CFARCHITECTS P02-265_Maidstone Bus Station

Stage 3 Report



May 2020 Rev 00





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1.0 Introduction:

Maidstone Bus Station is located within a multi-use complex bounded by King St to the North, and Romney Place to the South. Access to Maidstone Mall is achieved via the West Concourse, and to Sainsbury's via the East Concourse. Maidstone High St is located to the West, through the Mall, or via King St. A car park is also accessible via Romney Place, the entrance of which is adjacent to the Bus Station, and the council offices have pedestrian access via King St.

As per our brief, the goal of the improvement works are:

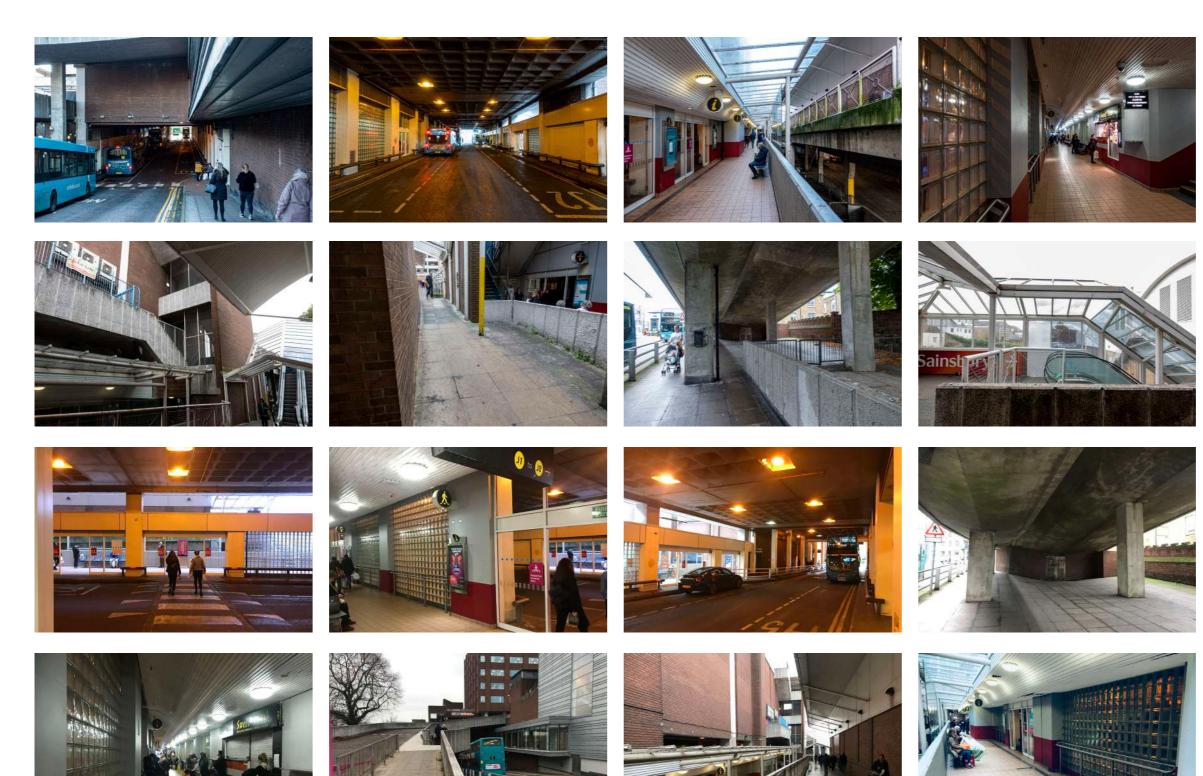
- To improve the safe and efficient movement of buses through the facility.
- To minimise conflicts between bus and pedestrian movements.
- To enhance the pedestrian and vehicular gateways to the facility in terms of accessibility, safety and aesthetics.
- To improve perceptions of user safety and security, e.g. by improving environmental quality, increasing the level of natural surveillance (especially in the evenings).
- To provide a more user friendly facility with readily available information about transport and Maidstone town centre, in both physical and electronic formats.
- To improve integration between the bus station, the Mall shopping area and Sainsbury's.
- To create an attractive facility for passengers to encourage public transport usage thereby increasing passenger numbers.
- To improve accessibility and to upgrade the facility to current DDA guidelines, BS 8300 and Part M of the building regulations where applicable.

1.1 Location





1.2 Site Photos











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2.0 Concept Design

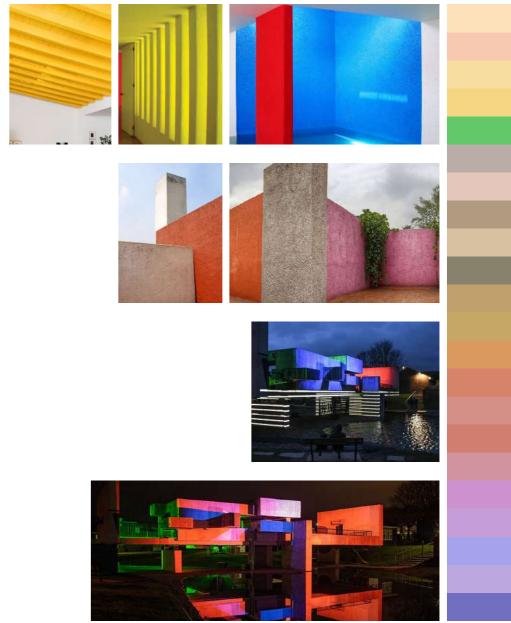
Two of the key design elements we tackled early on were the use of colour & light to aid in providing a more welcoming and interesting experience for the users of the bus station, in addition to improving the safety of all. To this end, we looked at existing usages of colour in architectural works, particularly the use of colour on brutalist concrete buildings. From this, we investigated the use of architectural lighting to emphasise the aesthetic elements of the bus station – such as the undulating concrete soffit above the roadway – whilst using colour to create portals along the length of the concourses to further denote the structural columns that line the roadway. These simple measures are designed to breathe a new life into the bus station, whilst emphasising the architectural qualities that were previously hidden. Existing pedestrian access arrangements from the Mall, Sainsbury's, King St. and Romney Place will remain unchanged; as will the existing vehicular access arrangements.

To achieve this aim, the existing luminaires and fixtures along the concourses would be removed, including the sodium lights above the roadway, and the surfaces would undergo a deep clean followed by repainting. The luminaires would be replaced with modern LEDs which have the benefit of being centrally controlled as well as using a much wider colour spectrum with lower energy usage. The concrete soffit would be illuminated via luminaires positioned along the columns. At their base, the columns themselves would be flanked with recessed floor lights to emphasise the changing colours along the length of the roadway.

Complementing this approach, thin new metal balustrades would be installed along the concourses, set back from the roadway, to provide pedestrians with physical safety whilst being visually subservient to the structural columns. These balustrades would be punctuated with metal framed portals, whilst the balustrades themselves would be high enough to discourage leaning or vaulting – again, emphasising safety of the pedestrians and bus operators by reducing the interaction between vehicles and pedestrians. The stripping back of the existing partition walls will also reveal previously restricted sight lines across the concourses, further improving safety as well as aiding in the creation of a visual link between the Mall side and Sainsbury's side of the bus station. The materiality of the concourses would be refreshed with a new timber soffit installed above, and new concrete tiles underfoot, which coupled with the cleaned and re-painted walls in addition to the new luminaires to the concourses, will provide a suitable contrast allowing for better navigation and appreciation of the space.

Further updates to visual navigation will come with new signage above both the North & South entrances, with the reapplication of bay markings on the road surface after cleaning. Along the concourses, there would be the addition of new cabinets for the placement of paper bus timetables along the concourses with cabling laid for future provision of digital information boards when appropriate.

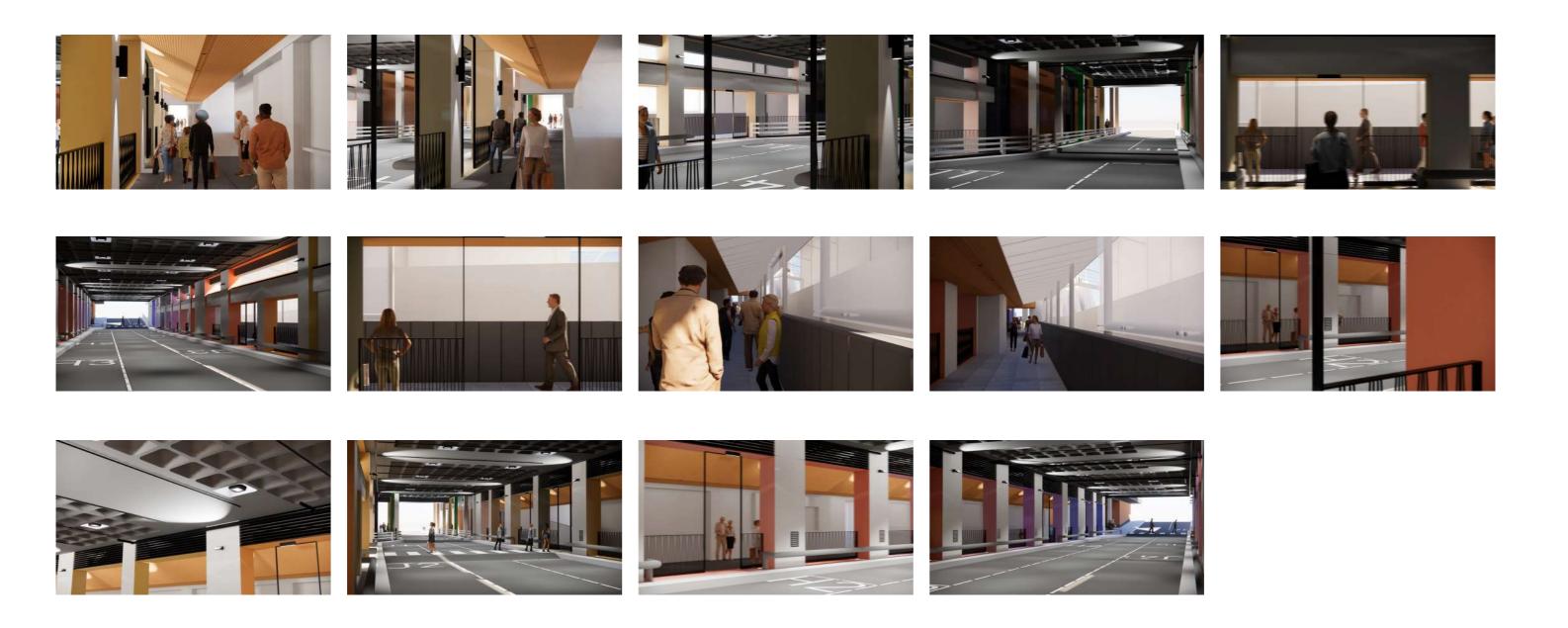
To sum: In order to achieve the goals set out in the brief, the design direction taken focuses on opening up the existing spaces, deep cleaning, usage of a considered colour palette, coupled with architectural lighting and the installation of new safety measures, to provide a safer, more aesthetic amenity within the town centre. This is in direct response to points 4.172, 4.55, 4.59, 4.60, 4.68 of the Maidstone Borough Local Plan 2017.





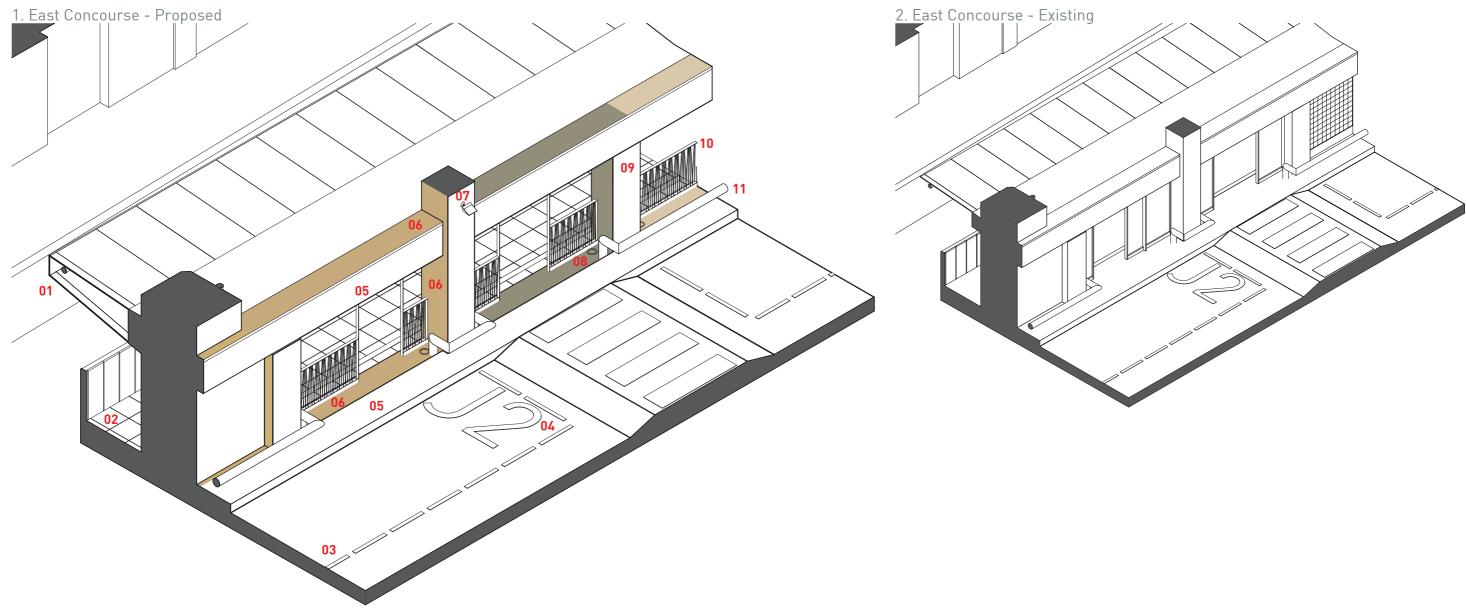


3.0 Proposal Walkthrough



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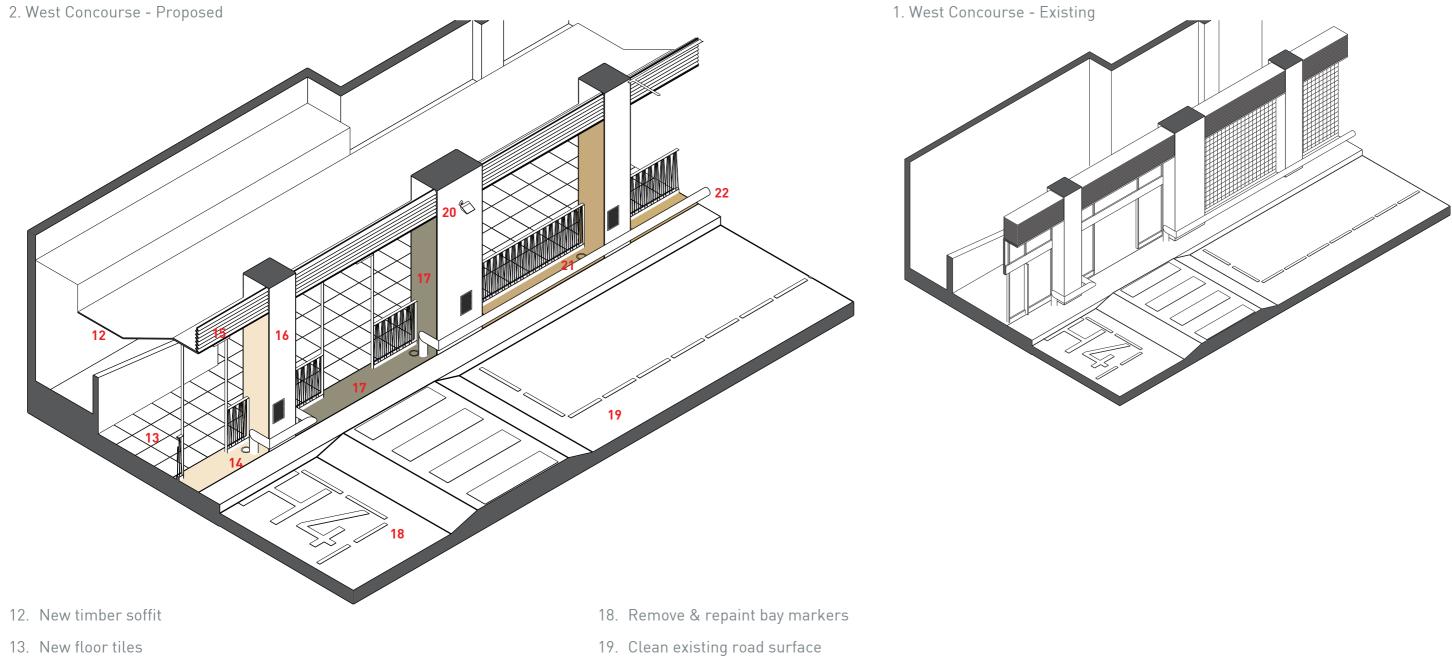
4.0 Isometric Diagrams



- 01. New polycarbonate canopy below glass canopy
- 02. New floor tiles
- 03. Clean existing road surface
- 04. Remove & repaint bay markers
- 05. Repaint existing cladding
- 06. New coloured portals

- 07. New soffit illumination
- 08. New column illumination
- 09. Clean & repaint road & concourse faces of columns
- 10. New metal balustrade with metal portal
- 11. Clean and repaint existing vehicle guardrails

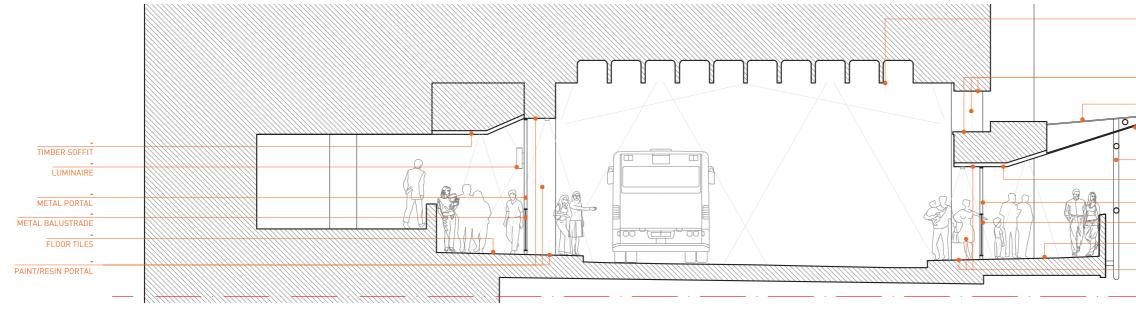
4.0 Isometric Diagrams



- 14. New metal balustrade with metal portal
- 15. Clean existing vents
- 16. Clean & repaint road & concourse faces of columns
- 17. New coloured portals

- 20. New soffit illumination
- 21. New column illumination
- 22. Clean and repaint existing vehicle guardrails

5.0 Typical Cross Section



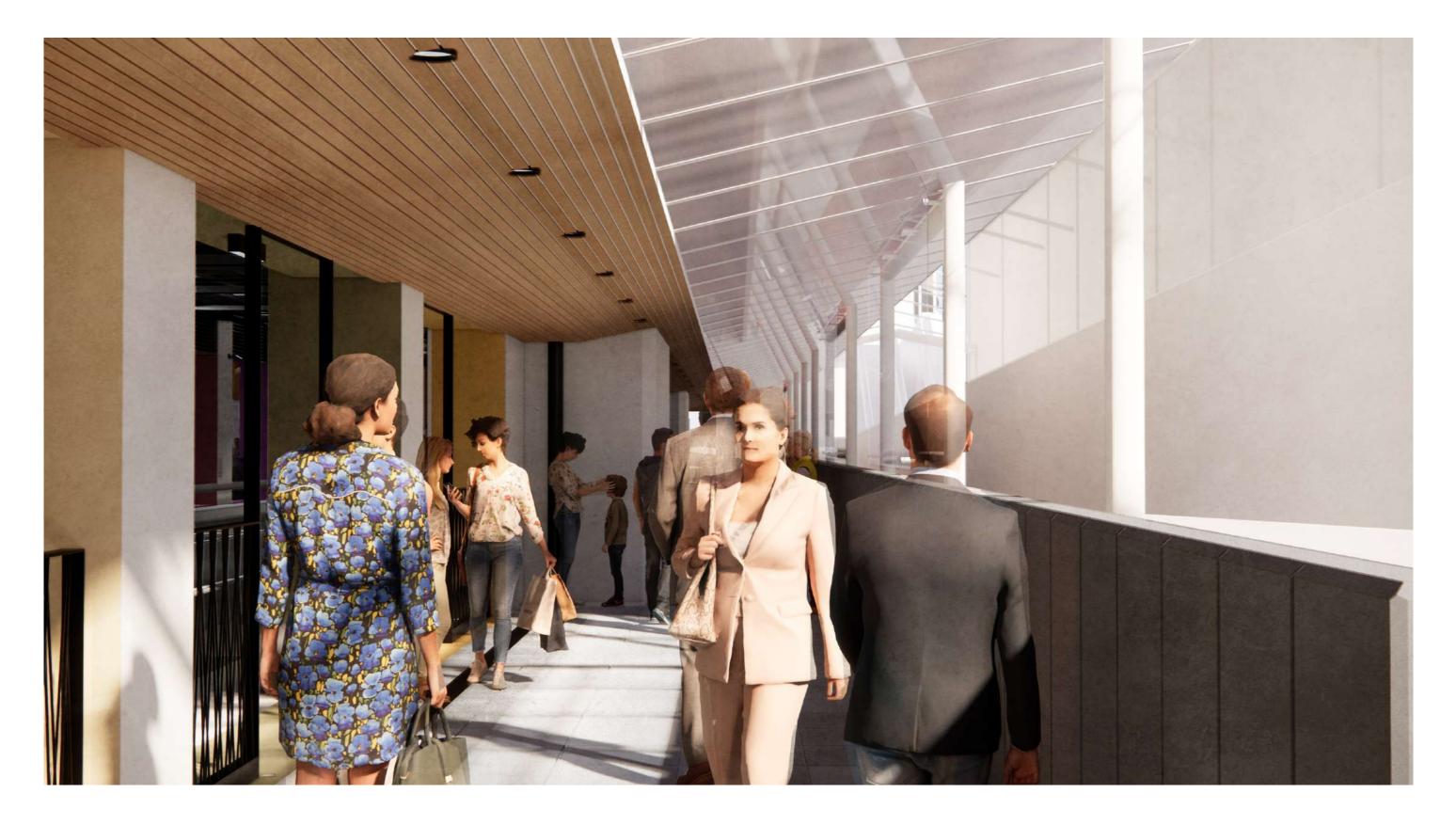
EXISTING CLEANED SOFFIT

-
PAINT/RESIN PORTAL
EXISTING
GLASS CANOPY
-
NEW POLYCARBONATE CANOPY BELOW EXISTING GLASS CANOPY
EXISTING
TO BE CLEANED AND REPAINTED
-
TIMBER SOFFIT
-
METAL PORTAL
-
METAL BALUSTRADE
-
FLOOR TILES
-
PAINT/RESIN PORTAL

1. Tunnel looking North



2. East Concourse looking North



3. West Concourse looking South



4. South Entrance



5. North Entrance



7.0 Planning Statement

A pre-application meeting was held on 28th April with Austin Mackie at Maidstone Borough Council Planning. Maidstone Borough Council Planning issued a letter confirming that no application is necessary. In light of this no planning application will need to be submitted. The letter is attached.

> Felix Lewis The Studio South Lodge Wierton Hill Boughton Monchelsea ME174JS

By Email Only

Dear Felix

PRE-APPLICATION ADVICE: RESPONSE Reference: 20/501485/PAMEE Proposal: Refurbishment Works Location: Bus Station Pads Hill Maidstone Kent ME15 6AT

Further to our 'meeting' of 28th April and my initial follow-up note, I have set out below our further thoughts on the matters discussed

15 May 2020

Summary

You presented a range of refurbishment works as summarised on the following schedules. In the main each of the individual elements are relatively minor, but come together to represent a significant enhancement scheme that will benefit users of the bus station

We support measures to improve the user experience, both from an internal environment / safety aspect, but also in the belief that this will encourage a greater level of use of the local bus network, promote more sustainable travel patterns and contribute to an enhancement in Maidstone's environment: which is a key component not only of planning policy, but also the Council's Strategic Plan. The works will also hopefully send a positive message regarding town centre investment.

As outlined below, we support the overall schedule of works and do not consider that any elements would be contrary to the objectives of the Local Plan. We have therefore focussed upon whether, either individually or as a whole, they require an application for planning ission and or advertisement consent

Whilst a degree of 'interpretation' is required, we consider that the operational works are either not development, or represent works that are 'permitted development' under the GPDO. We have also identified clauses under which the adverts would not require our formal permission.

MKPS – Working in Partnership with: Maidstone Borough Council Please Note: All planning related correspondence for MBC should be sent to: Mid Kent Planning Support, Maidstone House, King Street, Maidstone ME15 6JQ Email: planningsupport@midkent.gov.uk Access planning services online at: www.maidstone.gov.uk; or submit an application via www.planningportal.co.uk

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The Proposed Works

The proposed refurbishment works comprise a number of elements, as summarised on the attached Schedule 1 and centre upon:

- · refurbishment, repair and renewal of the structure's internal facades
- removal of some existing screens / barriers / doors and where relevant, replacement with new alternatives to enhancement pedestrian movement and concourse experience. • internal lighting,
- · new concourse floor and road markings,
- internal painting.
- new street furniture.
- new internal and entrance signage.

Assessment

For the purposes of this assessment, based upon the principles established by the Church Commissioners Metro Gateshead case, the bus station is of itself a functional planning unit, but in terms of operational development it is an integral part of a building that comprises the overall Mall complex, which includes, for example, elements such as the retail mall and car park.

During the meeting we explained that the definition of development set out in the Planning Act excludes works that

- solely affect the interior of the building (s55 2/i of the Act)
- · do not materially affect its external appearance (s55 2/ii)

There is no set definition of what 'materially affects', but in this context I am of the view that we can adopt a pragmatic view based upon (i) the scale and complexity of the overall Mall complex, ie, it is a substantial structure and that in order for works to comprise material changes, they would need to would need to be significant in some relevant way; and (ii) in the context of the works proposed, the bus station is not a sensitive site in terms of relationship to say public viewpoints or the setting of any heritage assets.

I also explained that even where certain works may constitute development, there are widespread 'permitted development' rights for, for example, many relatively minor works, works by/or on behalf of statutory undertakers, local authority undertakings etc.

In terms of advertisements, some are identified as not being subject to either the 'deemed' or 'express' consent processes, whilst others benefit from deemed consent (ie, formal nission of the Council is not required) if they meet certain size limitations, functions or due to their location

I attach at Schedule 1 a table summarising my interpretation of the schedule of works against:

· the statutory definition of development,

- · permitted development rights
- the Advertisement Regulations.

As I mentioned at the start, a degree of interpretation is required when assessing works, so to assist in understanding my interpretation, I attach at Schedule 2 a summary of some of the guiding legislation / tests that I have considered. This may also serve as checklist should you vary the scope of works in any way, so I have included, for example, the guidance on features such as CCTV installtion

You will see that I suggest that the various elements of the project that comprise the overall schedule of operational works do not require the formal permission of the Council, on the basis that they are either (i) not development or (ii) are permitted development. Similarly, I identify the scope whereby the advertisements may also not require our express consent.

I have also considered whether, when delivered as a single project, these individual works would cumulatively comprise a more significant project for which permission would be required. However, having regard to the relevant considerations such as impact upon external appearance, location of works etc, I do not consider that this would be the case and so our view on the whole is the same as for the component parts.

It may be helpful to share this opinion with the property team for The Mall to test whether they agree. If there were any uncertainty, then we can obviously discuss further, or at the very worst isolate any applications that are required to minor elements of the scheme

Conditions of Advice

planning application.

Any pre-application advice provided will be carefully considered in reaching a decision or recommendation on any subsequent application; subject to the proviso that circumstances and information may change or come to light that could alter that position. It should be noted that the weight given to pre-application advice notes may decline over time.

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We briefly discussed public artwork, but no specific details were included within the presentation. The question as to whether any public artwork requires permission is far from clear. If it is by its nature an advert or sign, then it could be subject to advertisement controls, or if it is a substantial installation in its own right, then it may constitute development and planning permission may be required.

Any advice given by Council Officers for pre-application enquiries does not indicate a formal decision by the Local Planning Authority. Any views or opinions are given in good faith, and to the best of ability, without prejudice to the formal consideration of any subsequent

7.0 Planning Statement

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The final decision on any subsequent application that you may make can only be taken after the Local Planning Authority has consulted local people, statutory consultees and any other interested parties.

I trust that this is of assistance in moving the project forward, but should you require any further clarity, please do not hesitate to contact us.

Yours sincerely

Austin Mackie Major Projects Team Leader

Schedule 1 Summary Assessment of Works

Proposed Works	Development ? (or Advert ?)	If Yes, Permitted Development ?	Comments
Columns and beams (repair and clean)	No - s55 2/i	-	Internal only – also repair/maintenance rather than new building works. Painting, even if visible from the entrances is not development.
Concourse floor, road surface and ped' crossings (cleaning and re-marking)	No	-	Not buildings works
Balustrades and new portals	No - s55 2/i	-	New balustrades internal only – removal of glass screens not demolition
Canopy, east concourse	No - s55 2/ii	-	Although visible form pedestrian vantage points (not public highway), within the context of the bus station alone (or even the Mall complex as a whole) do not consider that the upgrading or replacement of the canopy facing Sainsbury would materially affect the appearance of the building (as a whole) so long as broadly similar materials and scale are employed.
Street furniture	No - s55 2/i	-	Internal only
Bay markers	No	-	Not buildings works
Architectural lighting	No - s55 2/i	-	Internal only
Duct	No - s55 2/i	-	Internal only

Proposed Works	Development ? (or Advert ?)	If Yes, Permitted Development ?	Comments
North Entrance New Signage and Cladding	Νο	Sch 1 Class I of the Advert Regs Allow adverts <u>in</u> bus stations and	The new sign on the north entrance is not readi visible as it lies under the overhang and therefo does not require deemed consent to be confirmed.
South Entrance New Signage and Cladding		forecourts, but only where they are not readily visible from outside. Class 1B	The south entrance is visible. Class 1A of Schedule 3 allows signs in relation to public transport undertakings, but only up to 1.55 sq.m However Class 1B allows signs by local authorities on land in their area. No limitations cited, ie, the LA does not need to own the land. the southerm entrance sign is being placed by o on behalf of MBC, then this would appear to permit.
Internal Signage	(No)	Sch 1 Class I of the Advert Regs	Consent not required if the advertisement is not (directly or internally illuminated) and is not with metre of any external door, window or other opening, through which it is visible from outside the building. However, if these conditions are not met, the advert may be deemed to be consented under Schedule 3, Part 1 Class C of the advert regs (s Schedule 2)
East and west concourse soffit	No - s55 2/i	-	Internal only Aarguably repair/maintenance/renewal rather th new building works ?
Doors removal to west concourse	No		Neither new building works nor demolition
Impact barriers (cleaned, painted re- clad)	No - s55 2/i	-	Internal only – arguably also repair / maintenan / renewal rather than new building works

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7.0 Planning Statement

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Schedule 2 Extracts From Relevant Guidance

S55 Definition of Development

Meaning of "development" and "new development". "development," means the carrying out of building, engineering, ... operations in, on, over or under land. " building operations " includes-(a)demolition of buildings; (b)rebuilding; (c)structural alterations of or additions to buildings; and (d)other operations normally undertaken by a person carrying on business as a builder.

(2) The following operations do not involve development of the land- (i) affect only the maintenance, improvement or other alteration of any building of works which—
 (i) affect only the interior of the building, or (ii)do not materially affect the external appearance of the building,

The Town and Country Planning (General Permitted Development) (England) Order 2015 SCHEDULE 2 - Permitted development rights

Class C - exterior painting Permitted development

C. The painting of the exterior of any building or work.

Development not permitted C.1 Development is not permitted by Class C if the painting is for the purpose of advertisement, announcem or direction. (however, see separate scope under advert regs)

Class F - closed circuit television cameras (not relevant to internal cameras)

Permitted development F. The installation, alteration or replacement on a building of a closed circuit television camera to be used for security purposes.

Development not permitted

F.1 Development is not permitted by Class F if-

- (a)the building is a listed building or a scheduled monument:

(b)the dimensions of the camera including its housing exceed 0.75 by 0.25 by 0.25 metres; (c)any part of the camera would, when installed, altered or replaced, be less than 2.5 metres above ground level; (d)any part of the camera would, when installed, altered or replaced, protrude from the surface of the building by

more than 1 metre when measured from the surface of the building; (e) any part of the camera would, when installed, altered or replaced, be in contact with the surface of the building

at a point which is more than 1 metre from any other point of contact; (f)any part of the camera would be less than 10 metres from any part of another camera installed on a building; (g) the development would result in the presence of more than 4 cameras on the same side of the building; or

(h)the development would result in the presence of more than 16 cameras on the building.

Conditions

F.2 Development is permitted by Class F subject to the following conditions-

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(b)the camera is removed as soon as reasonably practicable after it is no longer required for security purposes. PART 12 Development by local authorities

Class A Permitted development A. The erection or construction and the maintenance, improvement or other alteration by a local authority of:-- A. The electron of construction is the maintenance, improvement of output attention by a docua automy of ...
 (a) any small ancillary building, works or equipment on land belonging to or maintained by them required for the purposes of any function exercised by them on that land otherwise than as statutory undertakers;
 (b) lamp standards, information klosks, passenger shelters, public shelters and seats, telephone boxes, fire alarms, public drinking fourtains, horse troughs, relues bins or baskets, barries for the control of people waiting to enter public service vehicles, electric vehicle charging points and any associated infrastructure, and similar structures or works required in connection with the operation of any public service administered by them.

(a)the camera is, so far as practicable, sited so as to minimise its effect on the external appearance of the building on which it is situated; and

Interpretation of Class A The reference in Class A is to any ancillary building, works or equipment not exceeding 4 metres in height or 200 cubic metres in capacity.

Advertisments

Definition

"any word, letter, model, sign, placard, board, notice, awning, blind, device or representation, whether illuminated or not, in the nature of, and employed wholly or partly for the purposes of, advertisement, announcement or direction"

Three broad categories:

- A. Those permitted without requiring either deemed or express consent from the local planning authority;
 B. Those which have deemed consent;
 C. Those which require the express consent of the local planning authority.

Α. Those permitted without requiring either deemed or express consent from the local planning authority (Schedule 1)

Class A - an advert displayed on enclosed land where the advertisement is not readily visible from outside the enclosed land or from any place to which the public have a right of access. For the purposes of Class A, "enclosed land" includes (a) any railway station (and its yards) or bus station, together with its forecourt, whether enclosed or not:

Class G - traffic signs

Class I - An advertisement displayed inside a building. 1. The advertisement may not be illuminated. 2. No part of the advertisement may be within1 metre of any external door, window or other opening, through which it is visible from outside the building.

B. Those which have deemed consent (schedule 3 part 1)

Class 1 Functional advertisements of government departments and their agencies, local authorities, public transport undertakers

(b) cannot be displayed by virtue of any other specified class. (2) No advertisement may exceed 1.55 square metres in area.

advertisement falling within Class I in Schedule 1.

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1A. An advertisement displayed wholly for the purpose of announcement or direction in relation to any of the functions of a local authority or a public transport undertaking, which—

(a) is reasonably required to be displayed for the safe or efficient performance of those functions, or

(1) Illumination is not permitted unless reasonably required for the purpose of the advertisement.

1B. An advertisement displayed by a local planning authority on land in its area

Class 12 Advertisements inside buildings - An advertisement displayed inside a building, other than an

8.0 Stakeholder Consultation

Stakeholder	Reason for engagement	Contact	Comments
KCC Highways Team	Road Safety	Jennie Watson	- Run improvements pa - Questioned location of around boarding points - Could not comment or - KCC comments are in off' - Will need a separate F
KCC Transport Team	Road Safety	Brendon Wright	 The improvements are on Would want to check the clarity Questions if one of the stop
Police	Secure by Design	Adrian Fromm	Comments received 15
MBC Access Officer	Inclusive Access	-	CF.A to prepare an acc
Arriva Nu-Venture	Road Safety Road Safety	Nick Elsdon Norman Kemp	Stage 2 report issued 0 - Welcomes proposals - Suggests that right con the safety of the propos - Points out that with ref have a single lane of tra
Hams Travel	Road Safety	Gavin Crowhurst	Stage 2 report issued 0
Autocar	Road Safety	Julian Brown	Stage 2 report issued 0

Conclusions:

The re-organisation of the bus bays is outside of scope for this project

The creation of a one-way bus system is outside of scope for this project

Appoint a suitable transport consultant to undertake a road safety audit and to assess the implications of the design proposals

past the operators of balustrades to stop people peering s

on relationships with the highway informal and do not form part of a 'sign

Road Safety Audit

re 'light touch' so very little to comment

the entrance signage specification for

ne layover bays can be used as a bus

5.04.20

cessibility statement

02.04.20. No comments returned.

onsultants are appointed to confirm osals

efurbishments, the bus station will still raffic with associated safety concerns.

05.04.20. No comments returned. 05.04.20. No comments returned.

9.0 Accessibility Statement

Project:	Maidstone Bus Station Improvements	Revision:	
Job No:	P02.265	Prepared / Checked by:	
Under the 2015 C	DM regulations the following roles and responsibili	ties will apply:	
PD	Principal Designer	Playle and Partners LLP	-
PC	Principal Contractor	-	-
C	Client	Maidstone Borough Council	John Foster
Δ	Architect	CF. Architects	Felix Lewis
SE	Structural Engineer		
	Lighting Designer	Integrated Light	Chris Beasley
ME	M&E Engineer	-	-
BC	Building Control	Maidstone Building Control	-
Number	Area of Works	Alterations & Improvements	Access Specific Improvements
Site Risks	I		
1	Columns	Clean column and strip back to bare	No access implications
	oold mino	concrete.	
2	Beams	Beams to be stripped back to bare and	No access implications
		cleaned. Metal cladding removed.	
3	Concourse Floors	A refurbished floor will be durable, more) Greater slip resistance
-		aesthetically pleasing and safer with better) Greater colour contrast with pavement edge
		visual contract and slip resistance.	Removal of broken tiles to remove trip hazards
			 Floor planes and falls will remain unchanged
4	Road Surface	To be cleaned.	No specific access implications, but will improve visual contrast which help the bus drivers
5	De de striege One sein ne	To be cleaned and to marked notantial	 Remarked crossings will give greater colour contrast to aid users w
5	Pedestrian Crossings	To be cleaned and re marked - potential for artwork to illustrate crossing.	visual impairments
6	Balustrades & Portals	Remove existing glass walls between	 Greater visibility from concourses to road ways
•		concourse and road, and replace with metal	3) Balustrades brought in line with internal face of columns to ensure
		balustrade, and form portals for pedestrian	cannot lean out into roadway to see buses
		crossing and access to buses.	 Coloured portals create greater visual contrasts to aid users with v
			impairments
			Improved lighting will provide greater visual contrast
7	Canopy (East Concourse)	Remove existing canopy soffit and replace.	 New soffit will include improved lighting to ensure greater visibility to
/	Callopy (East Collcourse)	Clad the underside of the canopy with	users with visual impairments
		polycarbonate cladding.	
		polycarbonate cladding.	
8	Street Furniture	New street furniture.	 Appropriate seating will be included for building users to rest whilst
D		New Sueet furniture.	waiting for buses
9	Bay Markers	Repaint bus bays.	No specific access implications, but will improve visual contrast which
-	Day manoro	ropani bao bayo.	help the bus drivers
10	Architectural Lighting	New lighting to bus station.	1) New lighting will provide the appropriate level of lighting in line with
	5 5	5 5	requirements set out in BS:8300
			2) Better lighting will help users with visual impairments
11	Works to Duct	Mesh cladding to extract duct.	No access implications
12	Entrance (North)	New signage to the North entrance.	1) New signage will help new building users find the bus station
12		new signage to the North entrance.	
13	Entrance (South)	New signage to the South entrance.	1) New signage will help new building users find the bus station
14	New Signage	New bus bay signage with timetabling	 New signage will be incorporated to aid wayfinding to help users fin
		information.	correct bus bays
			Electrical and data truncking will be added for the potential incorport
			of future smart signage
			 Sign boards will be added with timetable information to help building users use the bus station
15	Soffit (West Concourse)	Timber soffit to West concourse.	 New soffit will include improved lighting to ensure greater visibility to
			users with visual impairments
16	Doors	Remove doors to West concourse.	1) Removal of doors will remove a potential barrier to the use of the bu
			station.
17	Impact Barriers	Repaint and clad impact barriers.	1) Repainted impact barriers will help bus drivers by improving visual contrast to aid visibility
40	General Notes:		1) Tootilo poving will be added at appropriate according point-
18	General Notes:		 Tactile paving will be added at appropriate crossing points The project scope does not include WC provision which are located
			 I ne project scope does not include WC provision which are located within the bus station
			3) Sliding and pivot doors have been removed to avoid chances of
			trapping or crushing digits and limbs
			 Changing ramps and steps are not included within the scope of this
			project
			project 5) Thresholds will be leveled and trip hazards will be removed to aid access generally

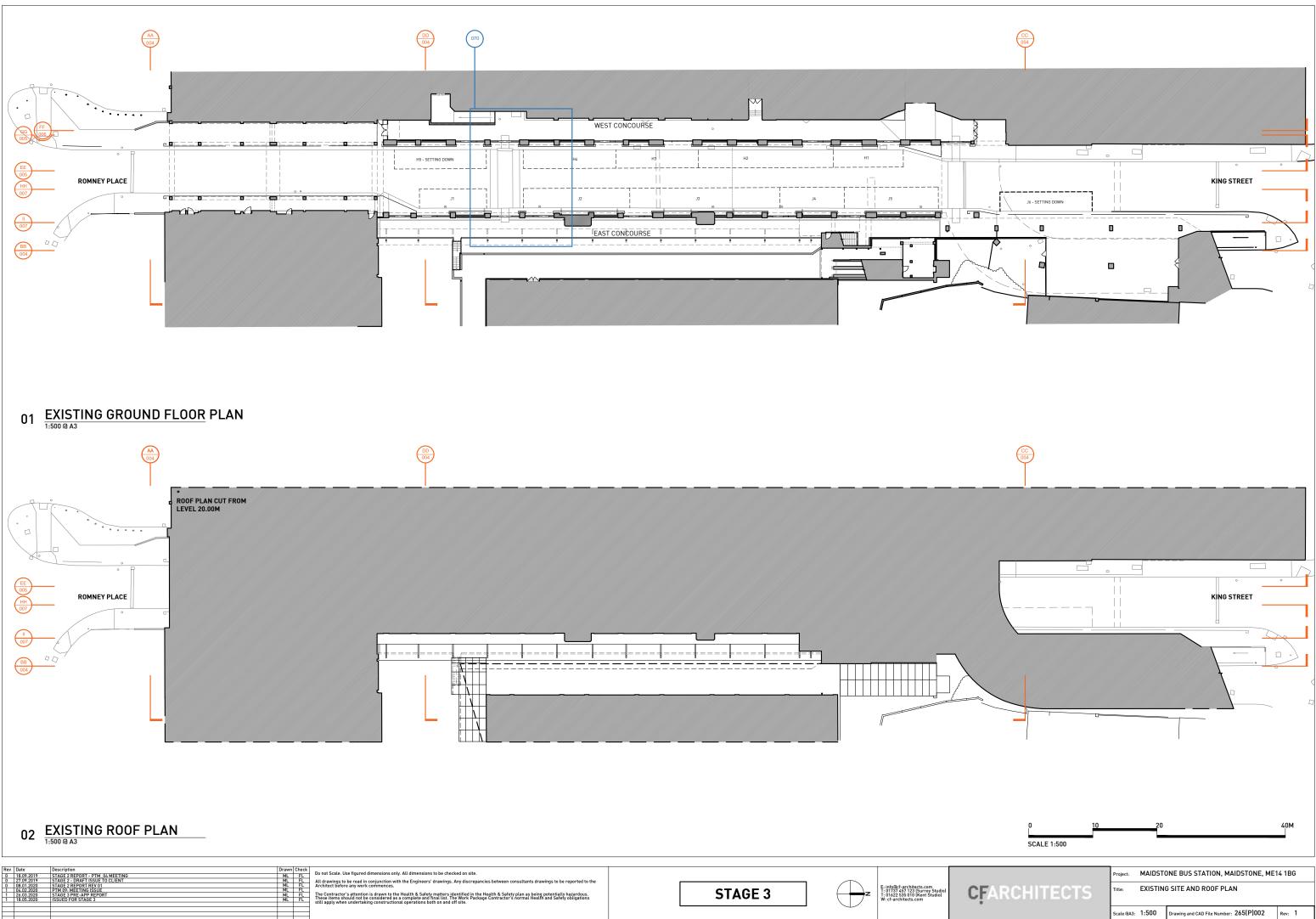
ue Date:	18/05/2020
Revision:	0
cked by:	FL

10.0 Designers Hazard Elimination Schedule

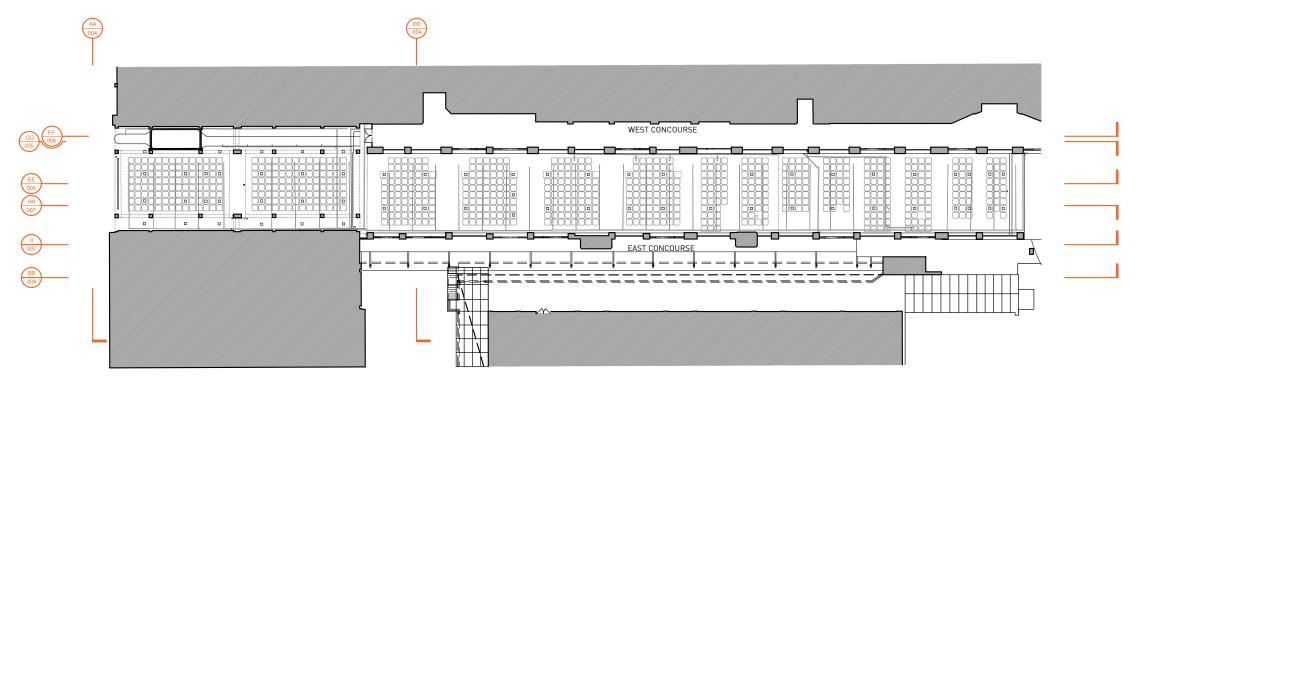
Control Contro Control Control <th< th=""><th></th><th></th><th></th><th></th><th></th><th>1</th><th></th></th<>						1	
Note Part 25 mm Number of the State of	Designe	rs Risk Assessment				Issue Date:	13/05/2020
Number of Section Sec	Project:		Maidstone Bus Station Improvements			Revision:	1
Project Network Project Ne	Job No:		P02.265			Prepared / Checked by:	FI
Project Network Project Ne							
Product Contract Product Contract<	Under the 2	015 CDM regulations the following roles a	and responsibilities will apply:				
Control Value Number of Automa in Protect in the Automa	PD	Principal Designer	Playle and Partners LLP	Nick Reeve]		
A. Balance of Alexand on State S	PC C		- Maidstone Borough Council	- John Foster			
United United baseling Ontotal process Process of a state state of a state of a state state of a state of a state	Α	Architect					
Bit Notice Centre Matching Centre Addition Building Centre Addition Secure Secu	LD	Lighting Designer	- Integrated Light	- Chris Beasley			
Parsent Base Enseminant Enseminant Parsent Ital	ME BC		- Maidstone Building Control	-			
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1	Revision:	
FL	Prepared / Checked by:	

11.0 Architectural Design Drawings

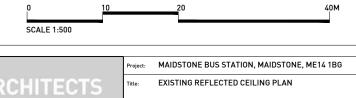


Drawing and CAD File Number: 265(P)002 Rev: 1 © CF.Architects Limited



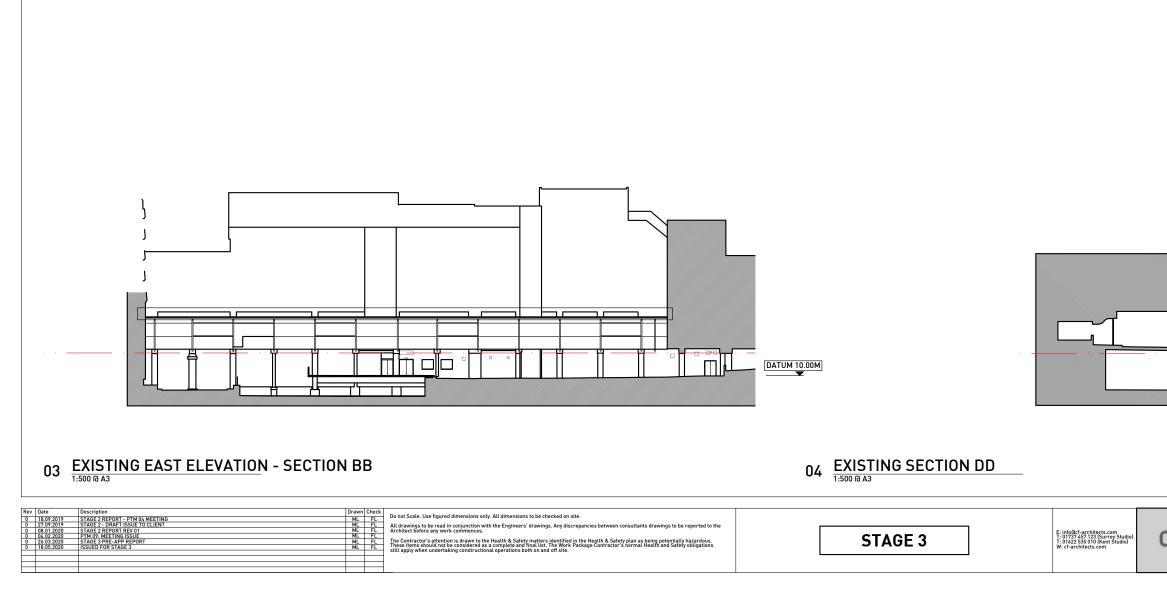
01 EXISTING REFLECTED CEILING PLAN

Rev Date	Description	Drawn Check	Do not Scale. Use figured dimensions only. All dimensions to be checked on site				
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0 27.09.2019	STAGE 2 - DRAFT ISSUE TO CLIENT	ML FL	All drawings to be read in conjunction with the Engineers' drawings. Any discrepancies between consultants drawings to be reported to the				
0 08.01.2020	STAGE 2 REPORT REV 01	ML FL	Architect before any work commences.			F: info@cf-architects.com	AF
0 03.02.2020	PTM 09: MEETING ISSUE	ML FL				T: 01737 457 123 (Surrey Studio)	
0 26.03.2020	STAGE 3 PRE-APP REPORT	ML FL	The Contractor's attention is drawn to the Health & Safety matters identified in the Health & Safety plan as being potentially hazardous.			T: 01622 535 010 (Kent Studio)	C F A
0 18.05.2020	ISSUED FOR STAGE 3	ML FL	These items should not be considered as a complete and final list. The Work Package Contractor's normal Health and Safety obligations still apply when undertaking constructional operations both on and off site.		JIAOLU	W: cf-architects.com	and the second second
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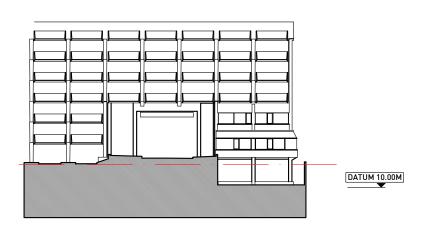


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01 EXISTING SOUTH ELEVATION - SECTION AA

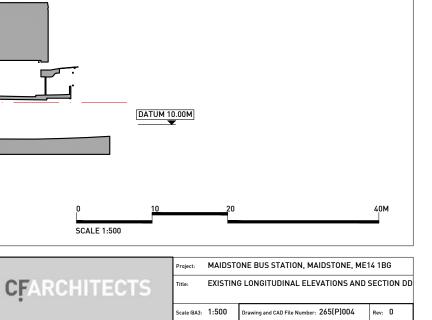


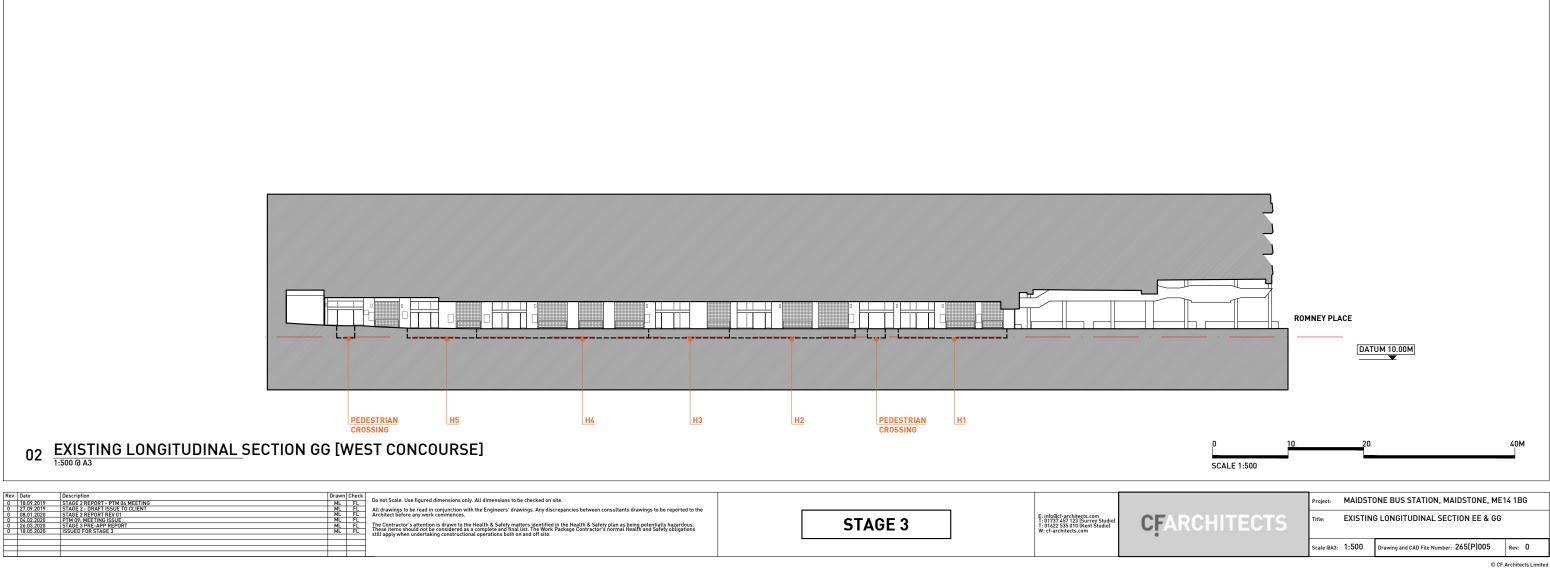


02 EXISTING NORTH ELEVATION - SECTION CC

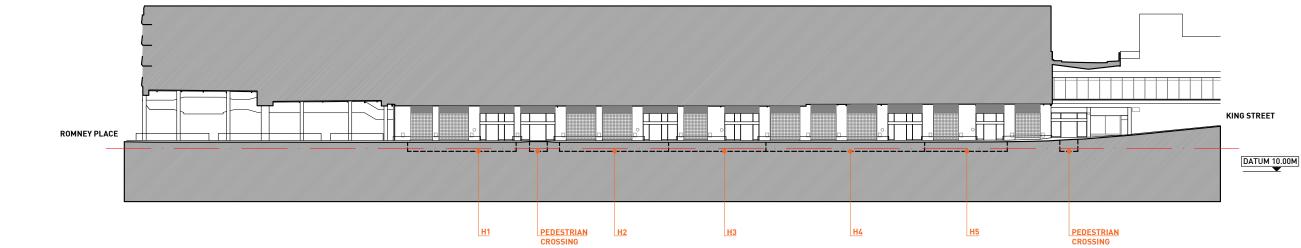


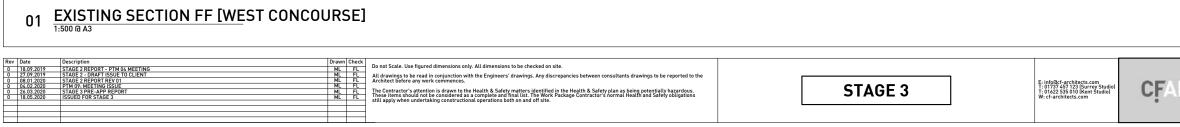
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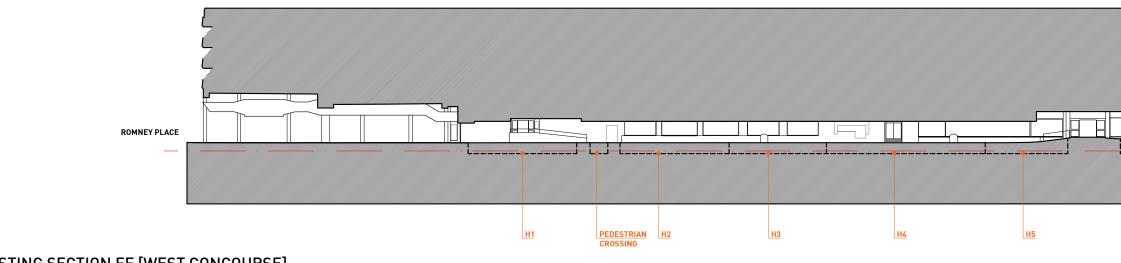




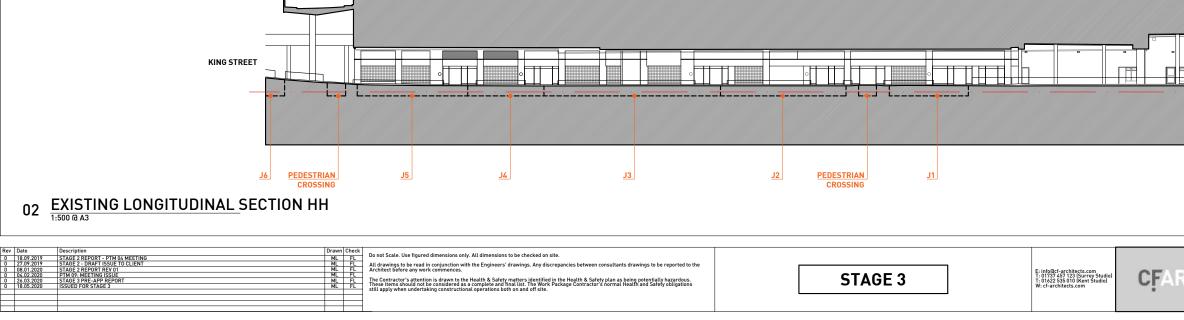




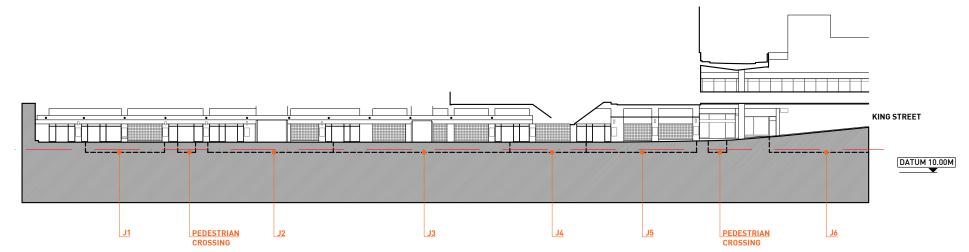




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				Architecte Limited

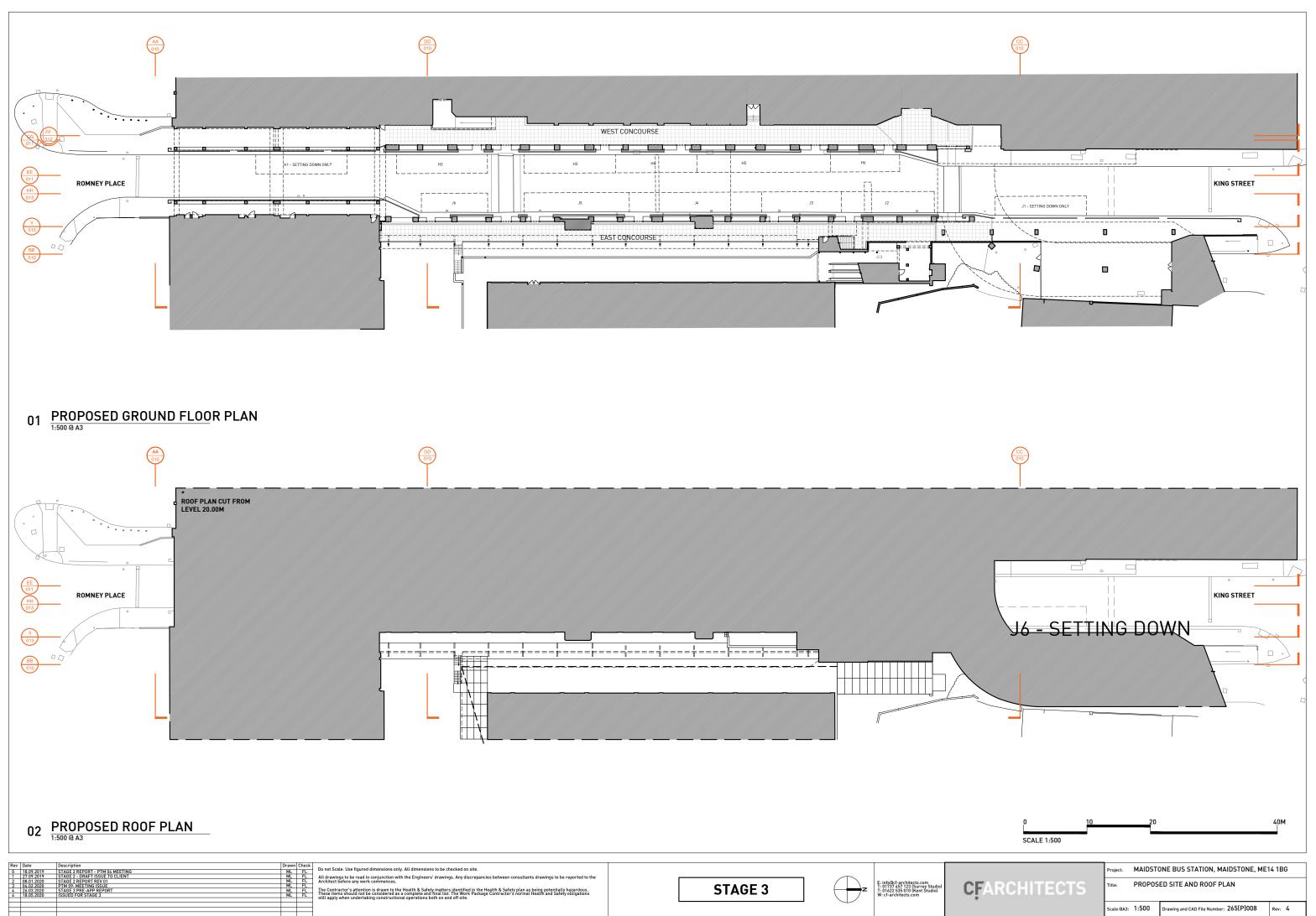






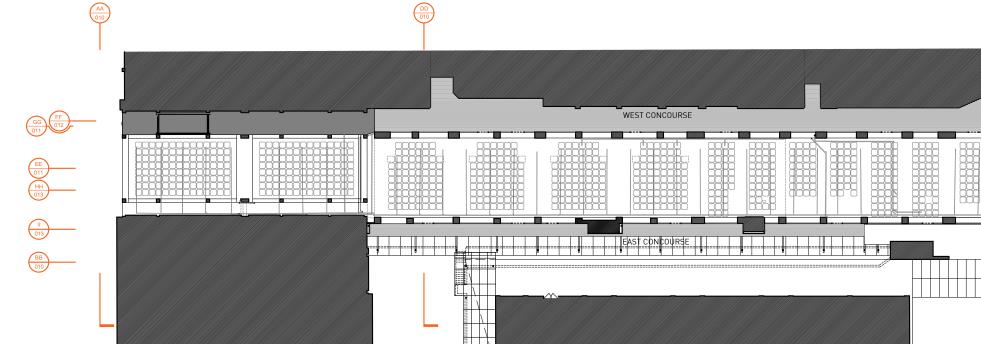
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01 PROPOSD REFLECTED CEILING PLAN

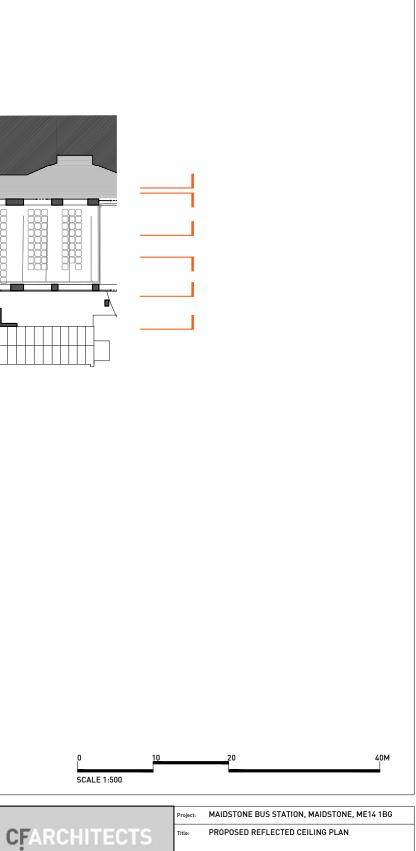
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1	27.09.2019	STAGE 2 - DRAFT ISSUE TO CLIENT	ML	
2	08.01.2020	STAGE 2 REPORT REV 01	ML	
3	04.02.2020	PTM 09: MEETING ISSUE	ML	
4	26.03.2020	STAGE 3 PRE-APP REPORT	ML	
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STAGE 3

E: info@cf-architects.com T: 01737 457 123 [Surrey Studio] T: 01622 535 010 [Kent Studio] W: cf-architects.com Z



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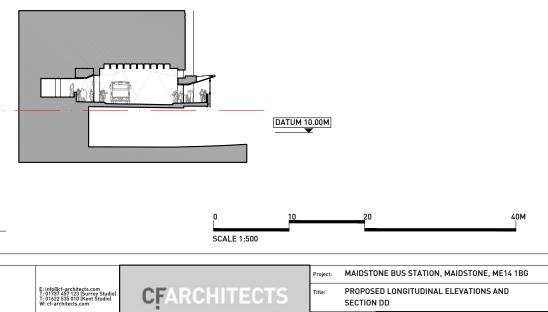
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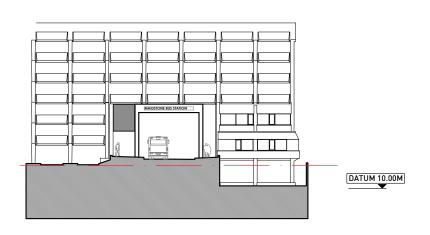


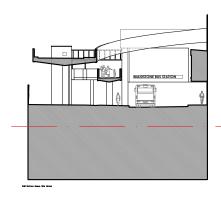




01 PROPOSED SOUTH ELEVATION - SECTION AA



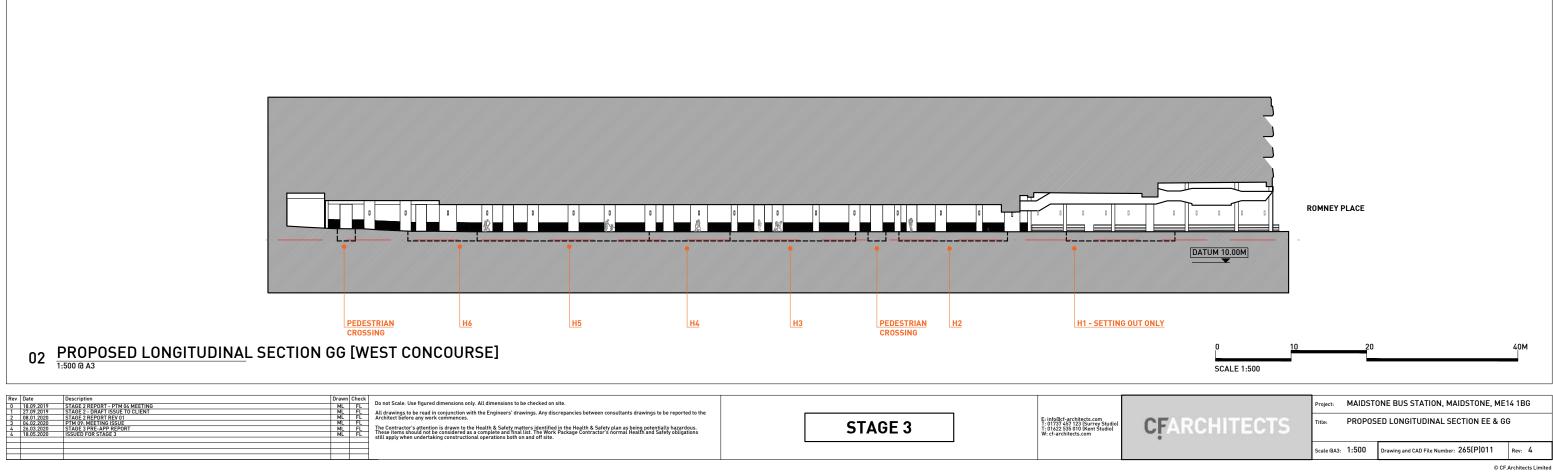




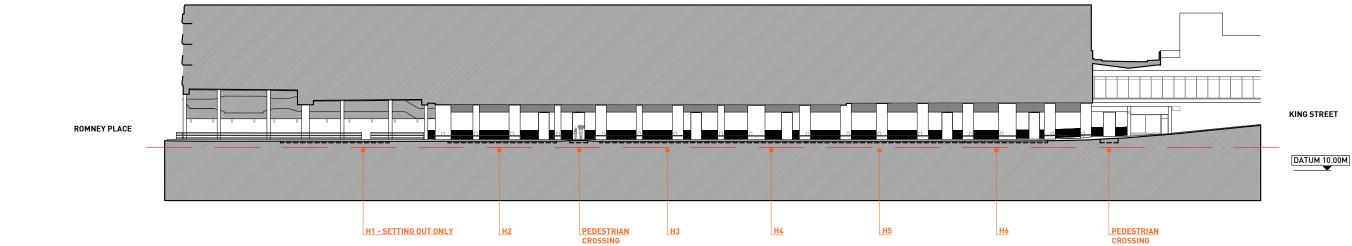
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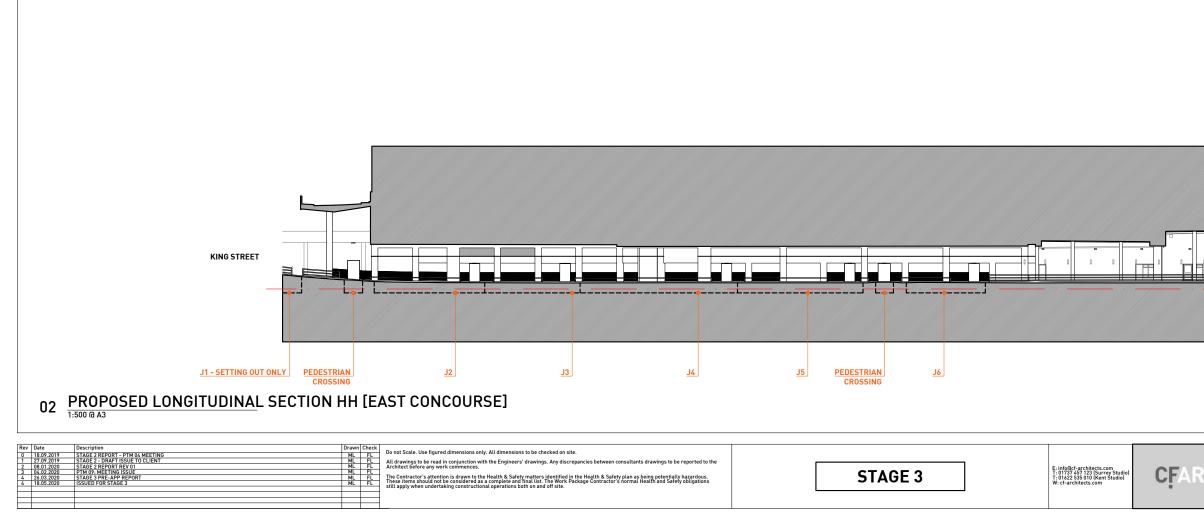
PEDESTRIAN CROSSING

01 PROPOSED SECTION FF [WEST CONCOURSE]	H2 <u>PEDESTRIAN</u> H3 CROSSING	Н4	<u>H5</u> <u>H6</u>	PEDESTRIAN CROSSING 0 10 SCALE 1:500	2040M
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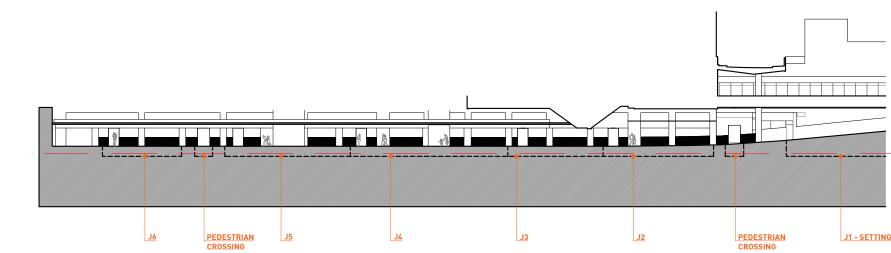
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ROMNEY PLACE



PROPOSED LONGITUDINAL SECTION II [EAST CONCOURSE] 01



0 <u>10</u> SCALE 1:500		20		40M	
	Project:	MAIDST	ONE BUS STATION, MAIDSTONE, ME	14 1BG	
CHITECTS	Title:	PROPOSED LONGITUDINAL SECTION II & HH			
	Scale @A3:	1:500	Drawing and CAD File Number: 265(P)013	Rev: 4	
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ROMNEY PLACE

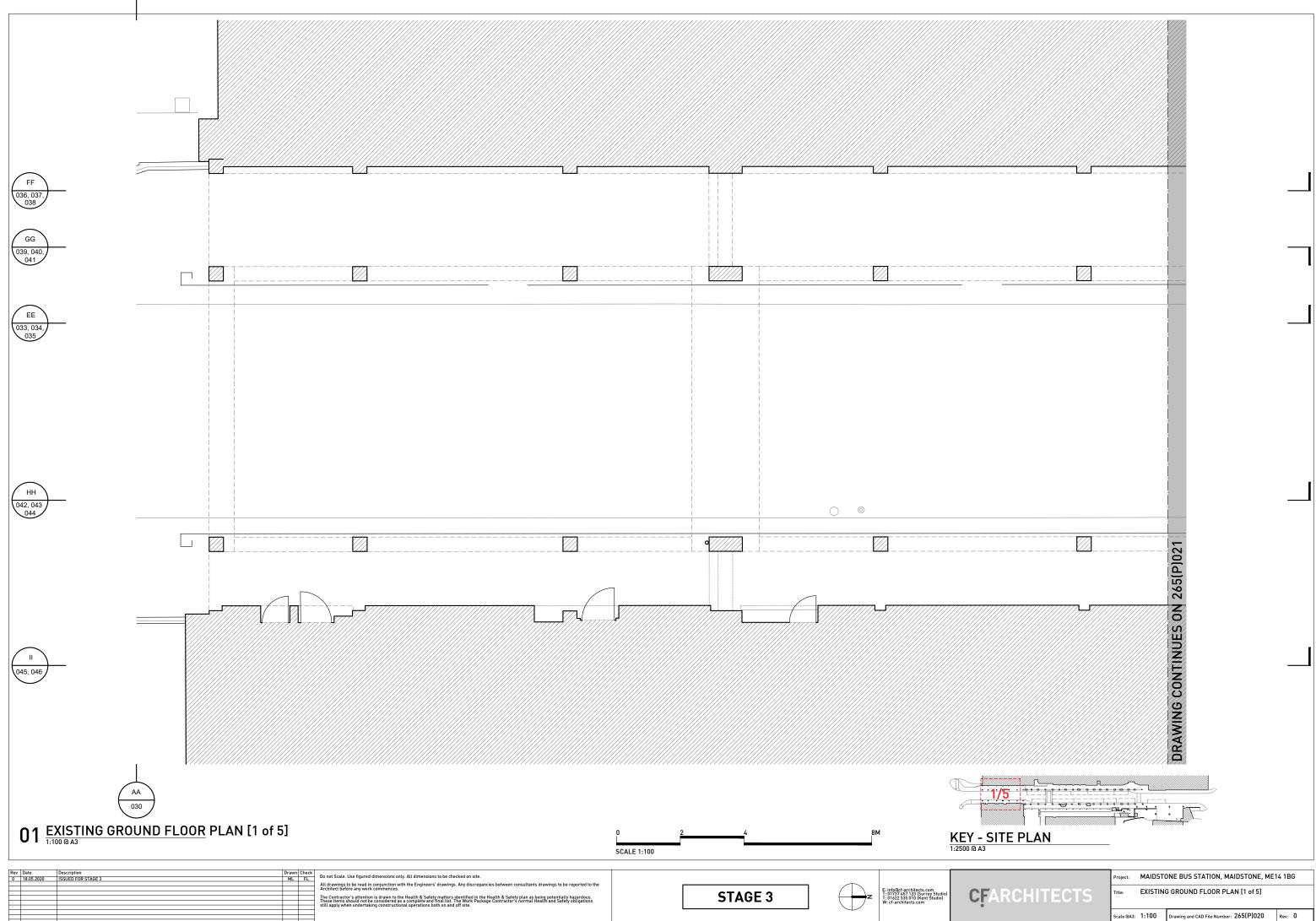
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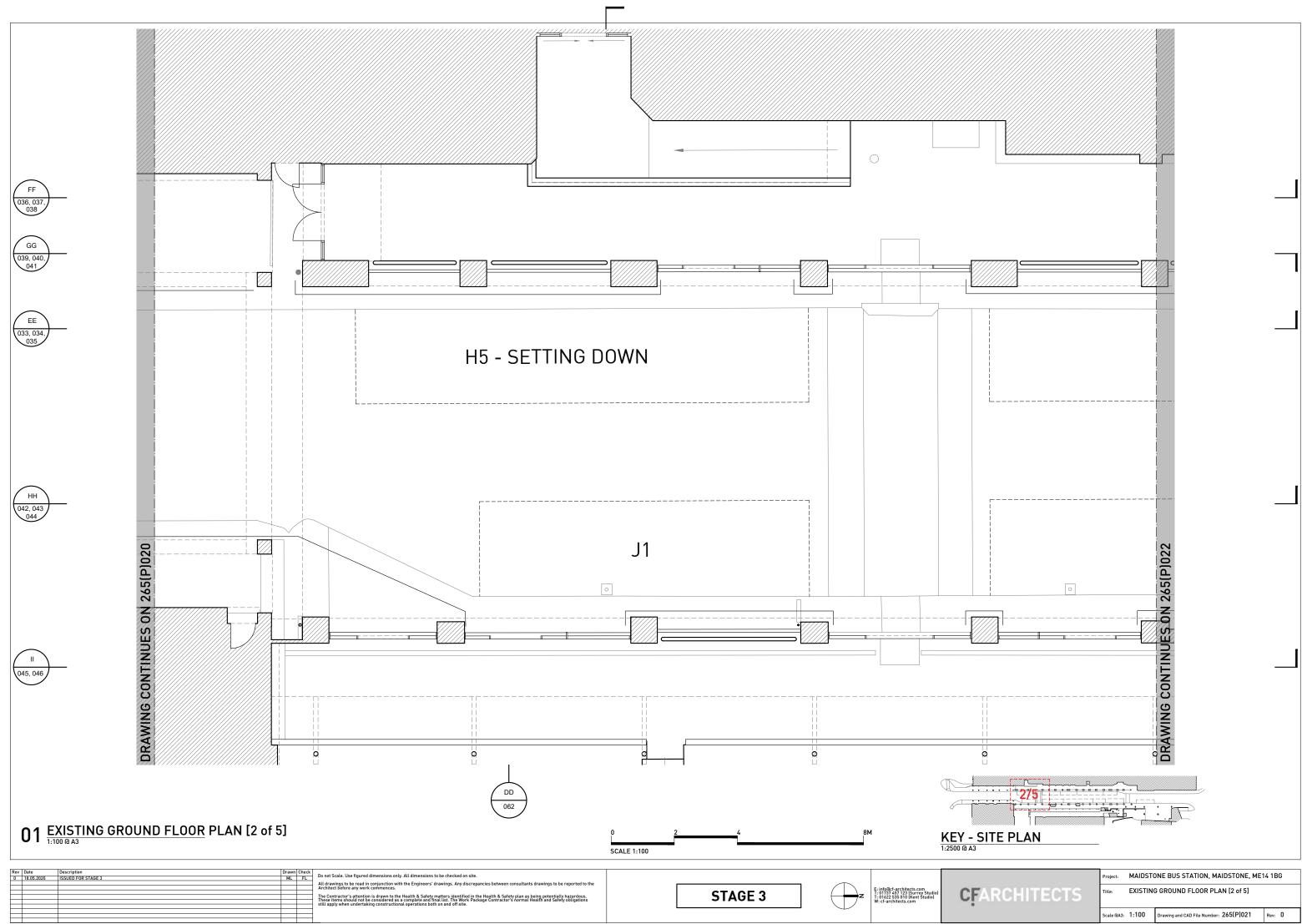
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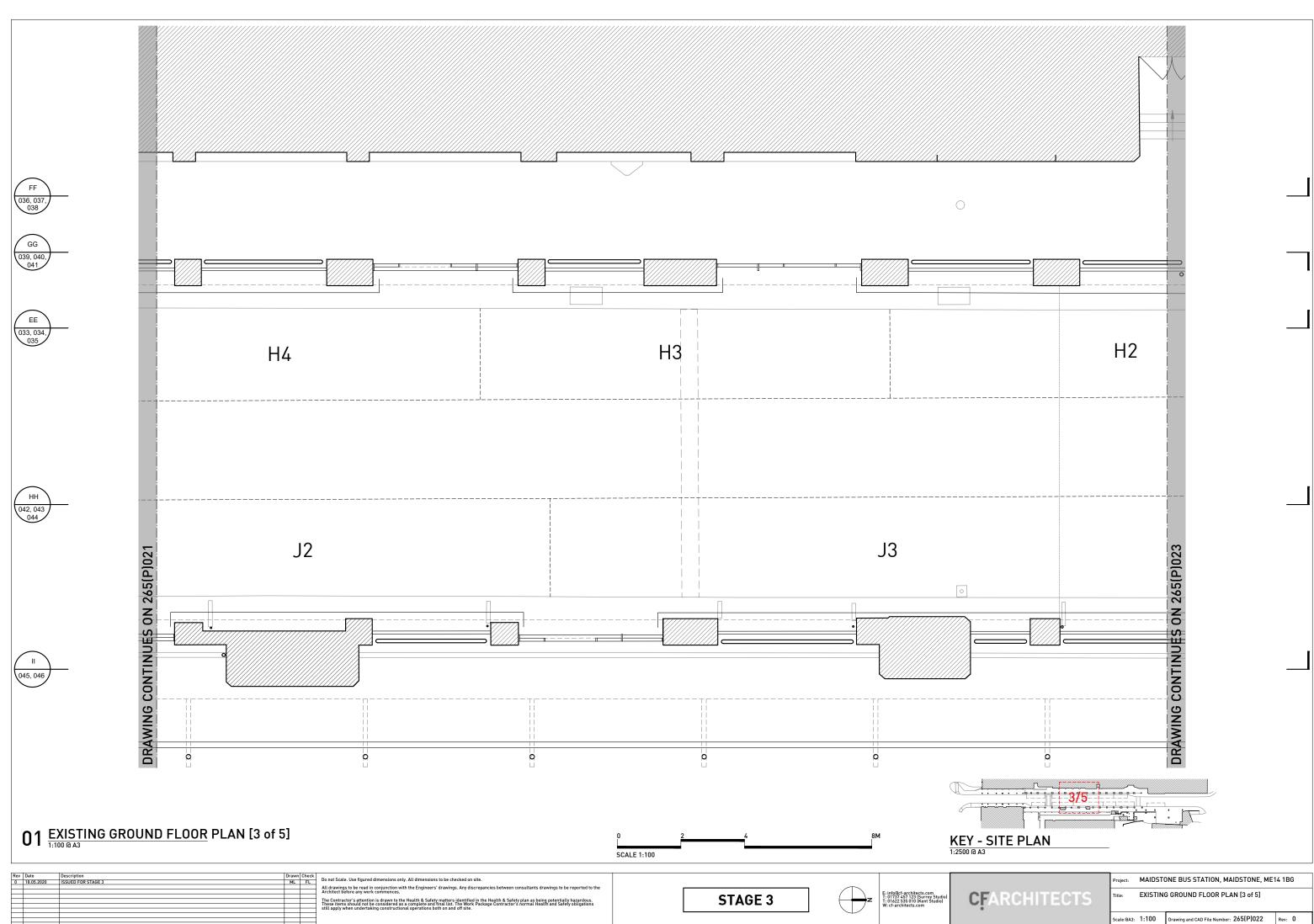
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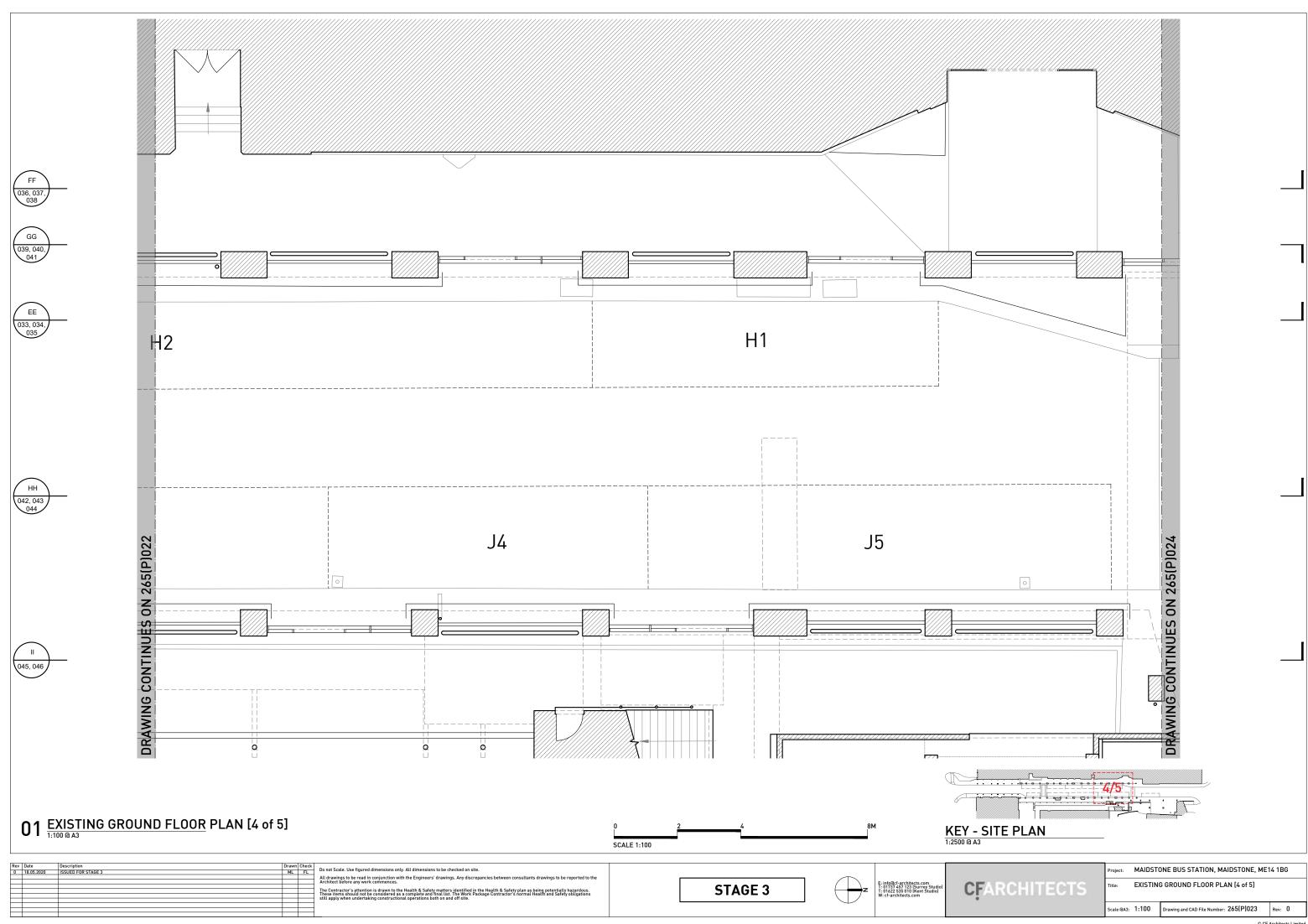
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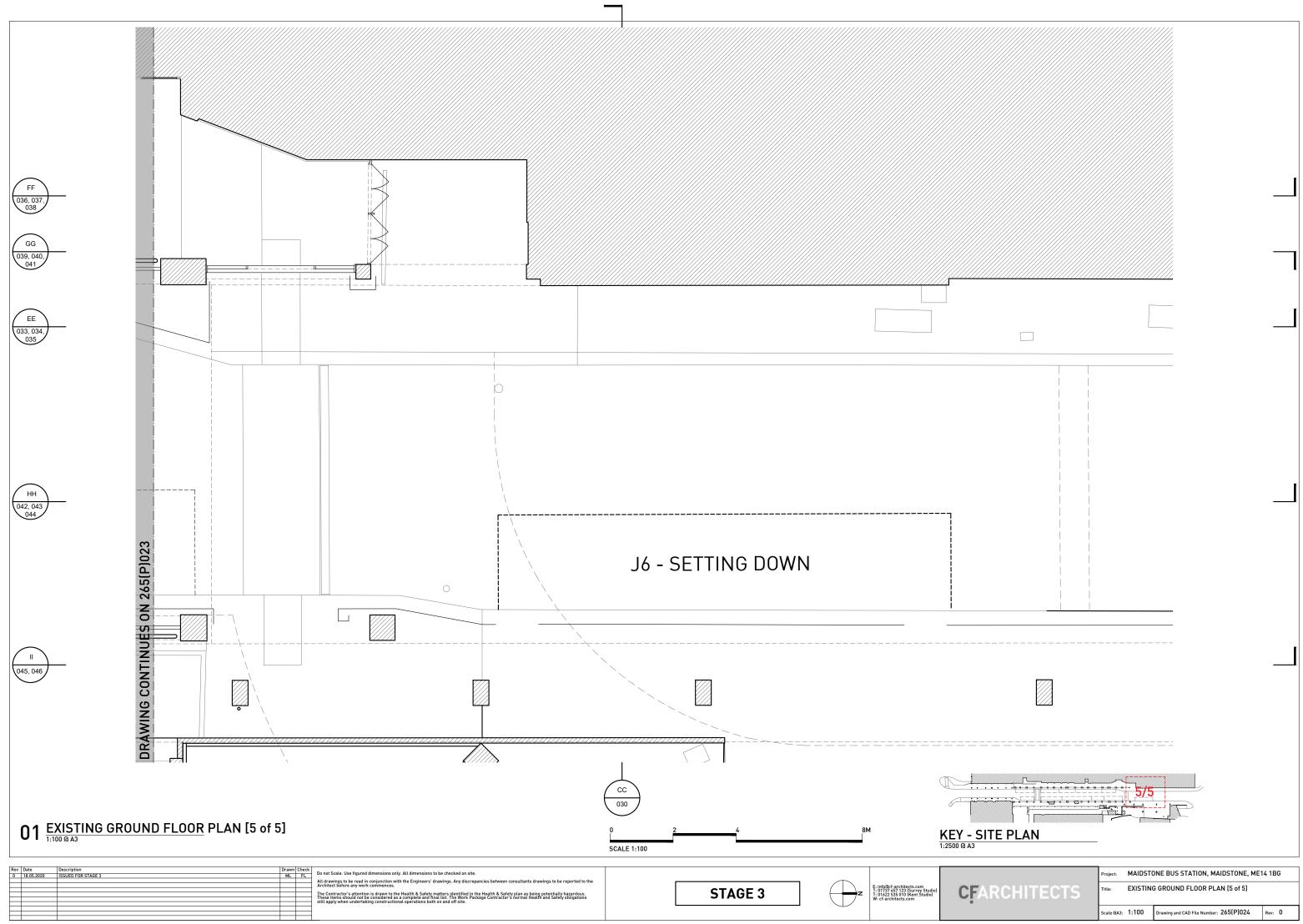


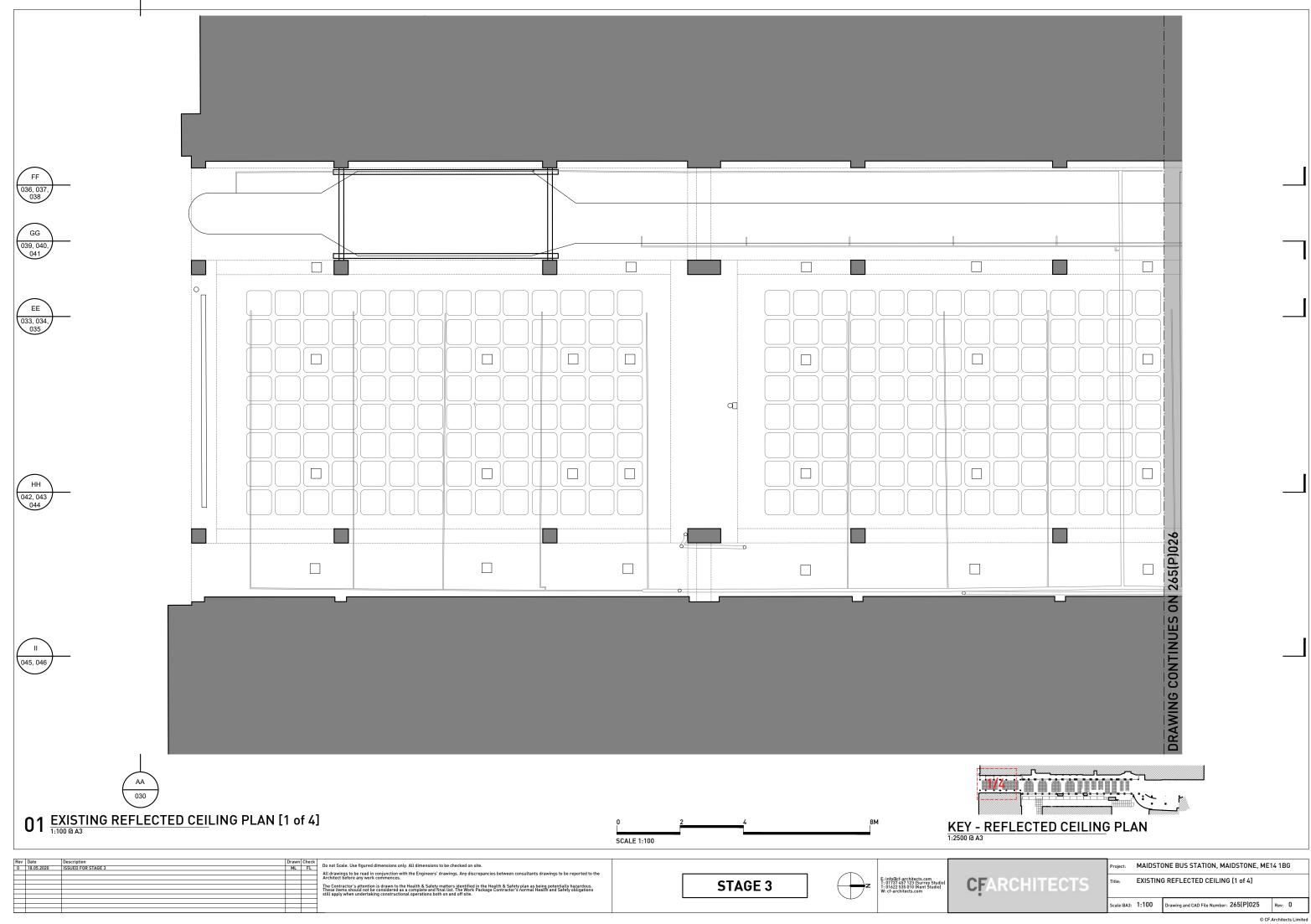




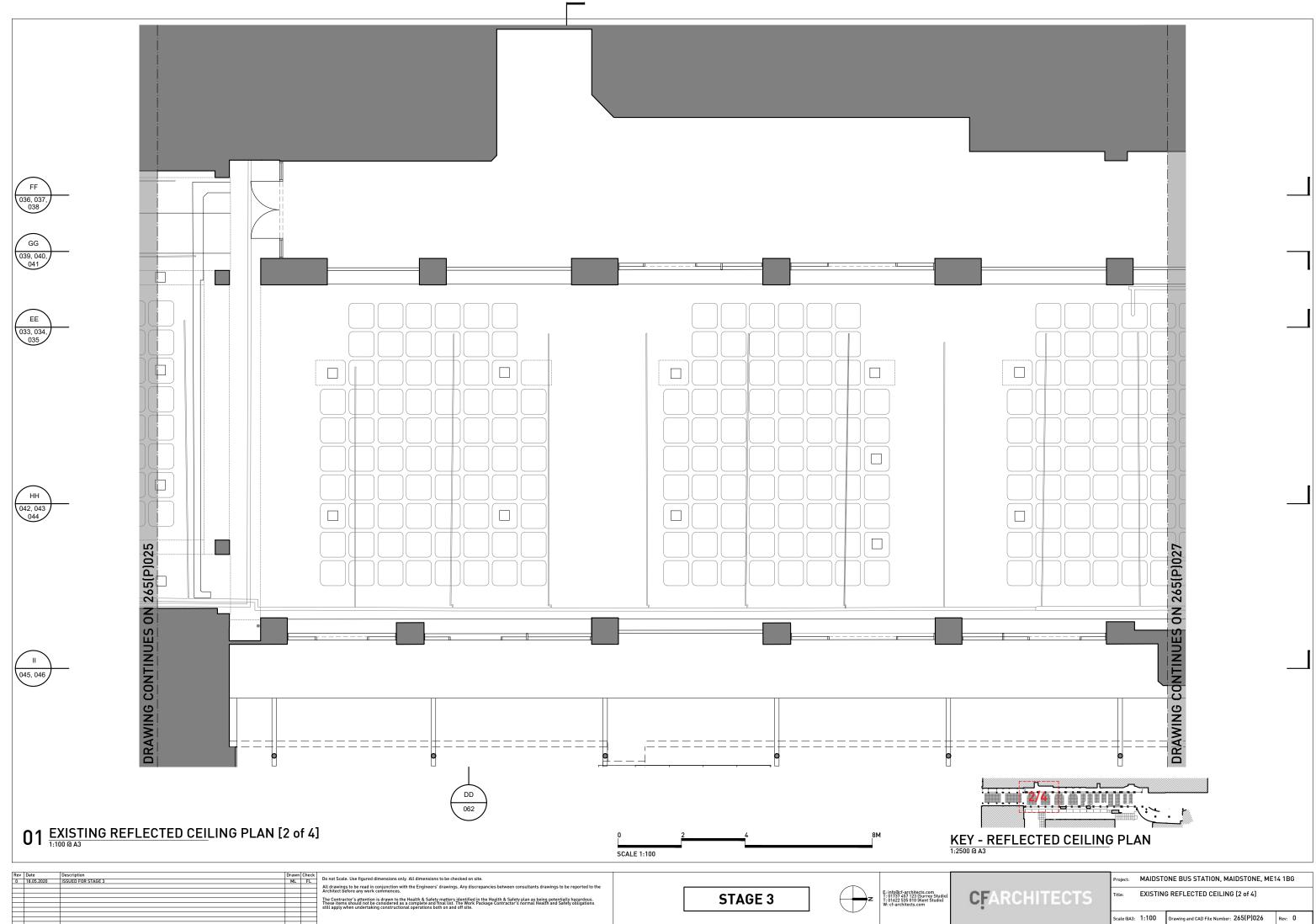
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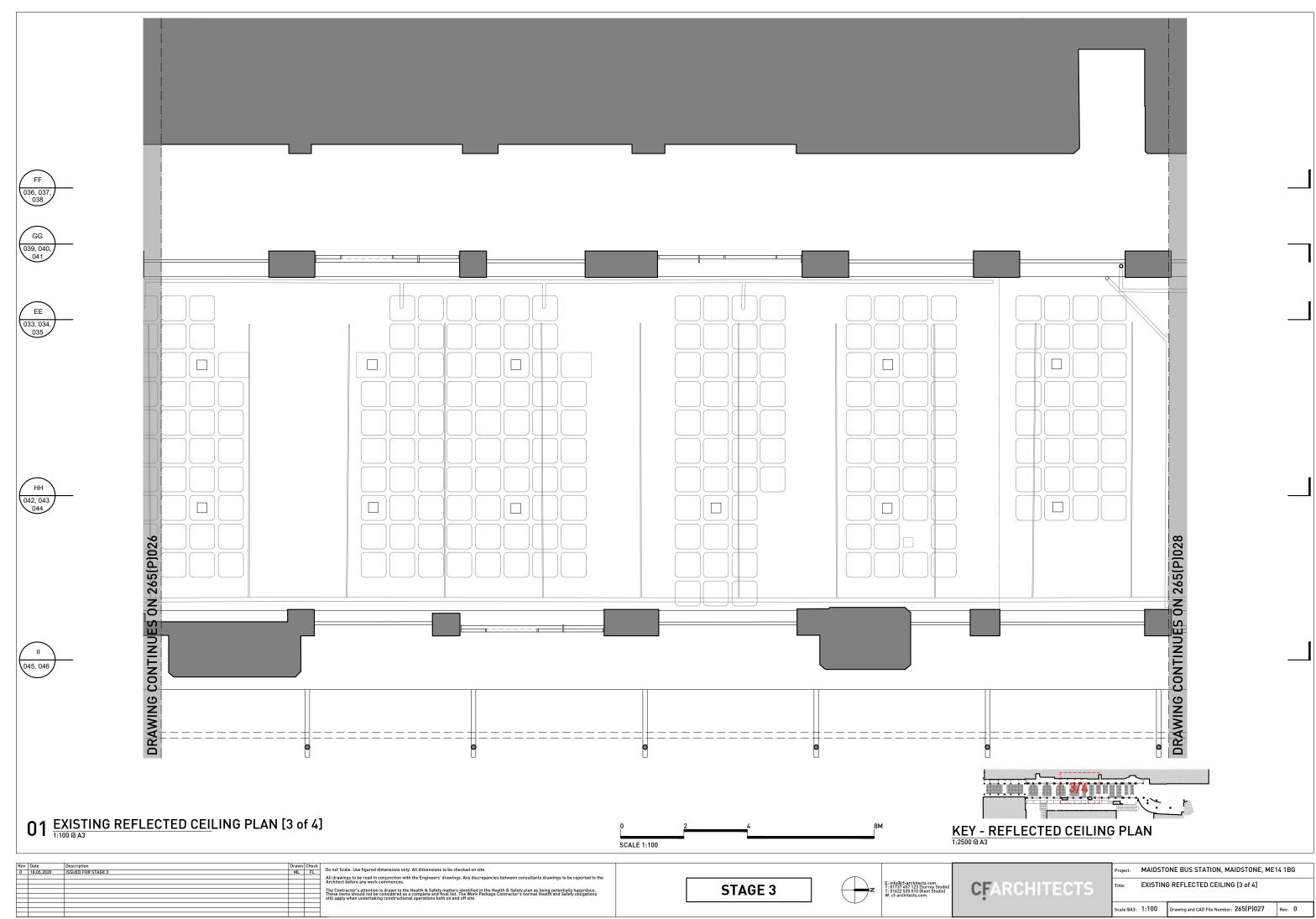




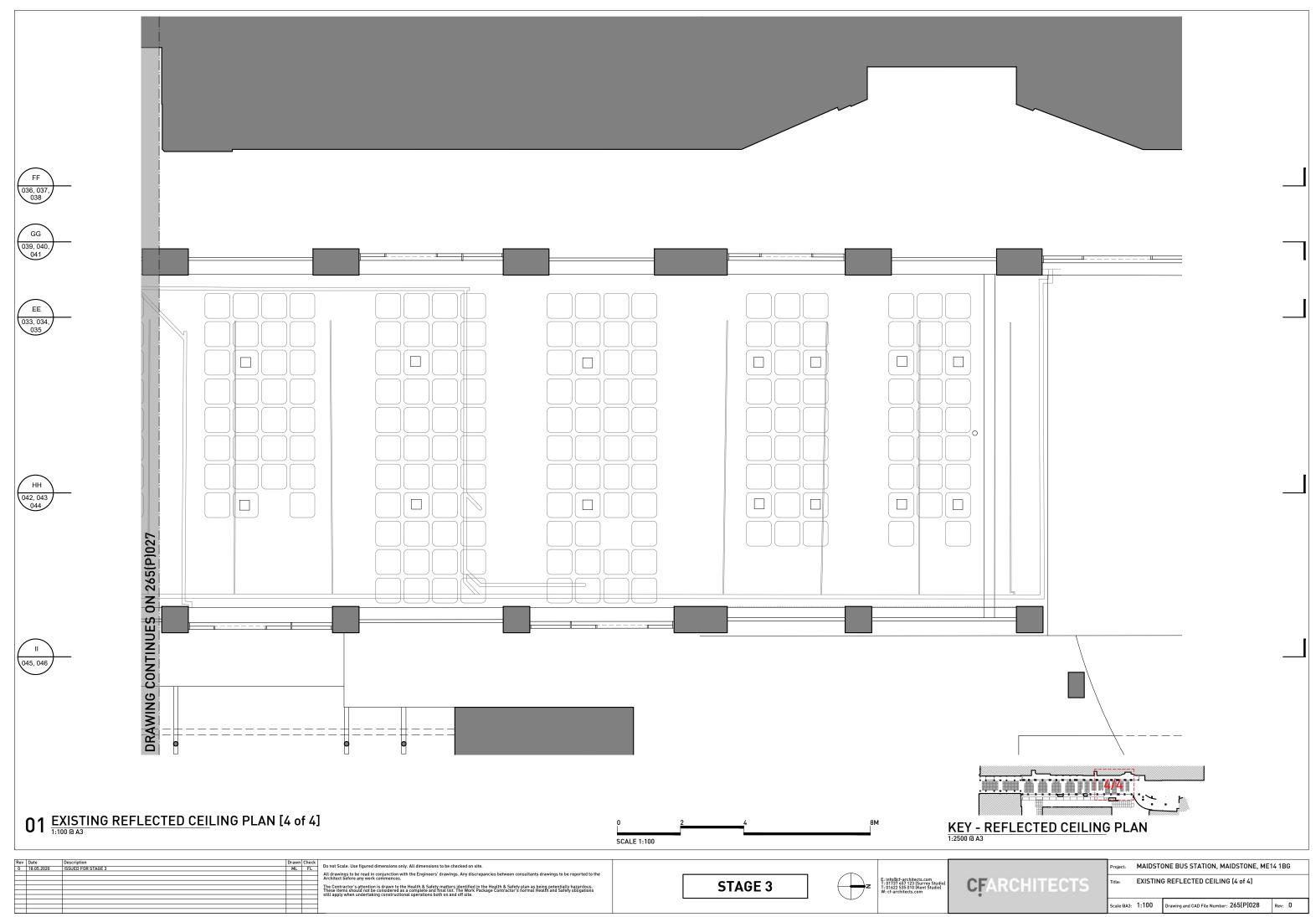


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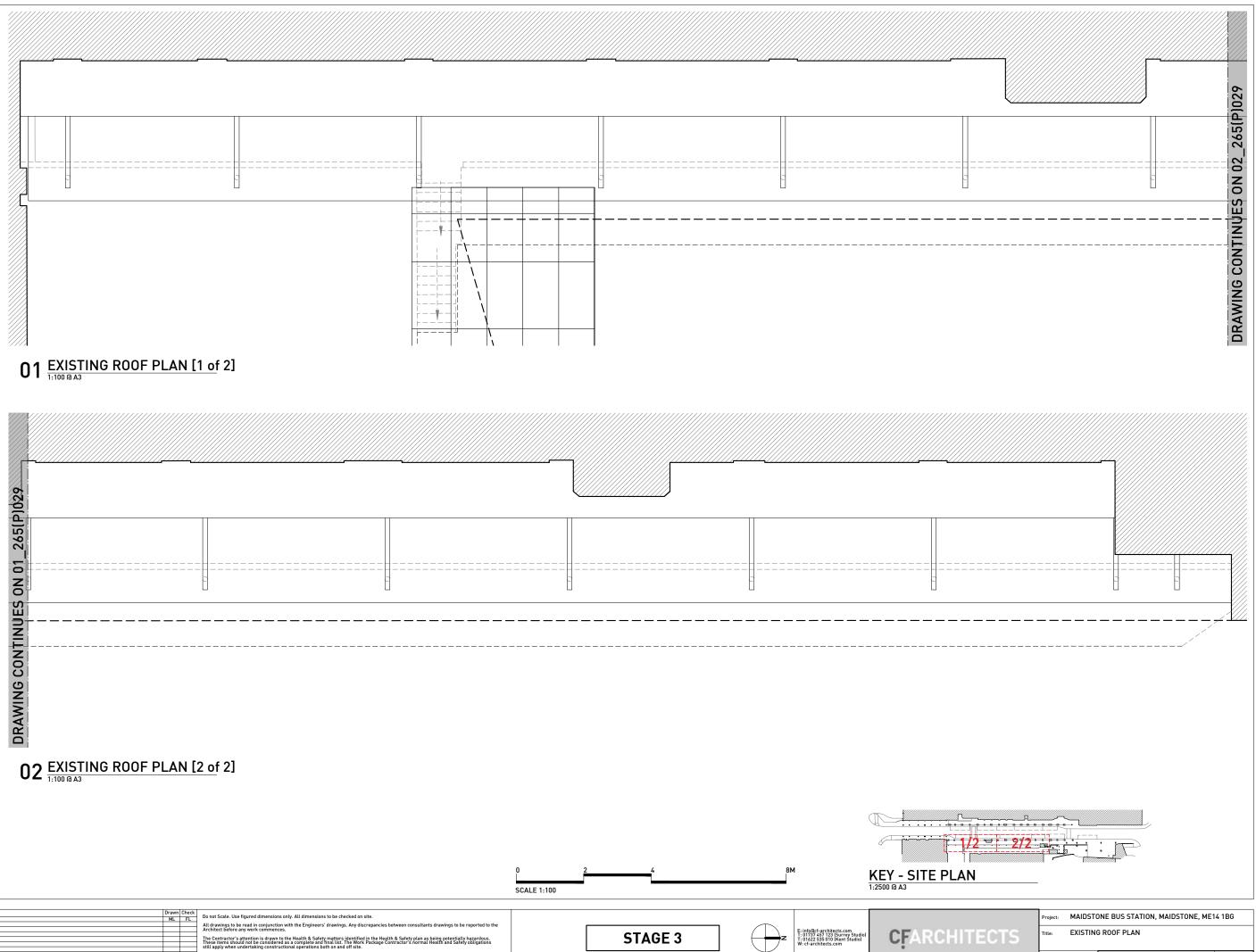




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Title: EXISTI	NG REFLECTED CEILING [3 of 4]	

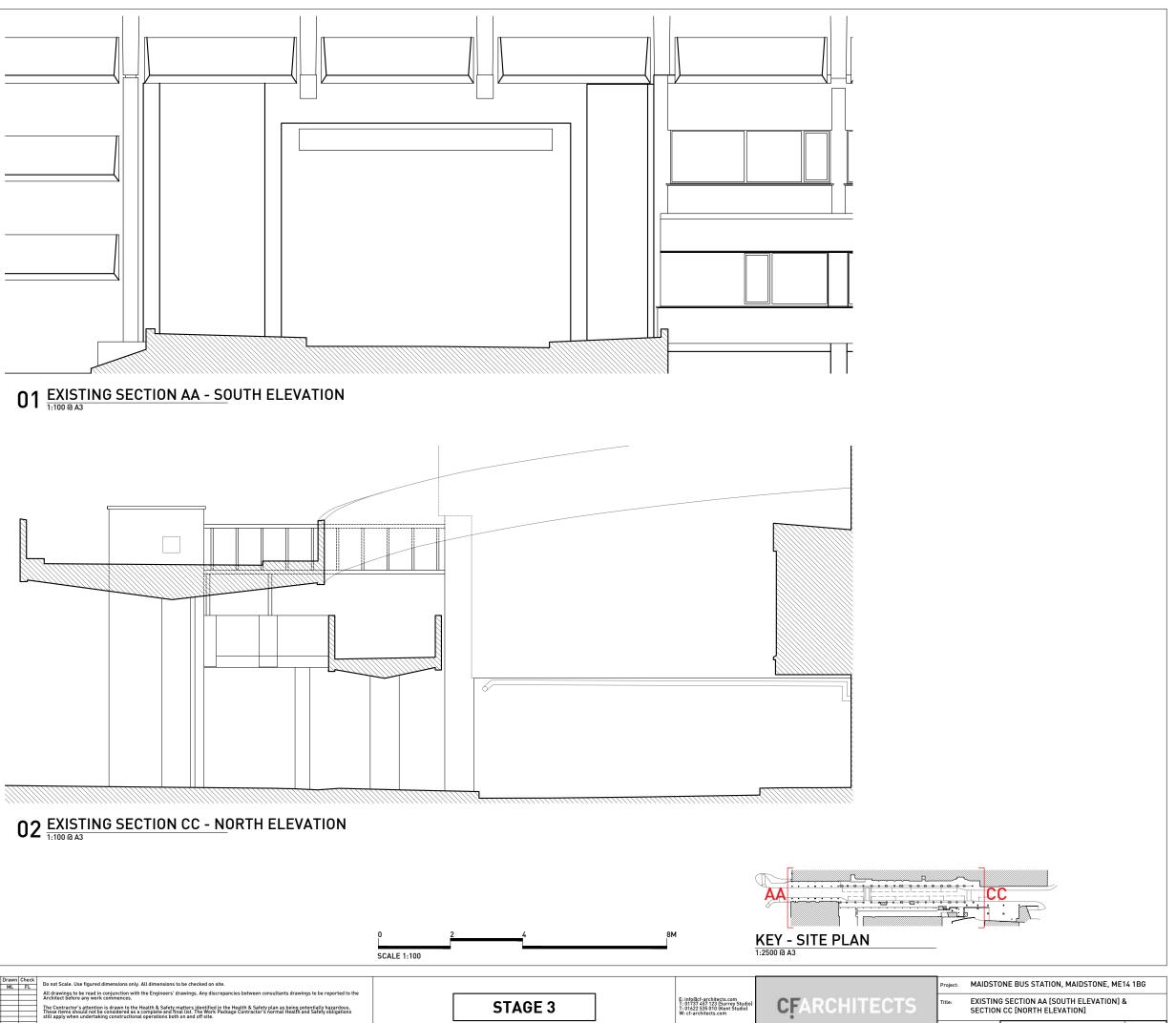


01 EXISTING ROOF	PLAN [1 of 2]				
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6 02 EXISTING ROOF	PLAN [2 of 2]				<i></i>
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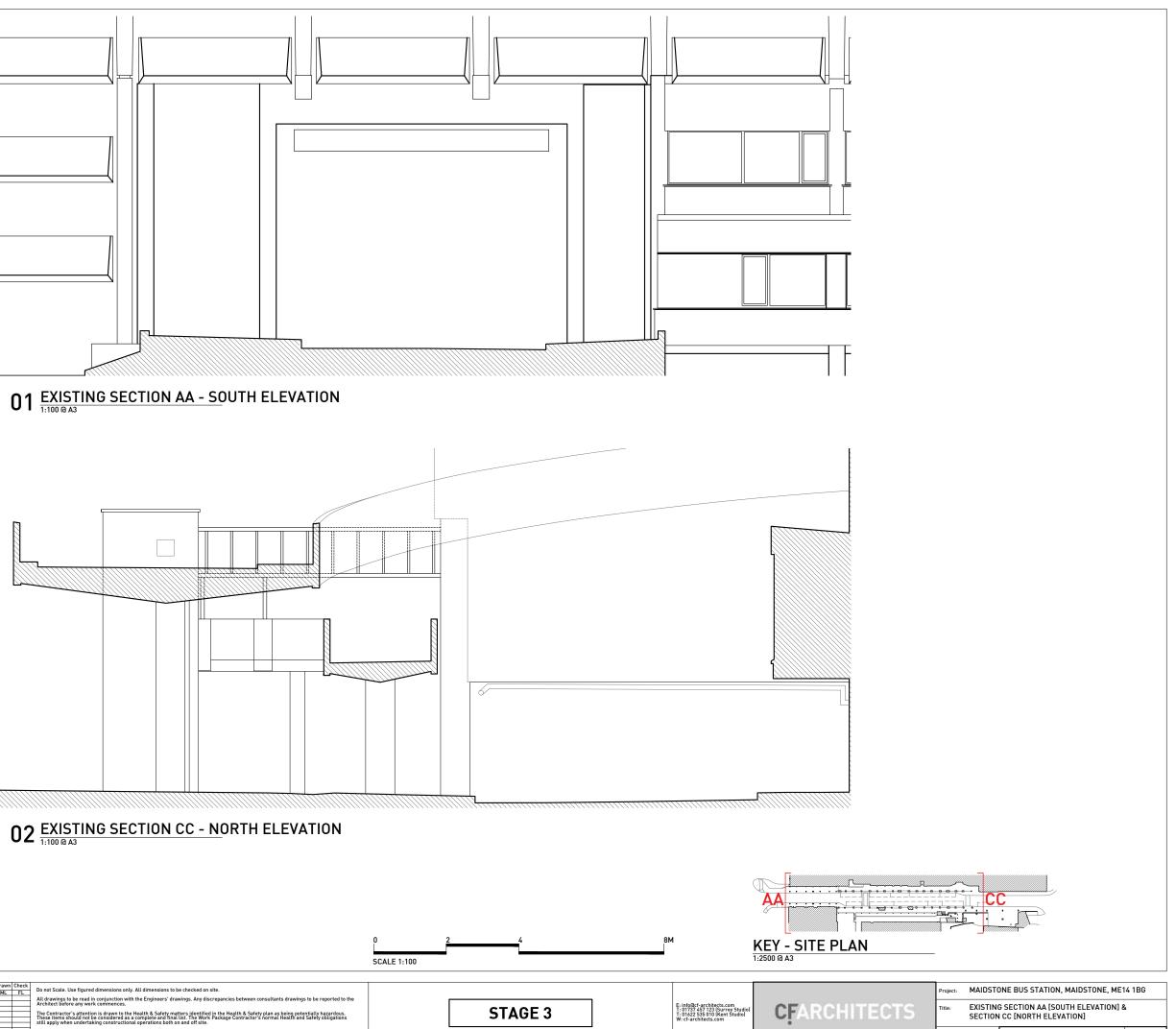


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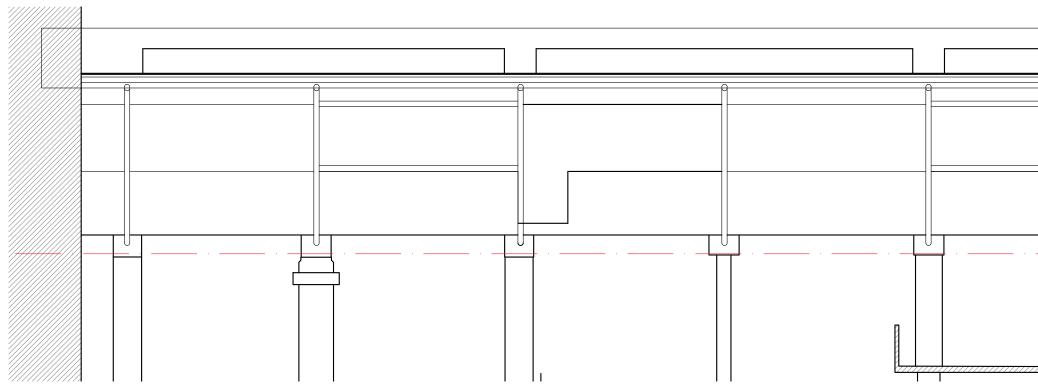
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	02 EXISTING SECTION CC - NORTH ELEVATIO)N		(AA
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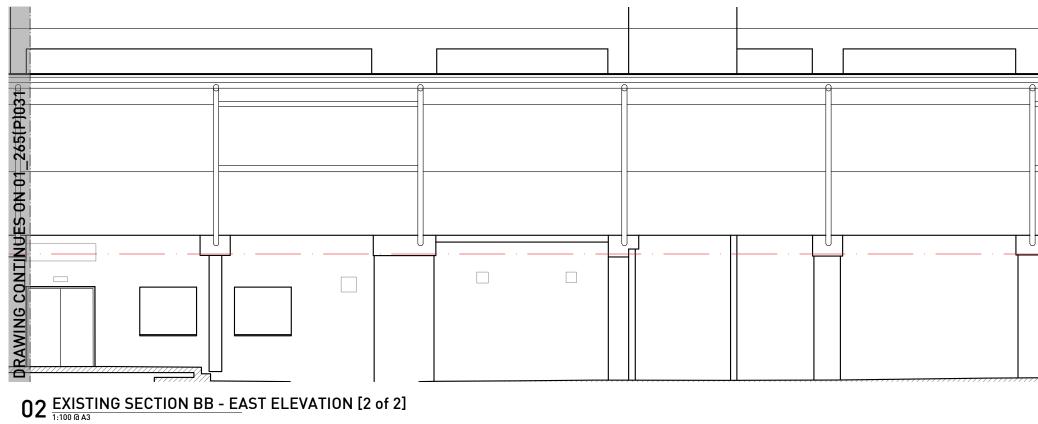




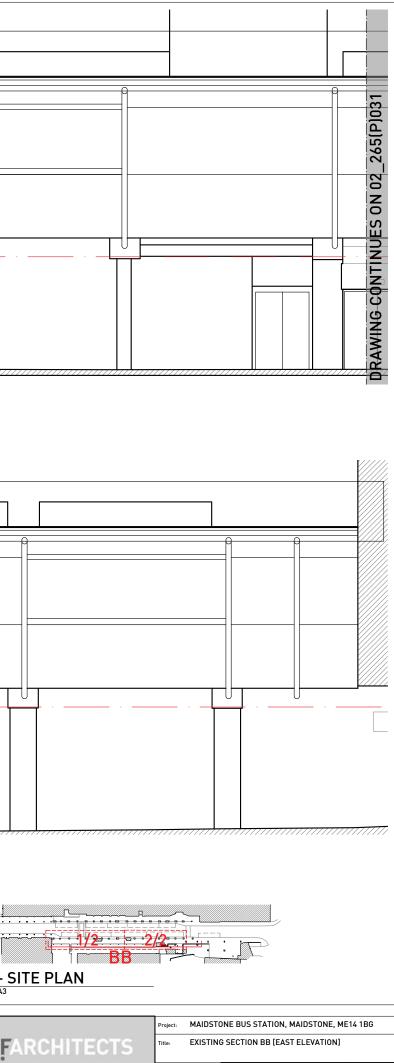
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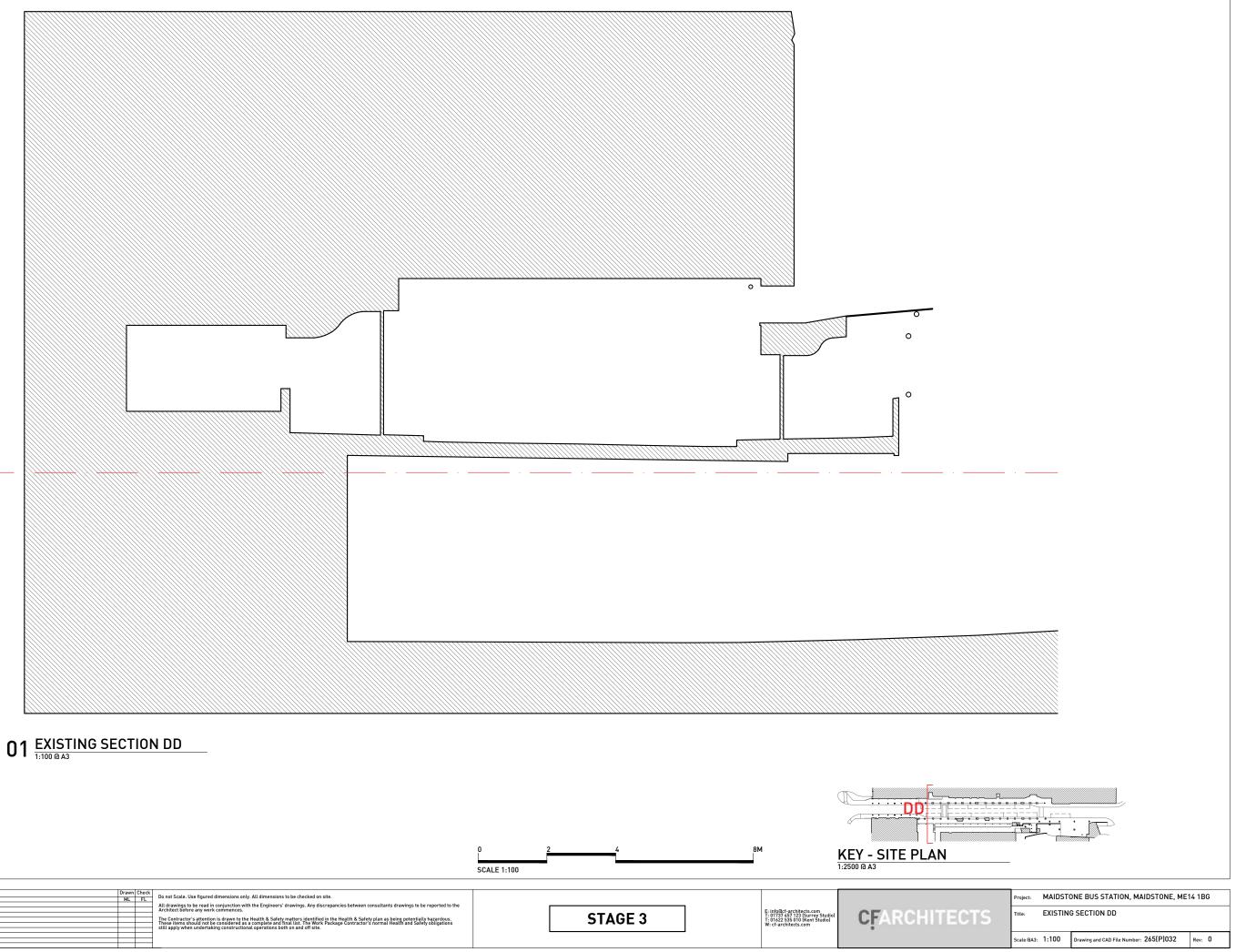
01 EXISTING SECTION BB - EAST ELEVATION [1 of 2]



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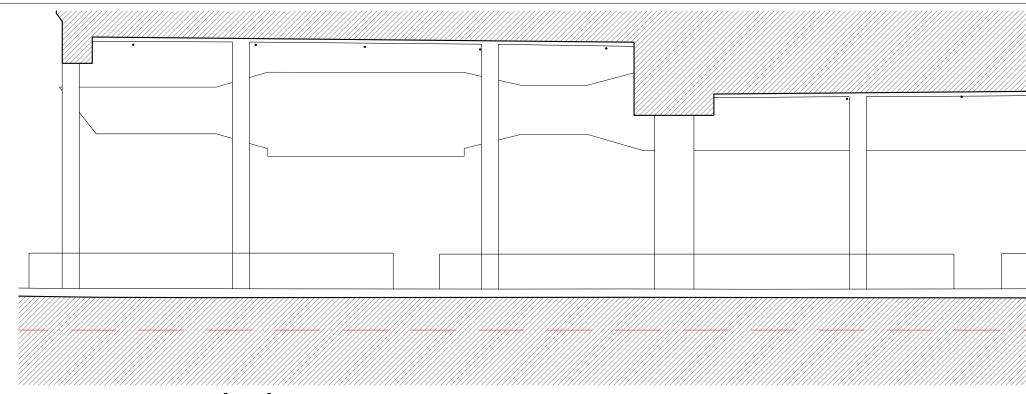


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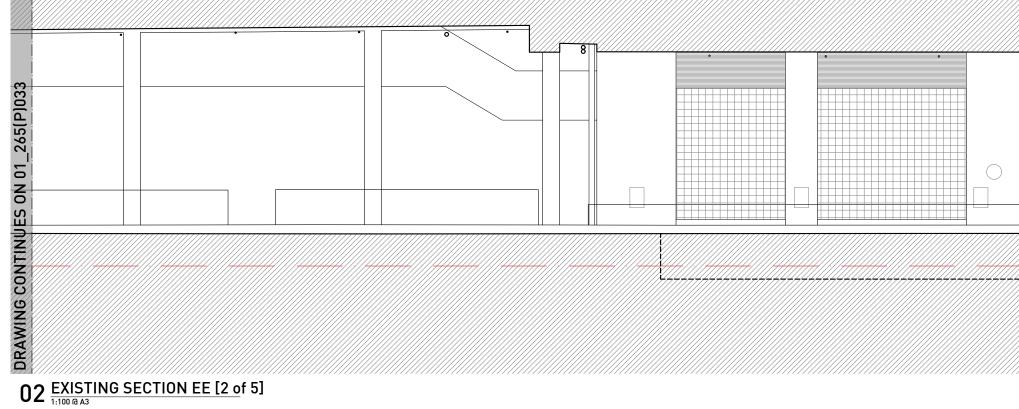




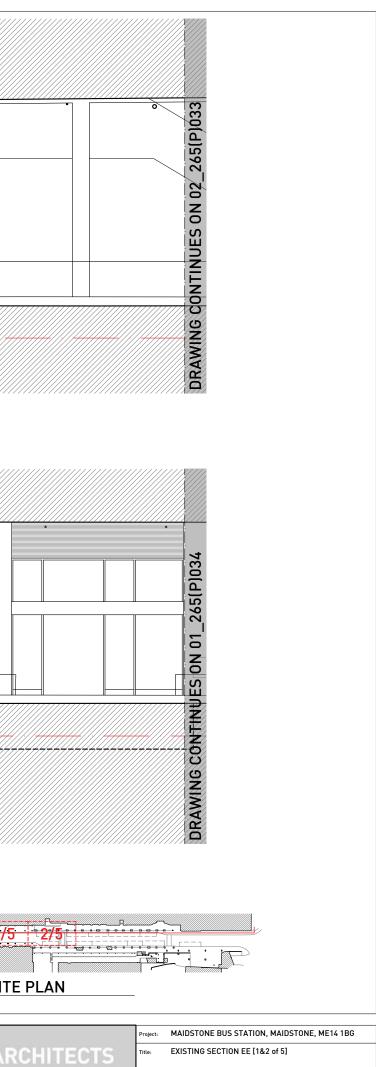
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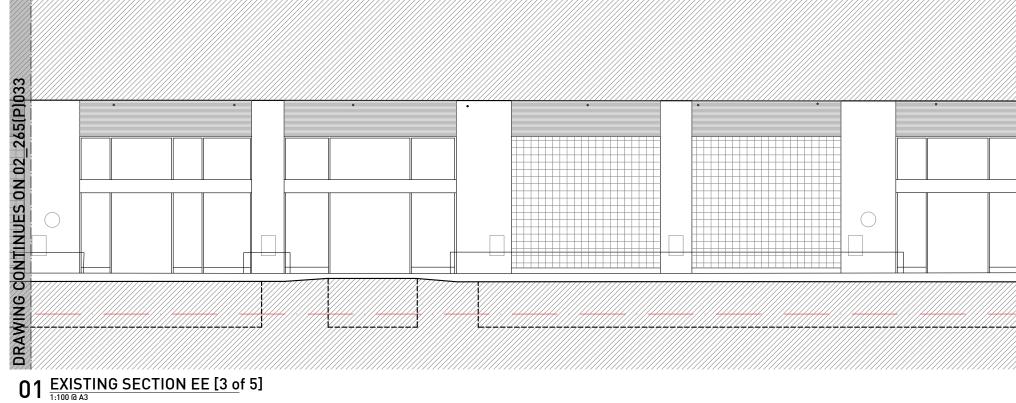


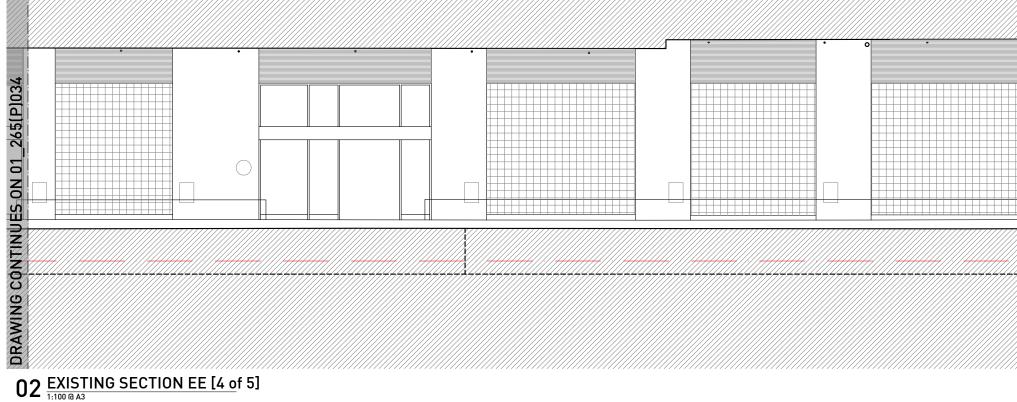


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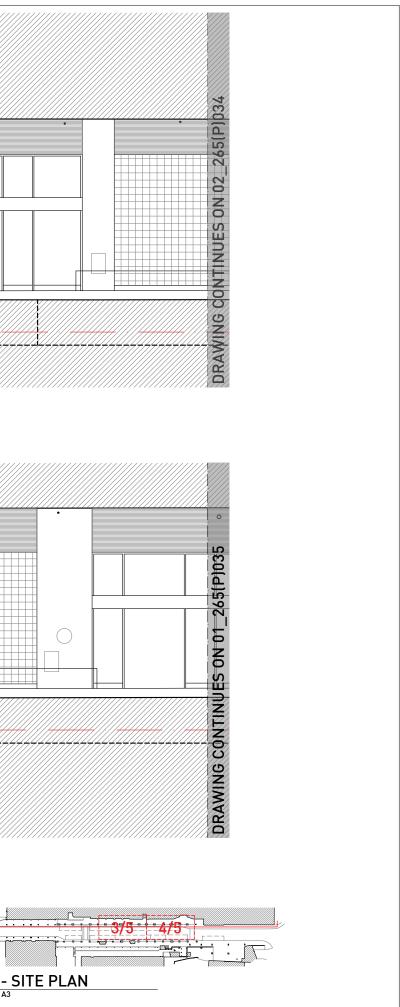


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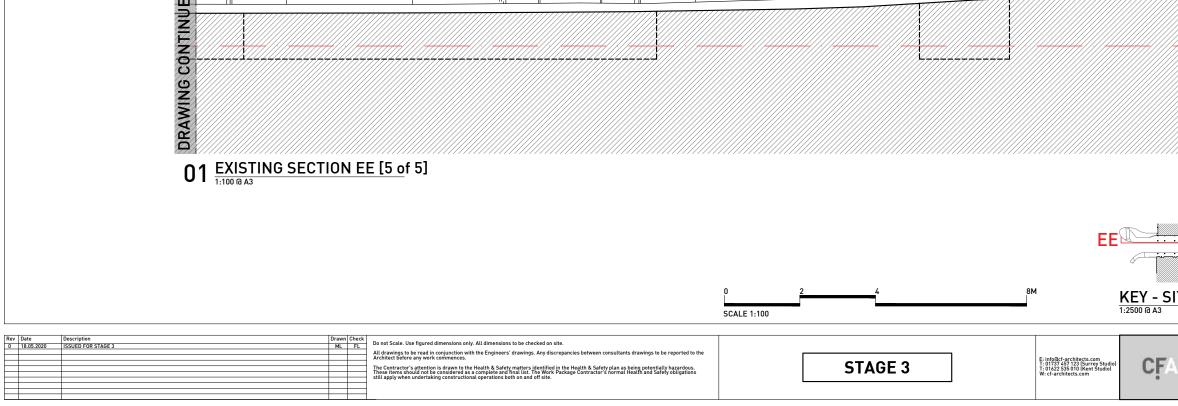




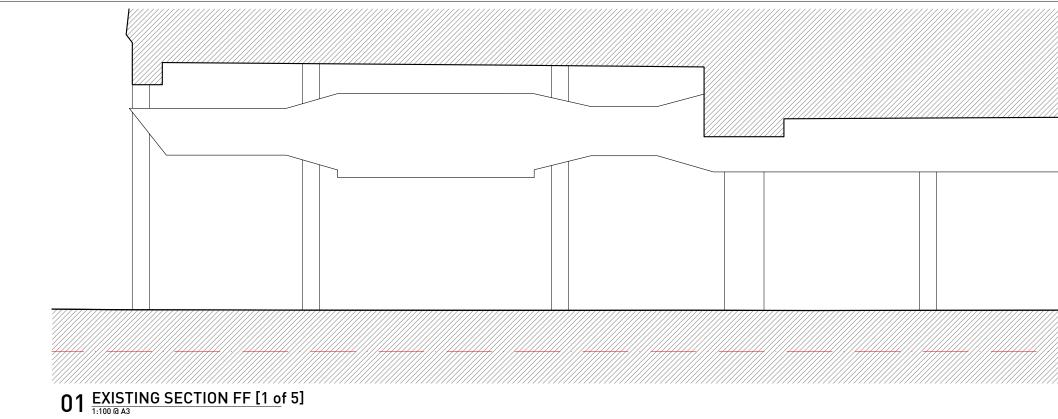


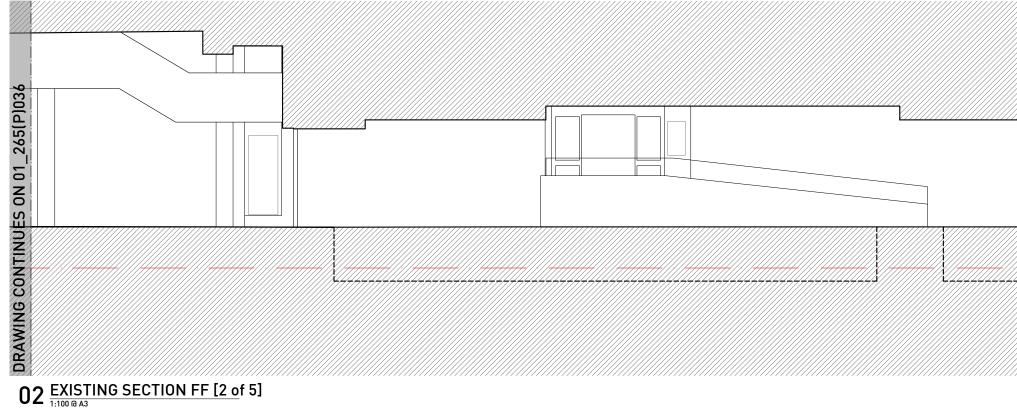
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MAIDSTONE BUS STATION, MAIDSTONE, ME14 1BG oiect: EXISTING SECTION EE [3&4 of 5]

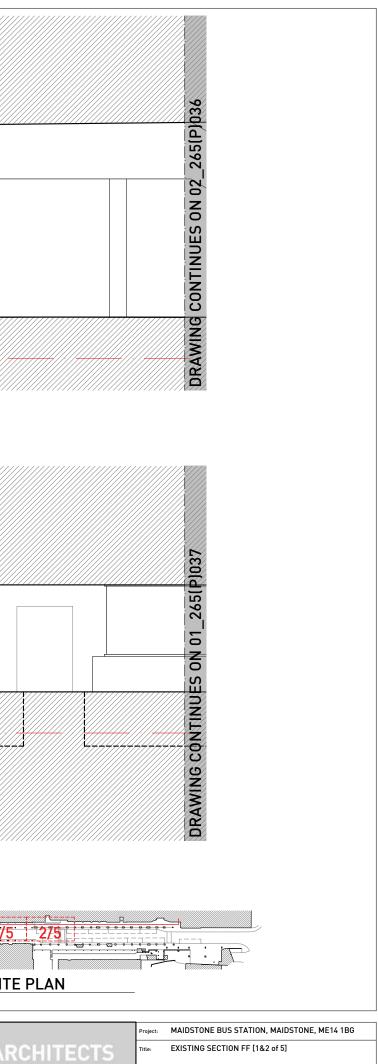








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<u> </u>						STAGE 3	E: info@cf-architects.com T: 01737 457 123 (Surrey Studio T: 01622 535 010 (Kent Studio)	CFA
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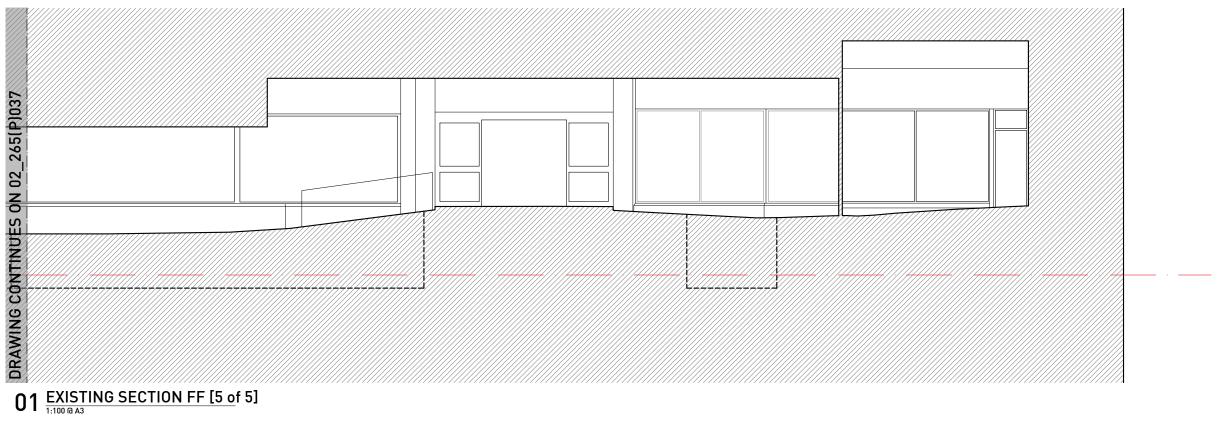


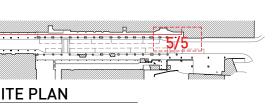
EXISTING SECTION FF [1&2 of 5]

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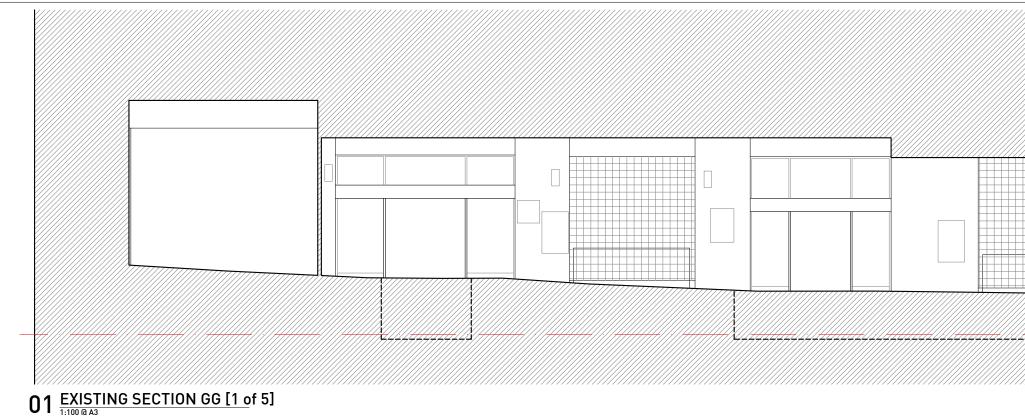


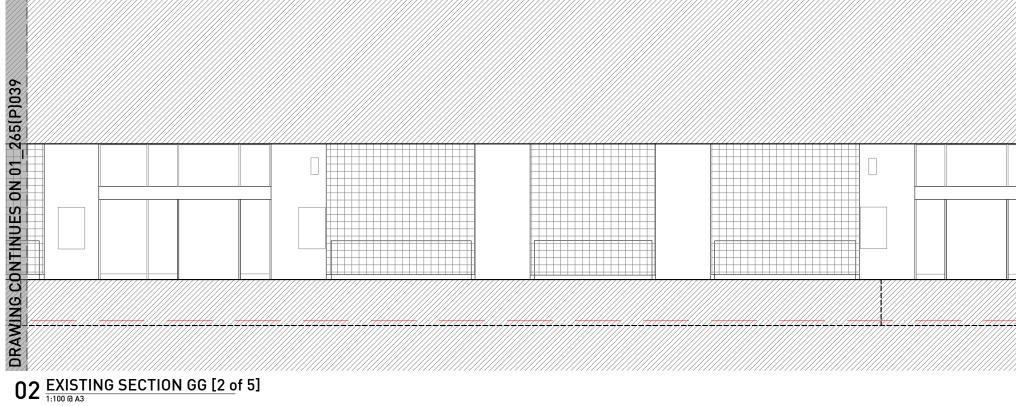




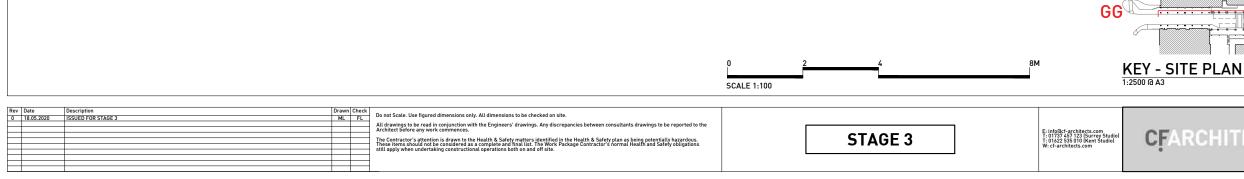
Project: MAIDSTONE BUS STATION, MAIDSTONE, ME14 1BG Title: EXISTING SECTION FF [5 of 5]

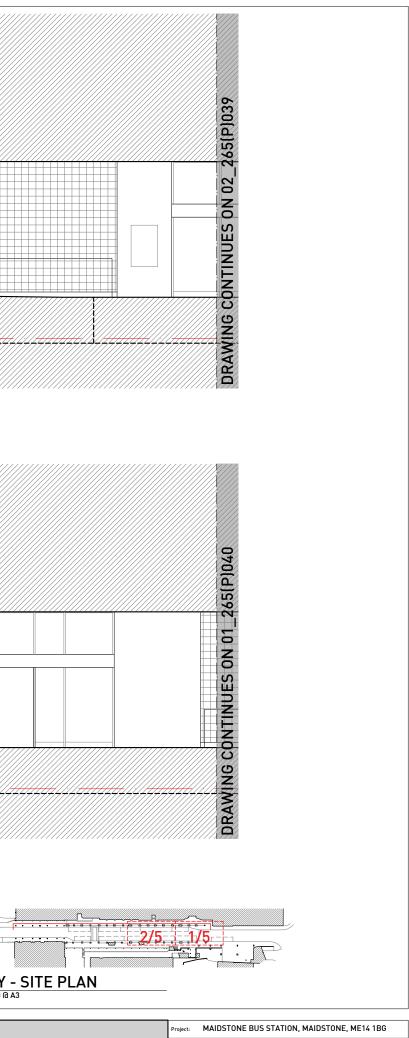
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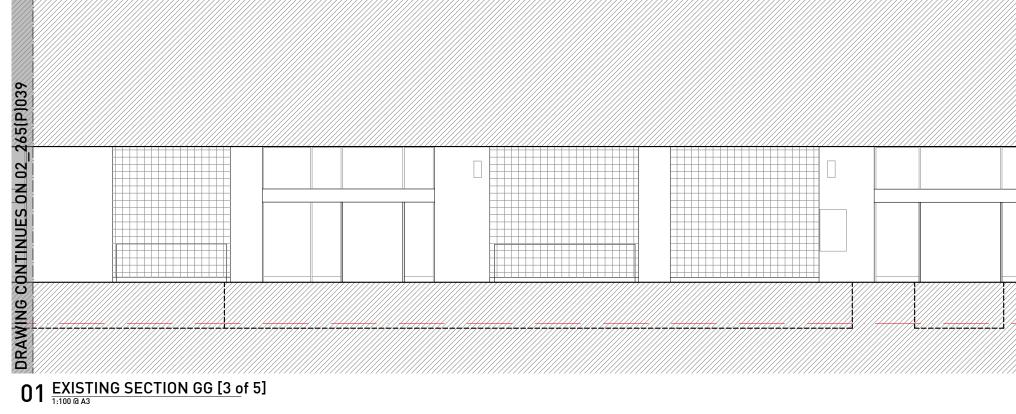


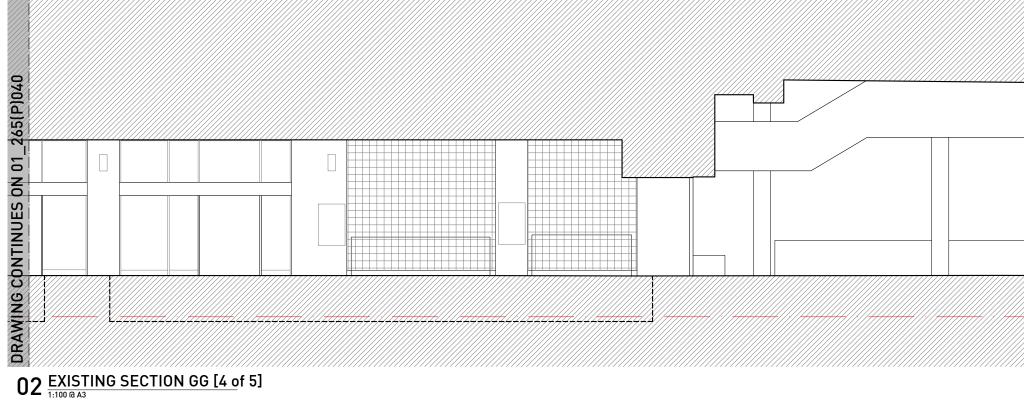


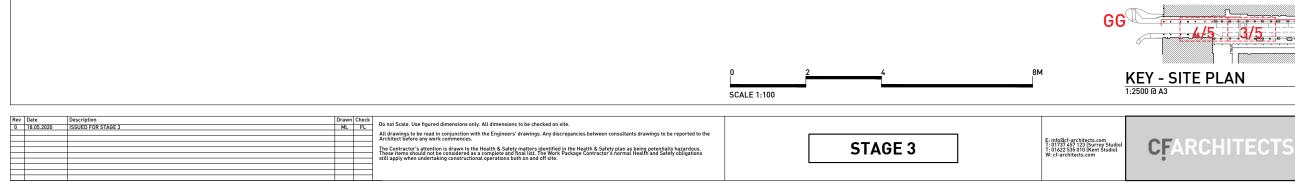


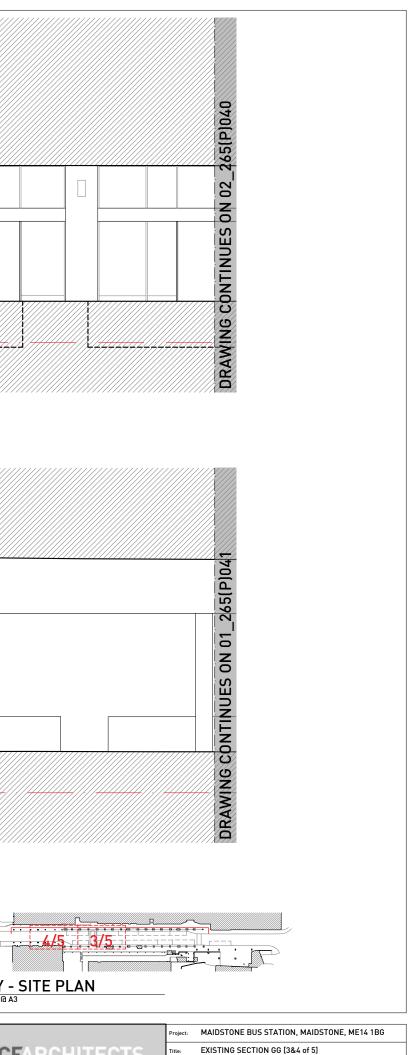
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EXISTING SECTION GG [1&2 of 5]

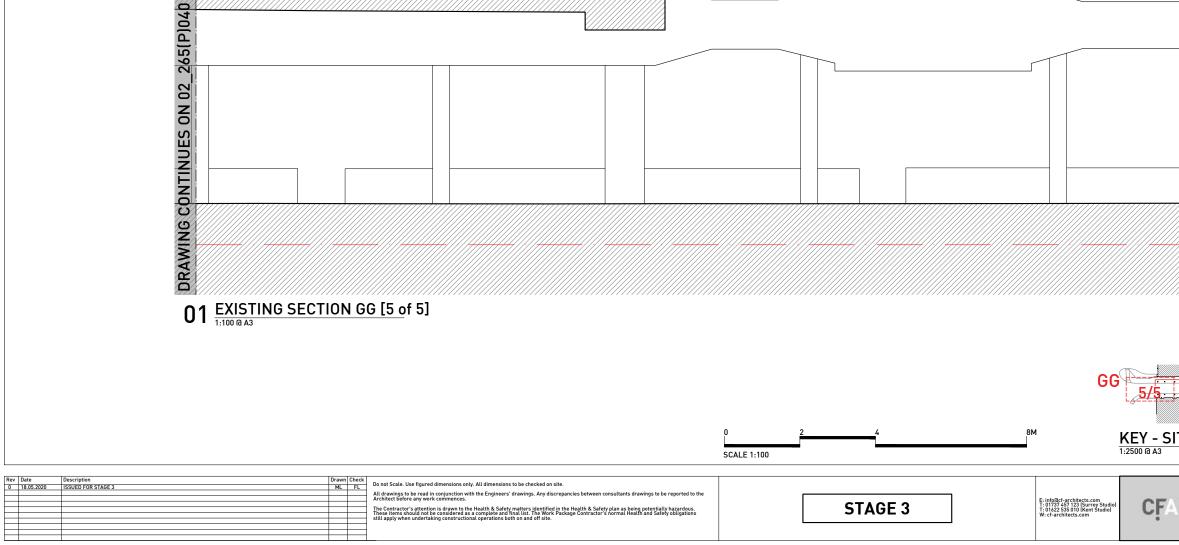


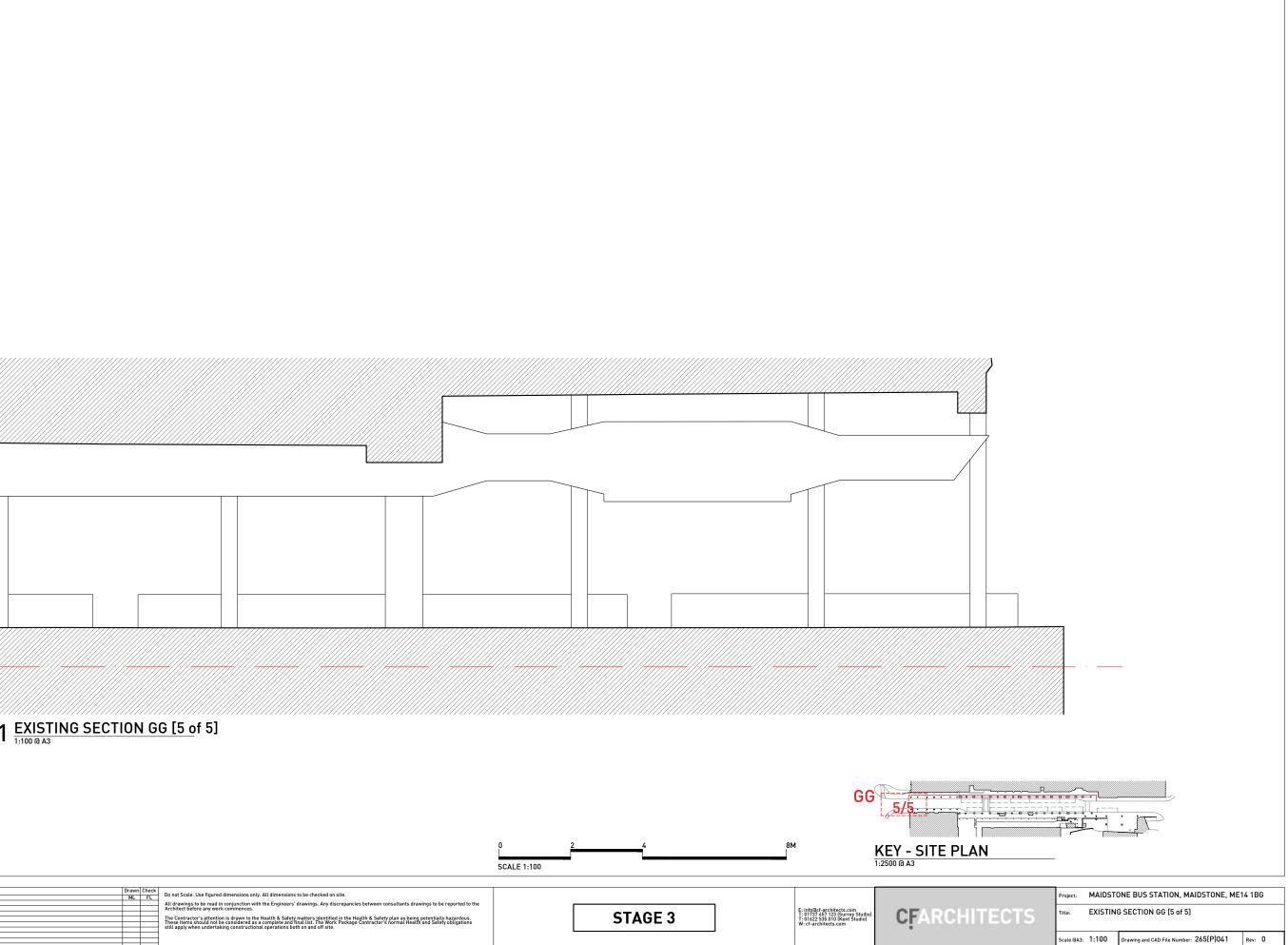


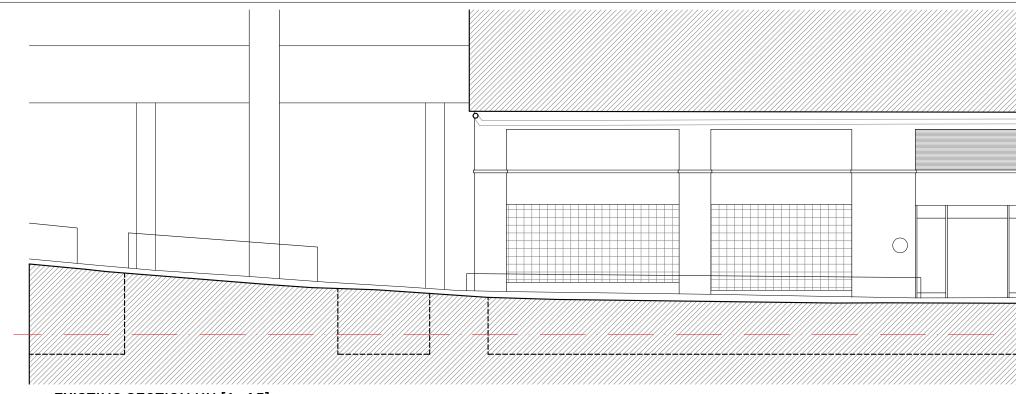




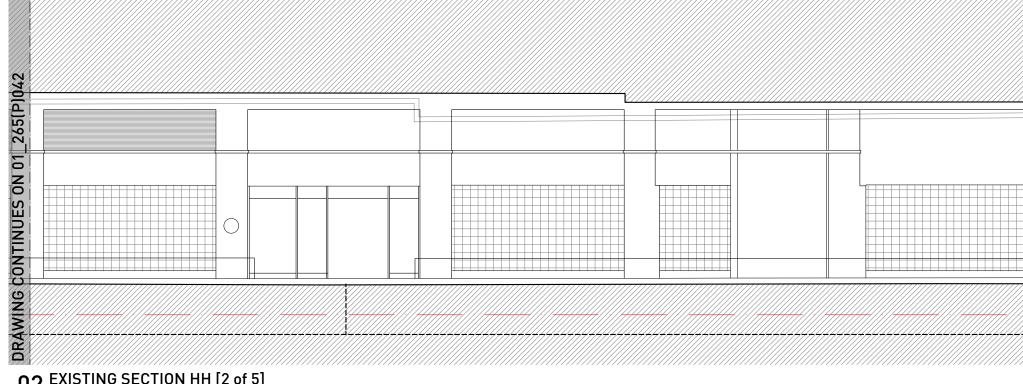
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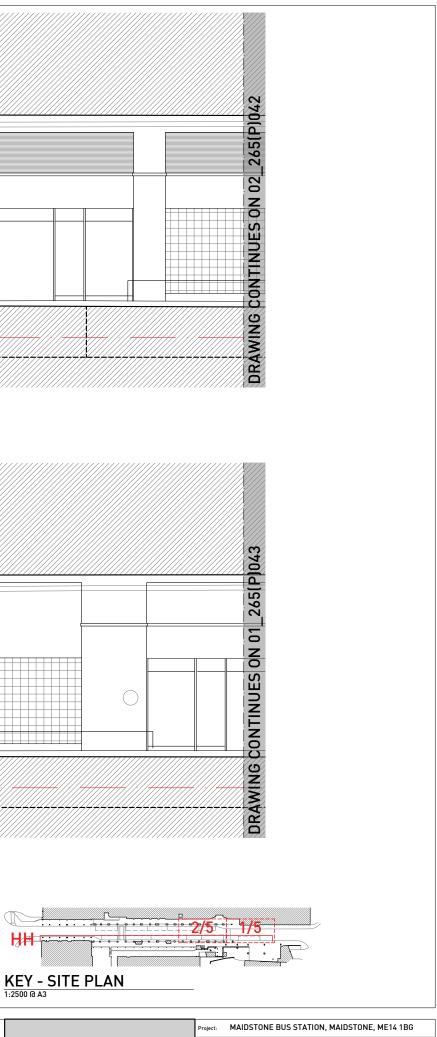






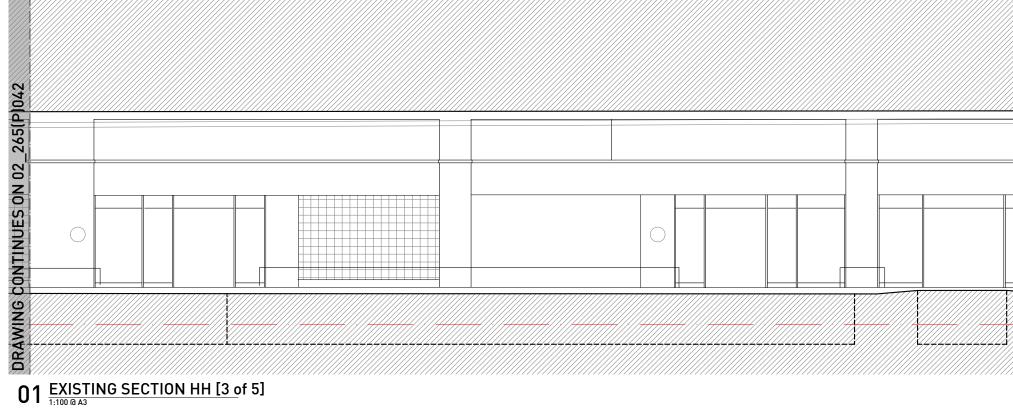






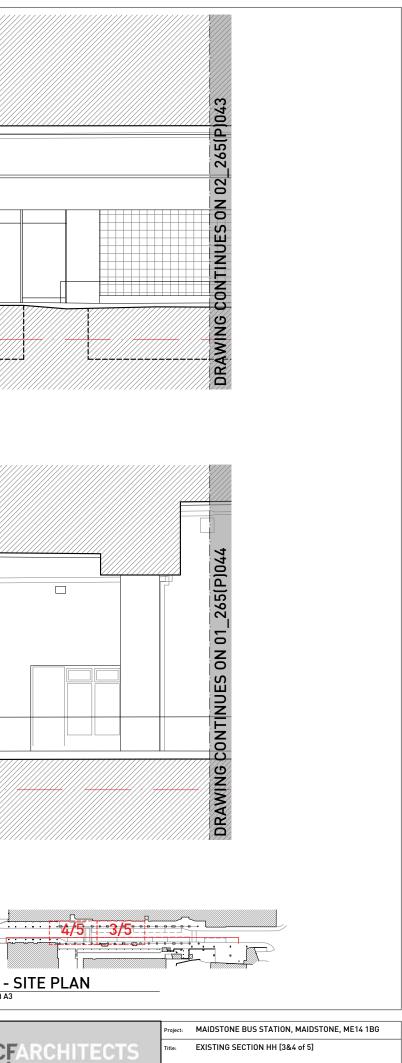
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EXISTING SECTION HH [1&2 of 5]





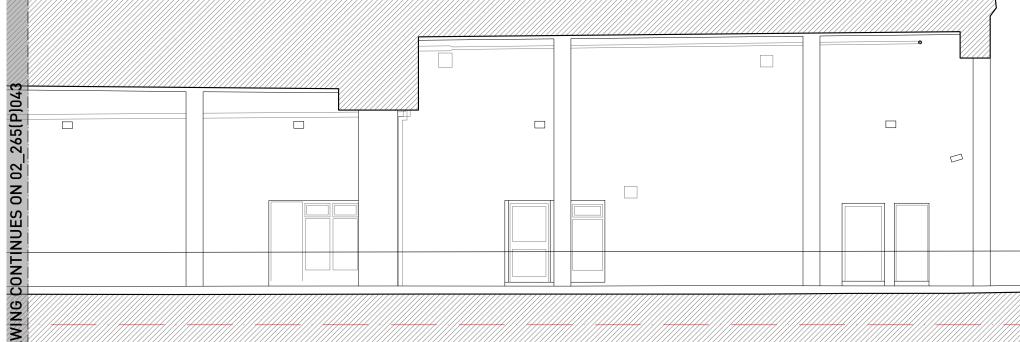
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EXISTING SECTION HH [3&4 of 5] Drawing and CAD File Number: 265(P)043 Rev: 0 ale @A3: 1:100

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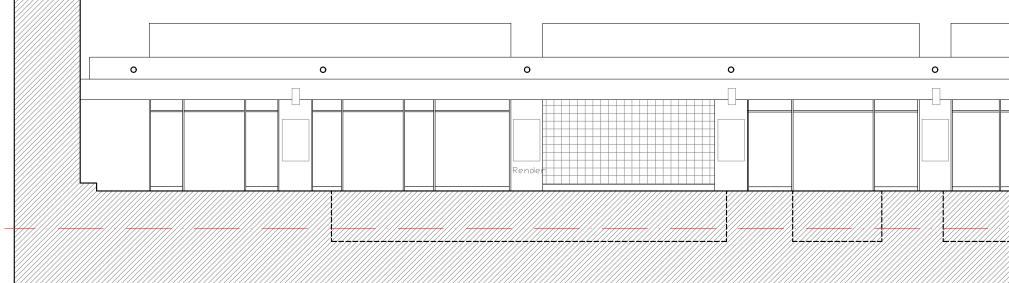
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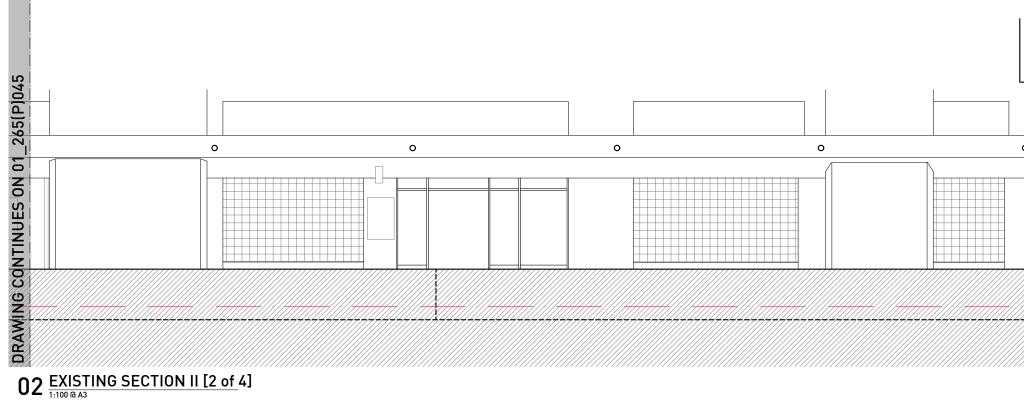
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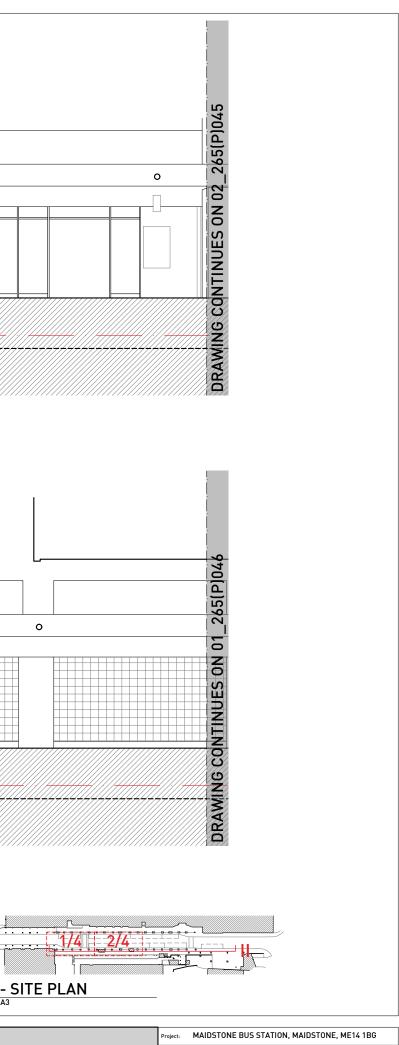
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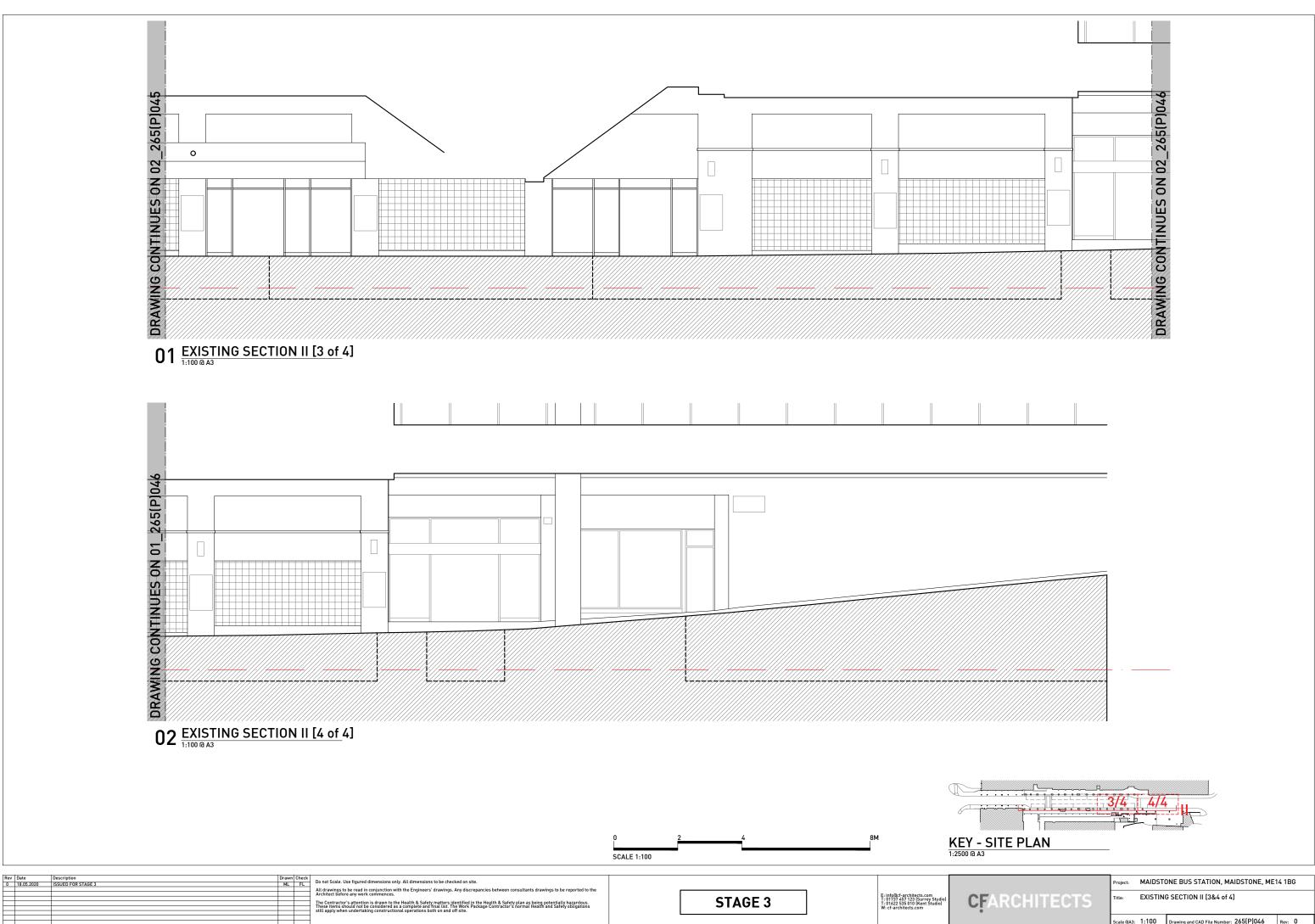




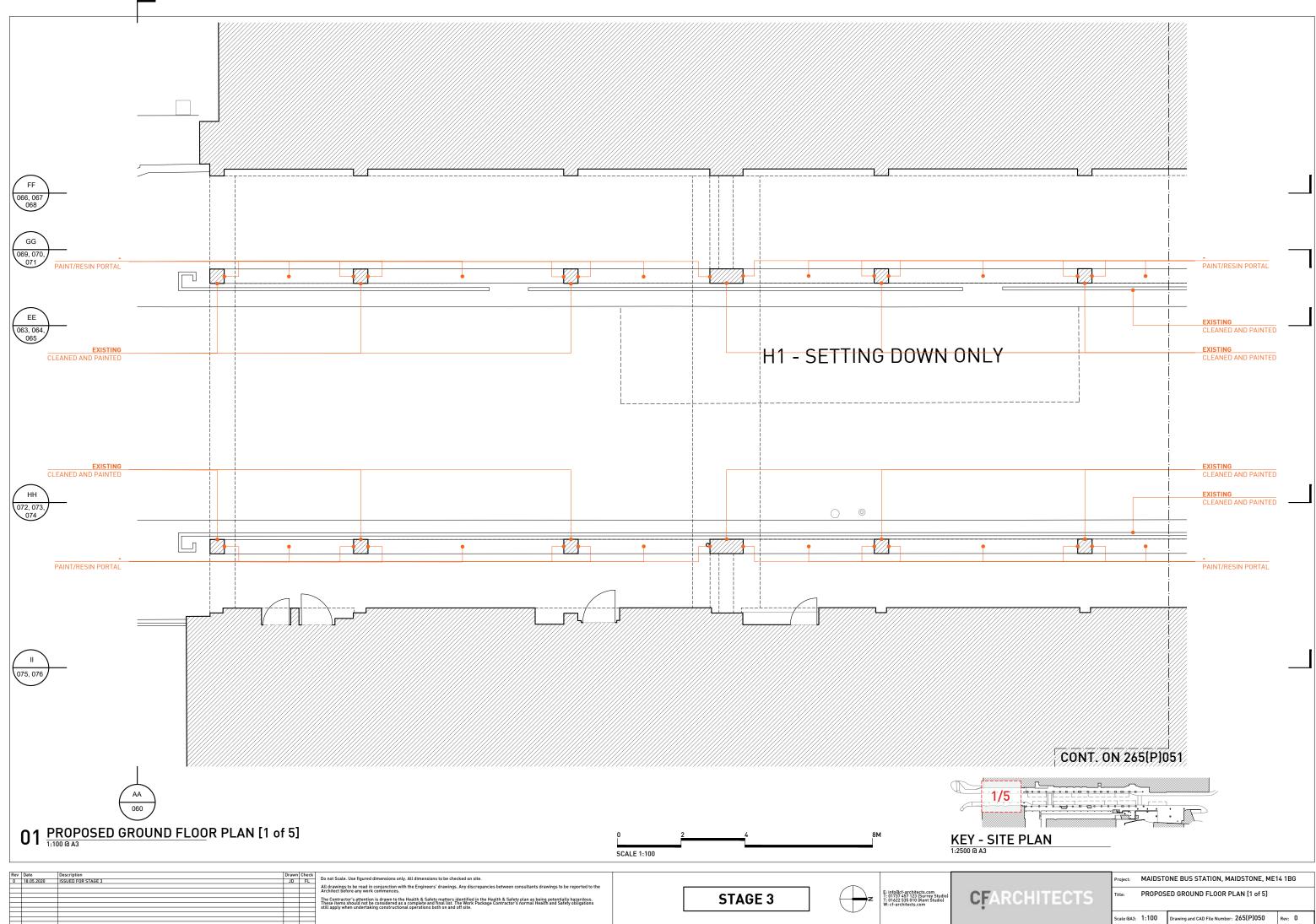
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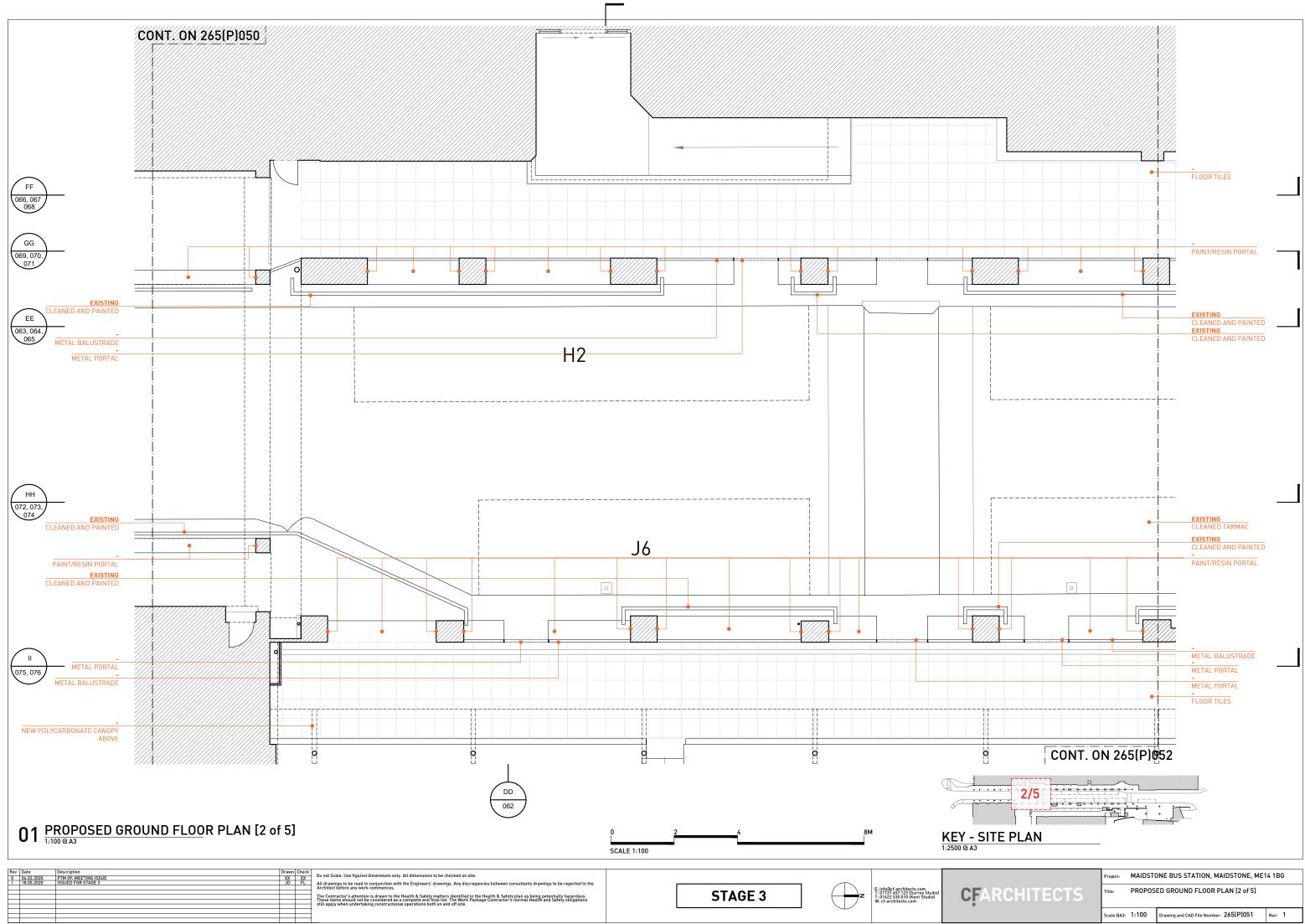


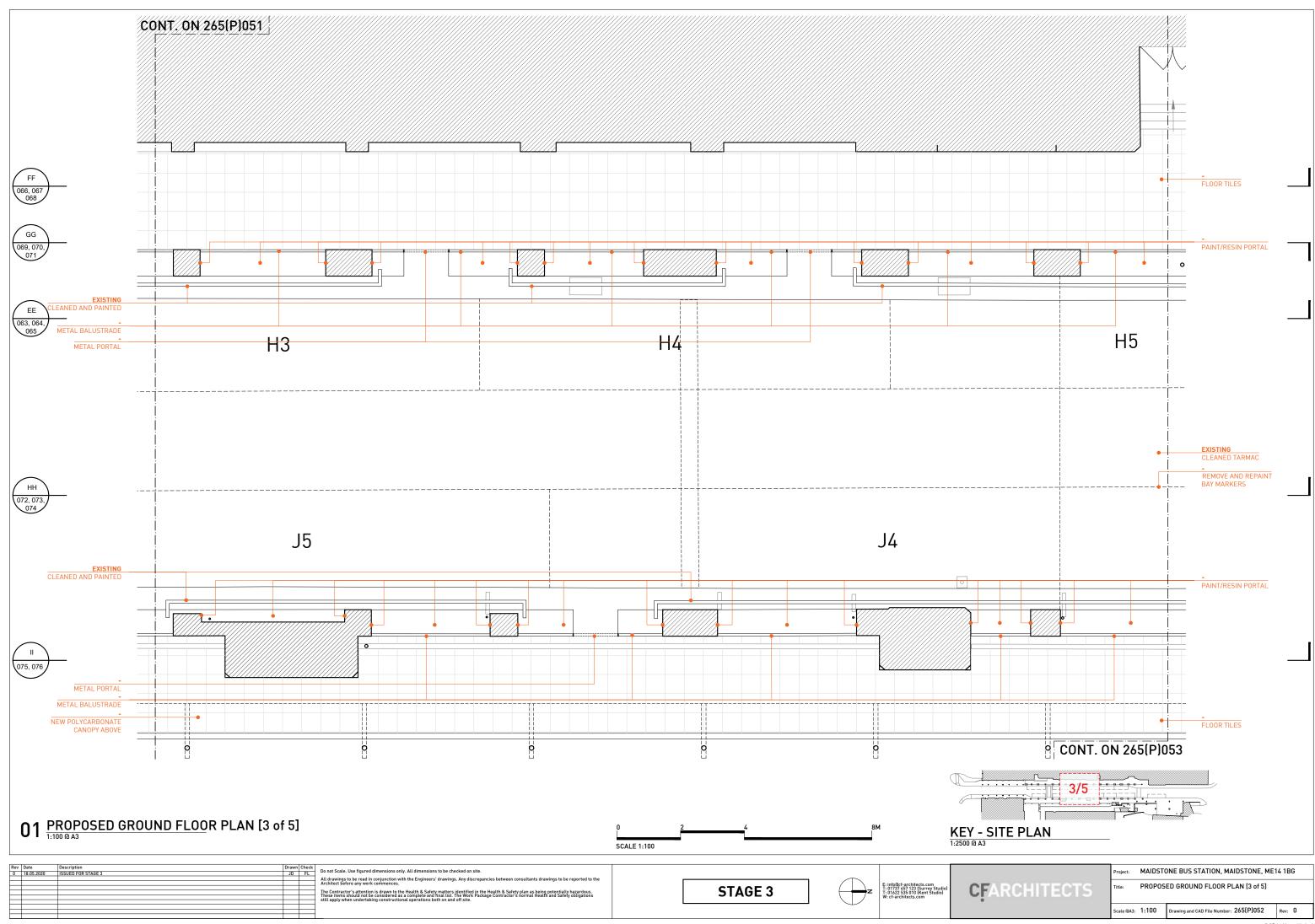
Title: EXISTING SECTION II [1&2 of 4]

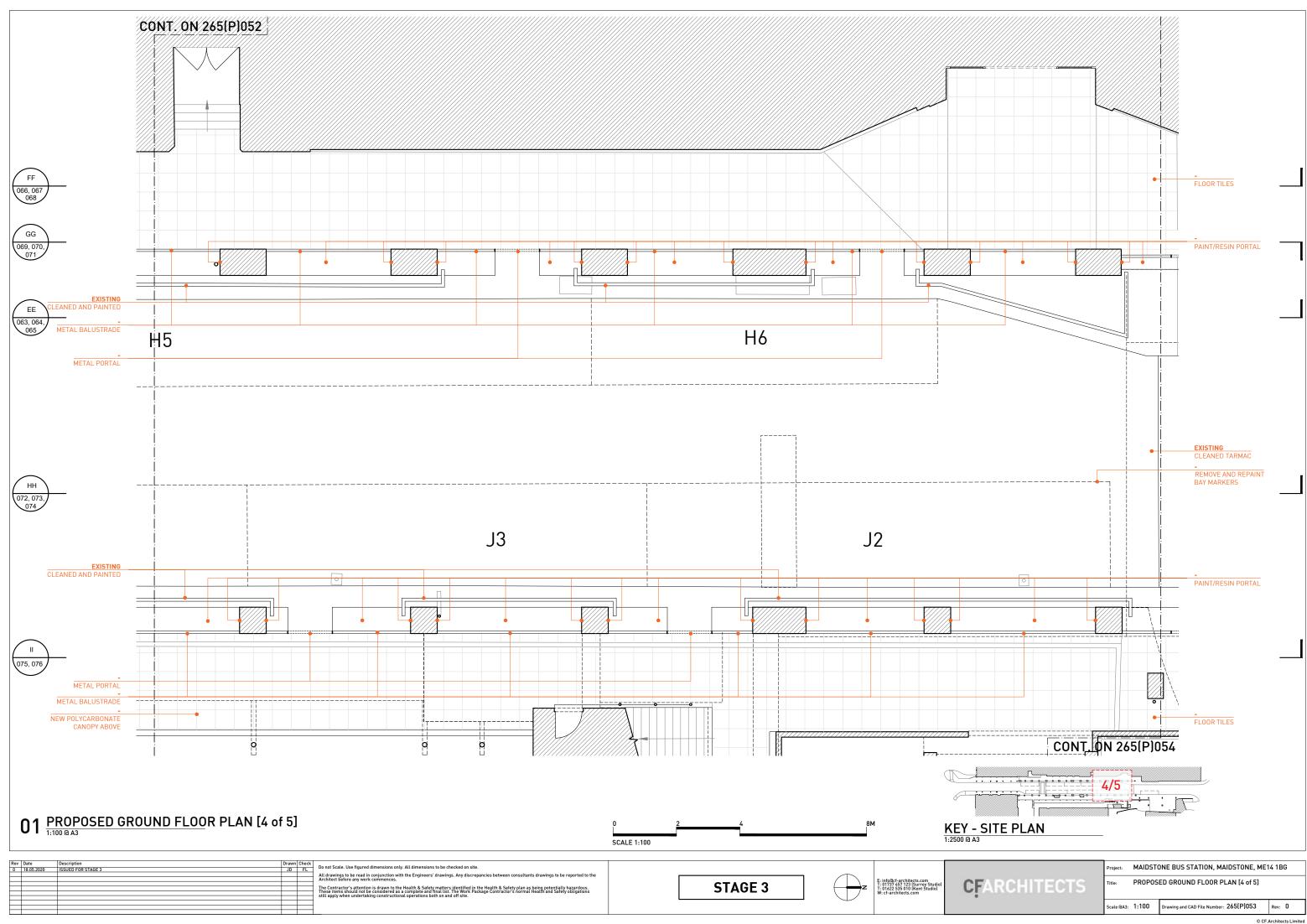


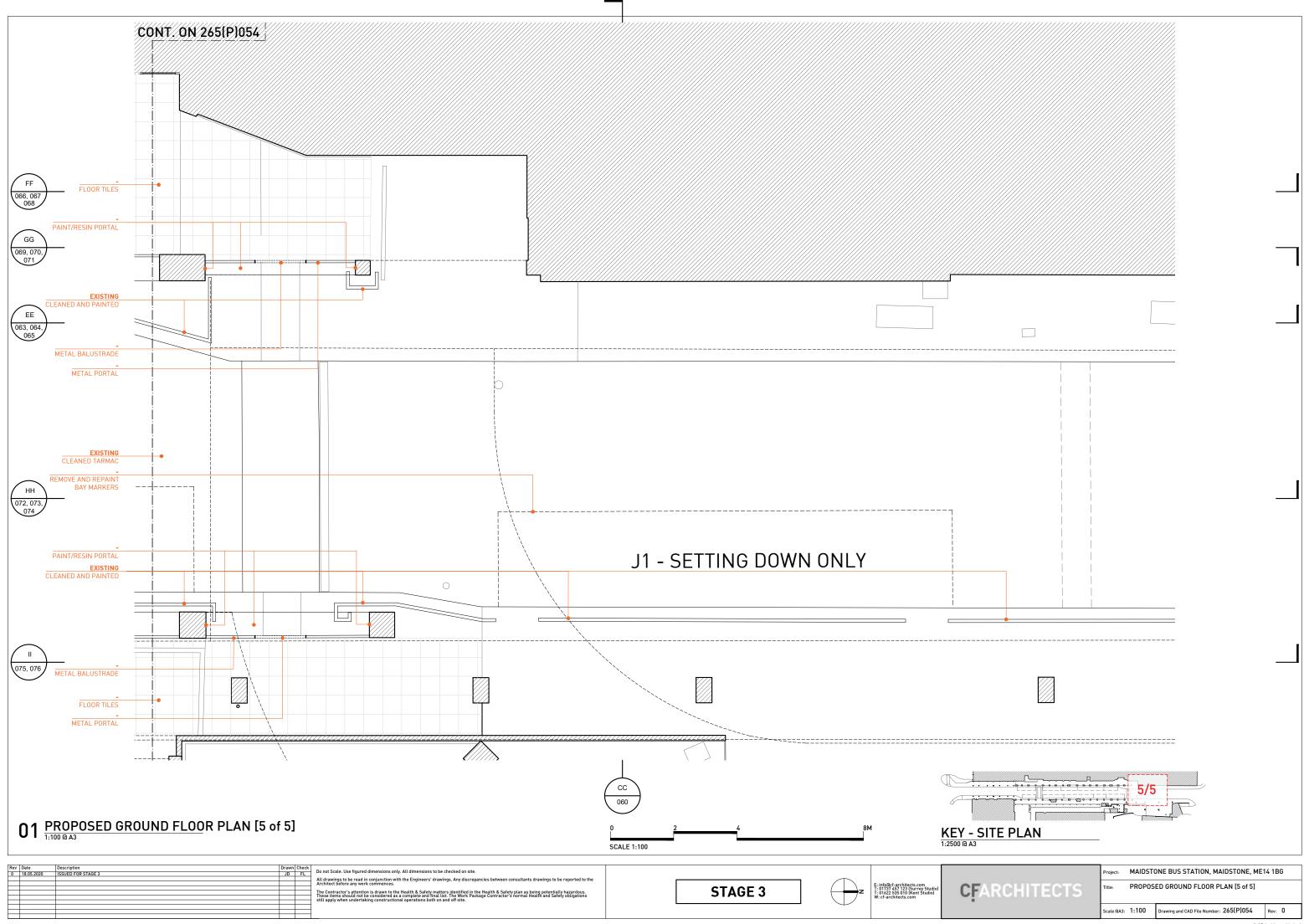
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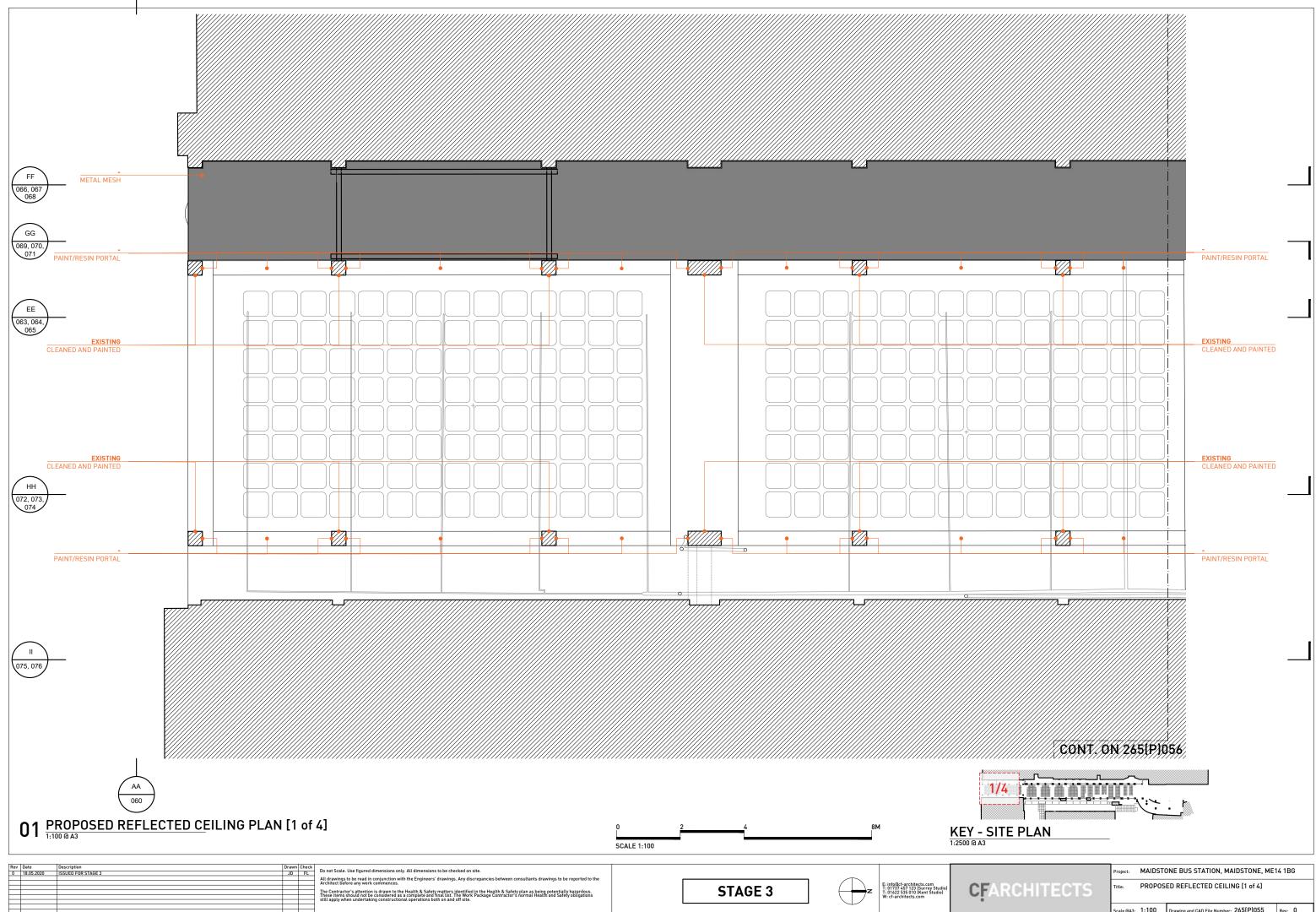




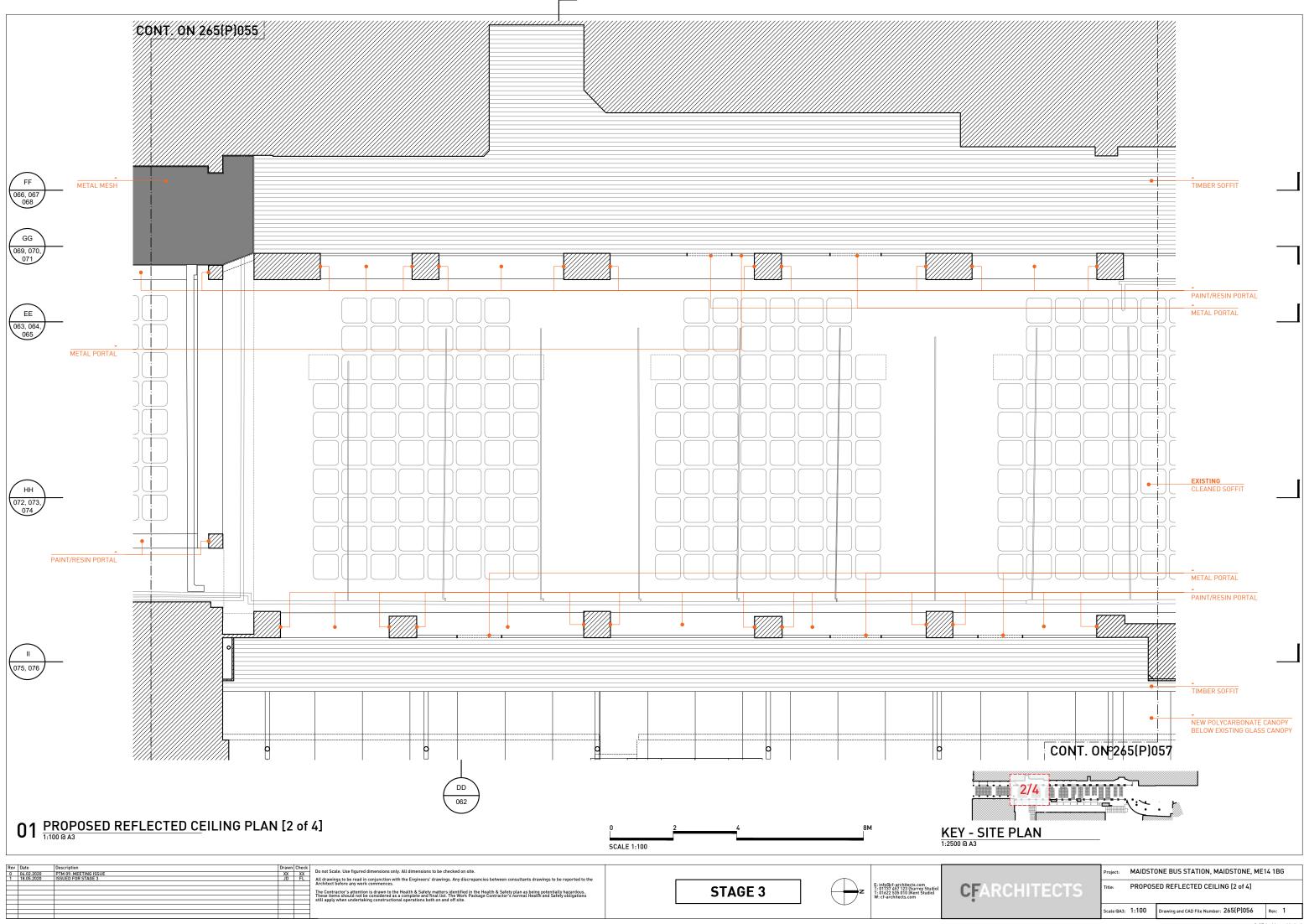


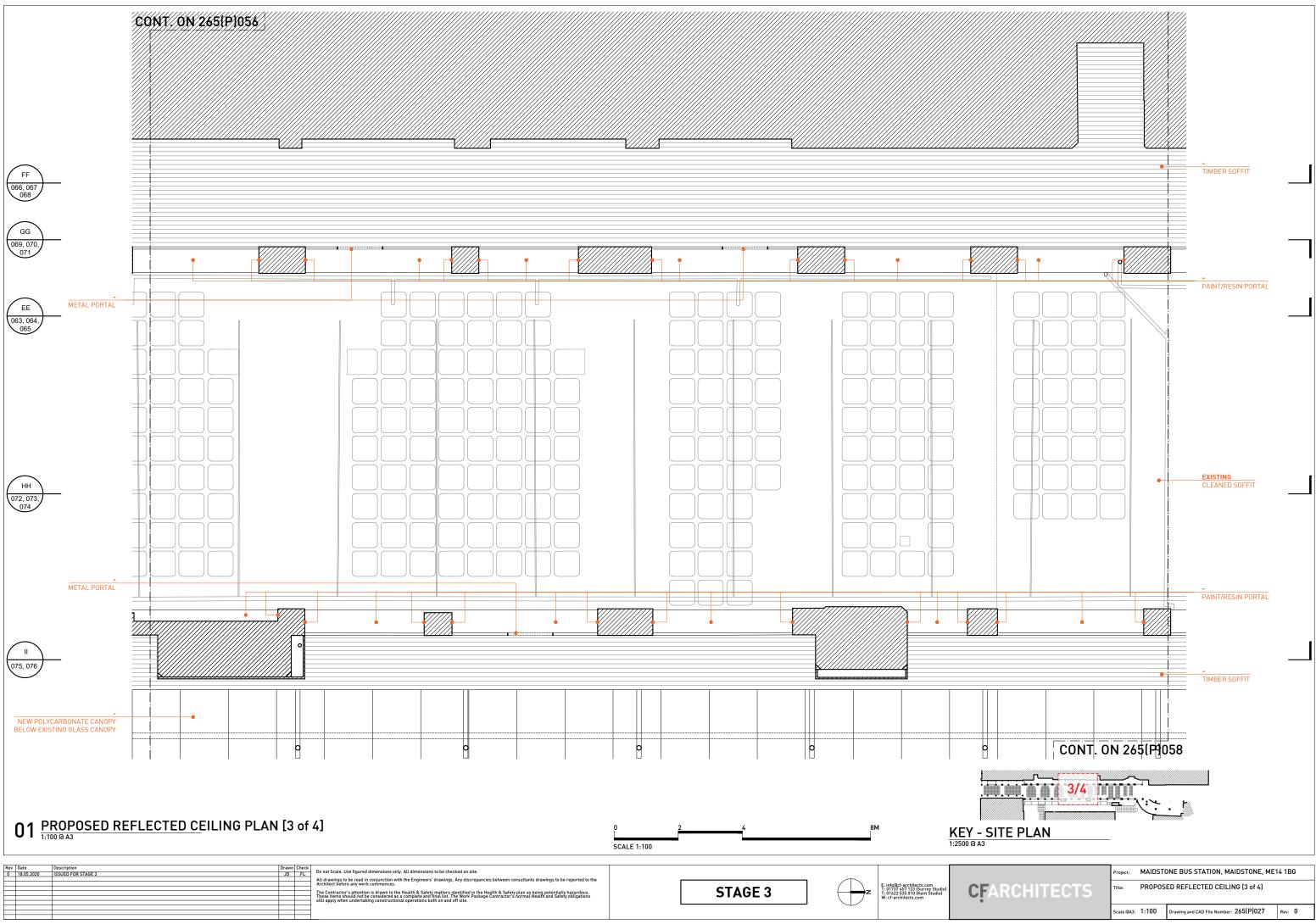




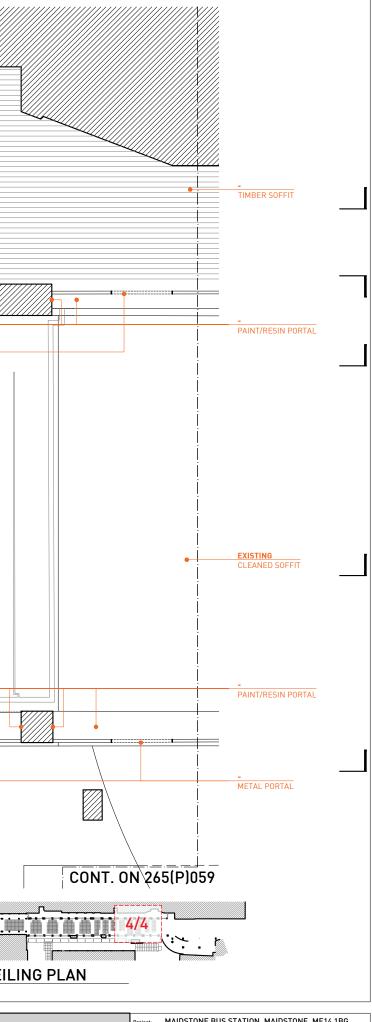


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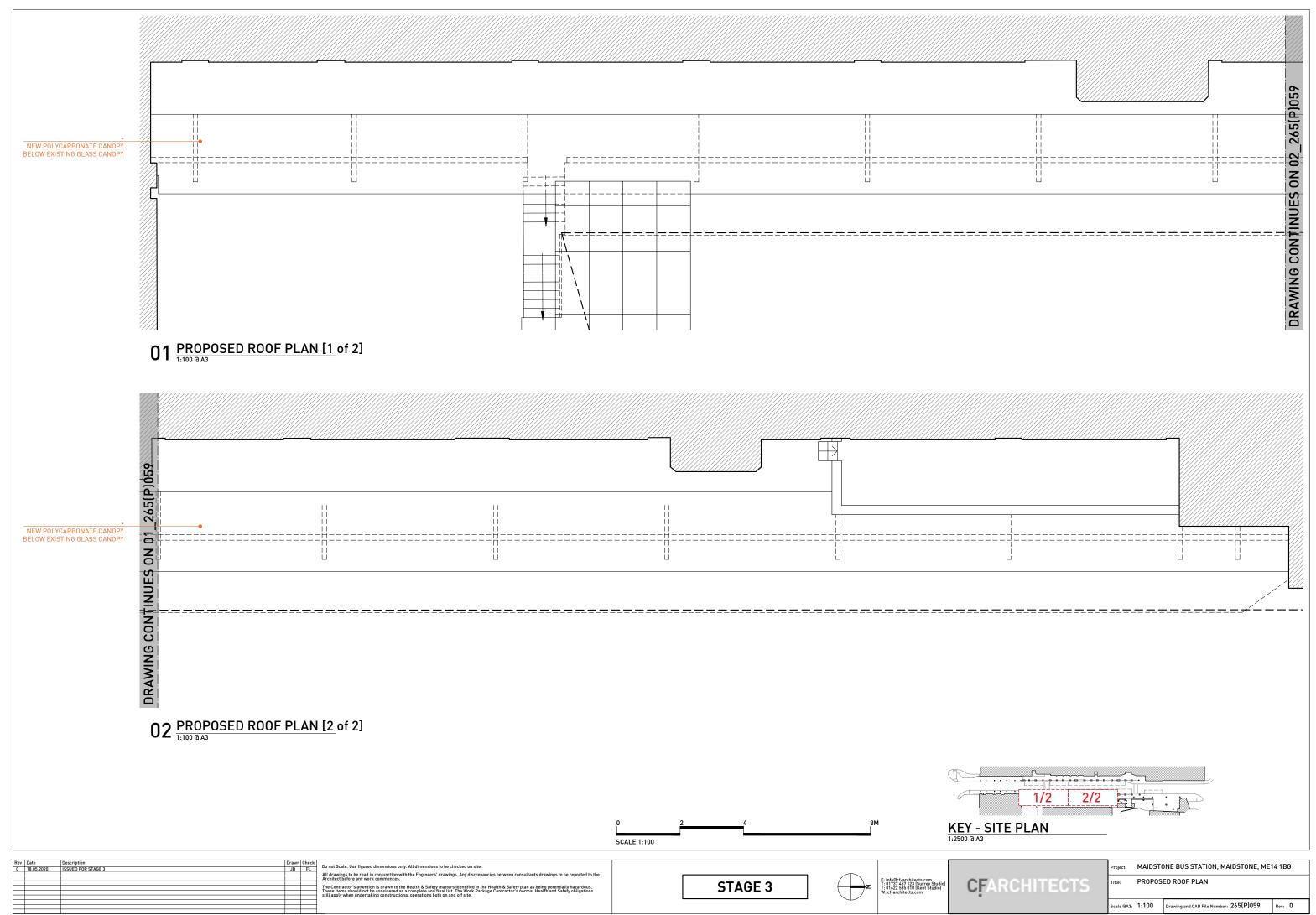




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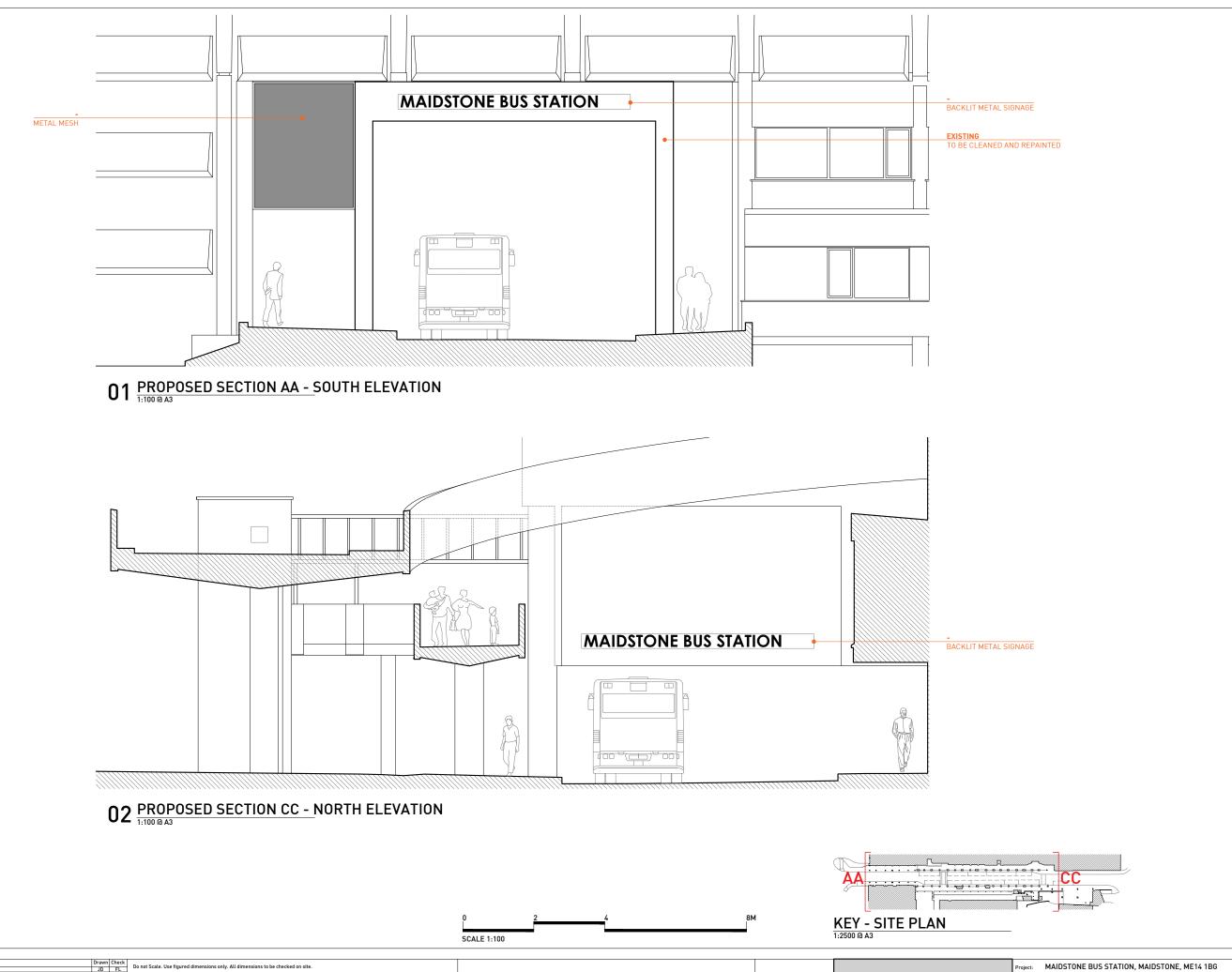


	Project:	MAIDSTUNE BUS STATION, MAIDSTUNE, META TBG							
TS	Title:	PROPOSED REFLECTED CEILING [4 of 4]							
	Scale @A3:	1:100	Drawing and CAD File Number: 265(P)058	Rev: 0					



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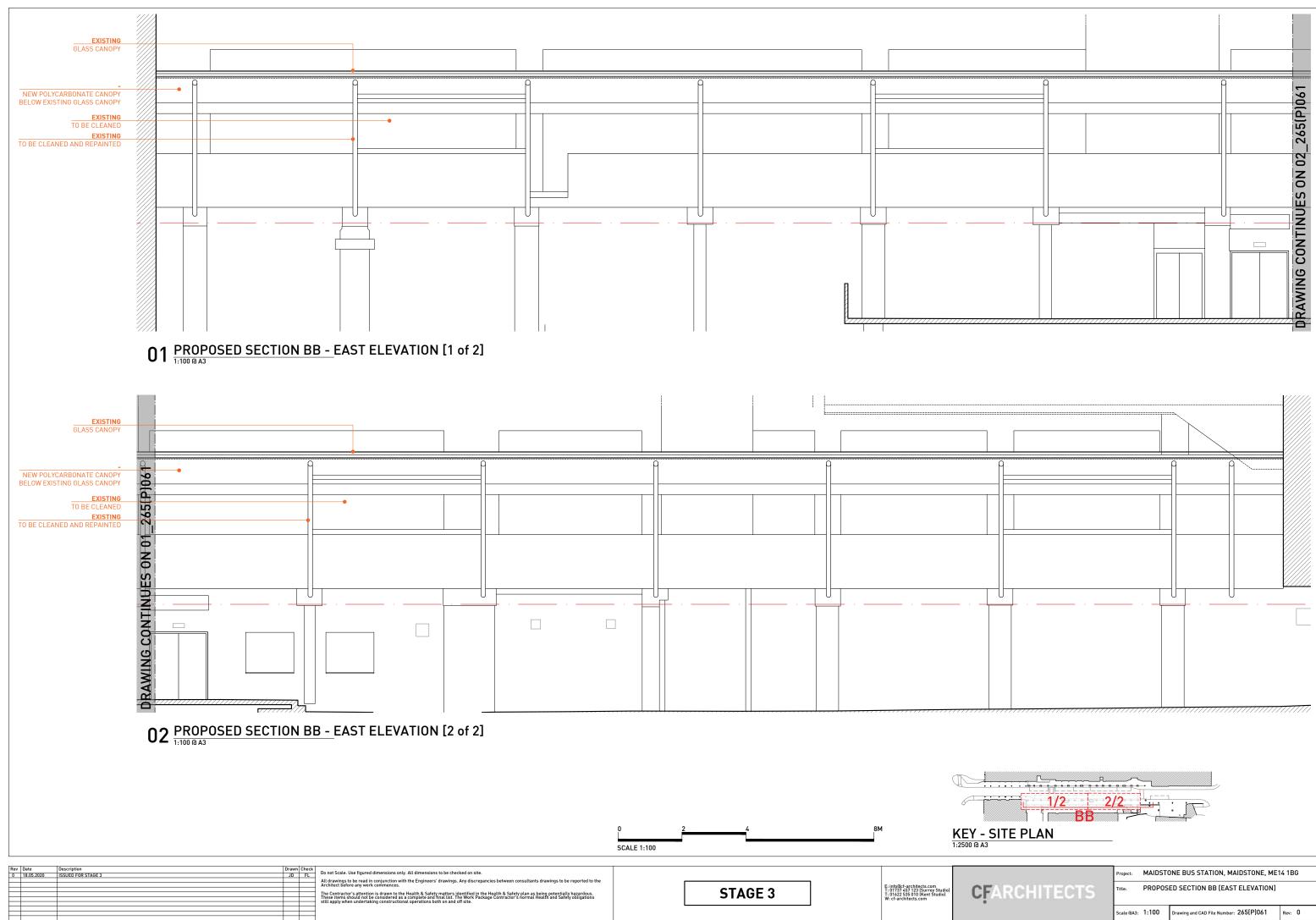
	U I 1:100 @ A3		
			MAIDSTONE BUS STATION
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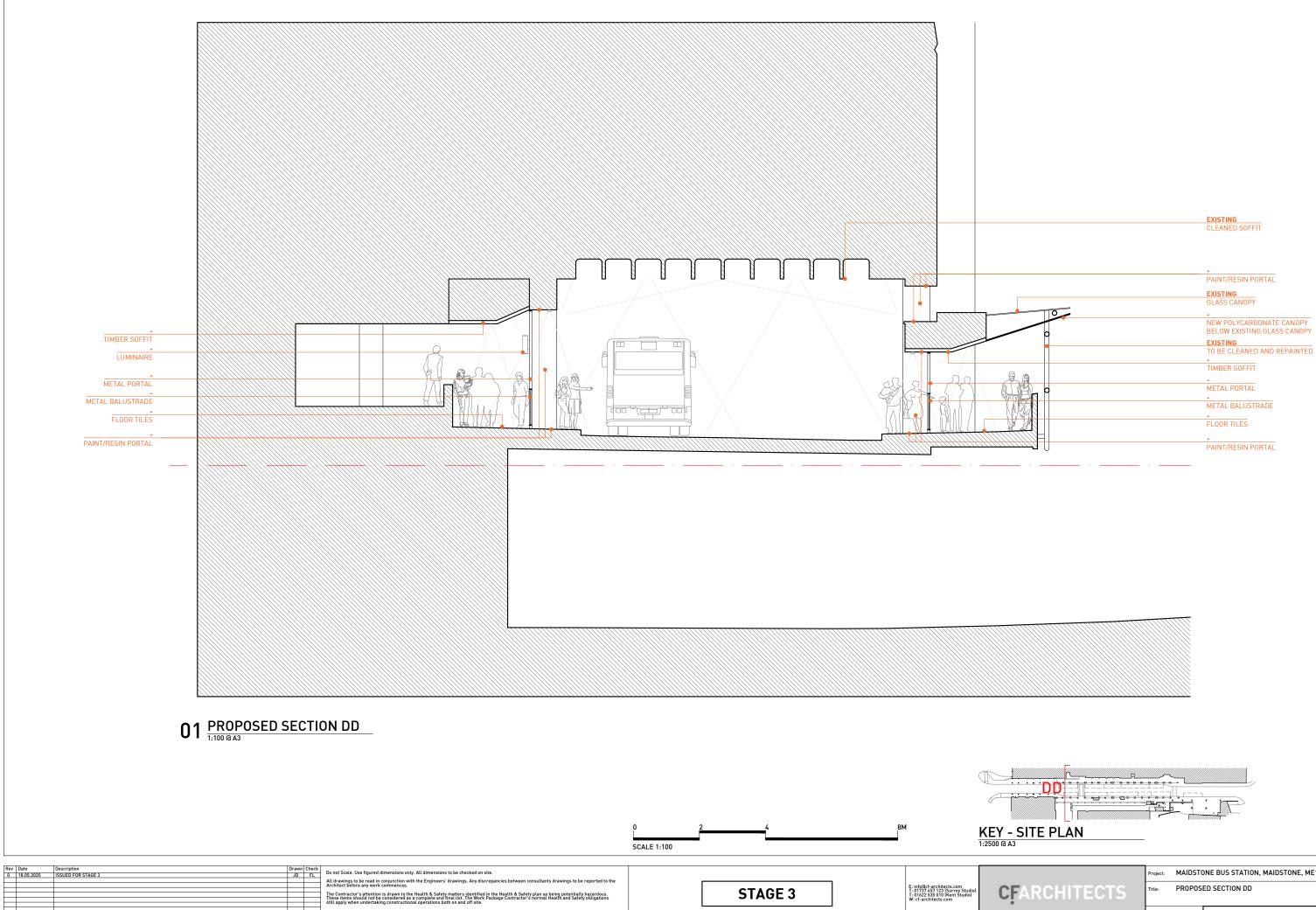


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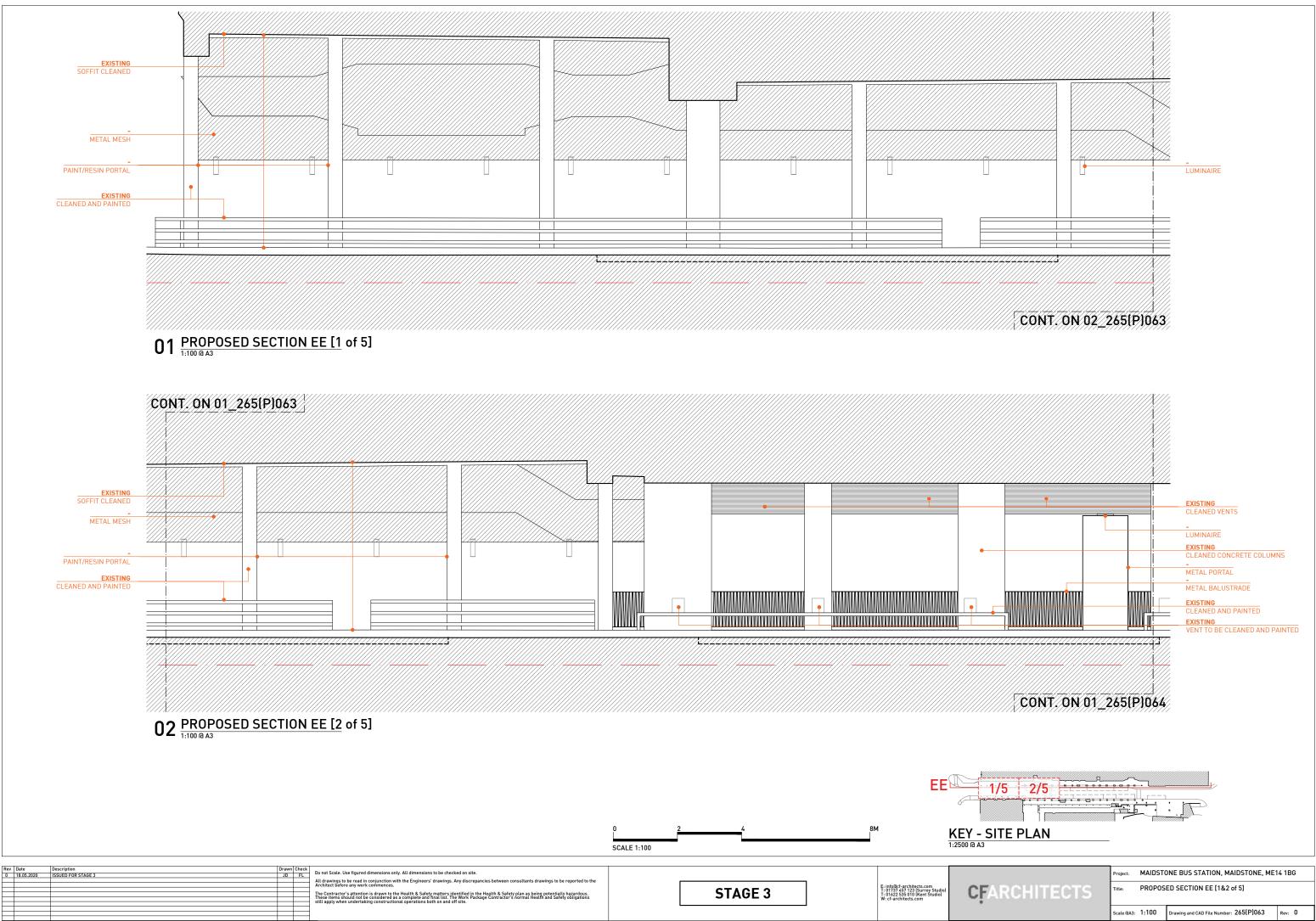
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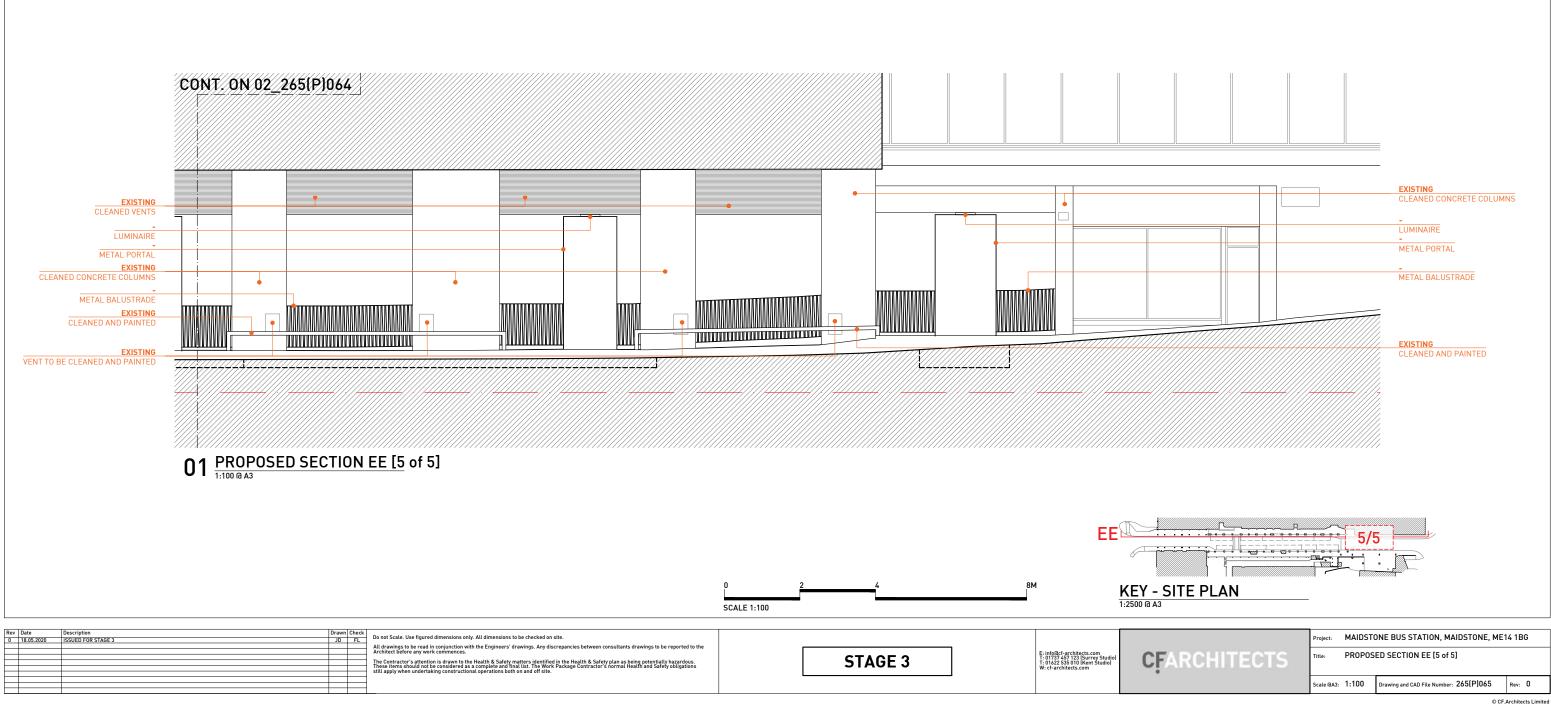


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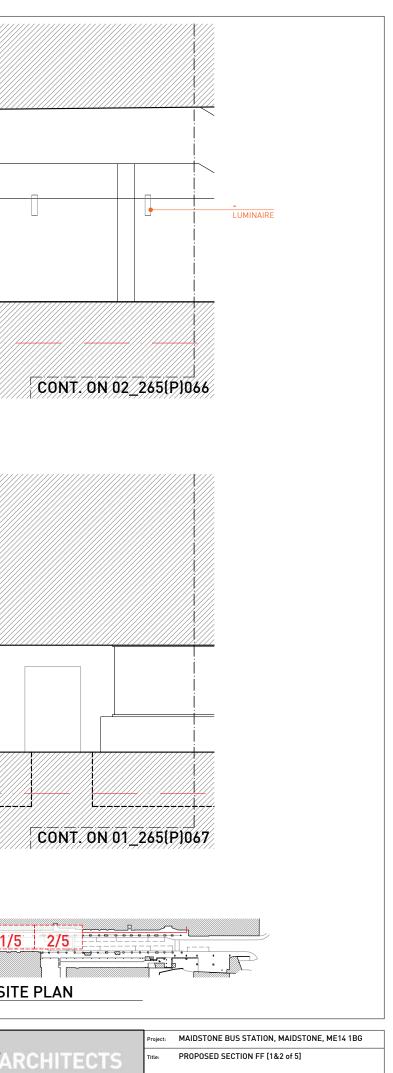




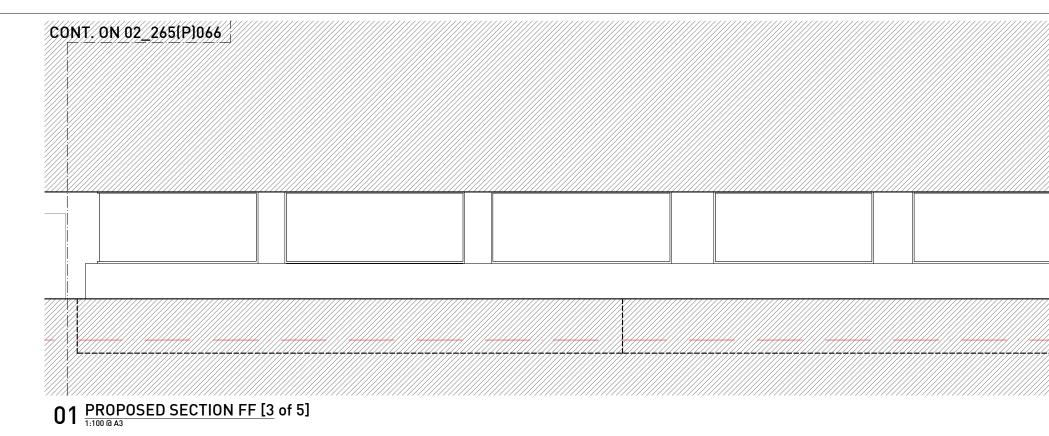
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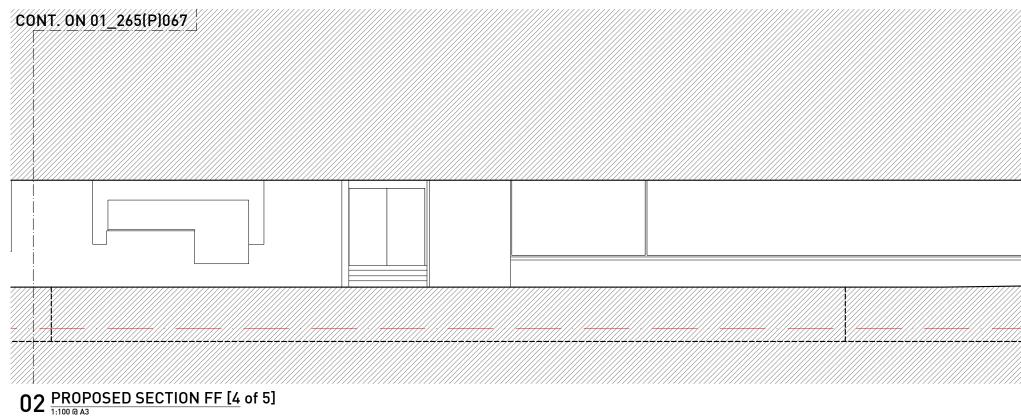


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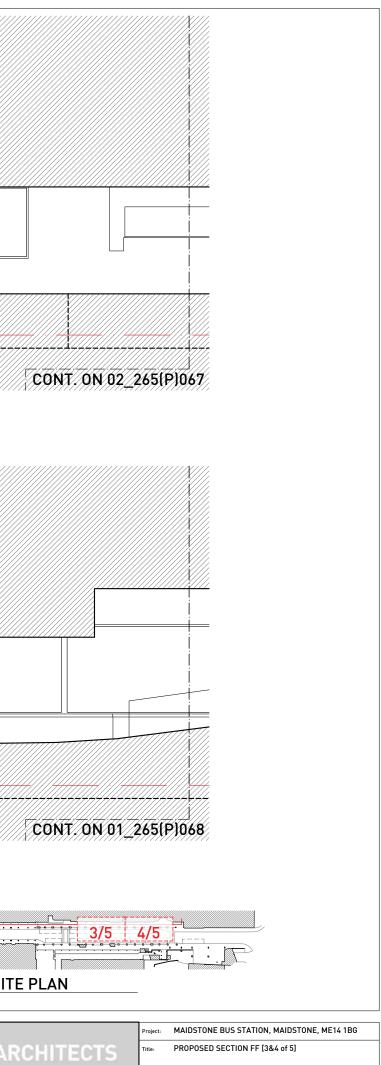


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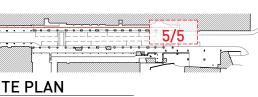
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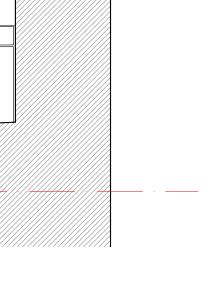


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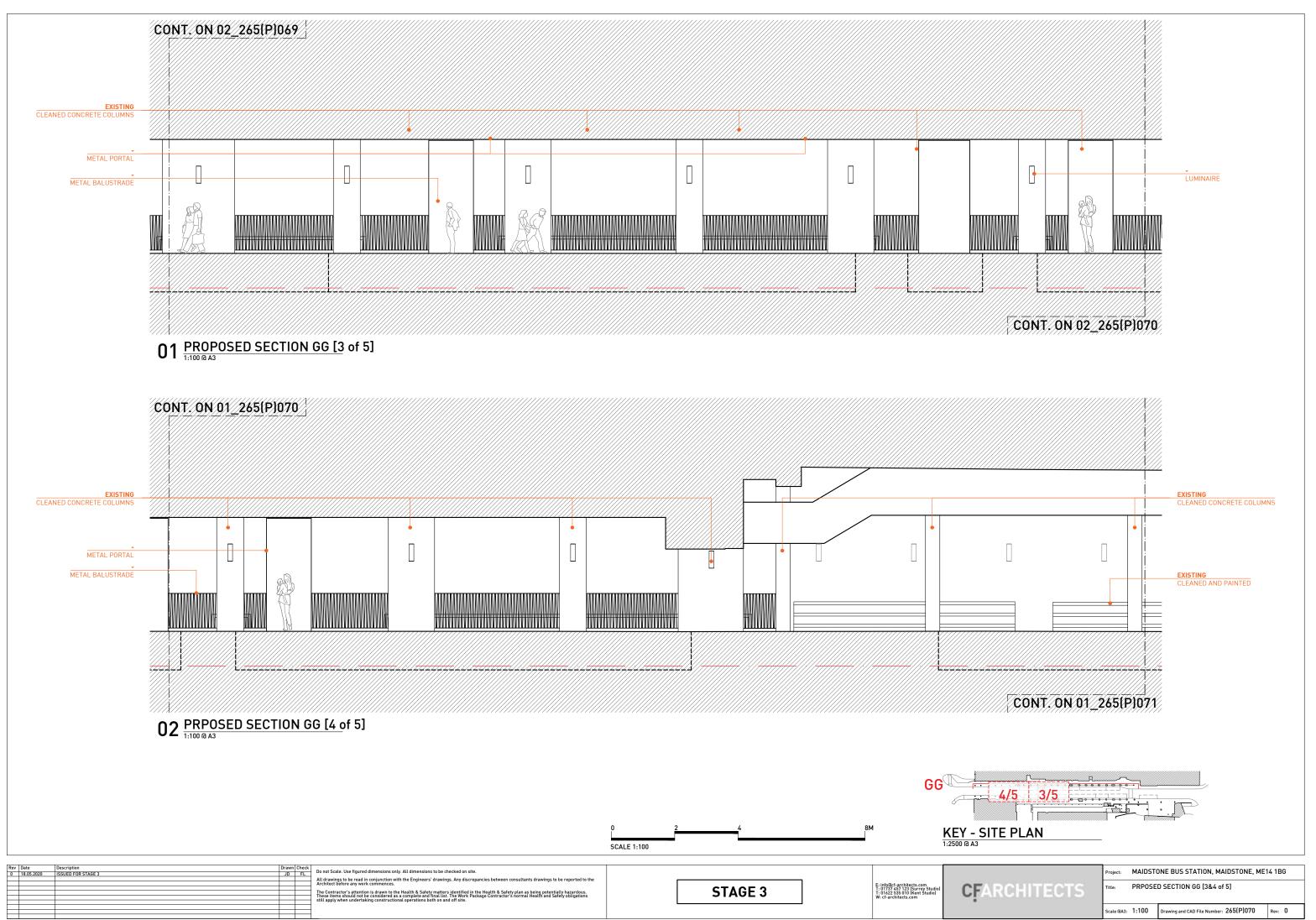




Project: MAIDSTONE BUS STATION, MAIDSTONE, ME14 1BG PROPOSED SECTION FF [5 of 5]

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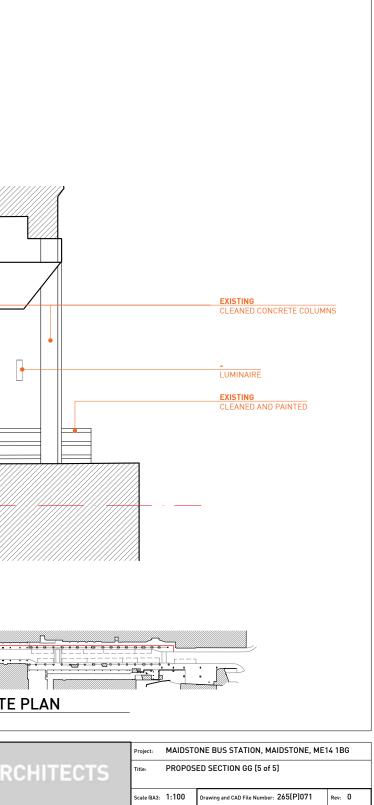


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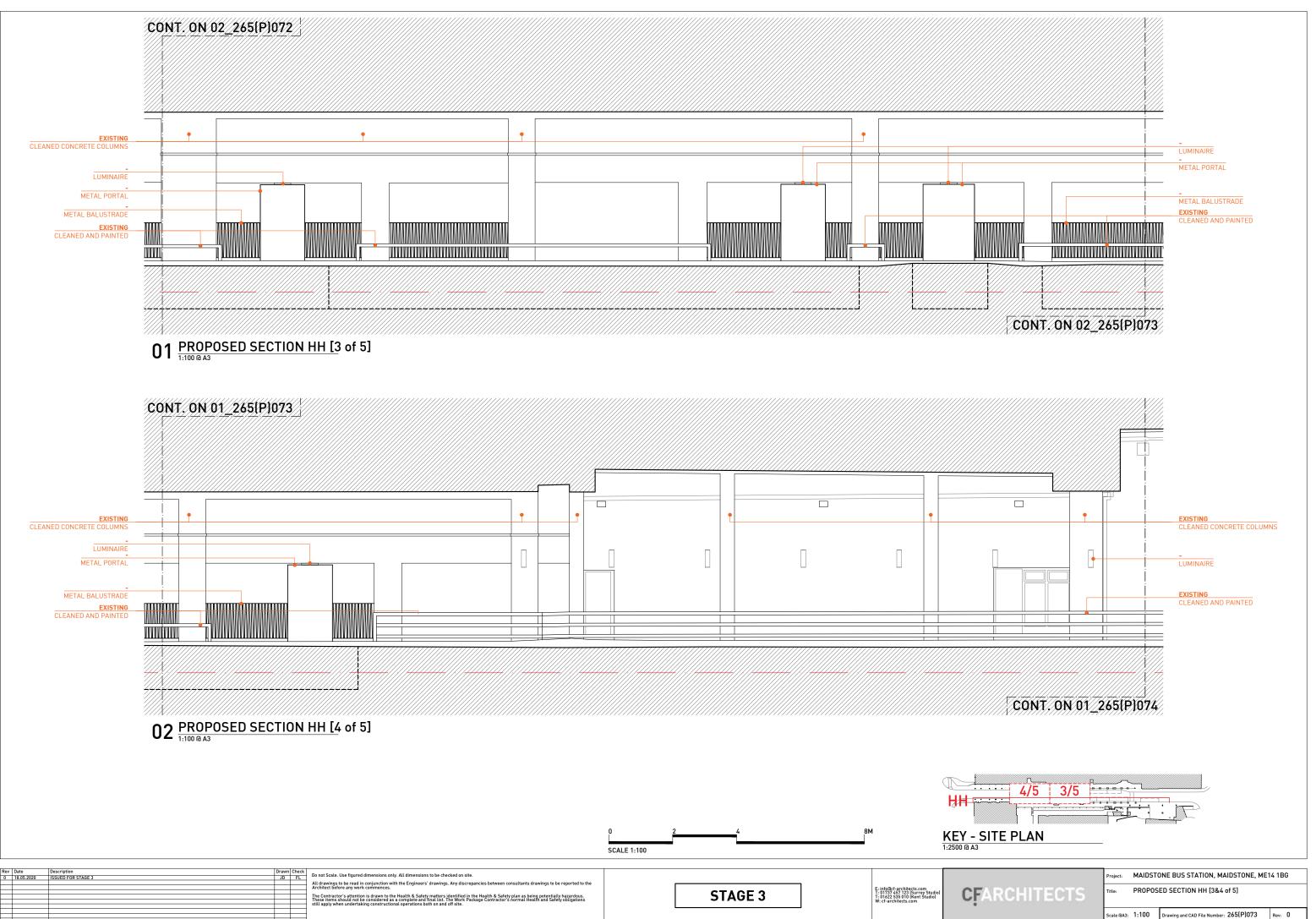
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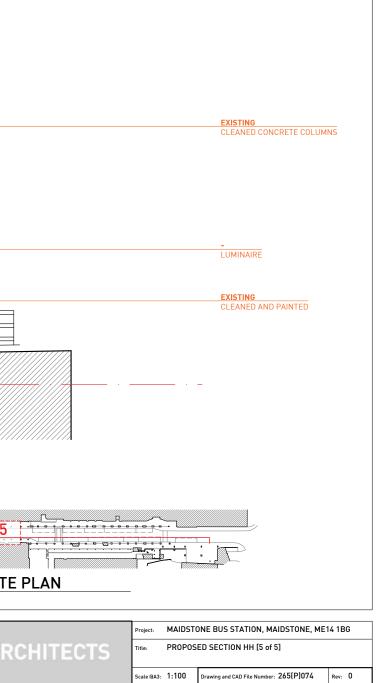




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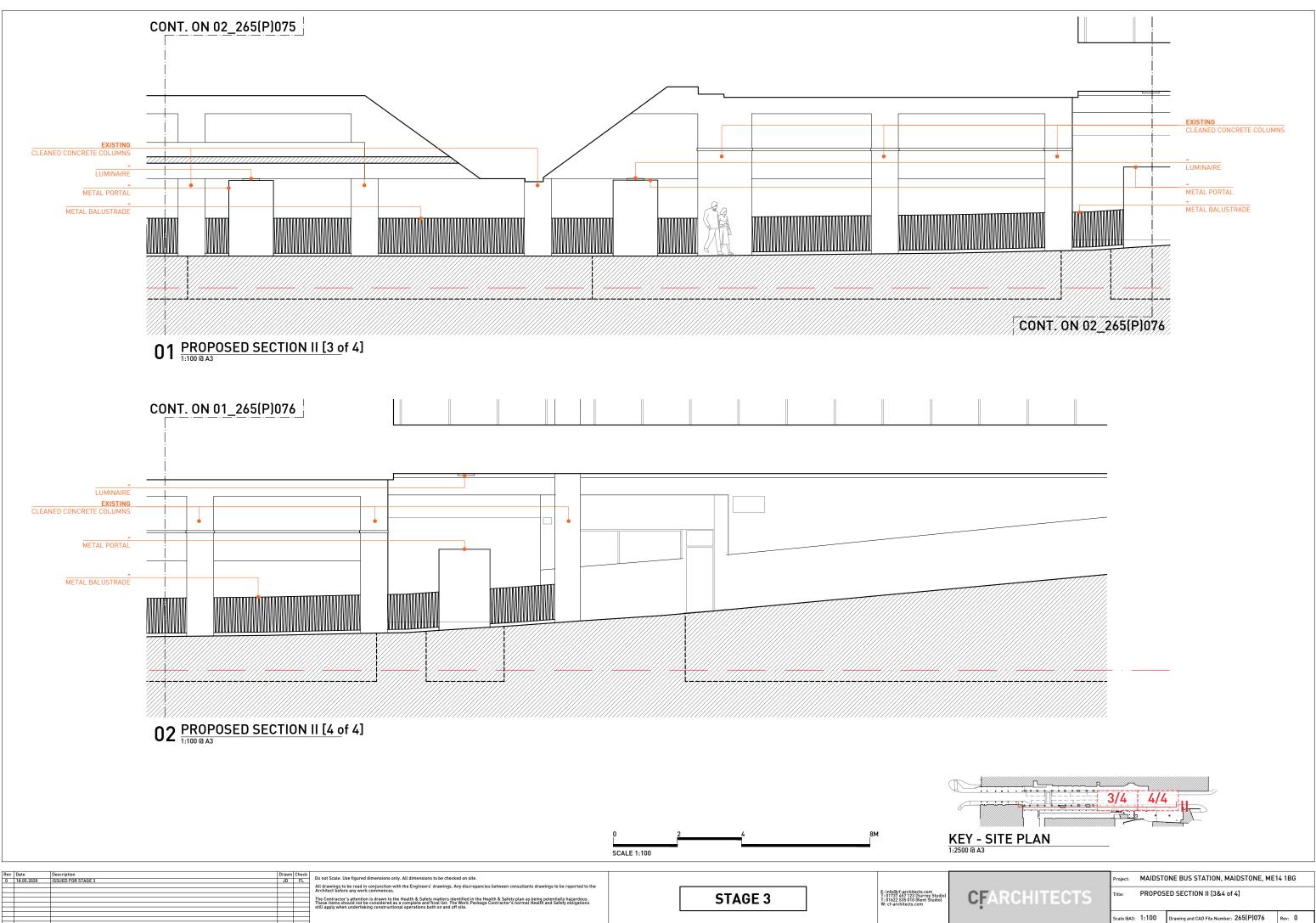
EXISTING CLEANED CONCRETE COLUMNS



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12.0 Lighting Design Drawings

statutory regulations and codes of practice as applicable in the relevant country.

The reference by each symbol refers to the specific luminaire type (please refer to lighting equipment schedules

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Please do not scale from this drawing. All drawings are to be read in conjunction with all other relevant integrated light project documents.

(please refer to lighting control channel schedules for further details).

All works are to be executed in accordance with such standards, building and IEE regulations, mandatory and

and specifications for further details).

The numeric code assigned to each symbol (where applicable) refers to a logical control channel reference

If this drawing is to be issued to Contractors, it shall specifically be for INFORMATION ONLY. Note that

Architect's and Engineer's drawings must be used as the basis for Tender and Construction.

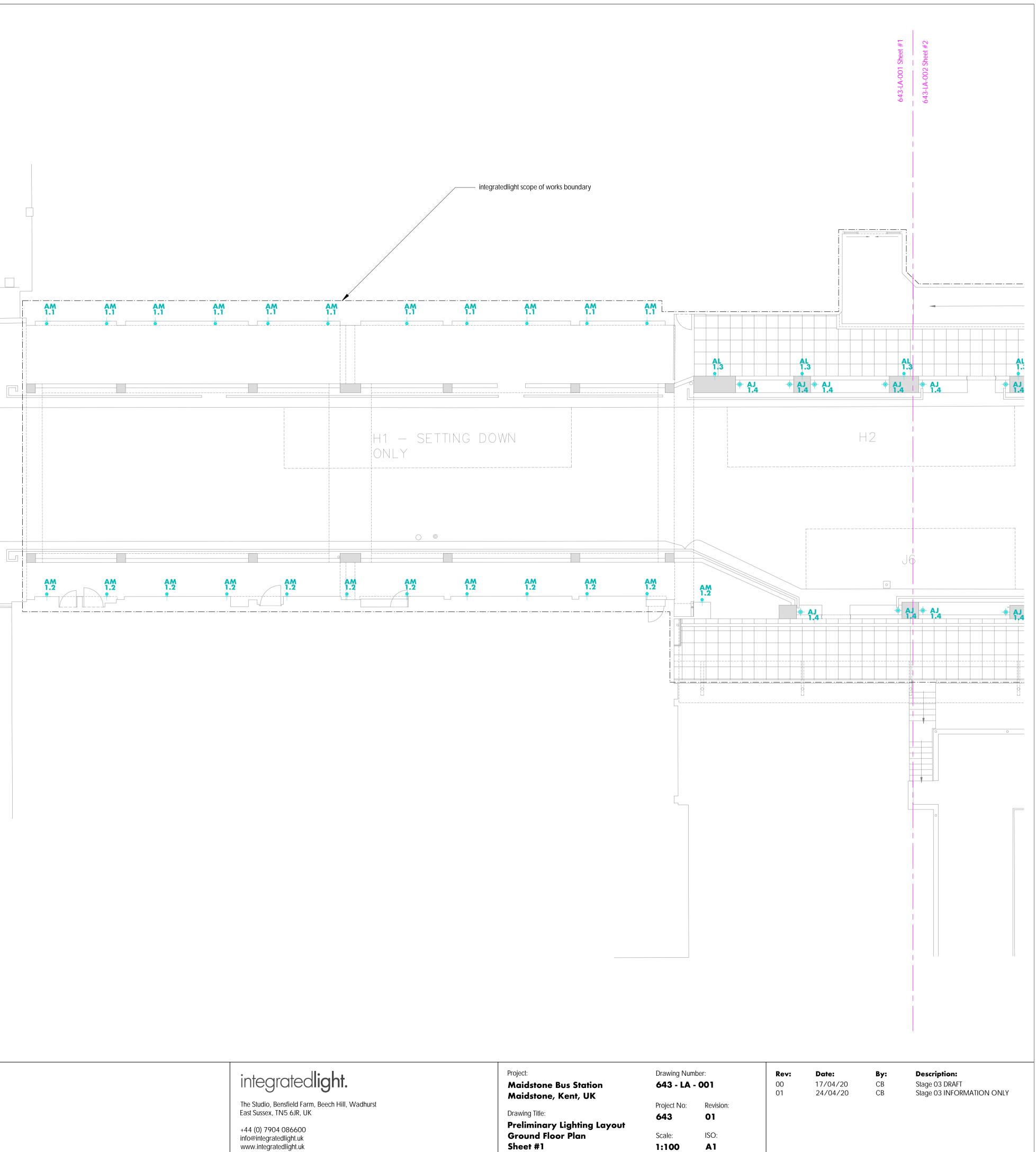
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Please refer to integratedlight project risk assessment document for associated risks under the CDM regulations (only where applicable).

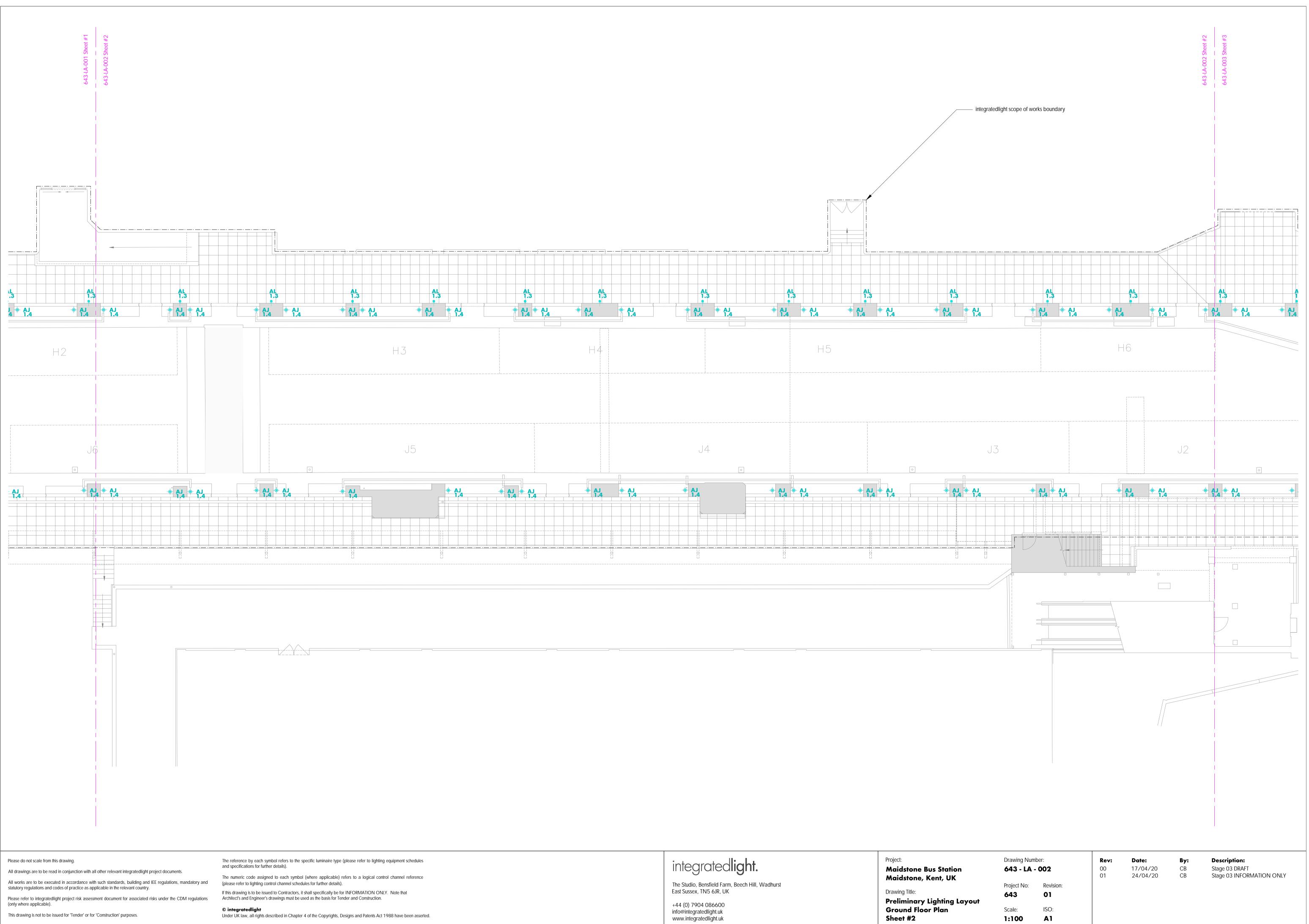


info@integratedlight.uk www.integratedlight.uk

Sheet #1

statutory regulations and codes of practice as applicable in the relevant country.

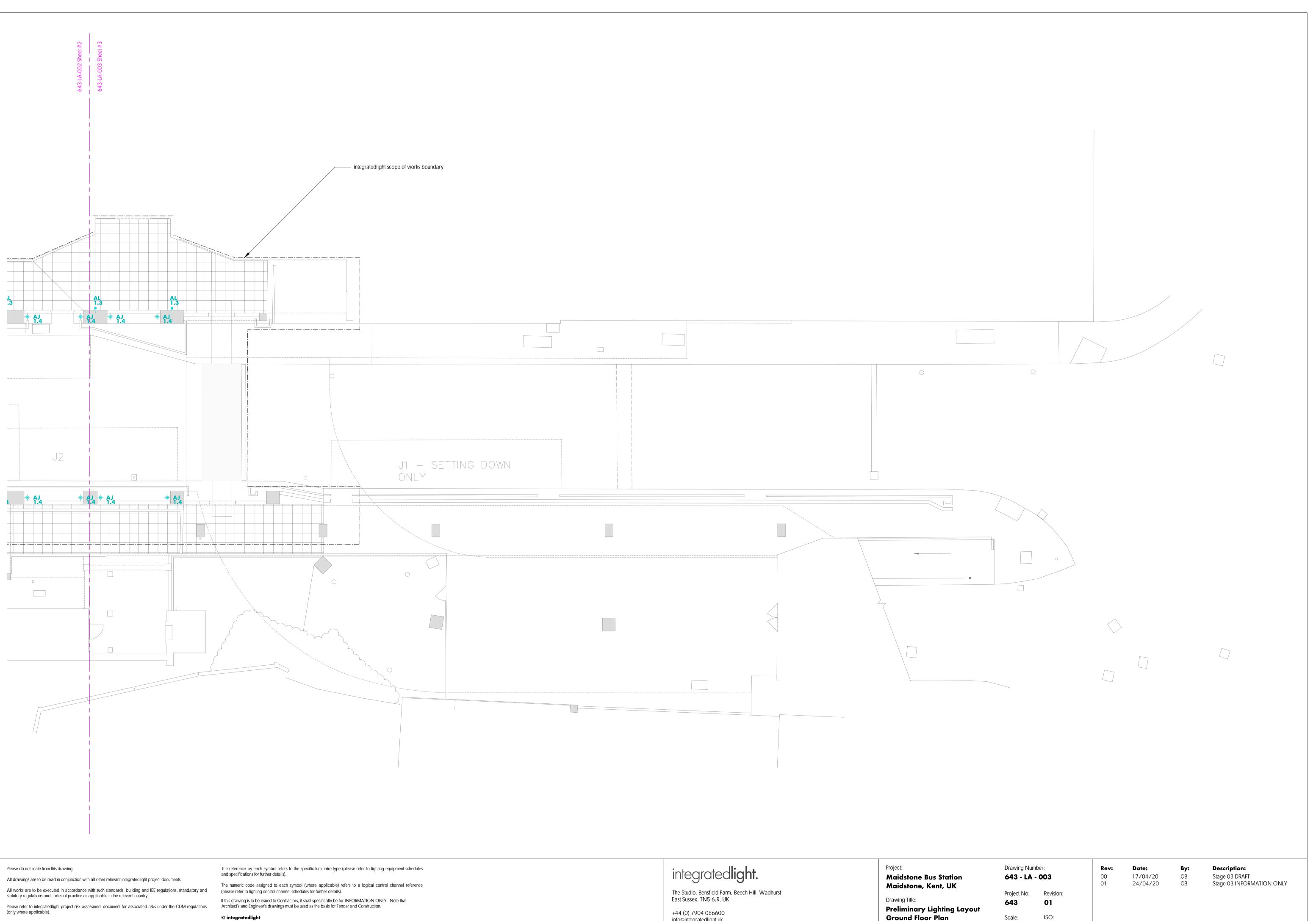
(please refer to lighting control channel schedules for further details).



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All drawings are to be read in conjunction with all other relevant integrated light project documents.

and specifications for further details).

If this drawing is to be issued to Contractors, it shall specifically be for INFORMATION ONLY. Note that

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Please do not scale from this drawing.

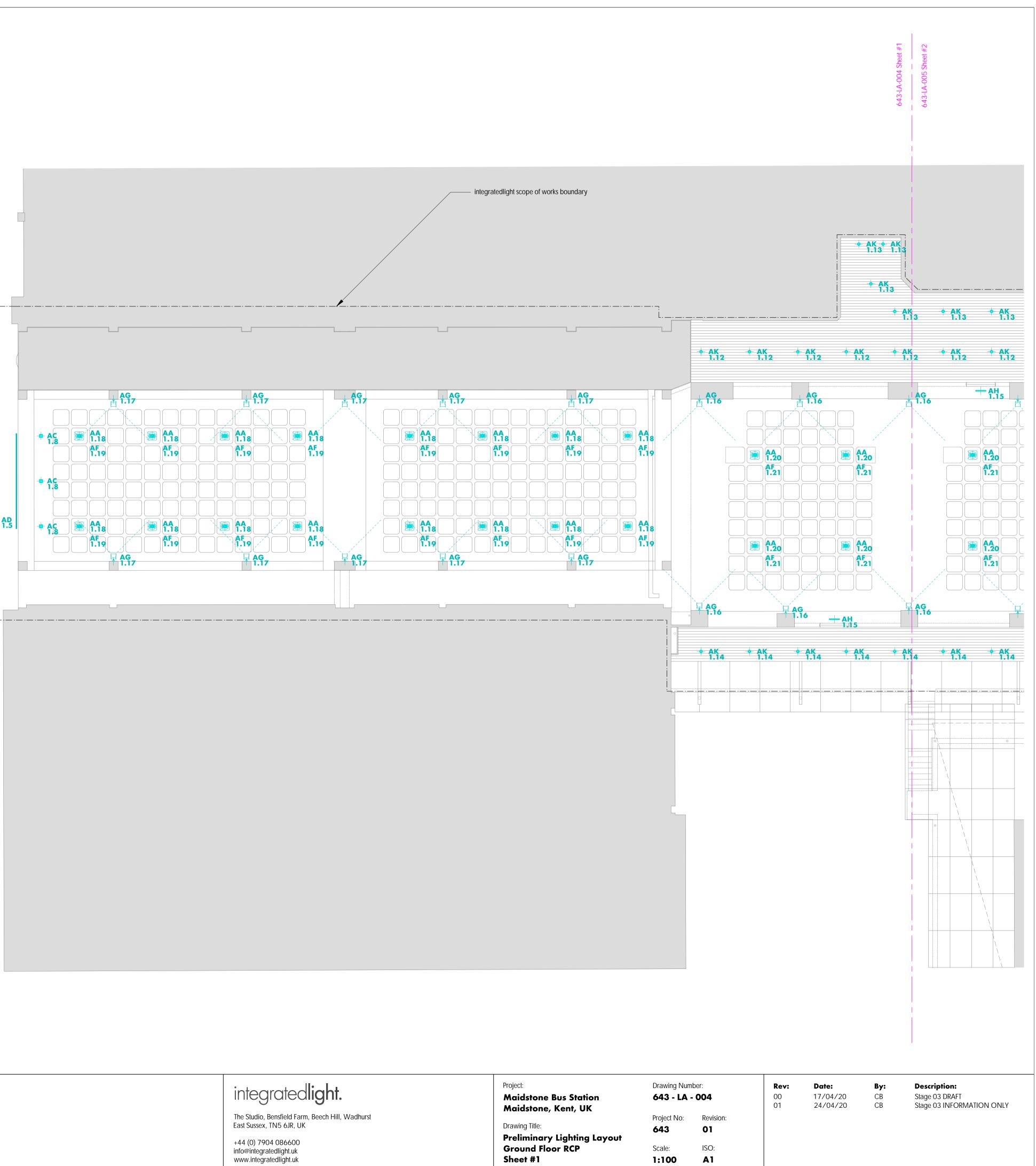
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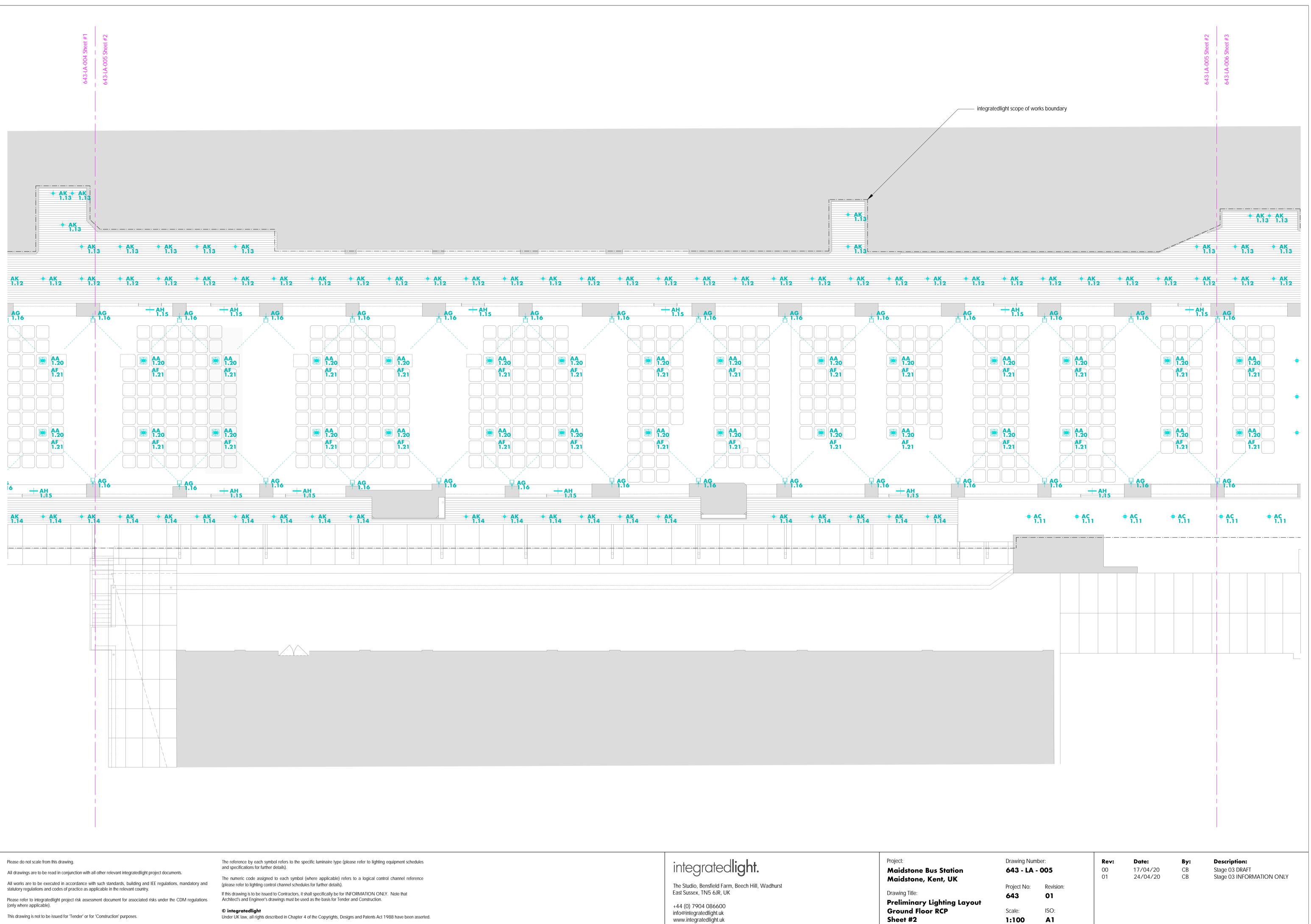
(please refer to lighting control channel schedules for further details).

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All drawings are to be read in conjunction with all other relevant integrated light project documents.

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The reference by each symbol refers to the specific luminaire type (please refer to lighting equipment schedules and specifications for further details).

integratedlight scope of works boundary

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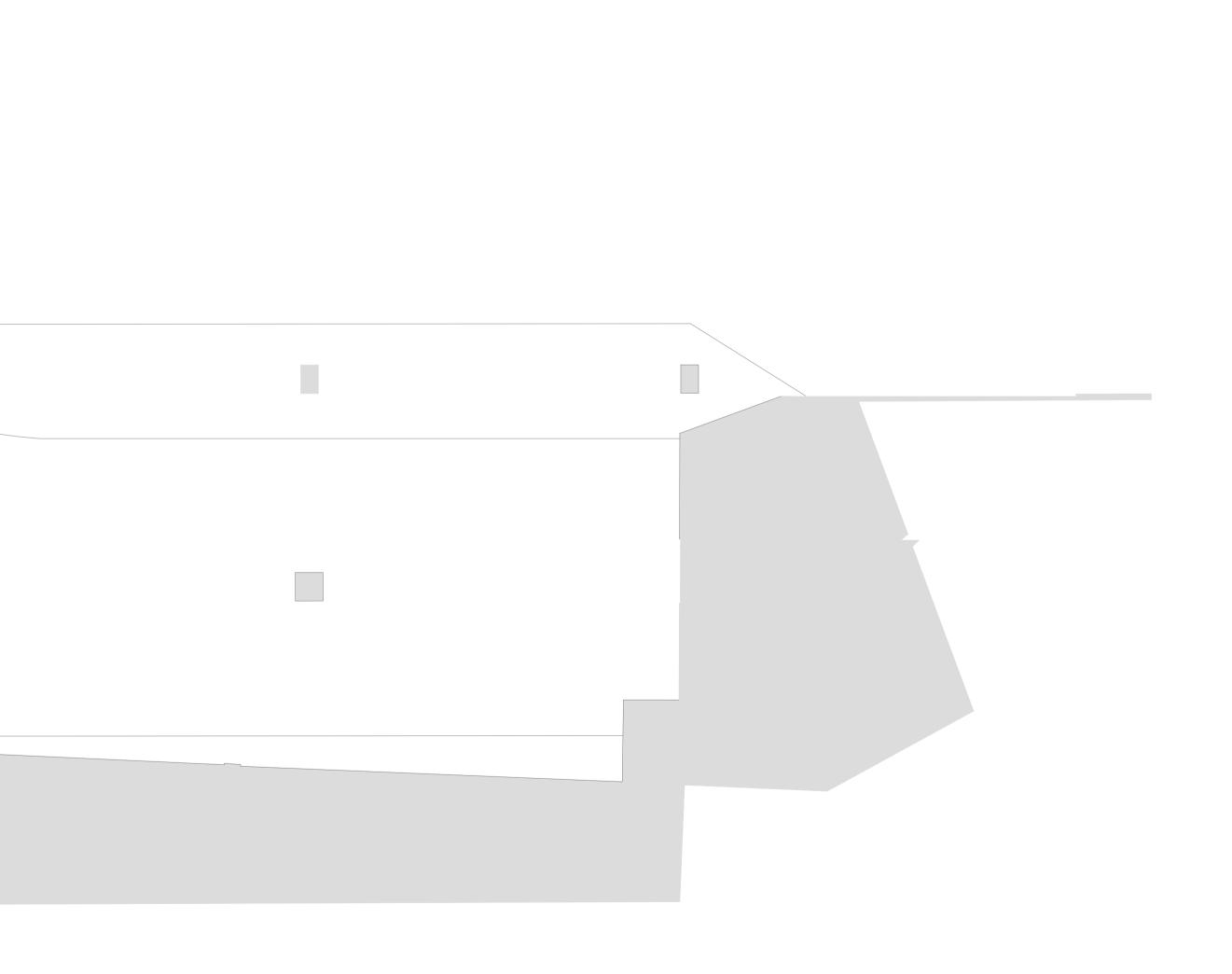
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The numeric code assigned to each symbol (where applicable) refers to a logical control channel reference (please refer to lighting control channel schedules for further details).

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The Studio, Bensfield Farm, Beech Hill, Wadhurst East Sussex, TN5 6JR, UK

+44 (0) 7904 086600 info@integratedlight.uk www.integratedlight.uk

Project:

Maidstone Bus Station Maidstone, Kent, UK

Drawing Title:

Preliminary Lighting Layout Ground Floor RCP Sheet #3

Drawing Number:		Rev:	Date:	By:	Description:
643 - LA -	006	00	17/04/20	СВ	Stage 03 DRAFT
		01	24/04/20	CB	Stage 03 INFORMATION ONLY
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PRELIMINARY LIGHTING EQUIPMENT COST SCHEDULE

Project	Maidstone Bus Station Maidstone, UK
Project # Doc #	643 643-PLCR-001
Rev	00

Rev	Date	Author	Comments
00	24/04/202	0 CB	Scheme Design (Stage 3) Information

integratedlight ltd. Claytons Studio, Station Road, Stonegate, East Sussex TN5 7EN +44 (0) 7904 086600 info@integratedlight.uk www.integratedlight.uk

Reference	Lighting Function	Luminaire and Lamp Description	Quantity	Unit Cost	Accessory Cost	Total Cost	
AA	General Downlighting	Exterior quality surface suspended roadway luminaire with a 230V/38W 5000lm 4000K LED light source.	48	£350	£O	£16,800	
AB	General Downlighting	Exterior quality surface mounted floodlight luminaire with a 230V/19.4W 3130lm 4000K LED light source.	3	£700	£O	£2,100	
AC	General Downlighting	Exterior quality surface mounted downlight luminaire with a 230V/33.6W 4640lm 4000K LED light source.	20	£375	£O	£7,500	
AD	Signage Lighting	Exterior quality concealed flexible LED accent system utilising a 230V/15W 1600lm (per linear metre) 4300K LED light source.	2	£2,300	O£	£4,600	
AF	Accent Lighting	Exterior quality surface mounted floodlight luminaire with a 230V/17.6W 2940lm 4000K LED light source.	48	£325	£O	£15,600	
AG	Uplighting	Exterior quality surface mounted floodlight luminaire with a 230V/19.4W 3130lm 3000K LED light source.	42	£525	£O	£22,050 V	White lighting up
AH	General Downlighting	Exterior quality surface mounted linear downlight luminaire with a 230V/15.8W 2850lm 3000K LED light source.	14	£600	£O	£8,400	
AJ	Uplighting	Exterior quality in-ground recessed uplight luminaire with a 230V/16.7W 2800lm 3000K LED light source.	59	£450	£O	£26,550	
AK	General Downlighting	Exterior quality surface mounted downlight luminaire with a 230V/11.5W 2025lm 3000K LED light source.	78	£275	£O	£21,450	
AL	Up/Down Lighting	Exterior quality wall mounted Up/Down luminaire with a 2x 230V/16W 1908lm (combined output) 3000K LED light source	e. 17	£500	O£	£8,500	
AM	General Downlighting	Exterior quality wall mounted downlight luminaire with a single 230V/16W 954lm 3000K LED light source.	23	£300	£O	£6,900	
CON	Control System	Architectural grade Lighting Control System and User Interface in order to group, dim up / down and automated lighting sce	nesį	£5,000	£O	£5,000	

Sub Total £145,450

ENHANCEMENT OPTION (DYNAMIC COLOUR CHANGE UPLIGHTING TO COFFERED CEILING) FOR CONSIDERATION -

AG*	Uplighting	Exterior quality surface mounted RGBW colour-change floodlight luminaire with a 230V/50W 2434lm RGBW LED light 42	£852	£O	£35,784	Enhancement C
LPC	Control System	Architectural grade lighting playback controller hardware and software to control dynamic nature of RGBW luminaires above 1	£1,744	£O	£1,744	
			Sub Total		£37,528	

Notes	
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uplighting to concrete coffers only; see OPTION for full colour enhancement scheme	
PC Sum only	_

nt OPTION for consideration; full RGBW color-change uplighting to concrete coffers

Controls equipment required in addition to CON system listed above

IMPORTANT NOTES

1	This schedule shall be read as preliminary and estimated lighting equipment and lamp costs only. This is not a Final Lighting Equipment Cost Schedule.
2	Unit costs supplied include the following items (where applicable):
	Luminaires Control gear / Power supplies Accessories
3	Exclusions. The following items are specifically excluded from this schedule (as they are to be designed by others):
	Emergency Lighting Wiring Power and Data distribution infrastructure Installation Associated building works, fixing details, joinery details, bracketry, etc.
4	Costs are estimated UK costs unless otherwise stated. Costs are shown in UK Pounds Sterling unless otherwise stated.
5	Costs shown do NOT include VAT (or the equivalent relevant local sales taxes)
6	All quantities must be checked by Quantity Surveyor. Quantities shown in this schedule are estimated only. Integratedlight cannot be held responsible for final take-offs of quantities from drawings.

7 integrated light will not be held responsible for the content of electronic versions of this document if they are in any way changed by any other party.

24/04/2020 Rev 00

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PRELIMINARY LOGICAL CONTROL CHANNEL SCHEDULE

Project	Maidstone Bus Station Maidstone, UK
Project # Doc #	643 643-PLCS-001
Rev	00

Rev	Date	Author	Comments
00	24/04/2020	СВ	Scheme Design (Stage 3) Information

integratedlight ltd. Claytons Studio, Station Road, Stonegate, East Sussex TN5 7EN +44 (0) 7904 086600 info@integratedlight.uk www.integratedlight.uk

Zone	Area	Channel	Ref	Lighting Function	Quantity	Lamp Туре	Control Type	Lamp Load Per Unit (W)	Lamp Load Total (W)	Power Control Type	Control Data Type	Notes
RP Entrance	West Concourse	1.1	AM	General Downlighting	11	LED INT	LED	16	176	SW	NONE	Fixture is non-dimmable fixed output only
RP Entrance	East Concourse	1.2	AM	General Downlighting	12	LED INT	LED	16	192	SW	NONE	Fixture is non-dimmable fixed output only
Main Zone	West Concourse	1.3	AL	Up/Down Lighting	17	led int	LED	32	544	SW	NONE	Fixture is non-dimmable fixed output only
Main Zone	Structural Columns	1.4	AJ	Uplighting	59	led int	LED	16.7	985	SW	DALI	Fully dimmable fixture via DALI control protocol
RP Entrance	Building Façade (Entrance)	1.5	AD	Accent Lighting	1	led int	LED	285	285	SW	DALI	Allowance only at this stage; assume 1 metre LED per sign 'letter'
KS Entrance	Building Façade (Entrance)	1.6	AD	Accent Lighting	1	led int	LED	285	285	SW	DALI	Allowance only at this stage; assume 1 metre LED per sign 'letter'
KS Entrance	Building Façade (Entrance)	1.7	AB	General Downlighting	3	led int	LED	19.4	58	SW	DALI	Fully dimmable fixture via DALI control protocol
RP Entrance	Tunnel Entrance Transition	1.8	AC	General Downlighting	3	led int	LED	33.6	101	SW	DALI	Fully dimmable fixture via DALI control protocol
KS Entrance	Tunnel Entrance Transition	1.9	AC	General Downlighting	3	led int	LED	33.6	101	SW	DALI	Fully dimmable fixture via DALI control protocol
KS Entrance	West Concourse	1.10	AC	General Downlighting	4	led int	LED	33.6	134	SW	DALI	Fully dimmable fixture via DALI control protocol
KS Entrance	East Concourse	1.11	AC	General Downlighting	10	led int	LED	33.6	336	SW	DALI	Fully dimmable fixture via DALI control protocol
Main Zone	West Concourse	1.12	AK	General Downlighting	39	led int	LED	11.5	449	SW	DALI	Fully dimmable fixture via DALI control protocol
Main Zone	West Concourse	1.13	AK	General Downlighting	16	led int	LED	11.5	184	SW	DALI	Fully dimmable fixture via DALI control protocol
Main Zone	East Concourse	1.14	AK	General Downlighting	23	led int	LED	11.5	265	SW	DALI	Fully dimmable fixture via DALI control protocol
Main Zone	Portal Entrances	1.15	AH	General Downlighting	14	led int	LED	15.8	221	SW	DALI	Fully dimmable fixture via DALI control protocol
Main Zone	Structural Columns	1.16	AG	Uplighting	32	led int	LED	19.4	621	SW	DALI	Fully dimmable fixture via DALI control protocol
Main Zone	Structural Columns	1.17	AG	Uplighting	10	led int	LED	19.4	194	SW	DALI	Fully dimmable fixture via DALI control protocol
Main Zone	Tunnel Coffered Ceiling	1.18	AA	General Downlighting	16	led int	LED	38	608	SW	DALI	Fully dimmable fixture via DALI control protocol
Main Zone	Tunnel Coffered Ceiling	1.19	AF	Accent Lighting	16	LED INT	LED	17.6	282	SW	DALI	Fully dimmable fixture via DALI control protocol
Main Zone	Tunnel Coffered Ceiling	1.20	AA	General Downlighting	32	LED INT	LED	38	1216	SW	DALI	Fully dimmable fixture via DALI control protocol
Main Zone	Tunnel Coffered Ceiling	1.21	AF	Accent Lighting	32	LED INT	LED	17.6	563	SW	DALI	Fully dimmable fixture via DALI control protocol

Total Lamp Load 7799

IMPORTANT NOTES

1

This schedule shall be read as preliminary and estimated lighting lamp loads only, as part of Stage 3 Services; Design Development. This is not a Final Lighting Control Channel Schedule.

2 Electrical loads shown in this schedule are nominal lamp loads only. Ballast and transformer losses (or any other loads which may exist within a luminaire) are not included in this schedule.

3	Lamp Types	CC	Cold Cathode
		CFLU	Compact Fluorescent
		FLU	Linear Fluorescent
		HID	High Intensity Discharge
		LED INT	Light Emitting Diode (chips integral to the fitting)
		LED MOD	Light Emitting Diode (module or removable lamp type arrangement)
		LV	Low Voltage ≤24V (Tungsten Halogen/Xenon)
		Т	Tungsten (Mains Voltage)
		TH	Tungsten Halogen (Mains Voltage)
4	Control Gear Types	ELEC B	Electronic ballast
		ELEC TX	Electronic transformer
		LED	Electronic LED driver
		MAG B	Magnetic ballast
		MAG TX	Magnetic transformer
5	Power Control Types	CON	Constant, i.e. unswitched by the lighting control system
		ldim	Leading Edge Dimming
		TDIM	Trailing Edge Dimming
		SDIM	Sine Wave Dimming
		PWM	Pulse Width Modulation Dimming
		SW	Switched by the lighting control system
6	Control Data Types	0-10V	0-10V Analogue
		1-10V	1-10V Analogue
		DMX	DMX512 (Digital Multiplex)
		DALI	DALI (Digital Addressable Lighting Interface)
		DSI	Tridonic DSI (Digital Serial Interface)
		NONE	None required
		PROP	Proprietary
		OTHER	Other, not detailed in above list
7		desident de la company	

7 All electrical loads must be checked by Electrical Engineer and Contractor.

8 All quantities must be checked by Quantity Surveyor. Quantities shown in this schedule are estimated only. Integrated light cannot be held responsible for final take-offs of quantities from drawings.

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PRELIMINARY LIGHTING EQUIPMENT SCHEDULE

Project	Maidstone Bus Station Maidstone, UK
Project # Doc #	643 643-PLES-001
Rev	00

Rev	Date	Author	Comments
00	24/04/202	OCB	Scheme Design (Stage 3) Information

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Reference	Lighting Function	Description / Notes	Lamp Туре	Control Type	Accessories	Typical Luminaire Image
AA	General Downlighting	Exterior quality surface suspended roadway luminaire with a 230V/38W 5000lm 4000K LED light source. Graphite grey finish with a clear front safety glass and roadway optical lenses. Powder coated die-cast aluminium housing construction. DALI controllable (fully dimmable fixture). All cabling, conduits, containment routes and connections, etc. to Electrical Engineer's details and specification. All fixings, mountings and brackety to Architect's details and specification. Further details shall be provided and co-ordinated with other parties during Stage 4 Technical Design stage.	LED INT	LED	Suspension rod infrastructure Secondary (safety) bond	
AB	General Downlighting	Exterior quality surface mounted floodlight luminaire with a 230V/19.4W 3130lm 4000K LED light source. Graphite grey finish with a clear front safety glass and pure aluminium asymmetrical throw reflector. Luminaire housing made of aluminium alloy, aluminium and stainless steel construction. DALI controllable (fully dimmable fixture). All cabling, conduits, containment routes and connections, etc. to Electrical Engineer's details and specification. All fixings, mountings and brackety to Architect's details and specification. Further details shall be provided and co-ordinated with other parties during Stage 4 Technical Design stage.	LED INT	LED	N/A	
AC	General Downlighting	Exterior quality surface mounted downlight luminaire with a 230V/33.6W 4640lm 4000K LED light source. Graphite grey finish with a clear front safety glass and pure aluminium symmetrical wide beam reflector. Luminaire housing made of aluminium alloy, aluminium and stainless steel construction. DALI controllable (fully dimmable fixture). All cabling, conduits, containment routes and connections, etc. to Electrical Engineer's details and specification. All fixings, mountings and brackety to Architect's details and specification. Further details shall be provided and co-ordinated with other parties during Stage 4 Technical Design stage.	LED INT	LED	N/A	
AD	Signage Lighting	Exterior quality concealed and integrated flexible LED accent system utilising a 230V/15W 1600lm (per linear metre) 4300K LED light source. PCB fully encapsulated within flexible membrane to provide at least IP66 ingress protection. DALI controllable (fully dimmable system). All cabling, conduits, containment routes and connections, etc. to Electrical Engineer's details and specification. All fixings, mountings and brackety to Architect's details and specification. Further details shall be provided and co-ordinated with other parties during Stage 4 Technical Design stage. Note an allowance of 1 metre system per individual signage 'letter' has been allowed for this stage and further detailed requirements shall be specified at Technical Design stage.	LED INT	LED	Remote DALI dimmable control unit Remote PSU Fixing / Installation clips Signage Letters (by others)	



Reference	Lighting Function	Description / Notes	Lamp Type	Control Type	Accessories	Typical Luminaire Image
AF	Accent Lighting	Exterior quality surface mounted floodlight luminaire with a 230V/17.6W 2940lm 4000K LED light source. Graphite grey finish with a clear front safety glass and pure aluminium symmetrical wide beam reflector. Luminaire housing made of aluminium alloy, aluminium and stainless steel construction. Mounting bracket with G 1/2 threaded connection Thread length: 14 mm. DALI controllable (fully dimmable fixture). All cabling, conduits, containment routes and connections, etc. to Electrical Engineer's details and specification. All fixings, mountings and brackety to Architect's details and specification. Further details shall be provided and co-ordinated with other parties during Stage 4 Technical Design stage. Note custom variation required; luminaire to be supplied with a blue colour filter front glass - detailed to be provided during Technical Design stage.	LED INT	LED	Dichroic Colour Filter Glass (Colour TBC) Tube Clamp Secondary (safety) bond	
AG	Uplighting	Exterior quality surface mounted floodlight luminaire with a 230V/19.4W 3130lm 3000K LED light source. Graphite grey finish with.a clear front safety glass and pure aluminium asymmetrical throw reflector. Luminaire housing made of aluminium alloy, aluminium and stainless steel construction. DALI controllable (fully dimmable fixture). All cabling, conduits, containment routes and connections, etc. to Electrical Engineer's details and specification. All fixings, mountings and brackety to Architect's details and specification. Further details shall be provided and co-ordinated with other parties during Stage 4 Technical Design stage.	LED INT	LED	N/A	
AH	General Downlighting	Exterior quality surface mounted linear downlight luminaire with a 230V/15.8W 2850lm 3000K LED light source. Graphite grey finish with a clear front safety glass and pure aluminium symmetrical wide beam reflector. Luminaire housing made of aluminium alloy, aluminium and stainless steel construction. DALI controllable (fully dimmable fixture). All cabling, conduits, containment routes and connections, etc. to Electrical Engineer's details and specification. All fixings, mountings and brackety to Architect's details and specification. Further details shall be provided and co-ordinated with other parties during Stage 4 Technical Design stage.	LED INT	LED	N/A	
AJ	Uplighting	Exterior quality in-ground recessed uplight luminaire with a 230V/16.7W 2800lm 3000K LED light source. Luminaires and installation housings made of highly corrosion-resistant aluminium BEGA Tricoat® coating technology. Cover ring made of stainless steel. Fully adjustable optical assembly - 25degree tilt. DALI controllable (fully dimmable fixture). All cabling, conduits, containment routes and connections, etc. to Electrical Engineer's details and specification. All fixings, mountings and brackety to Architect's details and specification. Further details shall be provided and co-ordinated with other parties during Stage 4 Technical Design stage.	LED INT	LED	Installation housing Termnial box (if required by contractor)	



Reference	Lighting Function	Description / Notes	Lamp Type	Control Type	Accessories	Typical Luminaire Image	Preliminary Quantity	Manufacturer / Supplier
AK	General Downlighting	Exterior quality surface mounted downlight luminaire with a 230V/11.5W 2025lm 3000K LED light source. Graphite grey finish with.a clear front safety glass and pure aluminium symmetrical wide beam reflector. Luminaire made of aluminium alloy, aluminium and stainless steel. BEGA Unidure® coating technology. DALI controllable (fully dimmable fixture). All cabling, conduits, containment routes and connections, etc. to Electrical Engineer's details and specification. All fixings, mountings and brackety to Architect's details and specification. Further details shall be provided and co-ordinated with other parties during Stage 4 Technical Design stage.	LED INT	LED	N/A		78	BEGA LED Compact Downlights Detailed Ordering Code TBC at Stage 4
AL	Up/Down Lighting	Exterior quality wall mounted Up/Down luminaire with a 2x 230V/16W 1908lm (combined output) 3000K LED light source. A wall mounted, architectural LED luminaire for decorative facade lighting, with 2 window, medium optical symmetrical light distribution. 10 LEDS driven at 900mA. Class I electrical, IP65, IK08. Housing constructed from die-cast aluminium, powder coated textured anthracite finish. Fixed output LED driver (non dimmable fixture). All cabling, conduits, containment routes and connections, etc. to Electrical Engineer's details and specification. All fixings, mountings and brackety to Architect's details and specification. Further details shall be provided and co-ordinated with other parties during Stage 4 Technical Design stage.	LED INT	LED	N/A		17	THORN LIGHTING Cesar Wall Detailed Ordering Code TBC at Stage 4
AM	General Downlighting	Exterior quality wall mounted downlight luminaire with a single 230V/16W 954lm 3000K LED light source. A wall mounted, architectural LED luminaire for decorative facade lighting, with single (1No) window, medium optical symmetrical light distribution. 5 LEDS driven at 900mA. Class I electrical, IP65, IK08. Housing constructed from die-cast aluminium, powder coated textured anthracite finish. Fixed output LED driver (non dimmable fixture). All cabling, conduits, containment routes and connections, etc. to Electrical Engineer's details and specification. All fixings, mountings and brackety to Architect's details and specification. Further details shall be provided and co-ordinated with other parties during Stage 4 Technical Design stage.	LED INT	LED	N/A		23	THORN LIGHTING Cesar Wall Detailed Ordering Code TBC at Stage 4

IMPORTANT NOTES

1

This schedule shall be read as preliminary and estimated lighting equipment types and lamp loads only, as part of Stage 3 Services; Design Development. This is not a Final Lighting Equipment Specification.

2 Electrical loads shown in this schedule are nominal lamp loads only. Ballast and transformer losses (or any other loads which may exist within a luminaire) are not included in this schedule.

3	Lamp Types	CC	Cold Cathode
		CFLU	Compact Fluorescent
		FLU	Linear Fluorescent
		HID	High Intensity Discharge
		LED INT	Light Emitting Diode (chips integral to the fitting)
		LED MOD	Light Emitting Diode (module or removeable lamp type arrangement)
		LV	Low Voltage ≤24V (Tungsten Halogen/Xenon)
		Т	Tungsten (Mains Voltage)
		TH	Tungsten Halogen (Mains Voltage)
4	Control Gear Types	ELEC B	Electronic ballast
		ELEC TX	Electronic transformer
		LED	Electronic LED driver
		MAG B	Magnetic ballast
		MAG TX	Magnetic transformer

5 All electrical loads must be checked by Electrical Engineer and Contractor.

6 integrated light will not be held responsible for the content of electronic versions of this document if they are in any way changed by any other party.

7 Preliminary quantities shown in this schedule are estimated only and must be read as preliminary based on Stage 03 Design Development lighting design work only; These are not final required luminaire quantities (such quantities can only be determined precisely during Stage 04 Technical Design stage). 24/04/2020 Rev 00