

CURRENT STATE. ELEVATION  
SCALE: 1:100

REV.	DATE	DESCRIPTION	PRODUCED BY	REVIEWED BY	APPROVED BY
V01	April 2022	PLANNING ISSUE	EAC	ACJ	CCH

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 Survey No. 6039720 (OS Aerial Data or OS Lidar Data) & Survey No. 202005\_NMA\_180 (OS Vector Data).  
 All elevations are in metres and relate to OSi Geoid Model (OSGM02) Mean Head as defined by existing Project Control.  
 All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TLG9).

Client

Consultant

Project

Drawing Title

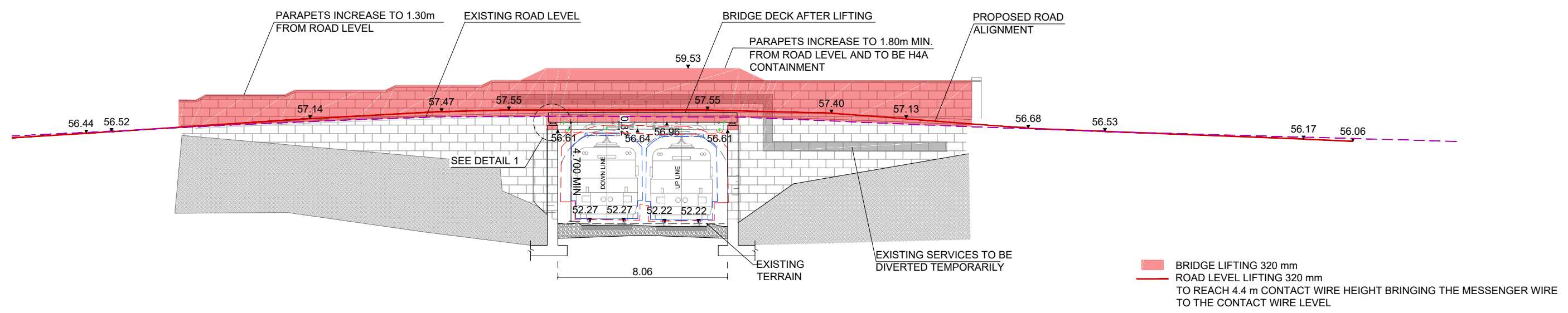
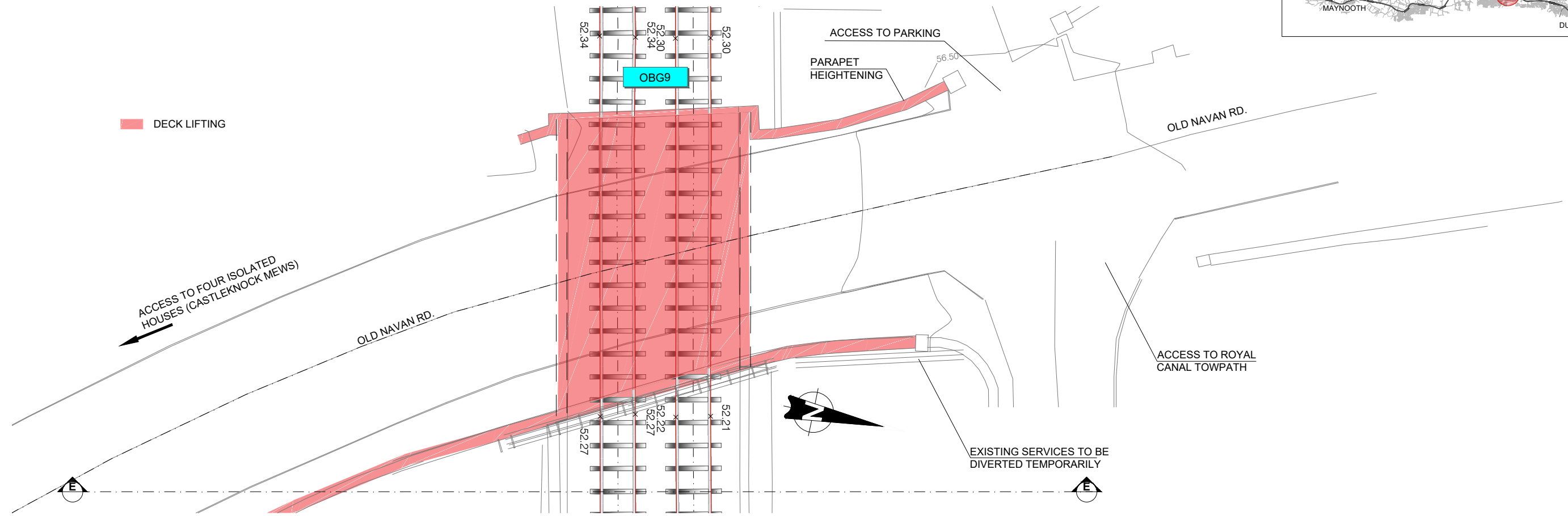
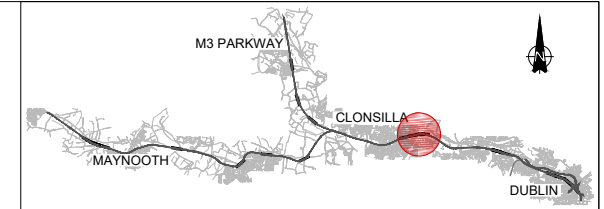
STRUCTURE DESIGN  
OBG9. BRIDGE DECK HEAVY LIFTING  
CURRENT STATE

Scale: 1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase

MAY MDC STR RS08 DR C 0002 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 1 of 5



FINAL STATE. ELEVATION  
SCALE: 1:100

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Client

Consultant

Project

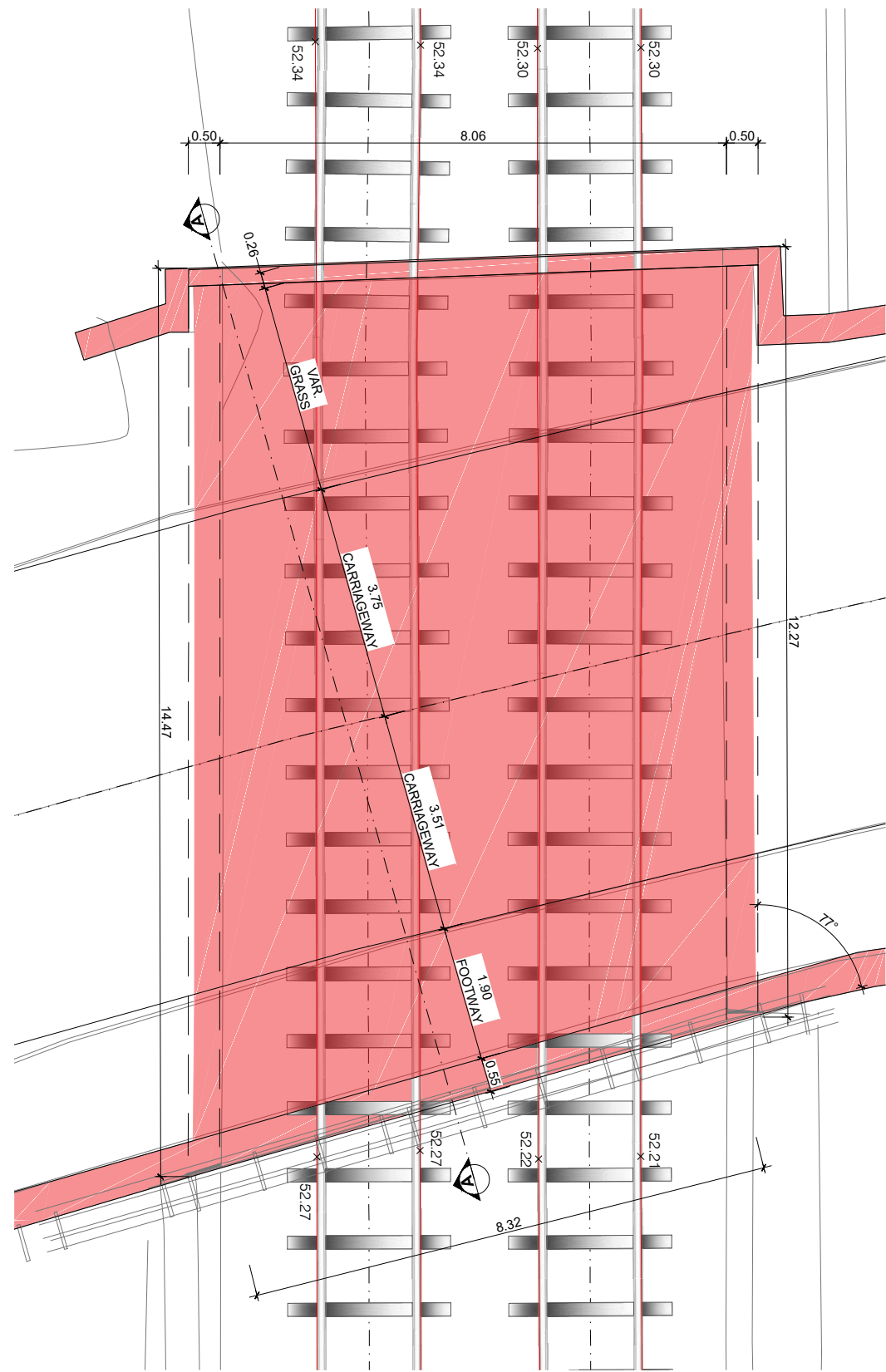
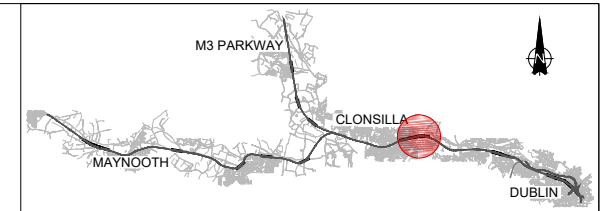
Drawing Title

STRUCTURE DESIGN  
OBG9. BRIDGE DECK HEAVY LIFTING  
FINAL STATE

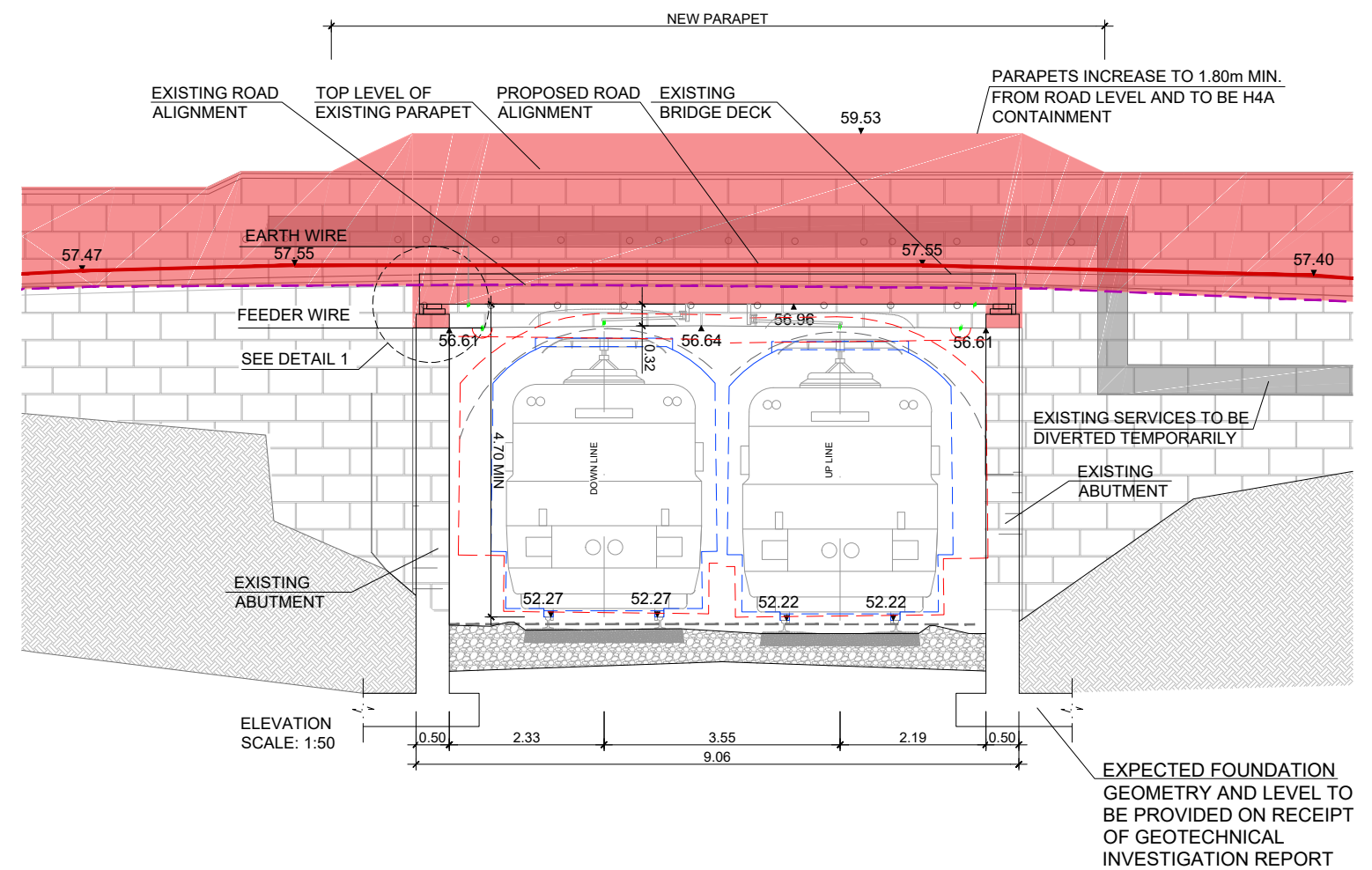
Scale:  
1:1000 @ A1 1:2000 @ A3

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MAY MDC STR RS08 DR C 0002 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 2 of 5



PLAN  
SCALE: 1:50



ELEVATION  
SCALE: 1:50

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Client

Consultant

Project

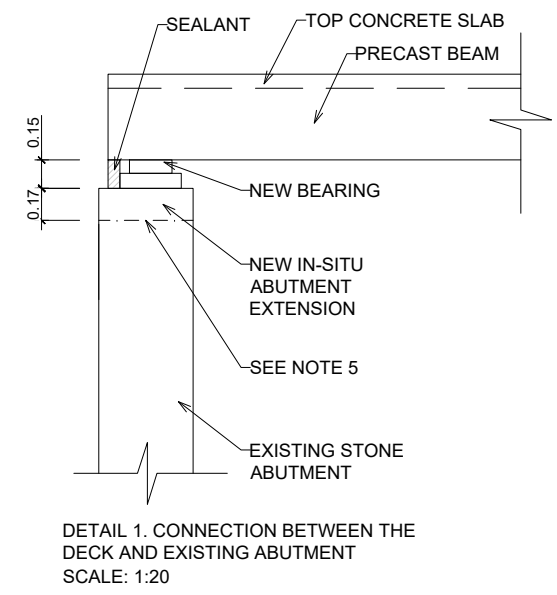
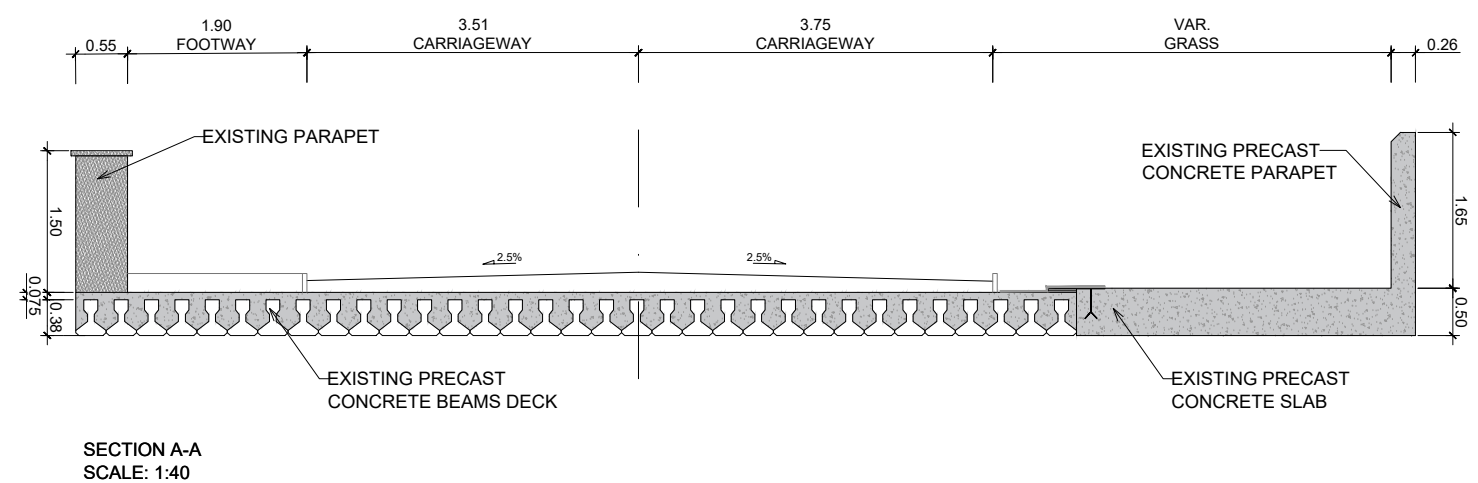
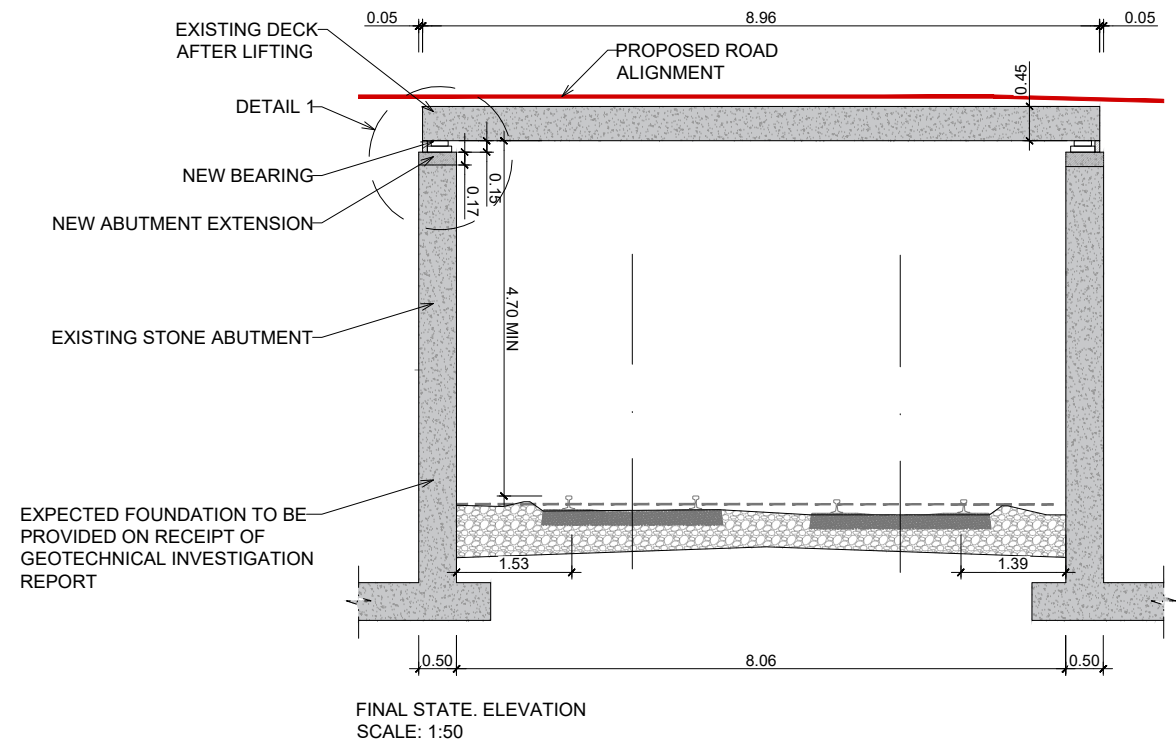
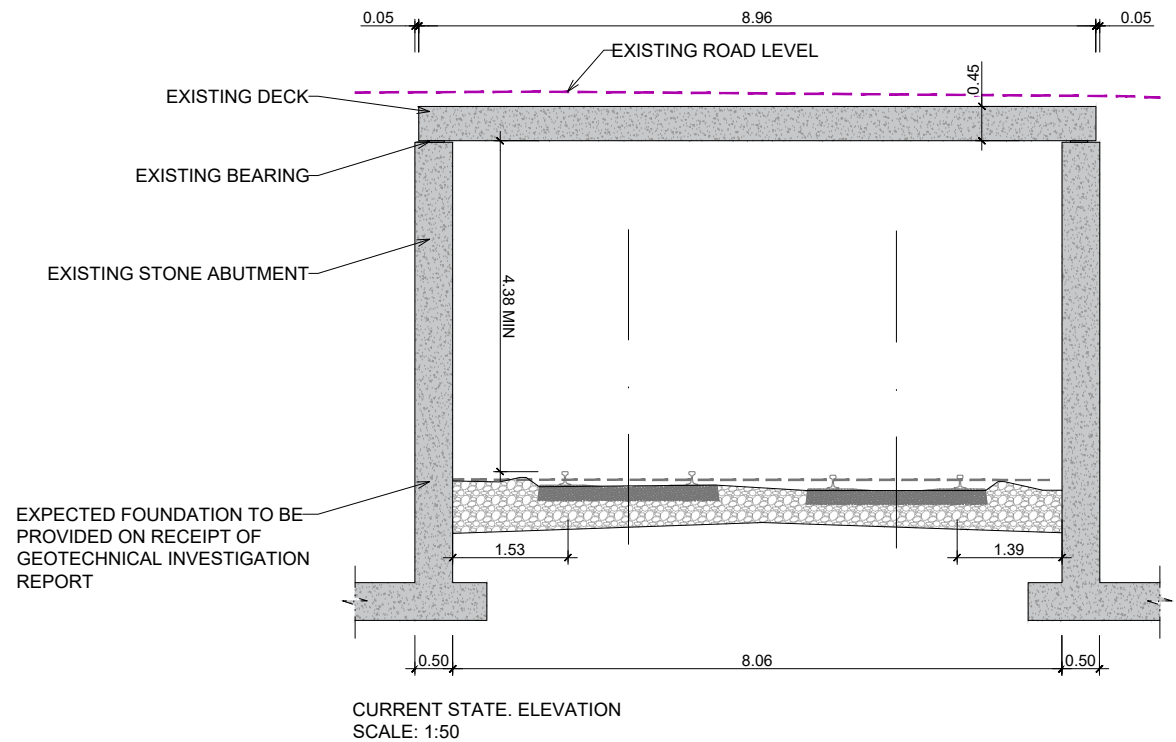
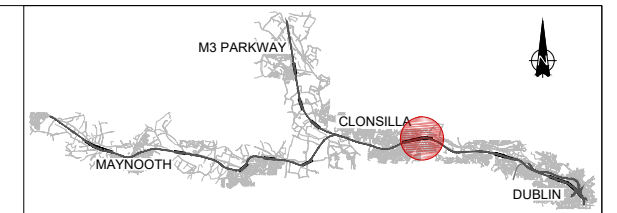
Drawing Title

STRUCTURE DESIGN  
OBG9. BRIDGE DECK HEAVY LIFTING  
FINAL STATE DETAIL

Scale:  
1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase  
MAY MDC STR RS08 DR C 0002 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 3 of 5



- NOTES (TOP DOWN):
- 1) STRUCTURAL CONCRETE TOPPING
  - 2) PRECAST CONCRETE BEAM
  - 3) NEW ELASTOMERIC BEARING (DESIGN DEPENDENT)
  - 4) EXTENDED ABUTMENT WALL HEAD
  - 5) FACE OF EXISTING ABUTMENT WORK: PLACE LEVELLING LAYER AND STEEL BEAM WITH ANCHOR BOLTS TO BE CAST INTO THE NEW ABUTMENT EXTENSION
  - 6) EXISTING ABUTMENT

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Client

Tionscail Éireann Project Ireland 2040

NTA Údarás Náisiúnta Iomparáil National Transport Authority

Irish Rail

Consultant

IDOM

G3

IRIOD

Project

DART+ West

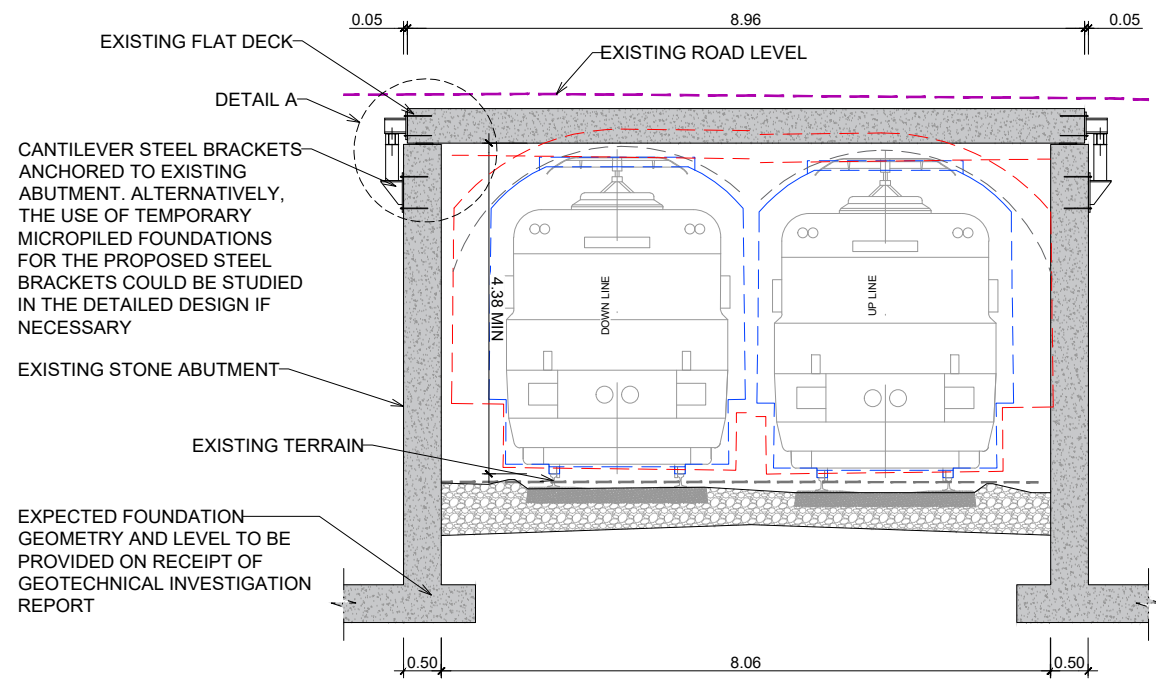
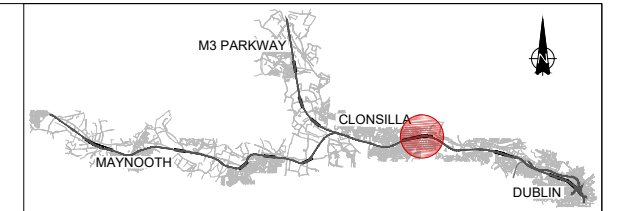
Drawing Title

STRUCTURE DESIGN  
OBG9. BRIDGE DECK HEAVY LIFTING  
STRUCTURAL DESIGN DETAIL

Scale: 1:1000 @ A1 1:2000 @ A3

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Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 4 of 5



TEMPORARY SUPPORTING SYSTEM WITH CANTILEVER STEEL BRACKETS.  
DECK JACKING SUPPORT STRUCTURE  
SCALE: 1:50

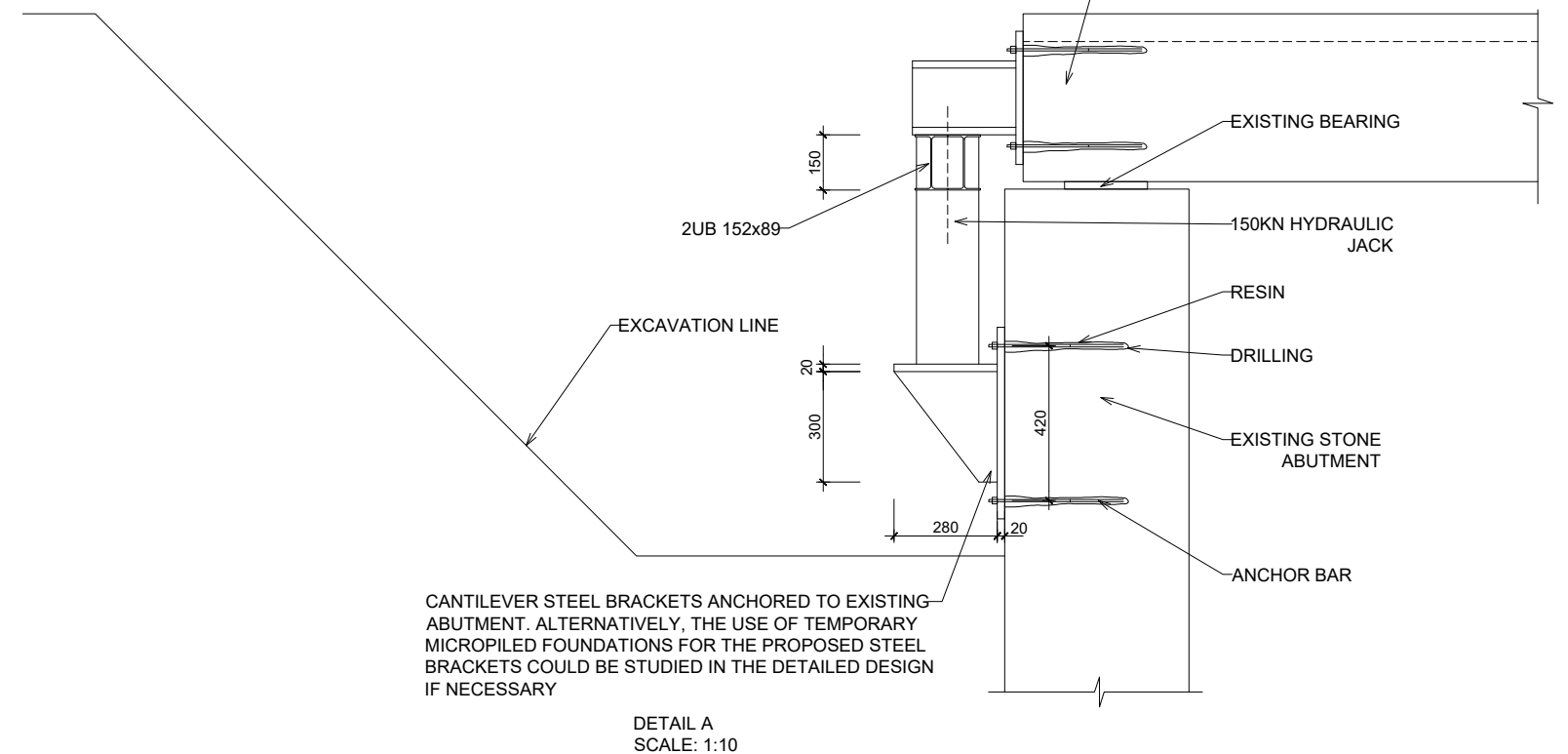
NOTE:

- WEIGHTS  
SELF-WEIGHT OF DECK & PARAPETS APPROX. 1550KN  
DEAD LOAD OF PAVEMENT APPROX. 220KN  
TOTAL WEIGHT OF DECK, PARAPETS & PAVEMENT APPROX. 1770KN  
(WEIGHTS STATED ARE ESTIMATED VALUE ACCORDING TO EXISTING DRAWINGS & WILL BE CONFIRMED AT DETAILED DESIGN STAGE)
- JACKS WILL BE INSERTED UNDER THE DECK AROUND EVERY 2M, WHICH IS 6 JACKS ON EACH ABUTMENT AND A TOTAL OF 12 JACKS. EACH JACK WILL CARRY AROUND 148 kN.



EXAMPLE OF JACK OF MAX. 150KN  
(SOURCES: LARZEP OFFICIAL WEBSITE)

DIMENSIONS (MM)	
MODEL (LARZEP)	SL01643
CAPACITY (kN)	150
STROKE (mm)	435
CLOSED HEIGHT (mm)	345
EXTENDED HEIGHT (mm)	780
DIAMETER (mm)	170
WEIGHT (Kg)	41



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Client

Consultant

Project

Drawing Title

STRUCTURE DESIGN  
OBG9. BRIDGE DECK HEAVY LIFTING  
TEMPORARY DECK LIFTING STRUCTURE DETAIL

Scale:  
1:1000 @ A1 1:2000 @ A3

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