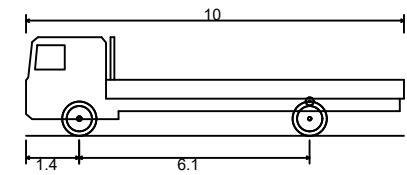
| | | | |
|----------------------------|-----------------------------|-------------------------|------------------|
| Scheme Ref: 4952 | Drawing No: TR001 | Sheet: 2 of 3 | Rev: J |
|----------------------------|-----------------------------|-------------------------|------------------|



NOTES

1. This drawing to be read & printed in colour.
2. This drawing is for illustrative purposes only.
3. Stationary steering has been used as part of the vehicle swept path analysis on this drawing.

RIGID FLATBED



| | |
|-----------------------------|---------|
| Overall Length | 10.000m |
| Overall Width | 2.500m |
| Overall Body Height | 2.602m |
| Min Body Ground Clearance | 0.440m |
| Track Width | 2.470m |
| Lock to Lock Time | 3.00s |
| Kerb to Kerb Turning Radius | 11.000m |



| | | | | |
|---|-------------------------------------|-----|----|----------|
| J | Updated based on Client's comments. | JS | SW | 12.09.24 |
| I | Updated based on Client's comments. | JS | SW | 06.09.24 |
| H | Updated based on Client's comments. | RLM | SW | 04.03.24 |

| Rev | Details | REVISION HISTORY | | |
|--|---------|------------------|---------|------|
| | | Drawn | Checked | Date |
| Status: <input type="checkbox"/> Preliminary <input type="checkbox"/> For Approval <input type="checkbox"/> For Construction | | | | |
| <input checked="" type="checkbox"/> For Information <input type="checkbox"/> For Tender <input type="checkbox"/> As Built | | | | |

Client: **St Catherine's School**

Project: **St Catherine's School, Twickenham**

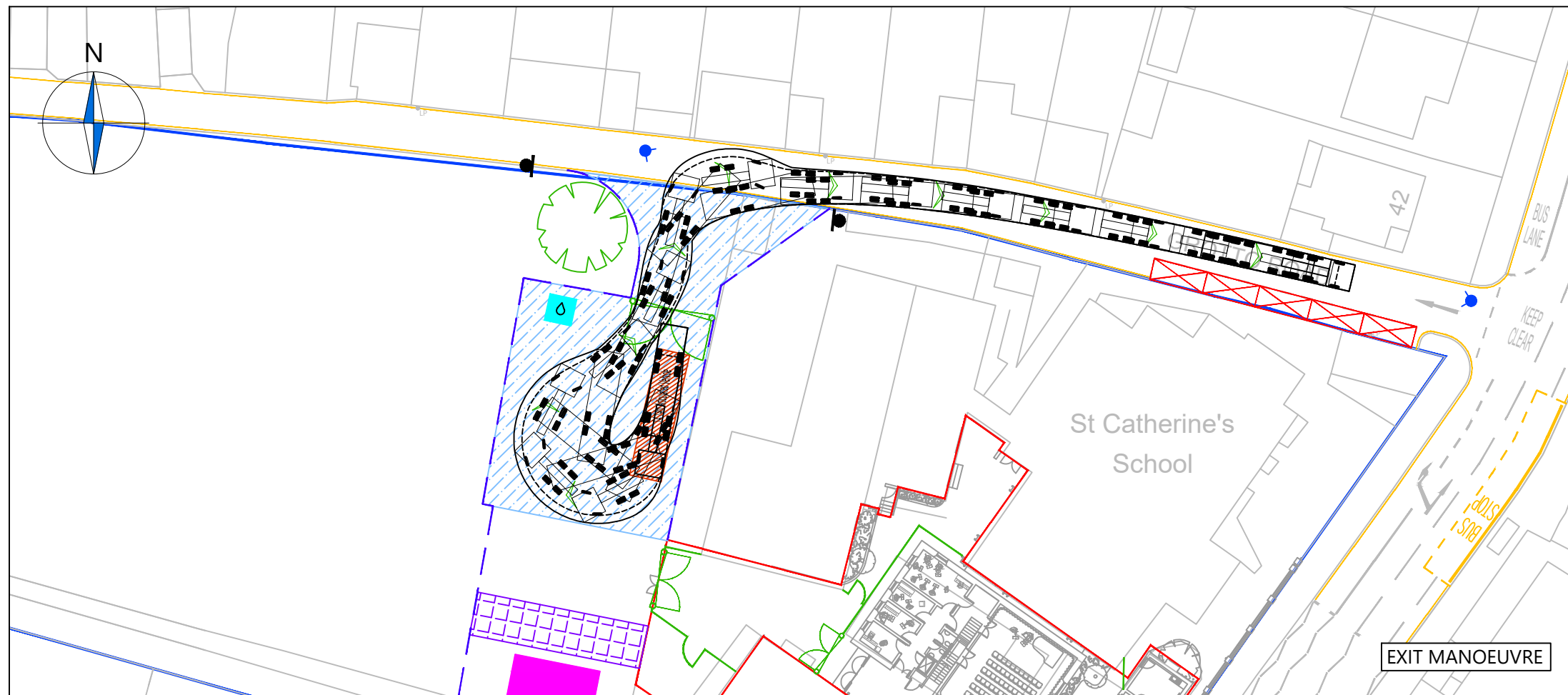
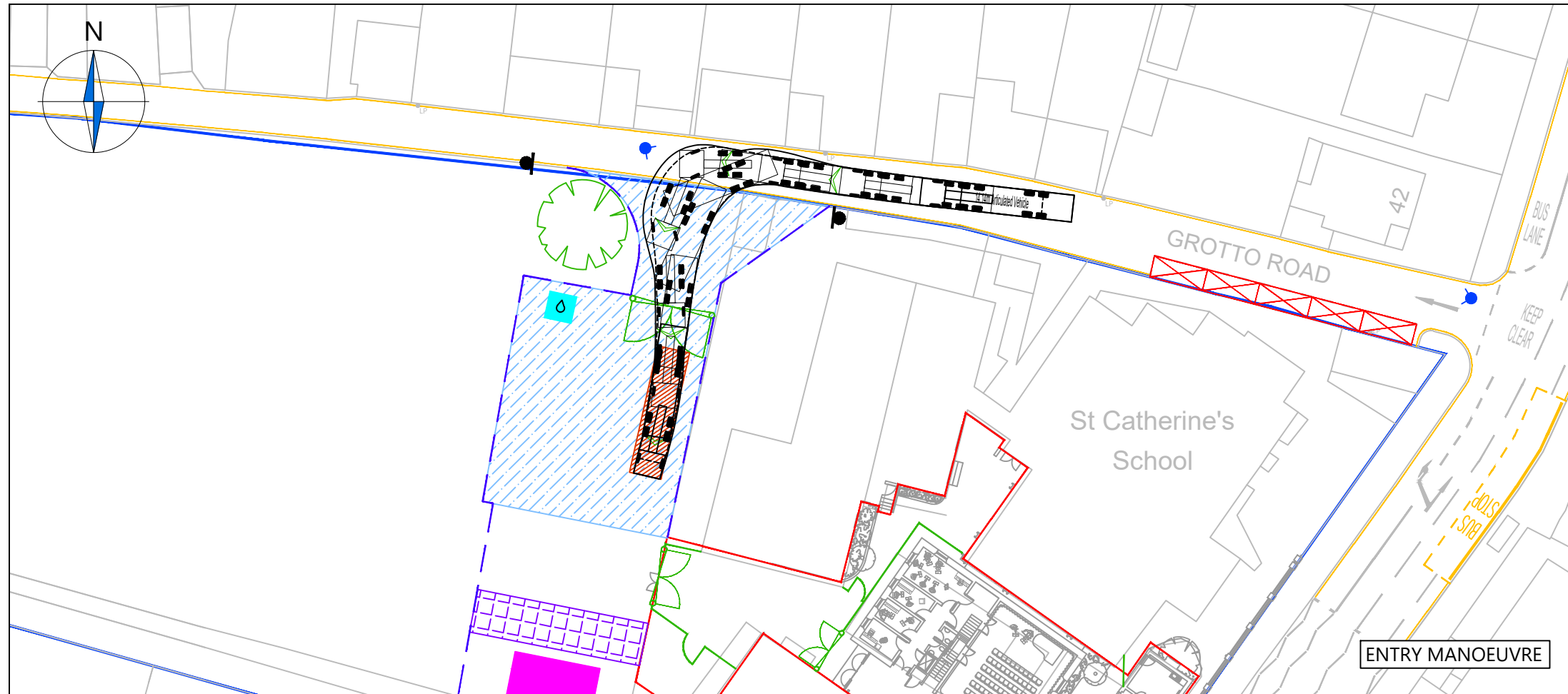
Drawing Title: **Vehicle Swept Path Analysis
Grotto Road Two-Way
Rigid Flatbed Lorry**

Scale: **1:500** Size: **A3**

Drawn by: **COS** Checked by: **SW** Date: **24.08.2022**

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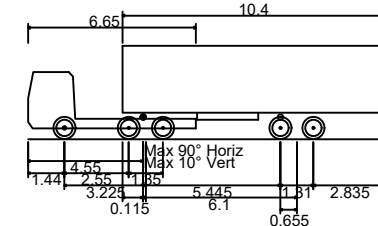
| | | | |
|----------------------------|-----------------------------|-------------------------|------------------|
| Scheme Ref: 4952 | Drawing No: TR001 | Sheet: 3 of 3 | Rev: J |
|----------------------------|-----------------------------|-------------------------|------------------|



NOTES

1. This drawing to be read & printed in colour.
2. This drawing is for illustrative purposes only.
3. Stationary steering has not been used as part of the vehicle swept path analysis on this drawing.

14.14m ARTICULATED VEHICLE



| | |
|-----------------------------|---------|
| Overall Length | 14.140m |
| Overall Width | 2.500m |
| Overall Body Height | 3.695m |
| Min Body Ground Clearance | 0.427m |
| Track Width | 2.500m |
| Lock to lock time | 6.00s |
| Kerb to Kerb Turning Radius | 7.052m |



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|---|-------------------------------------|-----|----|----------|
| J | Updated based on Client's comments. | JS | SW | 12.09.24 |
| I | Updated based on Client's comments. | JS | SW | 06.09.24 |
| H | Updated based on Client's comments. | RLM | SW | 04.03.24 |

REVISION HISTORY

| | | | | |
|--|---------|-------|---------|------|
| Rev | Details | Drawn | Checked | Date |
| Status: <input type="checkbox"/> Preliminary <input type="checkbox"/> For Approval <input type="checkbox"/> For Construction <input checked="" type="checkbox"/> For Information <input type="checkbox"/> For Tender <input type="checkbox"/> As Built | | | | |

Client:

St Catherine's School

Project:

St Catherine's School, Twickenham

Drawing Title:

Vehicle Swept Path Analysis
Grotto Road Two-Way
Articulated Vehicle

Scale: 1:500 Size: A3

Drawn by: COS Checked by: SW Date: 06.10.2022



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|-------------|-------------|---------|------|
| Scheme Ref: | Drawing No: | Sheet : | Rev: |
| 4952 | TR003 | 1 of 1 | J |