

## City Airport Development Programme (CADP1)

Condition 53: Permanent Eastern Apron Extension Noise Barrier



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# 1. Introduction

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1.1. The City Airport Development Programme (CADP1) planning application (13/01228/FUL) was granted planning permission by the Secretaries of State for Communities and Local Government and Transport in July 2016 following an appeal and public inquiry which was held in March/April 2016.

1.2. On 5th January 2017, the London Borough of Newham (LBN) approved some minor non-material design changes to the appearance of the western and southern elevations of the Western Terminal Extension (WTE) (16/03797/NONMAT). A further non-material amendment (17/02865/NONMAT) was approved on 27 September 2017 for minor amendments to the terminal buildings and associated service yard, East Pier, forecourt and decked car park. These minor changes to the design have been incorporated into the details provided to satisfy this condition.

1.3. Condition 53 of the CADP1 permission is as follows:

*53. Permanent Eastern Apron Extension Noise Barrier*

*The Development shall not commence until a scheme showing the location, dimensions and materials of the permanent noise barrier on the eastern apron extension has been submitted to and approved in writing by the local planning authority.*

*The permanent noise barrier shall be installed prior to the first operation of the stands shown in red on Plan P1 and retained thereafter.*

*Reason: In the interests of protecting environmental amenity from noise impacts.*

1.4. The details pursuant to the above condition were approved by London Borough of Newham (LBN) in April 2017 (ref. 17/00516/AOD) with the location and materials agreed by LBN. Since then the minor changes approved by LBN in September 2017 result in a slight increase to the length of the East Pier (by 6.9 metres) and consequently where it ties in with the permanent noise barrier. The consequential changes to the length of the noise barrier requires revised details to be submitted pursuant to Condition 53.

1.5. This document seeks approval of the updated details to satisfy the requirements of condition 53 and the following plans for approval at Appendix 1 which were prepared by TPS and Pascall & Watson (P&W):

- A400-TPS-S-01-XXX-DR-GA-247-200-05, PERMANENT NOISE BARRIER DETAILS SHEET 1 OF 2
- A400-TPS-S-01-XXX-DR-GA-247-201-05, PERMANENT NOISE BARRIER DETAILS SHEET 2 OF 2
- A400-PAW-A-14-XXX-XX-DR-DE-213-007-B, CONDITION 53 PROPOSED PERMANENT NOISE BARRIER

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## 2. Noise Barrier Location and Installation

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- 2.1. The proposed location of the permanent noise barrier on the eastern apron extension is shown on drawings [A400-TPS-S-01-XXX-DR-GA-247-200-05](#) and [A400-P&W-A-14-XXX-XX-DR-DE-213-007-B](#).
- 2.2. The noise barrier will be aligned east-west between the façade of the East Pier and the RVP Access route and will be erected prior to the operation of the eastern most stands to the east of the east pier. The location of these stands are shown on “Plan P1” (LCY P+W 4486 B GA20005) included in the [Appendix 2](#).

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### 3. Noise Barrier Details and Dimensions

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- 3.1. The noise barrier will be constructed to a height of 7.8m (with 7.98m to top of steel column) and a length in the order of 66.8m between the new East Pier and the RVP Access Route. The width of the structure will be 1m, which allows for the free standing absorptive panel, the structural column and the south elevation cladding.
- 3.2. The noise barrier will be constructed to the same style and specification as the existing Permanent Noise Barrier, which was installed in 2008 as part of the Eastern Apron development. It will be screened from surrounding buildings with an architectural metal cladding to the south elevation as shown on drawing [A400-PAW-A-14-XXX-XX-DR-DE-213-007-B](#).
- 3.3. The primary acoustic element will be a 127mm thick, type FS sound absorptive panel, manufactured by IAC Acoustics (or an equivalent unit providing the same level of sound attenuation). These panels are designed to be used at airport boundaries and around aircraft pens. Each free standing panel is supported between steel columns to create a contiguous wall of the required height and length.

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## 4. Visual Appearance

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- 4.1. The appearance of the permanent noise barrier is shown in the two 3D visualisations on drawing [A400-PAW-A-14-XXX-XX-DR-DE-213-007-B](#). The north elevation view will be of the acoustic panel, whilst the south elevation view will be of the architectural cladding, which comprises a decorative [extruded saw-tooth](#) L-shaped aluminium composite panel finished with a natural anodised-look PVDF ([metallic silver](#)) coating or similar, consistent with the materials and finishes explained in the Design & Access Statement that accompanied the CADP1 application.
- 4.2. [Sample materials for the permanent noise barrier \(Natural anodised-look \(silver\) aluminum composite panel \(ACM\) cladding sample\)](#) have been provided under separate cover to satisfy the requirements of CADP condition 34.

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## 5. Installation

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- 5.1. The *Construction Phasing Plan* submitted under Condition 4 of the CADP1 planning permission provides a detailed programme [for the installation of the permanent noise barrier](#).

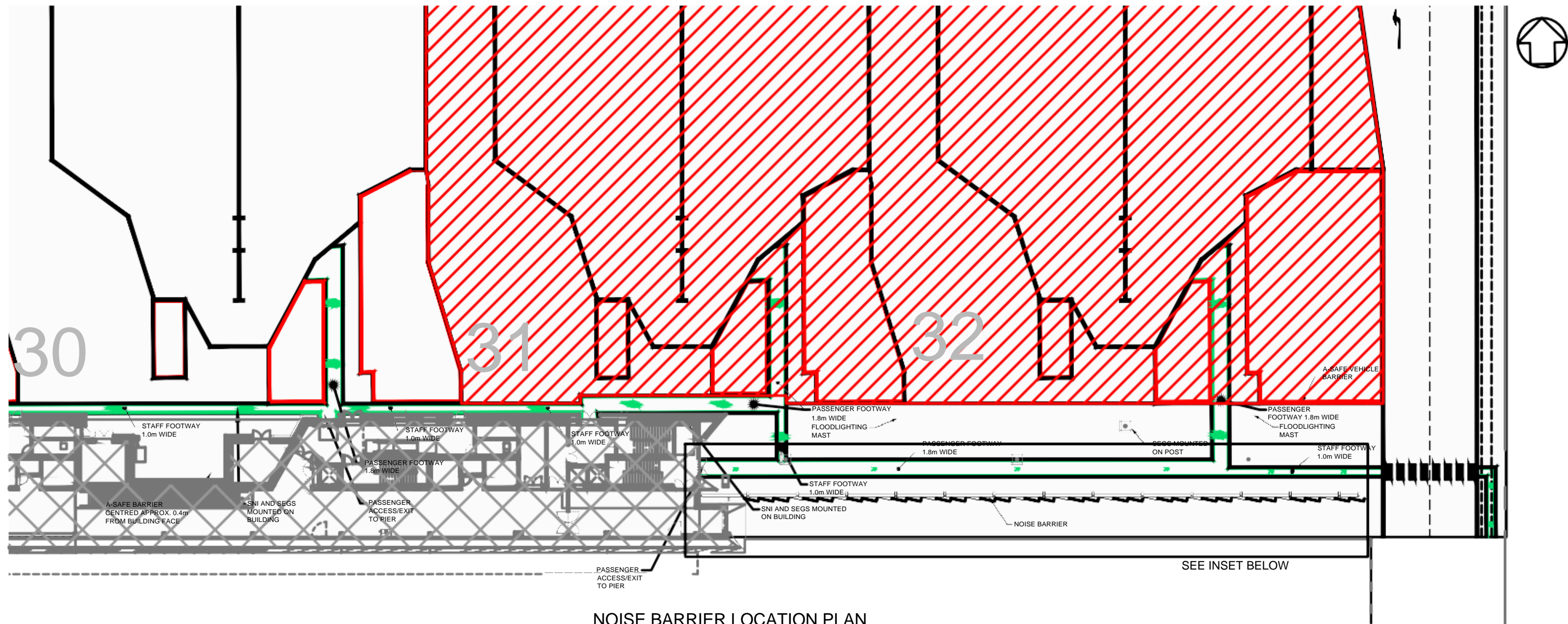
## Appendix 1 - Noise Barrier Details for Approval

[A400-TPS-S-01-XXX-DR-GA-247-200-05](#), PERMANENT NOISE BARRIER DETAILS SHEET 1 OF 2

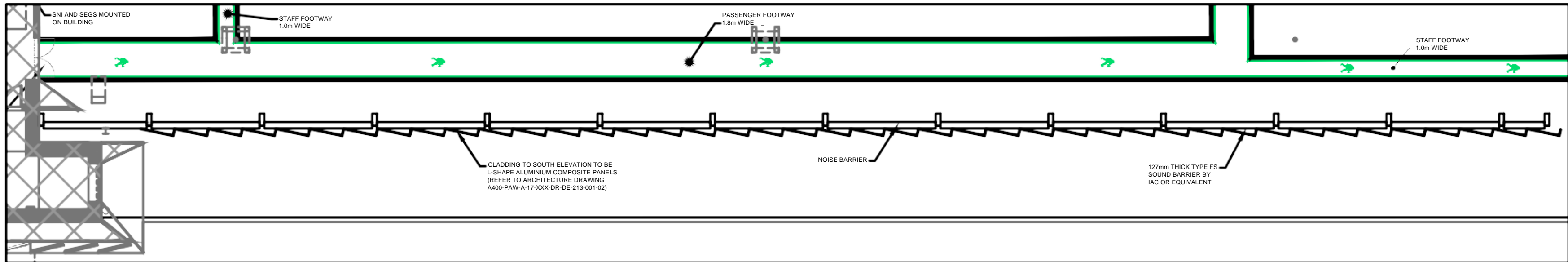
[A400-TPS-S-01-XXX-DR-GA-247-201-05](#), PERMANENT NOISE BARRIER DETAILS SHEET 2 OF 2

[A400-PAW-A-14-XXX-XX-DR-DE-213-007-B](#), CONDITION 53 PROPOSED PERMANENT NOISE BARRIER

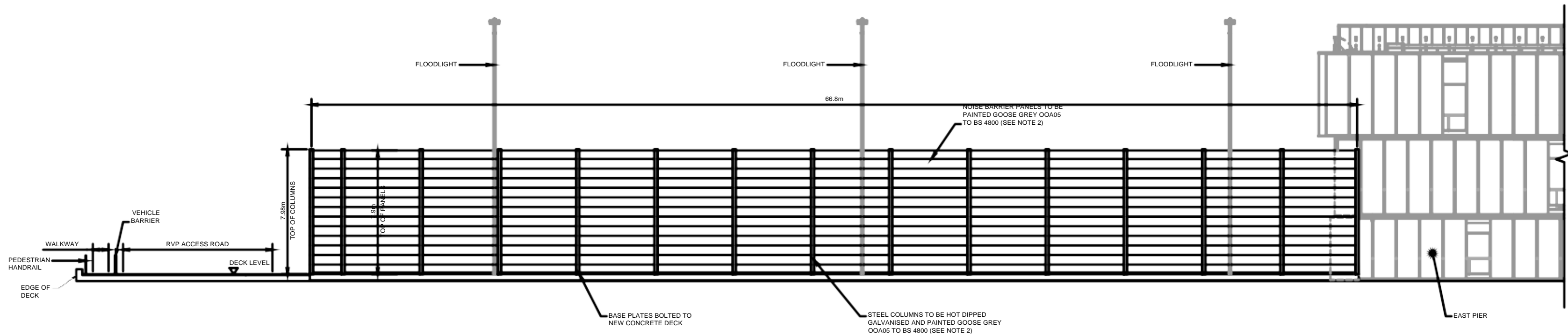




NOISE BARRIER LOCATION PLAN  
SCALE 1:250



INSET - NOISE BARRIER PLAN VIEW  
SCALE 1:100



NOISE BARRIER NORTH ELEVATION  
SCALE 1:150

DO NOT SCALE FROM THIS DRAWING

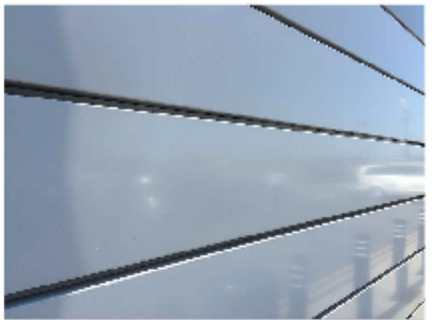
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NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- EXISTING NOISE BARRIER REMOVED FROM EXISTING EASTERN APRON AND REUSED IF PRACTICAL.
- AIRCRAFT OUTLINES & STAND MARKINGS ARE FOR ILLUSTRATION PURPOSES ONLY
- DRAWING TO BE READ IN CONJUNCTION WITH DRAWING A400-TPS-S-00-XXX-DR-GA-247-101

LEGEND

- GROUND FLOOR BUILDING OUTLINE. REFER TO Dwg. Nos. LCY-P&W-4486-B-GA20002 AND 20003 FOR FURTHER DETAILS
- APRON AREA
- AIRCRAFT STANDS NOT IN USE UNTIL NOISE BARRIER IS INSTALLED



EXAMPLE OF NORTH ELEVATION TREATMENT

05	R. RYAN	20/10/2017	S. HAWLEY	20/10/2017
REDRAWN FOR UPDATED WALL DESIGN FROM P+W				
04	R. RYAN	08/02/2017	G. PRICKETT	08/02/2017
FOR INFORMATION				
03	R. RYAN	29/11/2016	G. PRICKETT	29/11/2016
PLAN REVISED				
02	P. OFFER	06/10/2016	W. HELLIER	06/10/13
FOR INFORMATION				
01	P. OFFER	09/09/2016	W. HELLIER	13/09/13
DRAFT FOR COMMENT				

FOR INFORMATION

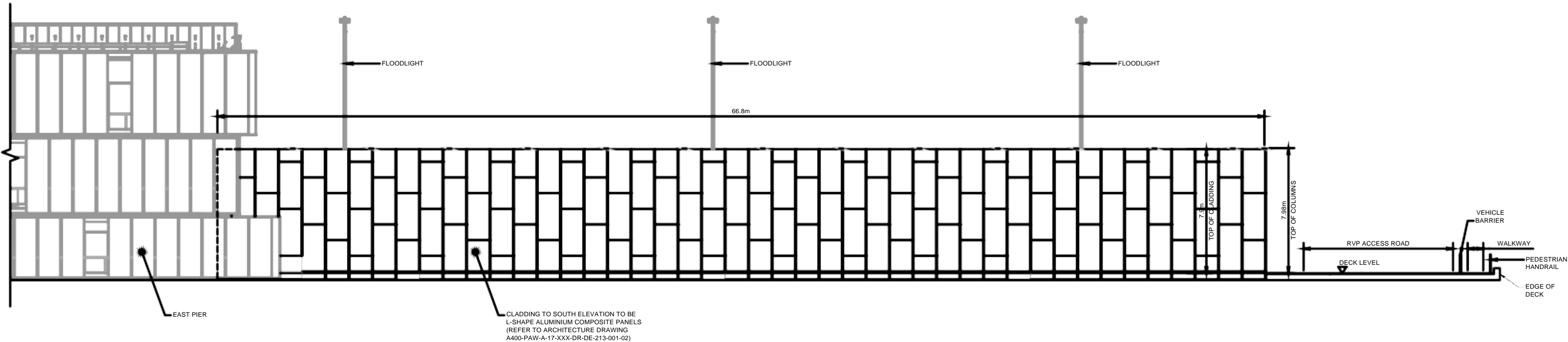


CITY AIRPORT  
DEVELOPMENT PROGRAMME

PERMANENT NOISE BARRIER  
DETAILS  
SHEET 1 OF 2

Originating Office		TPS Croydon - Interchange	
		81-85 Station Road	
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		CR0 2RD	
		United Kingdom	
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		www.tpsconsult.co.uk	
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Birmingham		Croydon	Edinburgh
		Sheffield	Wolverhampton
TPS Job Manager		R. KNAPTON	
QA System - Checks		Signature	
Date		09/09/2016	
Drawn By:		P. OFFER	
Checked:		W. HELLIER	
Authorised:		G. PRICKETT	
Date		13/09/2016	
TPS Project No.		112931	
Drawing Status		FOR INFORMATION	
Scale (at A1)		AS SHOWN	
Project No.		A400-TPS-S-01-XXX-DR-GA-247-200	
Rev.		05	





NOISE BARRIER SOUTH ELEVATION  
SCALE 1:150

DO NOT SCALE FROM THIS DRAWING

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NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. EXISTING NOISE BARRIER REMOVED FROM EXISTING EASTERN APRON AND REUSED IF PRACTICAL.
3. DRAWING TO BE READ IN CONJUNCTION WITH DRAWING A400-TPS-S-00-XXX-DR-GA-247-100

05	R. RYAN	20/10/2017	S. HAWLEY	20/10/2017
REDRAWN FOR UPDATED WALL DESIGN FROM P+W				
04	R. RYAN	08/02/2017	G. PRICKETT	08/02/2017
FOR INFORMATION				
03	R. RYAN	29/11/2016	G. PRICKETT	29/11/2016
FOR INFORMATION				
02	P. OFFER	06/10/2016	W.HELLYER	06/10/13
FOR INFORMATION				
01	P. OFFER	09/09/2016	W.HELLYER	13/09/13
DRAFT FOR COMMENT				

FOR INFORMATION



Project  
CITY AIRPORT  
DEVELOPMENT PROGRAMME

Drawing Title  
PERMANENT NOISE BARRIER  
DETAILS  
SHEET 2 OF 2

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TPS Job Manager  
R. KNAPTON  
QA System - Checks  
Signature  
Date  
Drawn By: P. OFFER  
09/09/2016  
Checked: W.HELLYER  
13/09/2016  
Authorised: G. PRICKETT  
13/09/2016

TPS Project No.  
112931  
Drawing Status  
FOR INFORMATION  
Scale (at A1)  
1:150  
(at A3)

Project No.  
A400-TPS-S-01-XXX-DR-GA-247-201  
Orig  
Disc  
Zone  
Level  
Type  
Sub Type  
Series  
Sht. No.  
REV.

05



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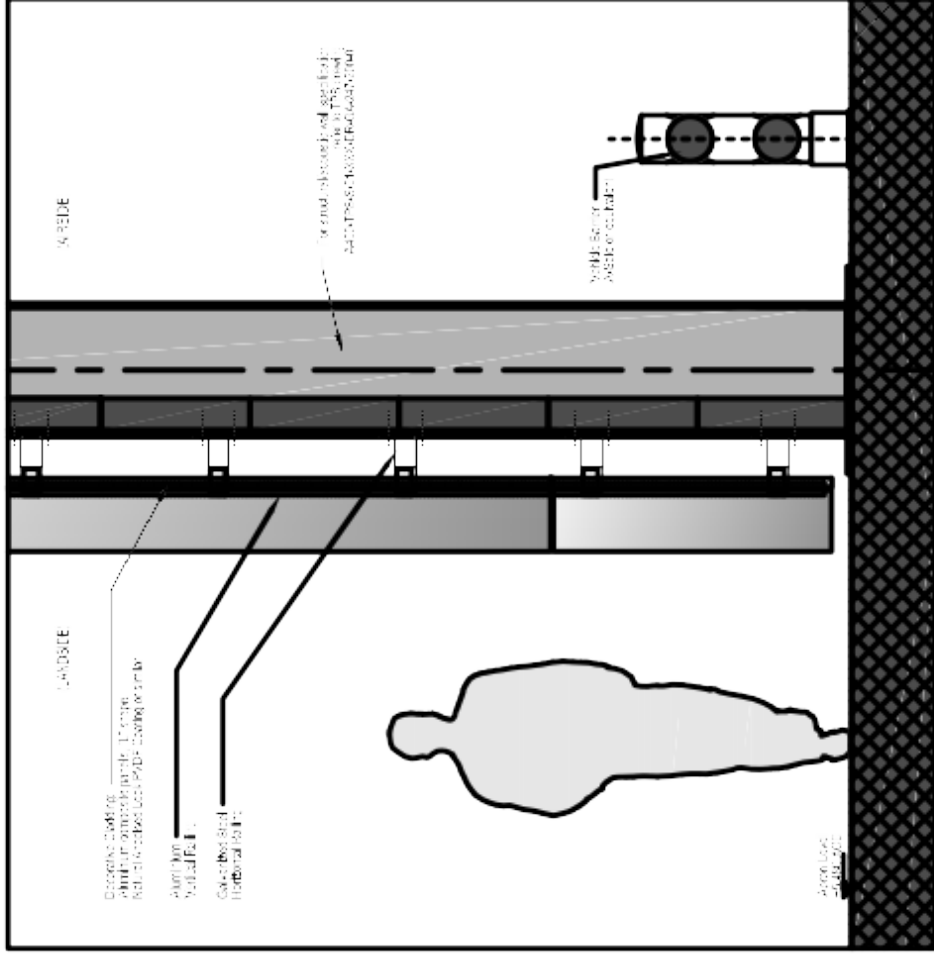
6. The consultant is not responsible for the accuracy of the information provided by the client. The consultant is not responsible for the accuracy of the information provided by the client. The consultant is not responsible for the accuracy of the information provided by the client.

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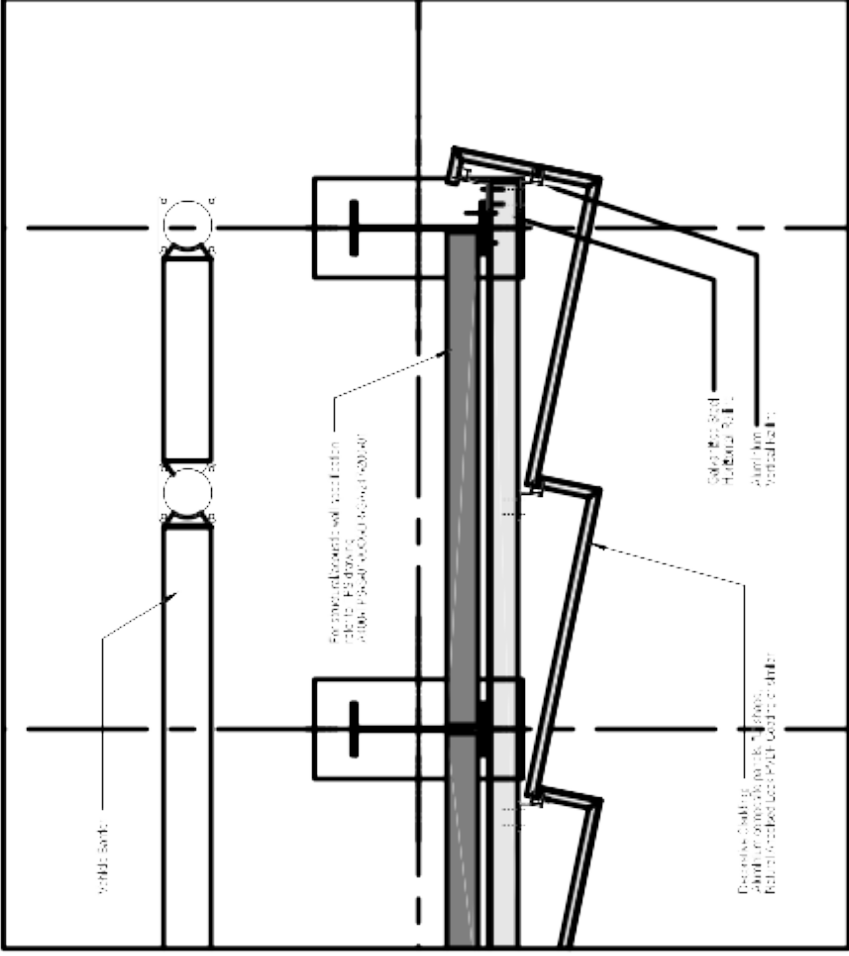
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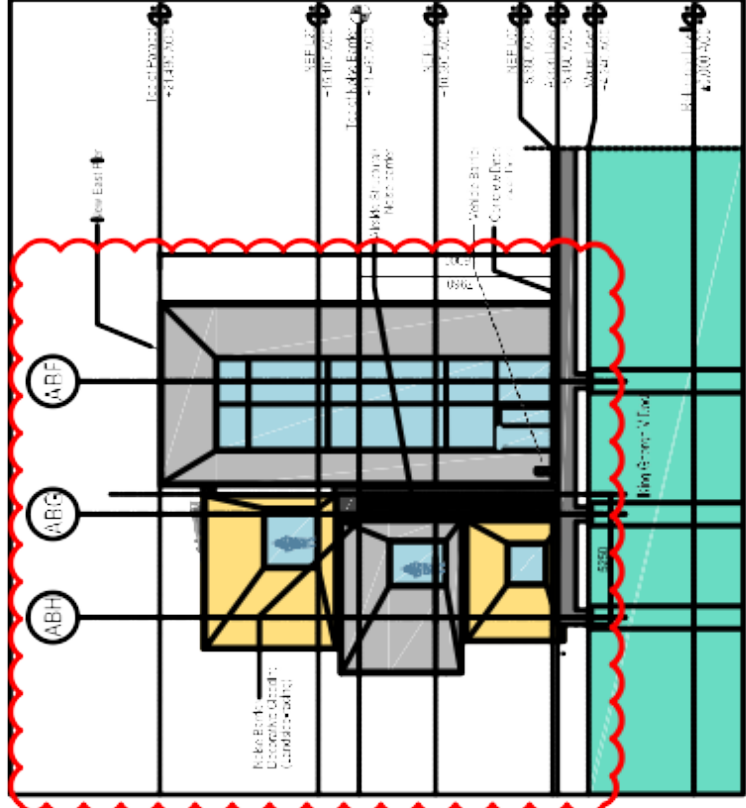
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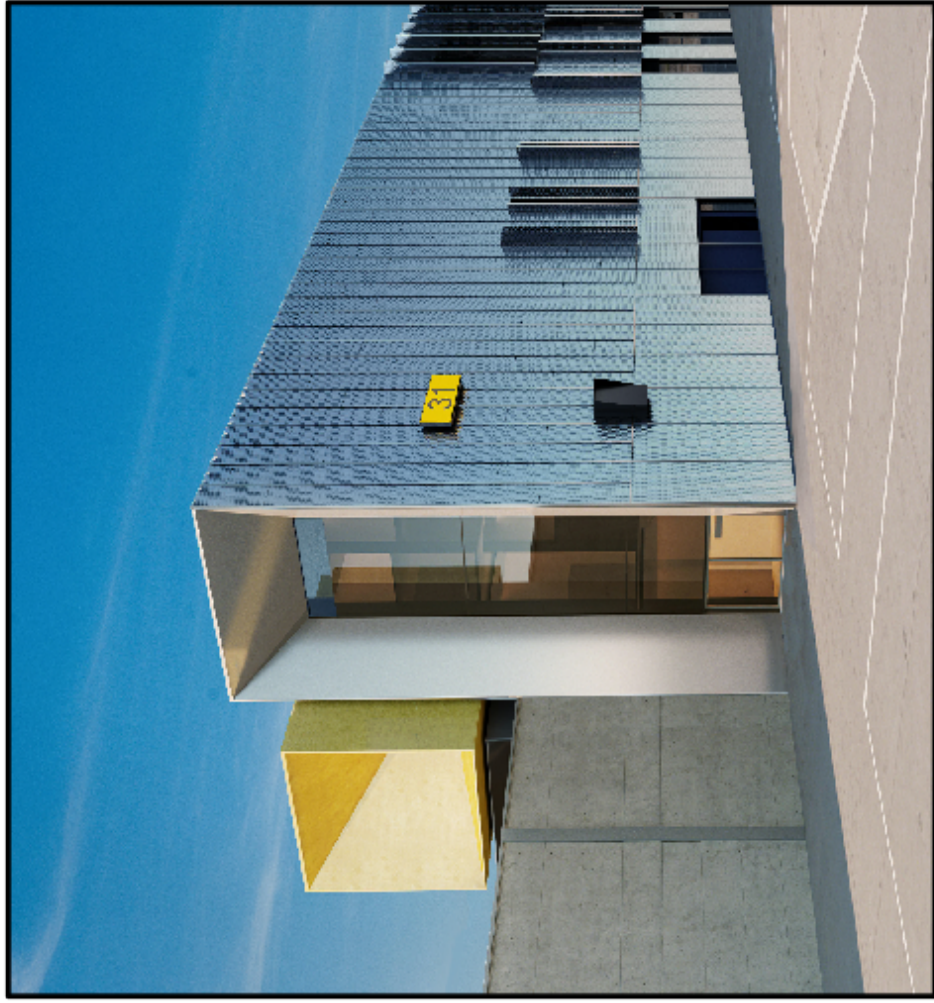
Noise Barrier Section Detail  
1:20



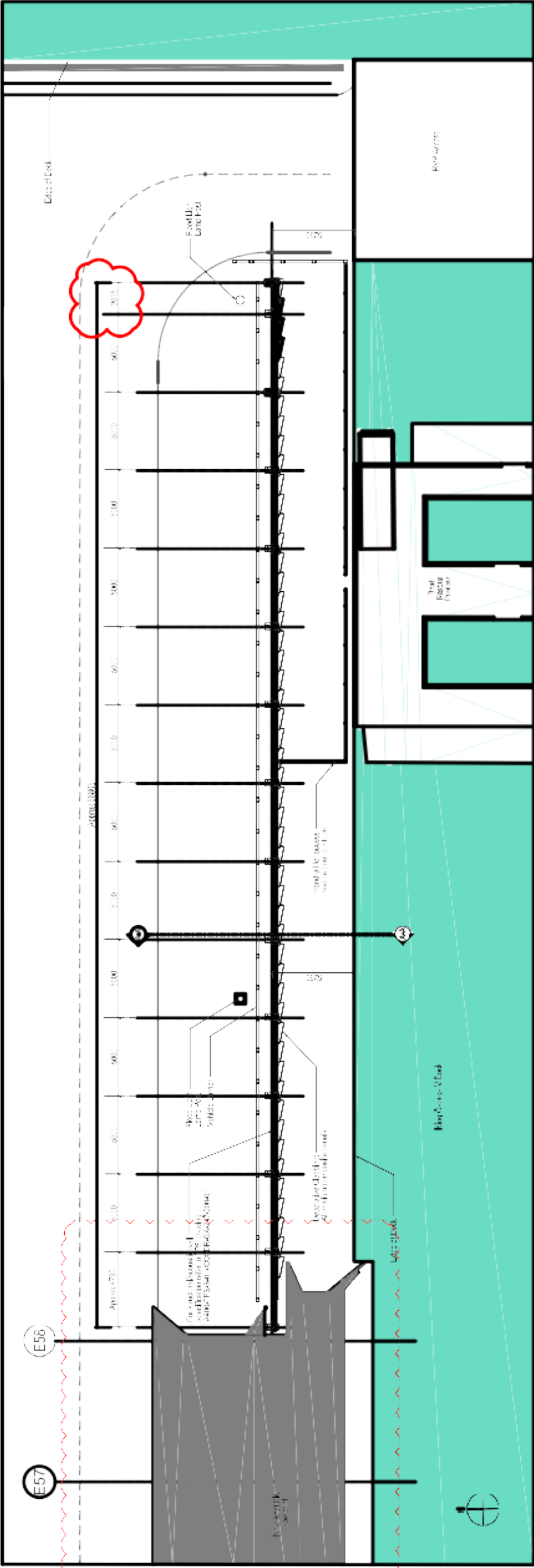
Noise Barrier Plan Detail  
1:20



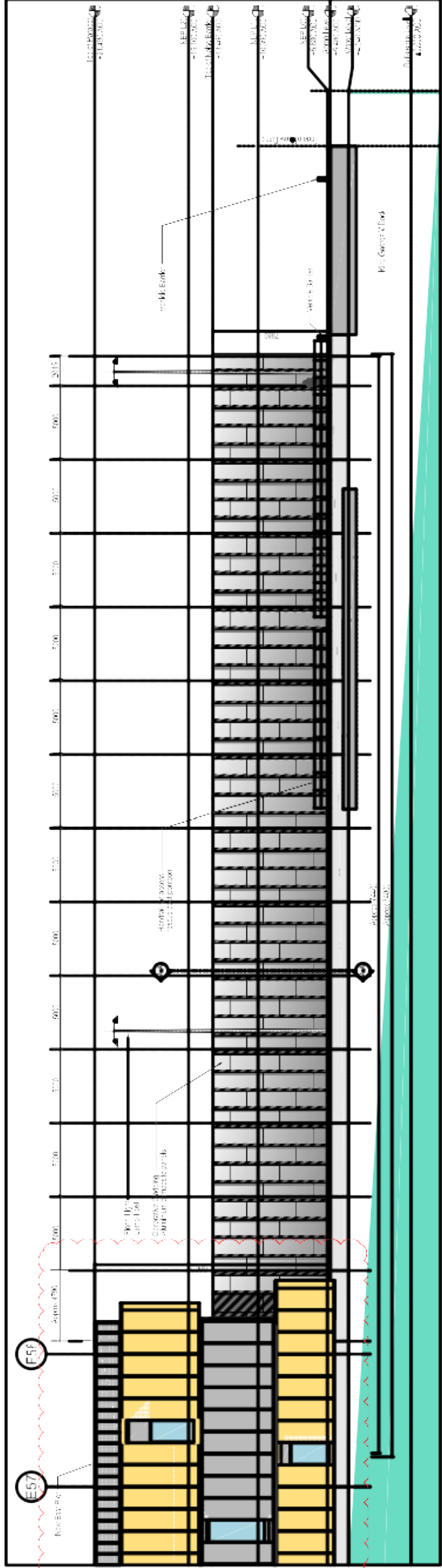
Noise Barrier Cross Section A-A Showing MFL Fast Elevation  
1:20



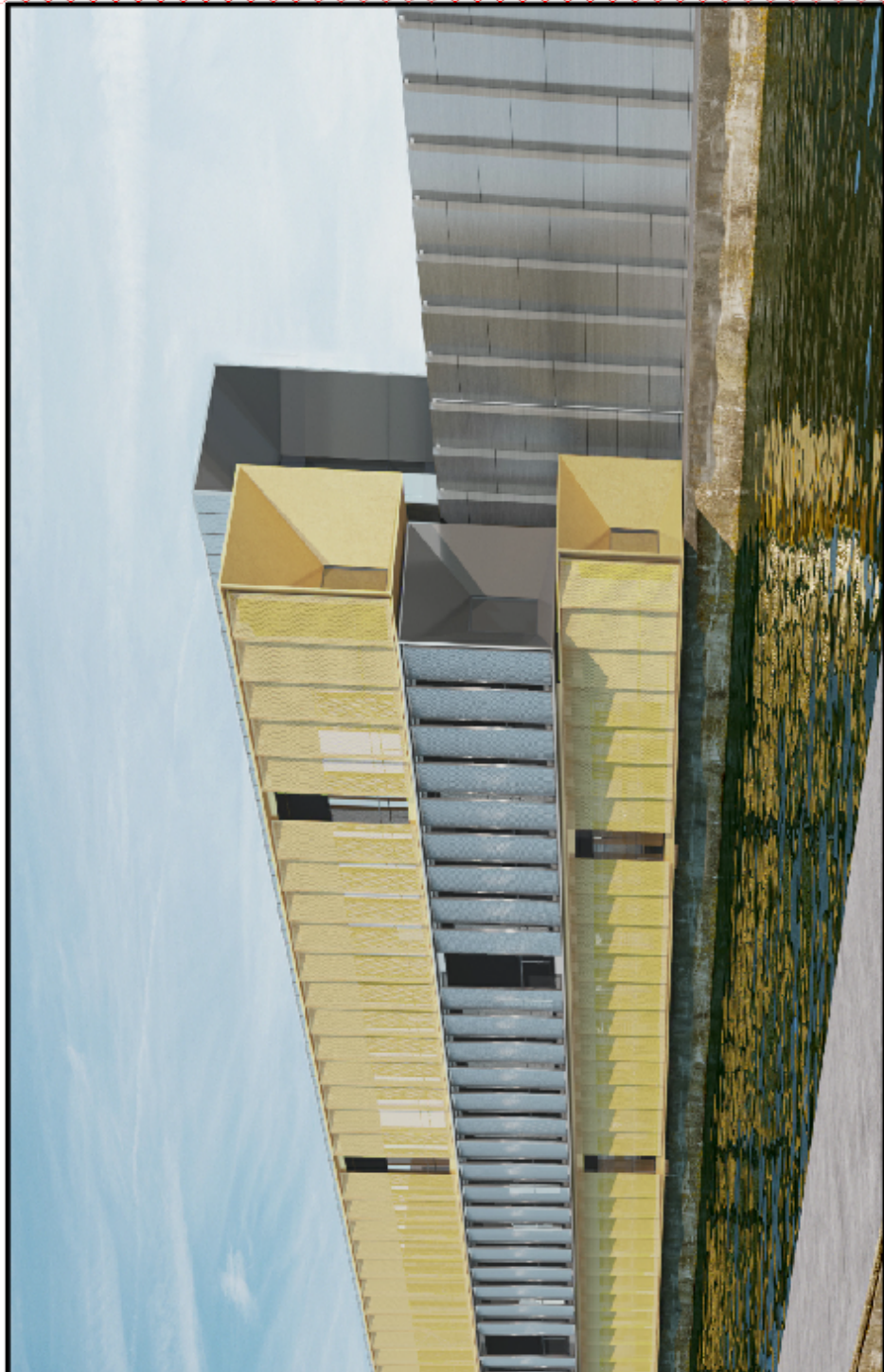
View of the New Fast Pier and the Noise Barrier from North  
3D Simulation



Noise Barrier Site Plan  
1:20



Noise Barrier South Elevation  
1:20



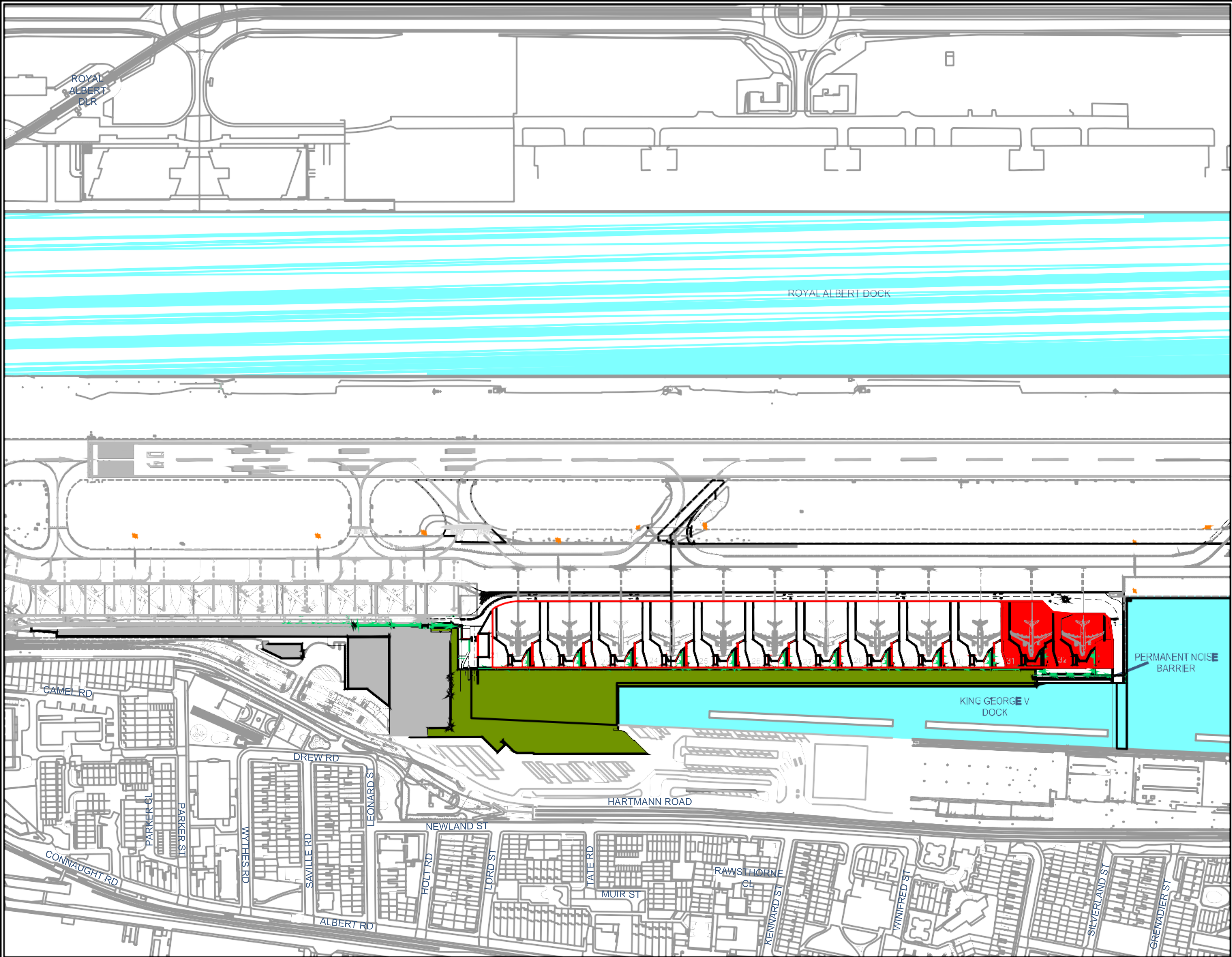
View of the New Fast Pier and the Noise Barrier from South  
3D Simulation

London City Airport Get closer.	
PASCALL + WATSON The Noise Barrier Design Team 1000 Old Kent Road, London SE16 3LQ www.pascall-watson.co.uk	
LONDON CITY AIRPORT	
CITY AIRPORT DEVELOPMENT PROGRAMME	
CADP	
Pre-Commencement	
Conductor 5.3	
Proposed Permanent Noise Barrier	
Client	London City Airport
Project No.	5077
Project Name	London City Airport
Project Location	London City Airport
Project Date	15/02/2017
Project Status	AS - In Review
Project Manager	AS - In Review
Project Engineer	AS - In Review
Project Designer	AS - In Review
Project Checker	AS - In Review
Project Approver	AS - In Review
Project Sign-off	AS - In Review
Project Close-out	AS - In Review
Project Handover	AS - In Review
Project Review	AS - In Review
Project Feedback	AS - In Review
Project Lessons Learned	AS - In Review
Project Archive	AS - In Review
Project Status	AS - In Review
Project Date	15/02/2017
Project Location	London City Airport
Project Name	London City Airport
Project No.	5077
Project Status	AS - In Review
Project Manager	AS - In Review
Project Engineer	AS - In Review
Project Designer	AS - In Review
Project Checker	AS - In Review
Project Approver	AS - In Review
Project Sign-off	AS - In Review
Project Close-out	AS - In Review
Project Handover	AS - In Review
Project Review	AS - In Review
Project Feedback	AS - In Review
Project Lessons Learned	AS - In Review
Project Archive	AS - In Review



## Appendix 2 - PLAN P1

PLAN P1 EASTERN TERMINAL EXTENSION, LCY P+W 4486 B GA20005

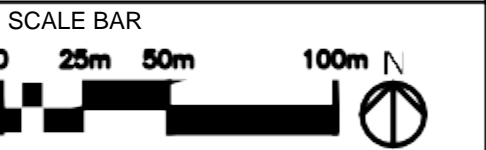


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- Base building survey information by LCY and MSA



- LEGEND:
- EXISTING BUILDINGS
  - PROPOSED EASTERN TERMINAL EXTENSION
  - STANDS NOT TO BE OCCUPIED UNTIL PERMANENT NOISE BARRIER INSTALLED
  - NEW AND MODIFIED STANDS

-	SW	31.03.16	Issued for Planning
-	MN	22.03.16	Issued for Planning
-	SW	01.12.15	Issued for Planning
Rev	Dm	Date	Description

LondonCityAirport

London City Airport Limited, City Airport Road, London E16 2NR

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Client:  
LONDON CITY AIRPORT

Project Name:  
CITY AIRPORT DEVELOPMENT PROGRAM

Title:  
PLAN P1  
EASTERN TERMINAL EXTENSION

Discipline		Project Phase	
Architecture		Planning	
Drawing Originator		Originator's Job No.	
Pascall+Watson architects		4486	
Checked By	Checked Date	Drawn By	Drawn Date
SW	31.03.2016	JG	11.03.2013
Approved By	Approval Date	Scale	
MN	31.03.2016	1:1500 @ A1	

Client: LCY	Originator: P+W	Project Ref.: 4486	Discipline: B	Drawing No.: GA20005	Revision: -
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