

CURRENT STATE. ELEVATION
SCALE: 1:100

V06	28/01/2022	STRUCTURE DETAIL ADDED	EAC	ACJ	CCH
V01	April 2022	PLANNING ISSUE	EAC	ACJ	CCH
REV.	DATE	DESCRIPTION	PRODUCED BY	REVIEWED BY	APPROVED BY

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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 (TL49).

Client

Consultant

Project

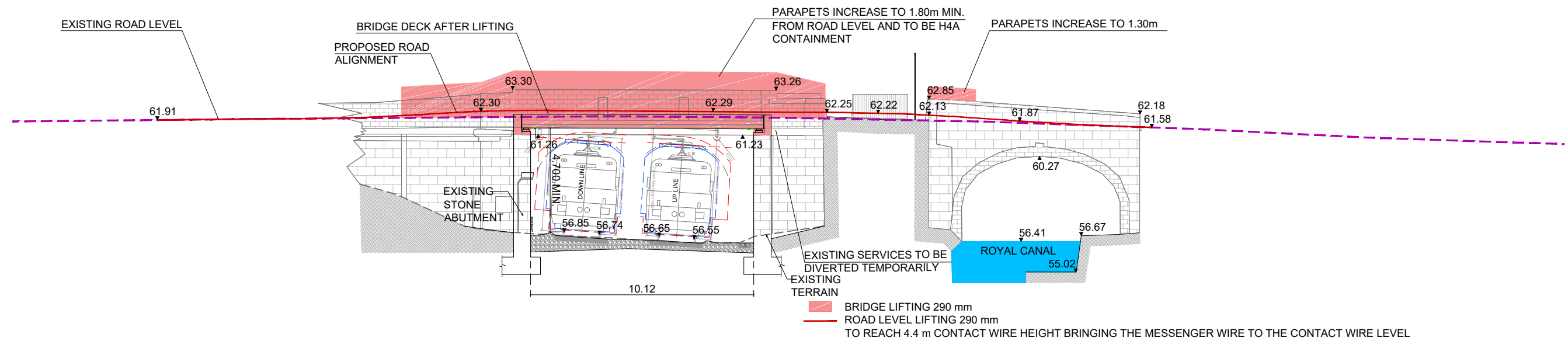
Drawing Title

STRUCTURE DESIGN
OBG16. 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 RS13 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

V06	28/01/2022	STRUCTURE DETAIL ADDED	EAC	ACJ	CCH
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Client

Consultant

Project

Drawing Title

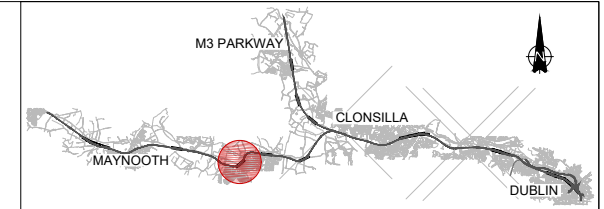
STRUCTURE DESIGN
OBG16. BRIDGE DECK HEAVY LIFTING
FINAL STATE

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

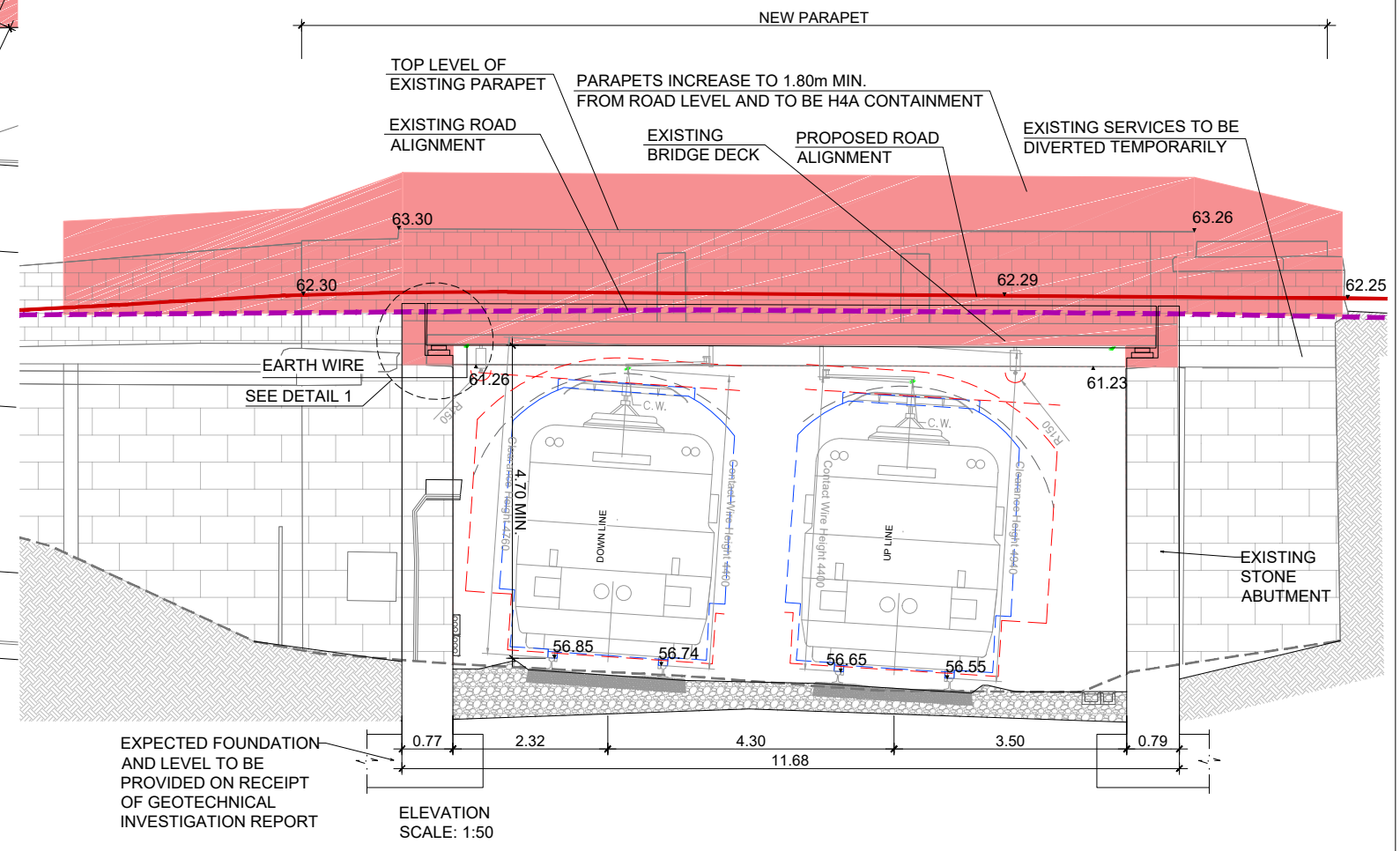
Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase

MAY MDC STR RS13 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



EXPECTED FOUNDATION AND LEVEL TO BE PROVIDED ON RECEIPT OF GEOTECHNICAL INVESTIGATION REPORT
ELEVATION SCALE: 1:50

V06	28/01/2022	STRUCTURE DETAIL ADDED	EAC	ACJ	CCH
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Client

Consultant

Project

Drawing Title

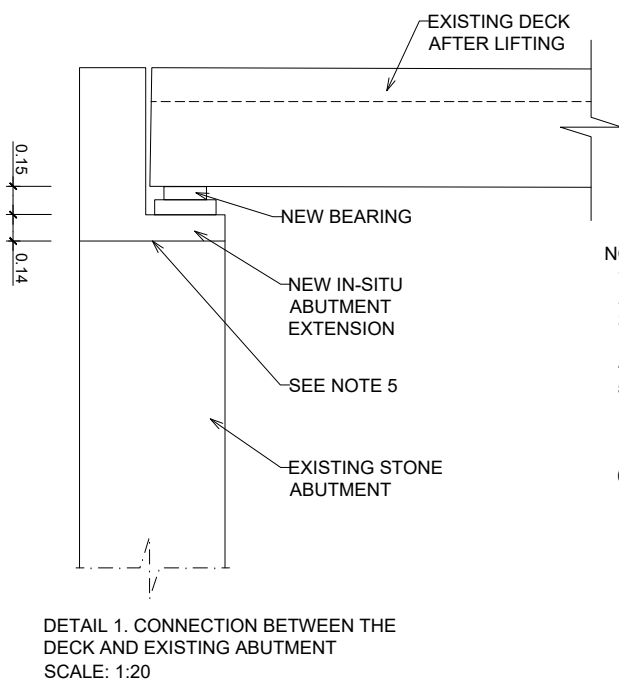
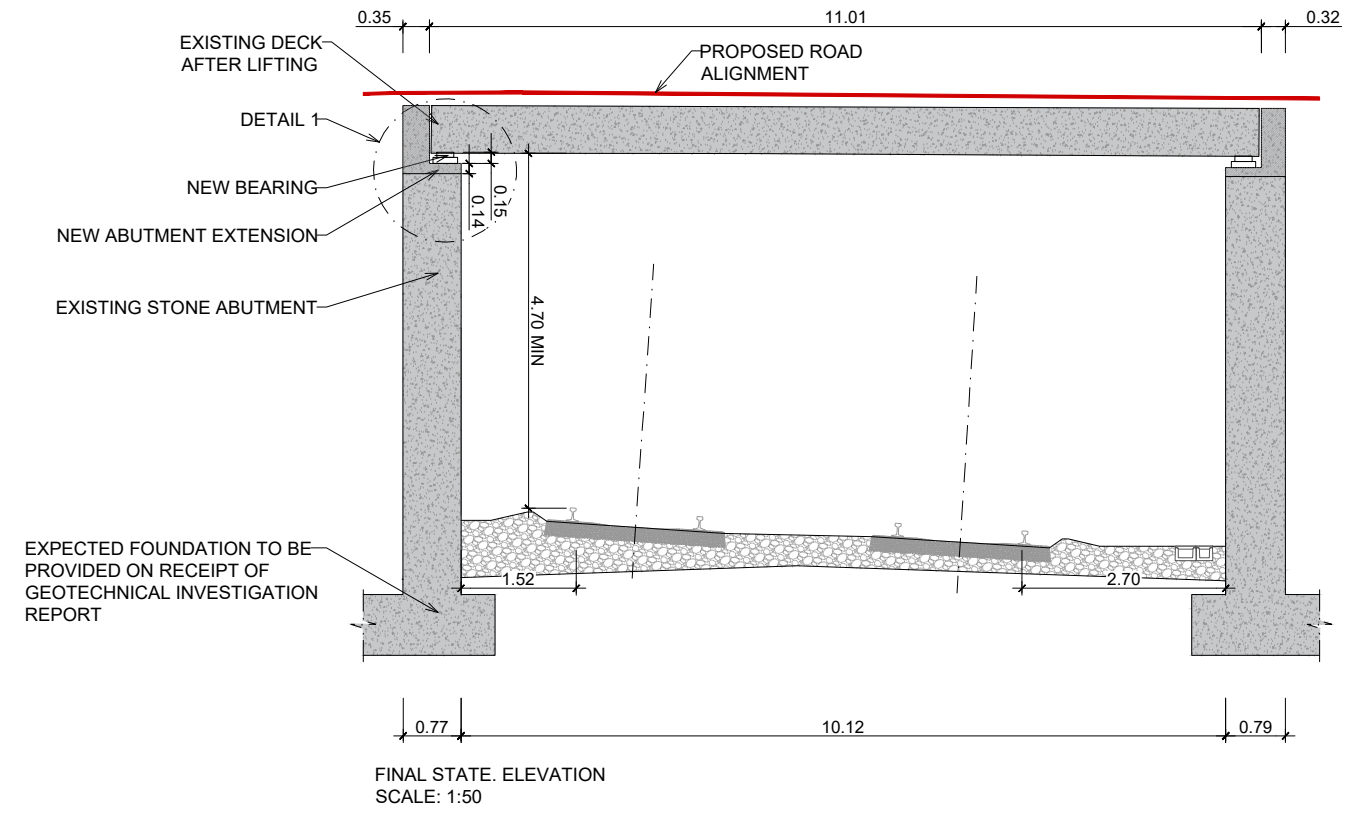
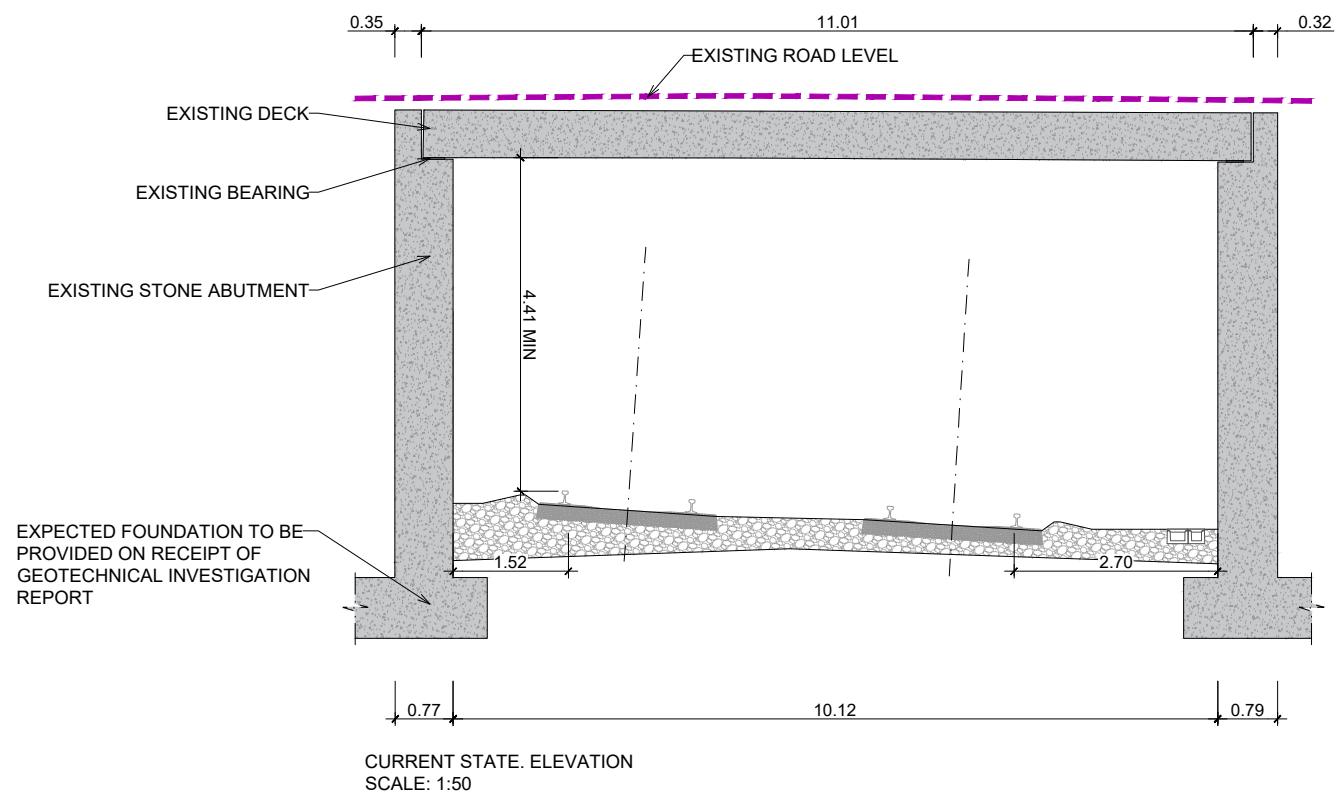
STRUCTURE DESIGN
OBG16. BRIDGE DECK HEAVY LIFTING
FINAL STATE DETAIL

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

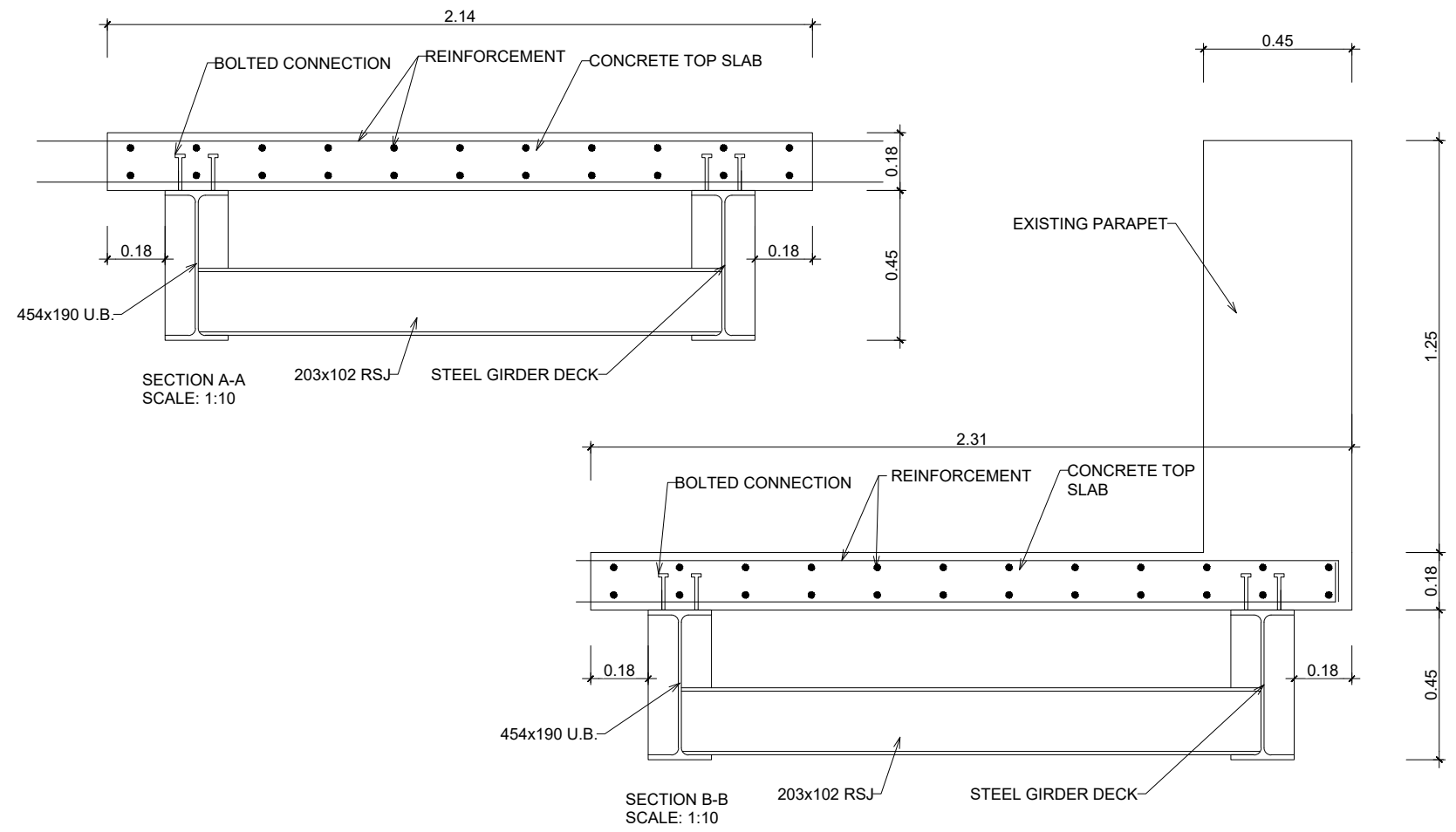
Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase
MAY MDC STR RS13 DR C 0002 D

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

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All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TL49).



- NOTES (TOP DOWN):
- 1) STRUCTURAL CONCRETE TOP SLAB
 - 2) STEEL GIRDER DECK
 - 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 STONE ABUTMENT



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Client

Tionscatal Éireann
Project Ireland
2040

NTA
Údarás Náisiúnta Iompartha
National Transport Authority

Iarnród Éireann
Irish Rail

Consultant

IDOM

G3

IROD
I. RODRIGUEZ & D. RODRIGUEZ

Project

DART+
West

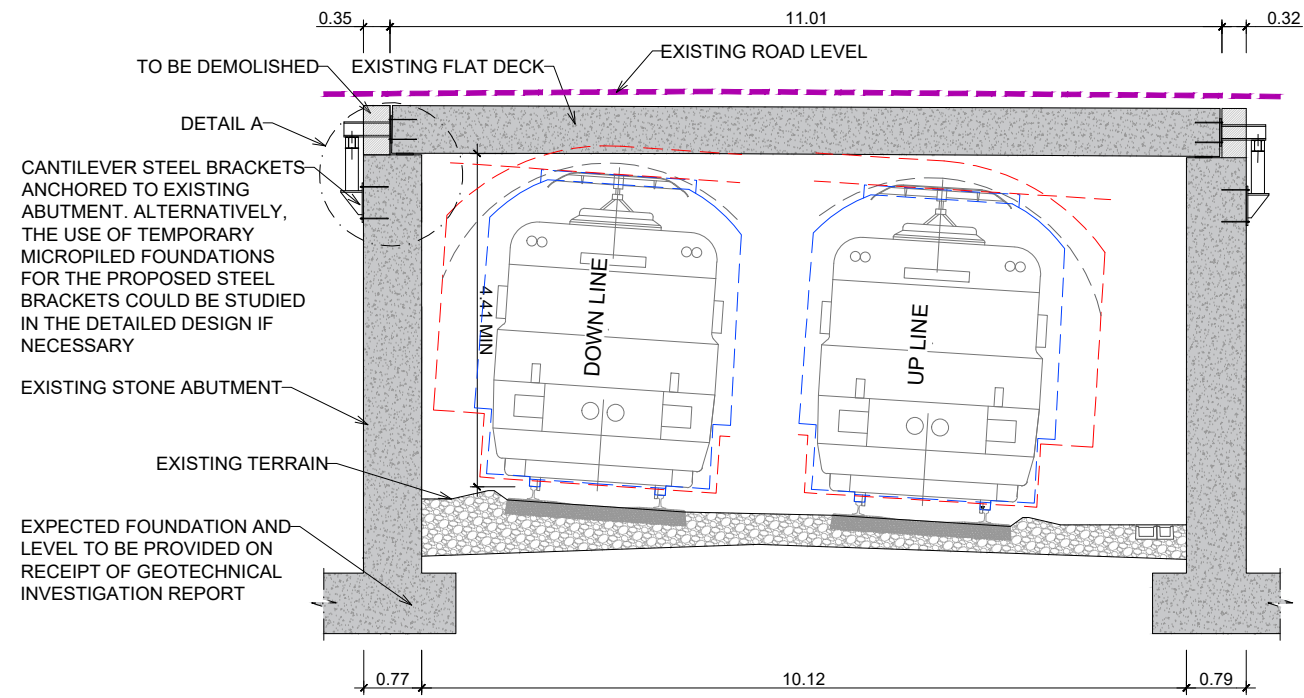
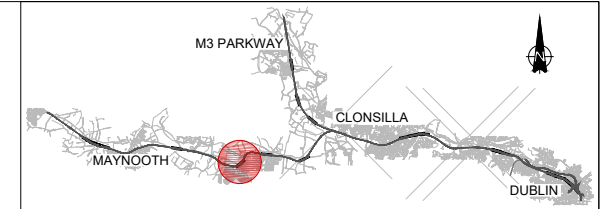
Drawing Title

STRUCTURE DESIGN
OBG16. BRIDGE DECK HEAVY LIFTING
STRUCTURAL DESIGN DETAIL

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

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase
MAY MDC STR RS13 DR C 0002 D

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



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

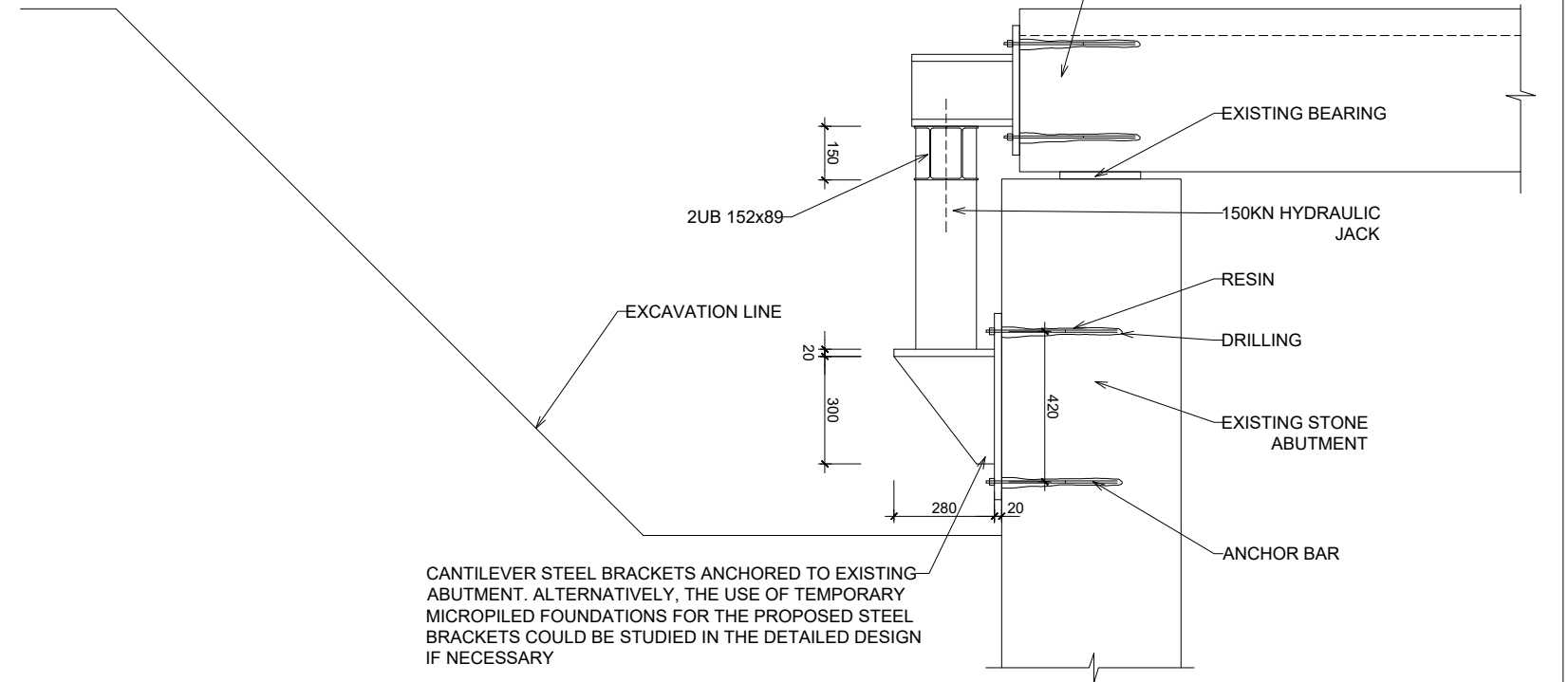
NOTE:

- WEIGHTS
 SELF-WEIGHT OF DECK & PARAPETS APPROX. 1050KN
 DEAD LOAD OF PAVEMENT APPROX. 250KN
 TOTAL WEIGHT OF DECK, PARAPETS & PAVEMENT APPROX. 1300KN
 (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 5 JACKS ON EACH ABUTMENT AND A TOTAL OF 10 JACKS. EACH JACK WILL CARRY AROUND 130 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



CANTILEVER STEEL BRACKETS ANCHORED TO EXISTING ABUTMENT. ALTERNATIVELY, THE USE OF TEMPORARY MICROPILED FOUNDATIONS FOR THE PROPOSED STEEL BRACKETS COULD BE STUDIED IN THE DETAILED DESIGN IF NECESSARY

DETAIL A
SCALE: 1:10

REV.	DATE	DESCRIPTION	EAC	ACJ	CCH
V01	April 2022	PLANNING ISSUE			

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 All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TLG).

Client:

Consultant:

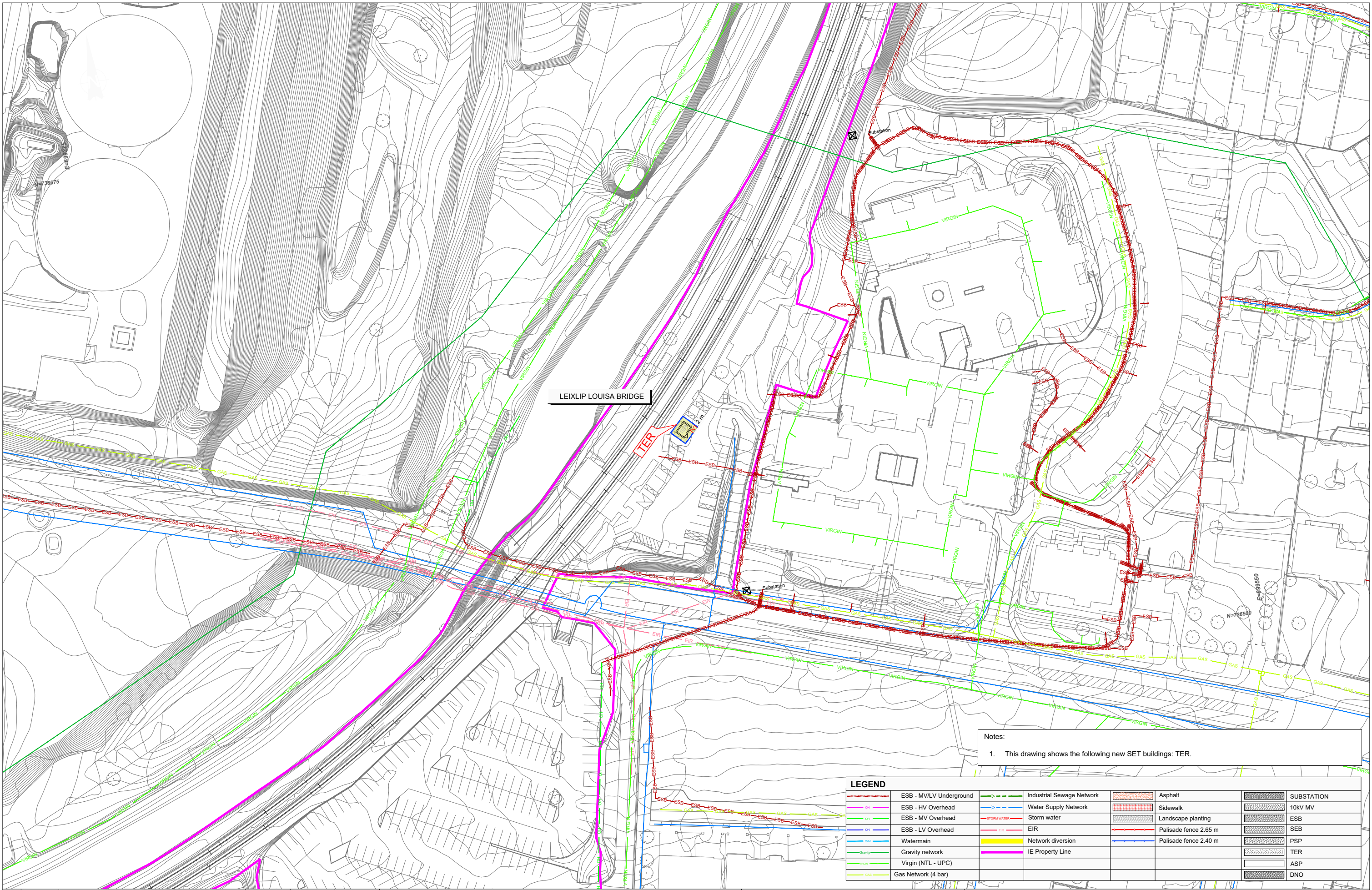
Project:

Drawing Title: **STRUCTURE DESIGN**
OBG16. BRIDGE DECK HEAVY LIFTING
TEMPORARY DECK LIFTING STRUCTURE DETAIL

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

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase
 MAY MDC STR RS13 DR C 0002 D

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



LEIXLIP LOUISA BRIDGE

TER

Substation

Notes:
1. This drawing shows the following new SET buildings: TER.

LEGEND			
	ESB - MV/LV Underground		Industrial Sewage Network
	ESB - HV Overhead		Water Supply Network
	ESB - MV Overhead		Storm water
	ESB - LV Overhead		EIR
	Watermain		Network diversion
	Gravity network		IE Property Line
	Virgin (NTL - UPC)		Asphalt
	Gas Network (4 bar)		Sidewalk
			Landscape planting
			Palisade fence 2.65 m
			Palisade fence 2.40 m
			Substation
			10KV MV
			ESB
			SEB
			PSP
			TER
			ASP
			DNO

V01	April 2022	PLANNING ISSUE	MCG	MPT	CCS
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Client

Consultant

Project

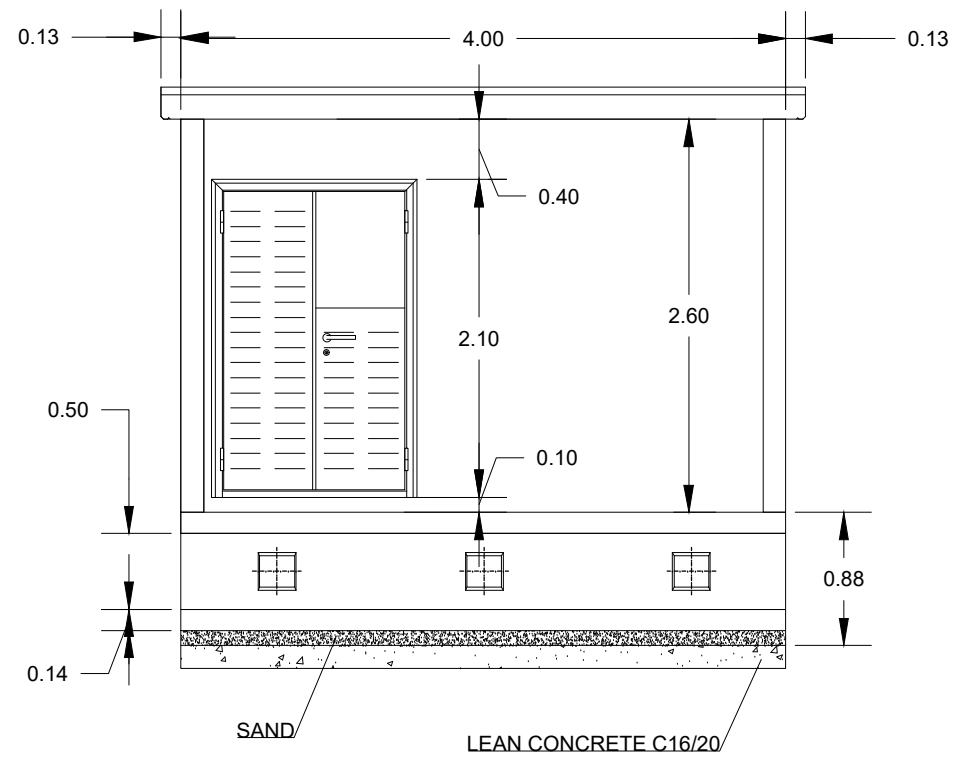
Drawing Title

SET TECHNICAL BUILDINGS
LEIXLIP (LOUISA BRIDGE)

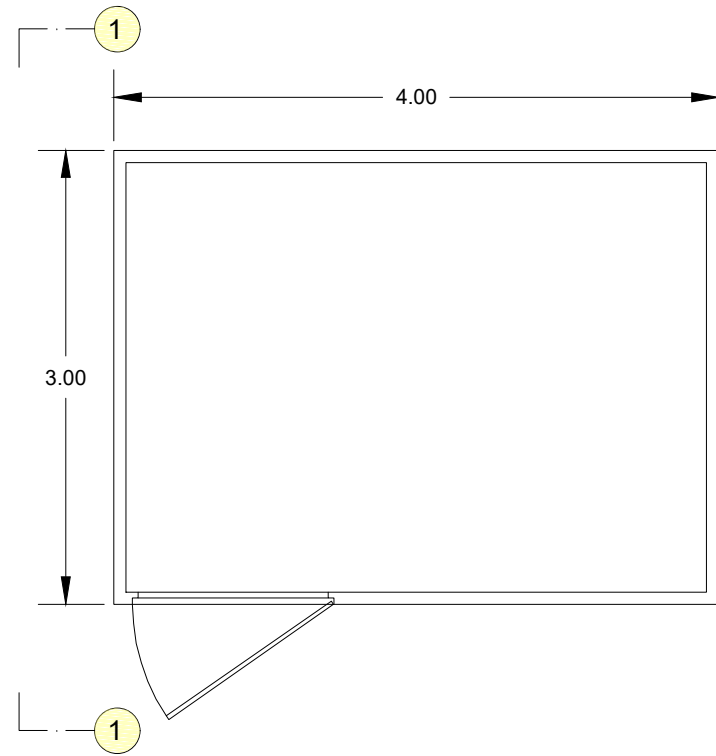
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Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase
MAY MDC SET RS13 DR Z 0003 D

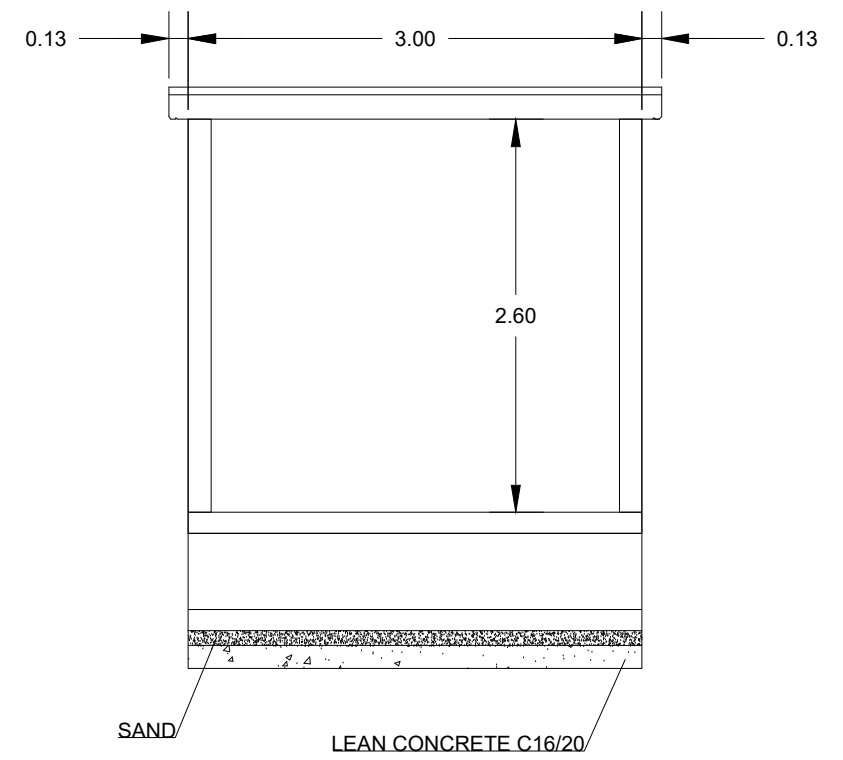
Date: April 2022 | Job No: P/101086 | Status: F1-Approved & accepted | Rev: V01 | Sheet: 01 of 01



FRONT VIEW



PLANT VIEW



VIEW 1'-1'

TER BUILDING

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 All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TL40).

Client

Consultant

Project

Drawing Title

SET TECHNICAL BUILDINGS
LEIXLIP (LOUISA BRIDGE) BUILDINGS DETAIL

Scale: 1:20@ A3

Date:	Job No:	Status:	Rev:	Sheet:
April 2022	P/101086	F1-Approved & accepted	V01	01 of 01