Govan Partick Bridge

Marine Licence Supporting Statement

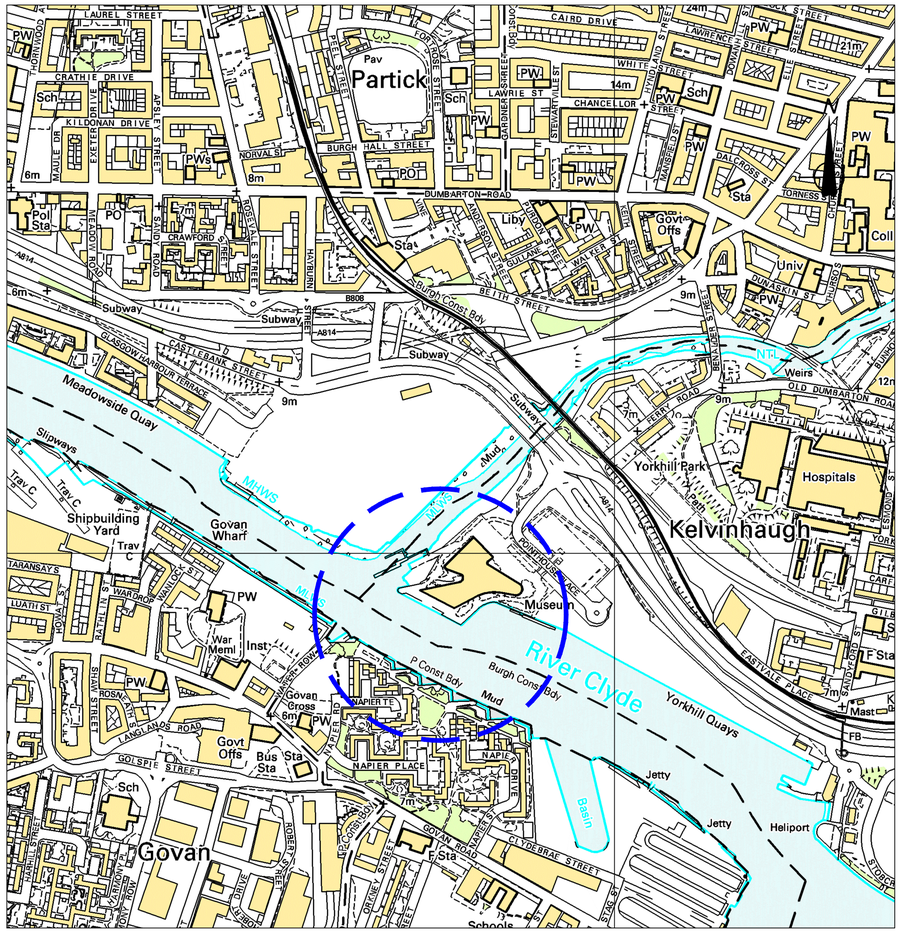
Appendix A (Rev C) – Drawings

19 November 2020

APPENDIX A

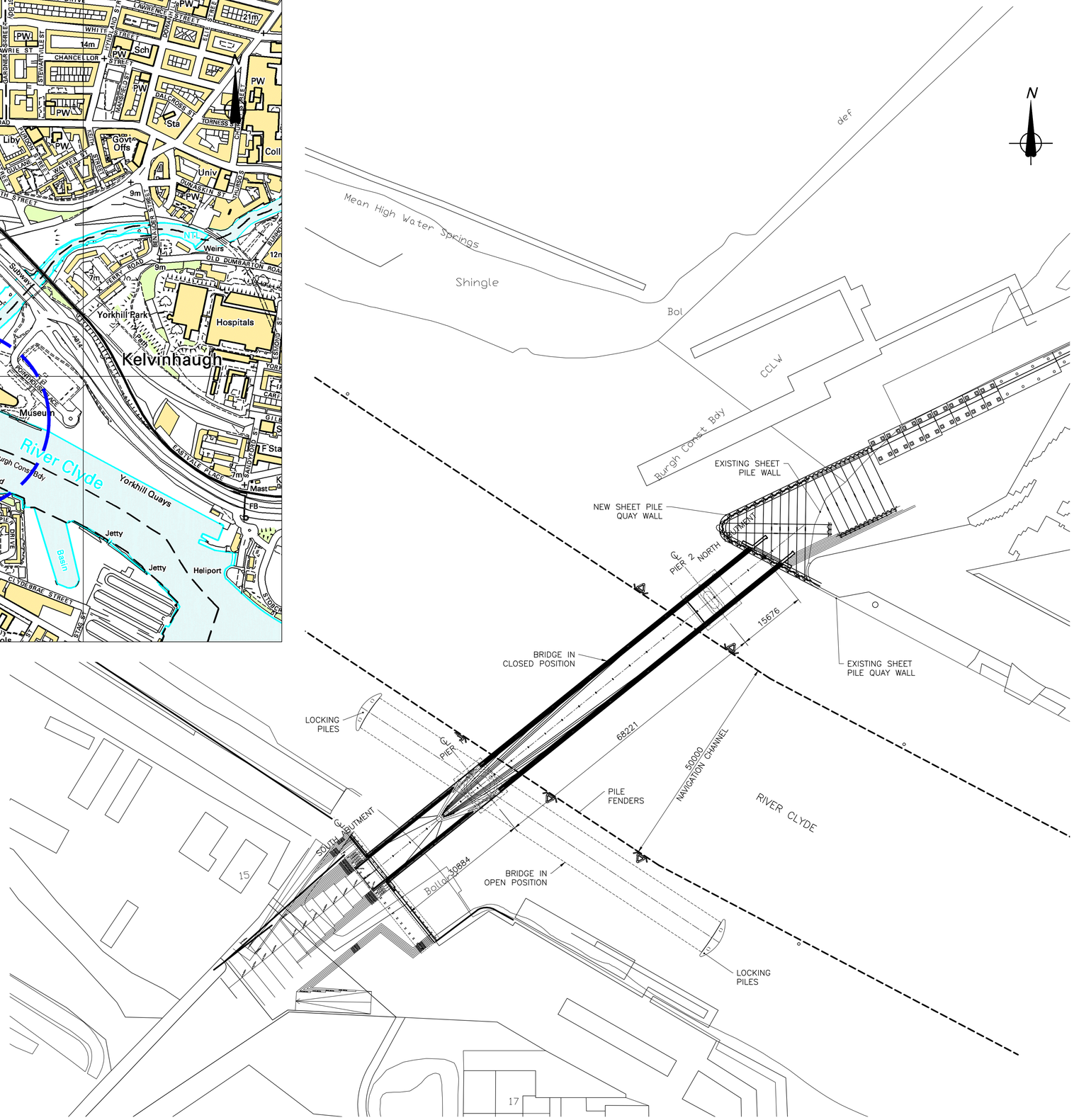
DRAWINGS

Drawing Number	Drawing Title
691301-JAC-DR-0005	Location Plan
691301-JAC-DR-0010	General Arrangement Sheet 1 of 3
691301-JAC-DR-0011	General Arrangement Sheet 2 of 3
691301-JAC-DR-0012	General Arrangement Sheet 3 of 3
691301-JAC-DR-0020	Setting Out
691301-JAC-DR-0021	South Piling Platform Setting Out
691301-JAC-DR-0022	Pointhouse Quay Location and General Arrangement
691301-JAC-DR-0023	Fender Pile Setting Out
691301-JAC-DR-0030	Proposed Outlined Pier Construction Sequence
691301-JAC-DR-0031	Proposed Outlined Deck Construction Sequence
691301-JAC-DR-0032	Pointhouse Quay Construction Sequence Sheet 1 of 3
691301-JAC-DR-0033	Pointhouse Quay Construction Sequence Sheet 2 of 3
691301-JAC-DR-0034	Pointhouse Quay Construction Sequence Sheet 3 of 3
691301-JAC-DR-0630	Fenders General Arrangement
691301-JAC-DR-0660	Outline Submarine Cable Installation Proposal
691301-JAC-DR-9000-P2	Marine Licence Boundary – Area A - Govan Partick Bridge
P-5085-P31B	Layby Berth - Merklands Quay-Dredging Details
P-5085-P32B	Marine Licence Boundary – Area B - Layby Berth - Merklands Quay



GLASGOW CITY

Scale: 1:5000



PLAN LOCATION

Scale: 1:500

RESIDUAL HAZARDS

The following list provides reference to the Designer's Hazard/ Risk Assessment and indicates those hazards with a high mitigated residual risk index

Description of Risk	Ref. No.
Working adjustment to navigation channel.	1
Working adjustment to existing services.	2
Stability of existing Quay walls.	3

Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd
P0	29-07-2020	Issued for cat 3 check.	N.G.	D.H.	G.D.	DMacK

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Client
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Project
GOVAN - PARTICK FOOTBRIDGE

Drawing title
APPROVAL IN PRINCIPAL
GOVAN PARTICK BRIDGE
LOCATION PLAN

Drawing status: FOR CHECKING

Suitability

Scale: 1:500@ A1 — DO NOT SCALE

Jacobs No.

Client No.

Rev: P0

Drawing number
684639-JAC-DR-0005

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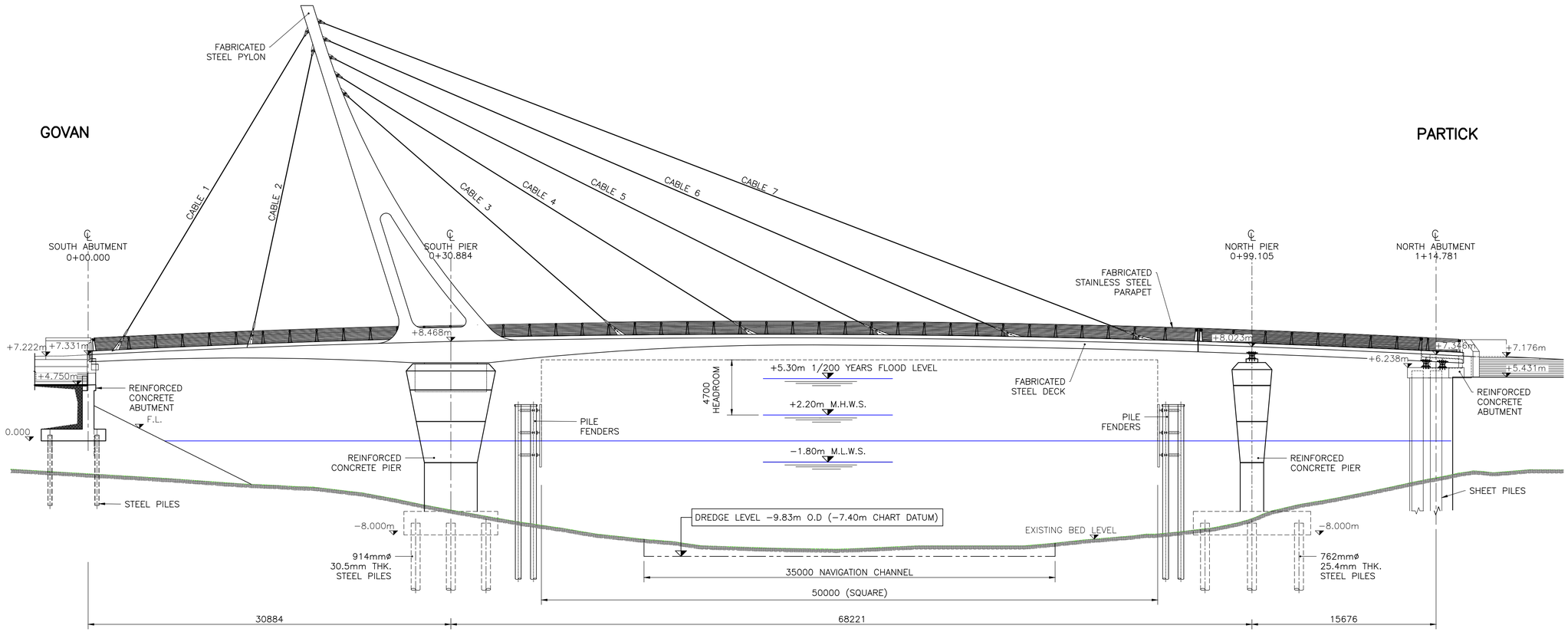
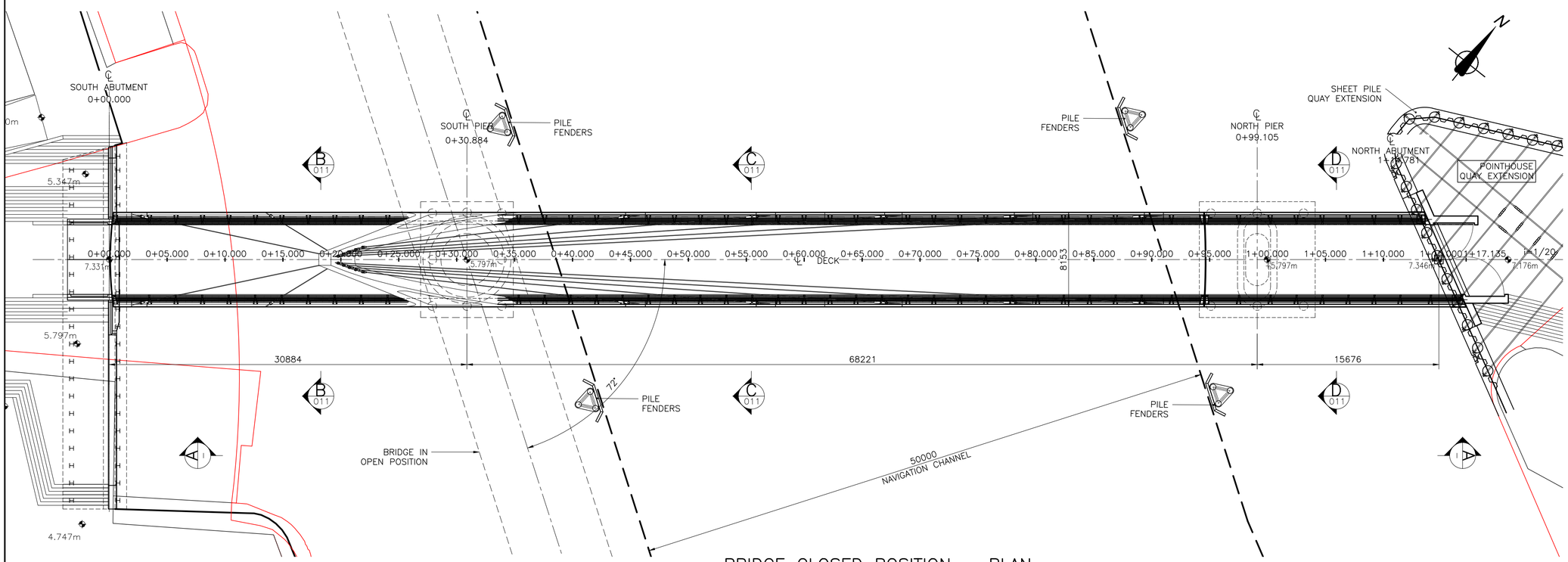
\\gfafpp01\Projects\Transportation\Transportation3\bridges\Partick Govan Footbridge\11 Preliminary\03 Structures\Drawings\Footbridge\Working Drawings\691301-JAC-DR-0005-LOCATION.dwg - 28/07/2020 16:17:35 - 684639-JAC-DR-0005 - DH013545

Notes:

1. FOR GENERAL NOTES REFER TO DRAWING NO. 691301–JAC–DR–002.



A ELEVATION
SCALE 1:200



BRIDGE CLOSED POSITION – PLAN
Scale: 1:200

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RESIDUAL HAZARDS

The following list provides reference to the Designer's Hazard/ Risk Assessment and indicates those hazards with a high mitigated residual risk index

Description of Risk	Ref. No.
Working adjustment to navigation channel.	1
Working adjustment to existing services.	2
Working over tidal water.	3
Working adjastant to access paths and pedestrians.	4

0 2 4 6 8 10 20
SCALE 1:200 @ A1 ; 1:400 @ A3 METRES

Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd
P0	29-07-2020	ISSUED FOR CAT 3 CHECK	MM	DH	GD	DMcK

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Client
GLASGOW CITY COUNCIL

Project
GOVAN - PARTICK BRIDGE

Drawing title
GOVAN PARTICK BRIDGE GENERAL ARRANGEMENT SHEET 1 OF 3

Drawing status: FOR CHECKING
Suitability
Scale: As noted at A1 — DO NOT SCALE
Jacobs No.
Client No.
Rev: P0

Drawing number
691301-JAC-DR-0010

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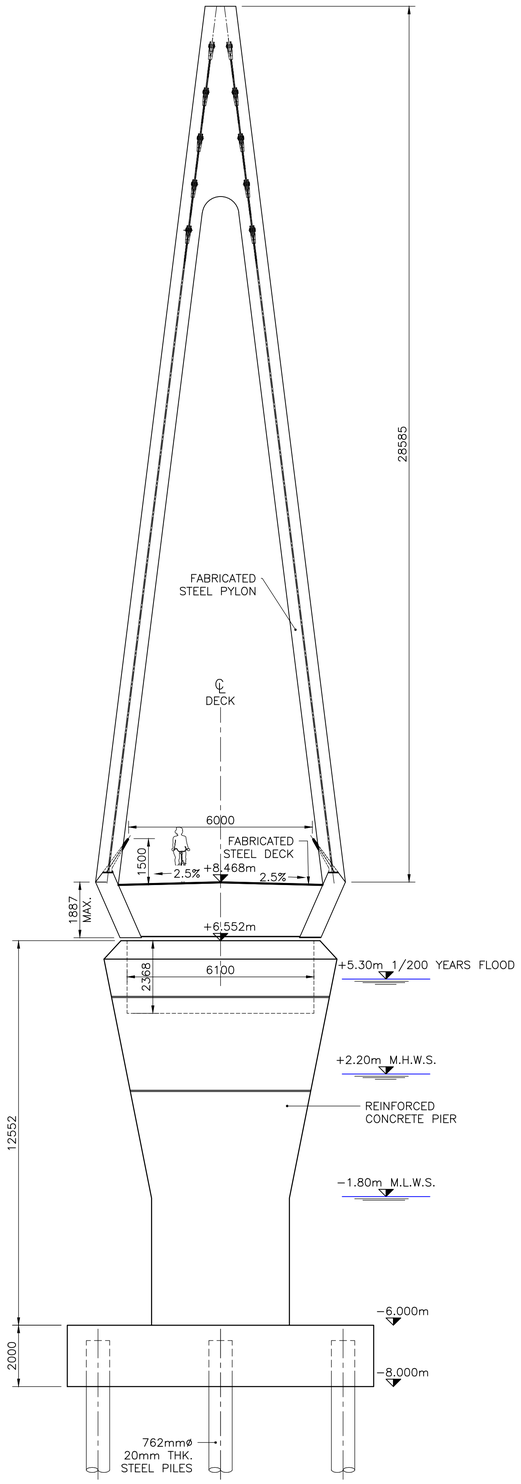
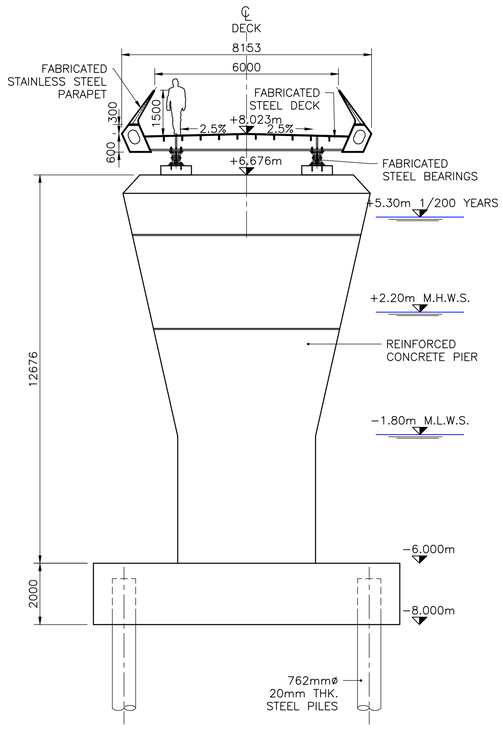


ELEVATION ON SOUTH PIER

Scale: 1:100



ELEVATION ON NORTH PIER

Scale: 1:100

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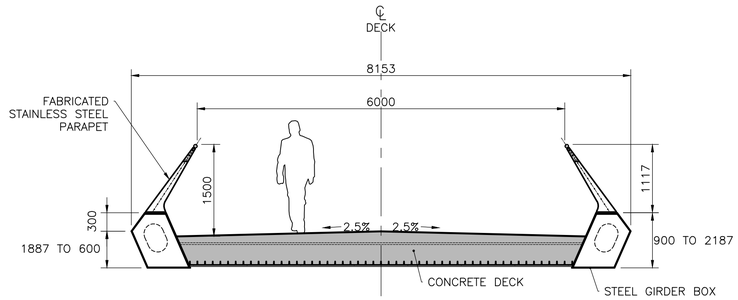

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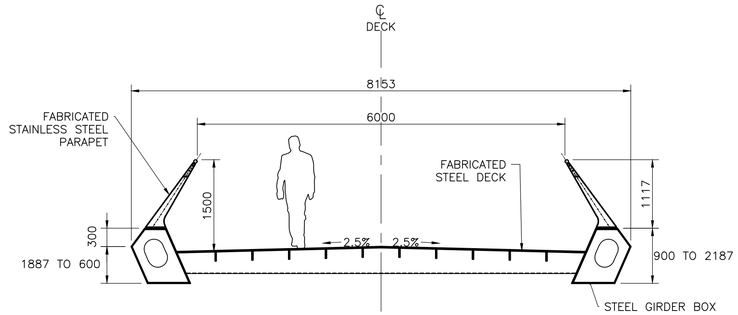
SCALE 1:50



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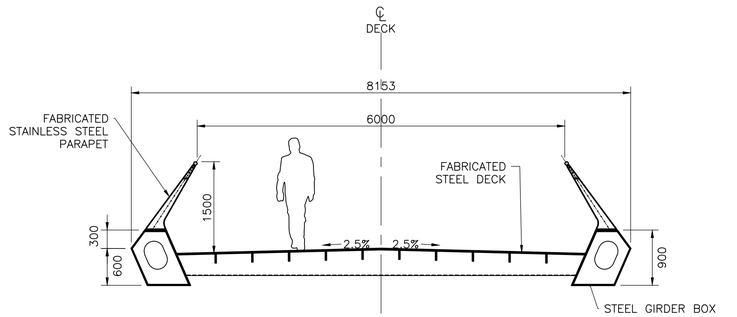
SCALE 1:50



D 010 DECK TYPICAL SECTION (NORTH PIER TO NORTH ABUTMENT)

SCALE 1:50

RESIDUAL HAZARDS

The following list provides reference to the Designer's Hazard/ Risk Assessment and indicates those hazards with a high mitigated residual risk index

Description of Risk	Ref. No.
Working adjustment to navigation channel.	1
Working adjustment to existing services.	2
Working over tidal water.	3
Working adjastant to access paths and pedestrians.	4

0 1 2 3 4 5 10

SCALE 1:100 @ A1 ; 1:200 @ A3 METRES

0 0.5 1 1.5 2 2.5 5

SCALE 1:50 @ A1 ; 1:100 @ A3 METRES

Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd
P0	29-07-2020	ISSUED FOR CAT 3 CHECK	MM	DH	GD	DMacK

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Project
GOVAN - PARTICK BRIDGE

Drawing title
GOVAN PARTICK BRIDGE
GENERAL ARRANGEMENT
SHEET 2 OF 3

Drawing status: FOR CHECKING
Suitability:
Scale: As noted at A1 — DO NOT SCALE
Jacobs No.:
Client No.:
Rev: P0

Drawing number
691301-JAC-DR-0011

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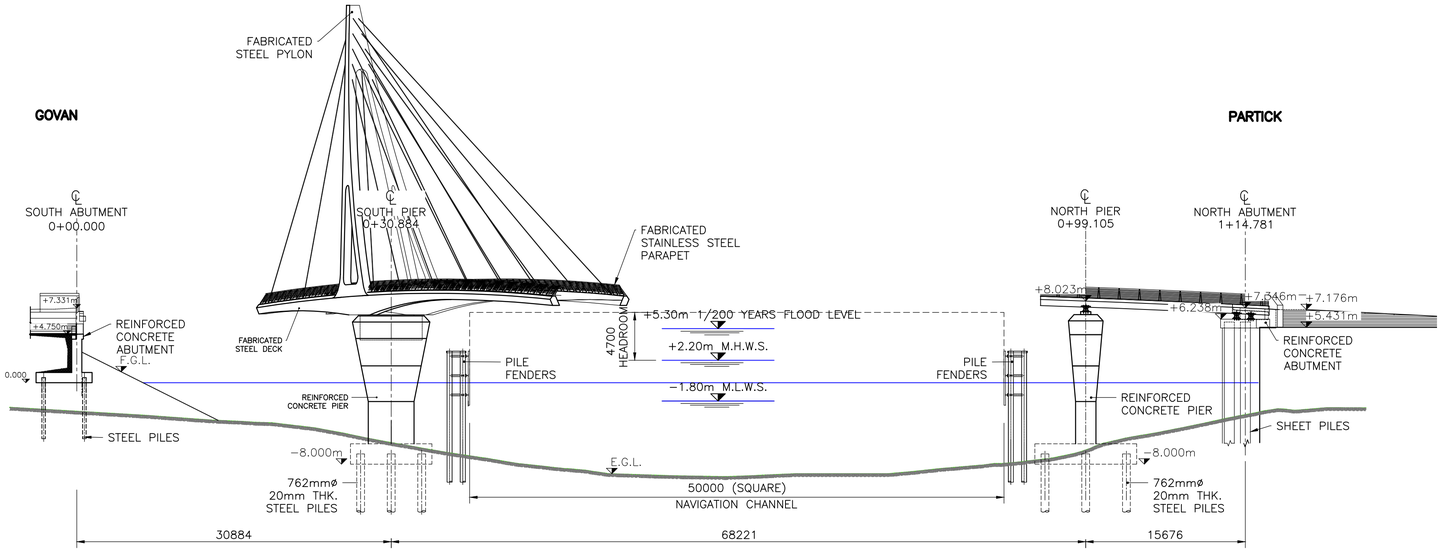
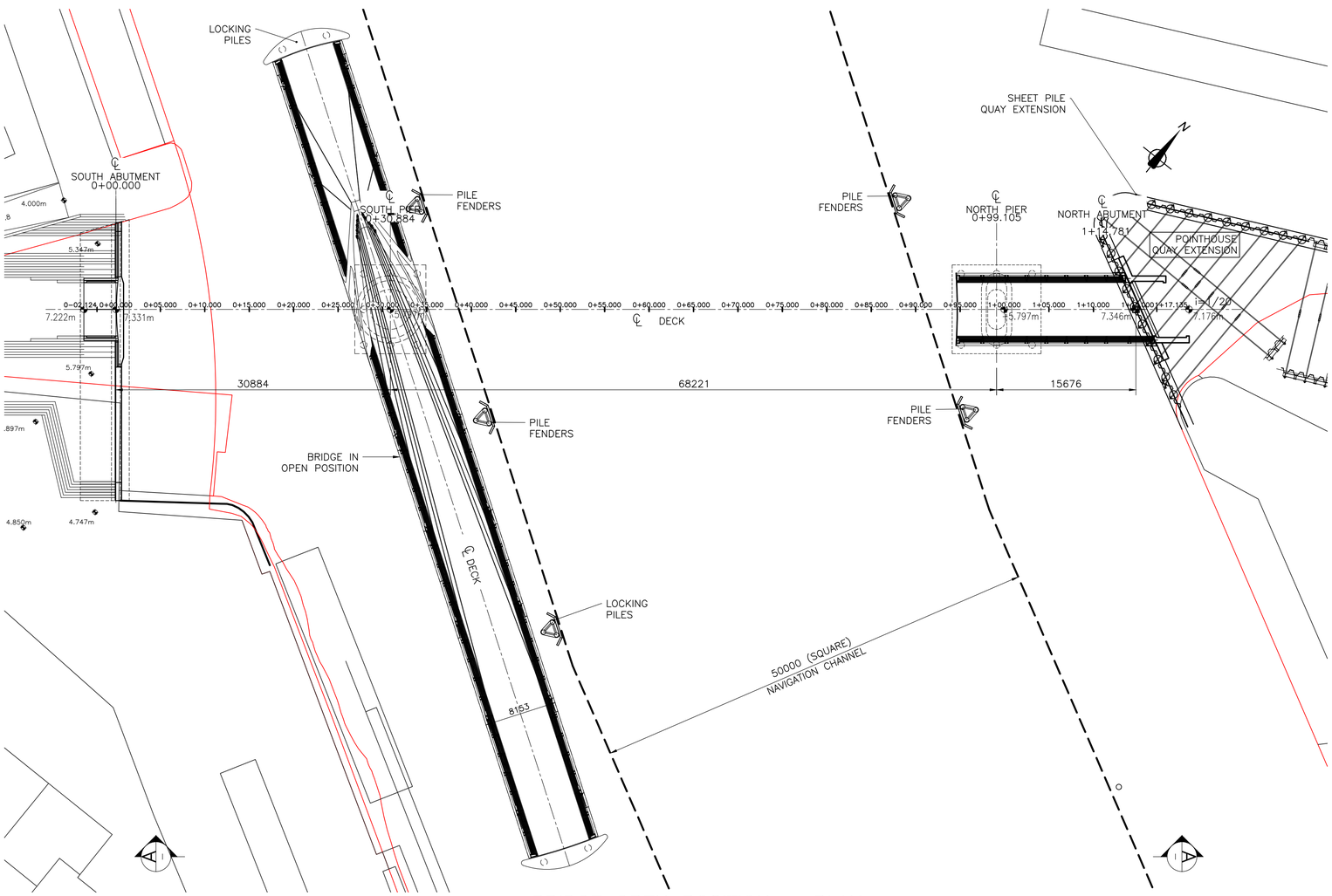


A ELEVATION
SCALE 1:300



BRIDGE OPEN POSITION – PLAN
Scale: 1:300

RESIDUAL HAZARDS

The following list provides reference to the Designer's Hazard/ Risk Assessment and indicates those hazards with a high mitigated residual risk index

Description of Risk	Ref. No.
Working adjustment to navigation channel.	1
Working adjustment to existing services.	2
Working over tidal water.	3
Working adjastant to access paths and pedestrians.	4

0 3 6 9 12 15 30
SCALE 1:300 @ A1 ; 1:600 @ A3 METRES

Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd
P0	29-07-2020	ISSUED FOR CAT 3 CHECK	MM	DH	GD	DMacK

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Project
GOVAN - PARTICK BRIDGE

Drawing title
GOVAN PARTICK BRIDGE GENERAL ARRANGEMENT SHEET 3 OF 3

Drawing status: FOR CHECKING
Suitability:
Scale: As noted at A1 — DO NOT SCALE
Jacobs No.:
Client No.:
Rev: P0

Drawing number
691301-JAC-DR-0012

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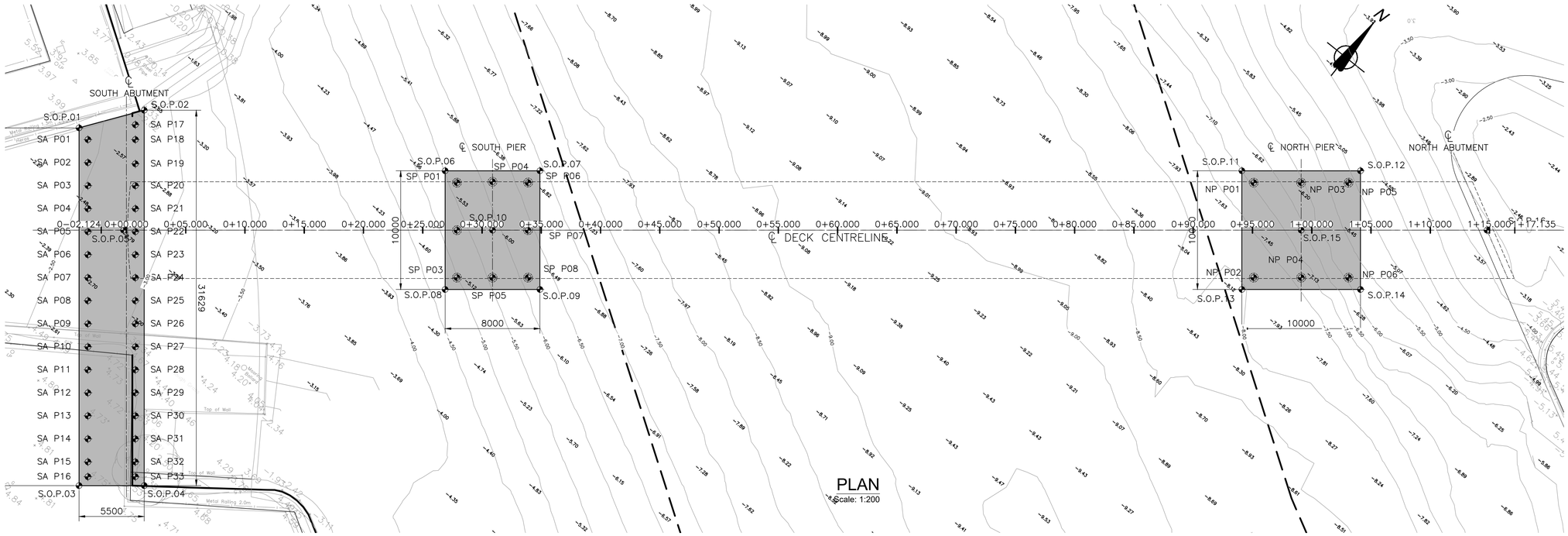


COORDINATES
SOUTH ABUTMENT

POINTS	EASTINGS (m)	NORTHINGS (m)	PILES TOE LEVEL (m AOD)
SA P01	255537.893	665874.424	−18.100
SA P02	255539.109	665872.912	−18.100
SA P03	255540.326	665871.401	−18.100
SA P04	255541.542	665869.890	−18.100
SA P05	255542.758	665868.378	−18.100
SA P06	255543.974	665866.867	−18.100
SA P07	255545.191	665865.355	−18.100
SA P08	255546.407	665863.844	−18.100
SA P09	255547.623	665862.333	−18.100
SA P10	255548.839	665860.821	−18.100
SA P11	255550.056	665859.310	−18.100
SA P12	255551.272	665857.798	−18.100
SA P13	255552.488	665856.287	−18.100
SA P14	255553.705	665854.776	−18.100
SA P15	255554.921	665853.264	−18.100
SA P16	255555.705	665852.290	−18.100
SA P17	255540.226	665877.905	−18.100
SA P18	255541.010	665876.932	−18.100
SA P19	255542.290	665875.341	−18.100
SA P20	255543.442	665873.909	−18.100
SA P21	255544.658	665872.397	−18.100
SA P22	255545.875	665870.886	−18.100
SA P23	255547.091	665869.375	−18.100
SA P24	255548.307	665867.863	−18.100
SA P25	255549.523	665866.352	−18.100
SA P26	255550.740	665864.841	−18.100
SA P27	255551.956	665863.329	−18.100
SA P28	255553.172	665861.818	−18.100
SA P29	255554.389	665860.306	−18.100
SA P30	255555.605	665858.795	−18.100
SA P31	255556.821	665857.284	−18.100
SA P32	255558.037	665855.772	−18.100
SA P33	255558.821	665854.798	−18.100
S.O.P.01	255536.690	665874.723	−18.100
S.O.P.02	255540.046	665879.325	−18.100
S.O.P.03	255555.590	665851.236	−18.100
S.O.P.04	255559.875	665854.684	−18.100
S.O.P.05	255545.015	665870.359	−18.100

COORDINATES
SOUTH PIER

POINTS	EASTINGS (m)	NORTHINGS (m)	PILES TOE LEVEL (m AOD)
SP P01	255564.425	665891.114	−17.400
SP P02	255566.937	665887.993	−17.400
SP P03	255569.441	665884.881	−17.400
SP P04	255566.715	665893.054	−17.400
SP P05	255571.778	665886.762	−17.400
SP P06	255569.100	665894.875	−17.400
SP P07	255571.610	665891.744	−17.400
SP P08	255574.115	665888.643	−17.400
S.O.P.06	255563.019	665891.266	−17.400
S.O.P.07	255569.252	665896.282	−17.400
S.O.P.08	255569.289	665883.475	−17.400
S.O.P.09	255575.521	665888.491	−17.400
S.O.P.10	255569.270	665889.878	−17.400

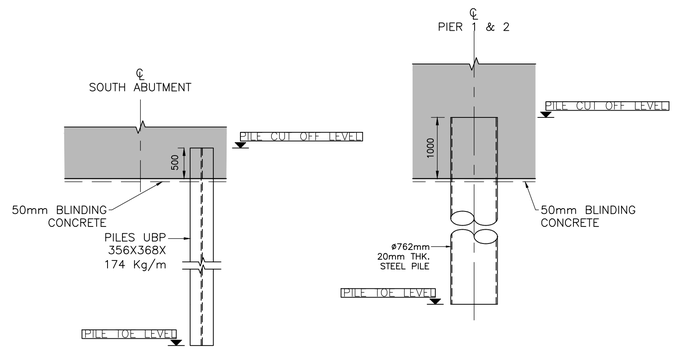
COORDINATES
NORTH PIER

POINTS	EASTINGS (m)	NORTHINGS (m)	PILES TOE LEVEL (m AOD)
NP P01	255616.795	665933.258	−21.400
NP P02	255621.811	665927.025	−21.400
NP P03	255619.912	665935.766	−21.400
NP P04	255624.927	665929.533	−21.400
NP P05	255623.028	665938.273	−21.400
NP P06	255628.043	665932.041	−21.400
S.O.P.11	255615.389	665933.410	−21.400
S.O.P.12	255623.180	665939.679	−21.400
S.O.P.13	255621.659	665925.619	−21.400
S.O.P.14	255629.449	665931.889	−21.400
S.O.P.15	255622.419	665932.649	−21.400

RESIDUAL HAZARDS

The following list provides reference to the Designer's Hazard/ Risk Assessment and indicates those hazards with a high mitigated residual risk index

Description of Risk	Ref. No.
Working adjacent to navigation channel.	1
Working adjacent to existing services.	2
Construction sequence to be in accordance with design drawings.	3



PILES DETAIL
SCALE 1:50

0 2 4 6 8 10 20
SCALE 1:200 @ A1 ; 1:400 @ A3 METRES

Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd
P0	29-07-2020	Issued for cat 3 check.	NG	DH	GD	DMacK

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Client
GLASGOW CITY COUNCIL

Project
GOVAN - PARTICK FOOTBRIDGE

Drawing title
GOVAN PARTICK BRIDGE BRIDGE PILE SETTING OUT

Drawing status: FOR CHECKING
Suitability:
Scale: As noted at A1 — DO NOT SCALE
Jacobs No.:
Client No.:
Rev: P0

Drawing number
691301-JAC-DR-0020

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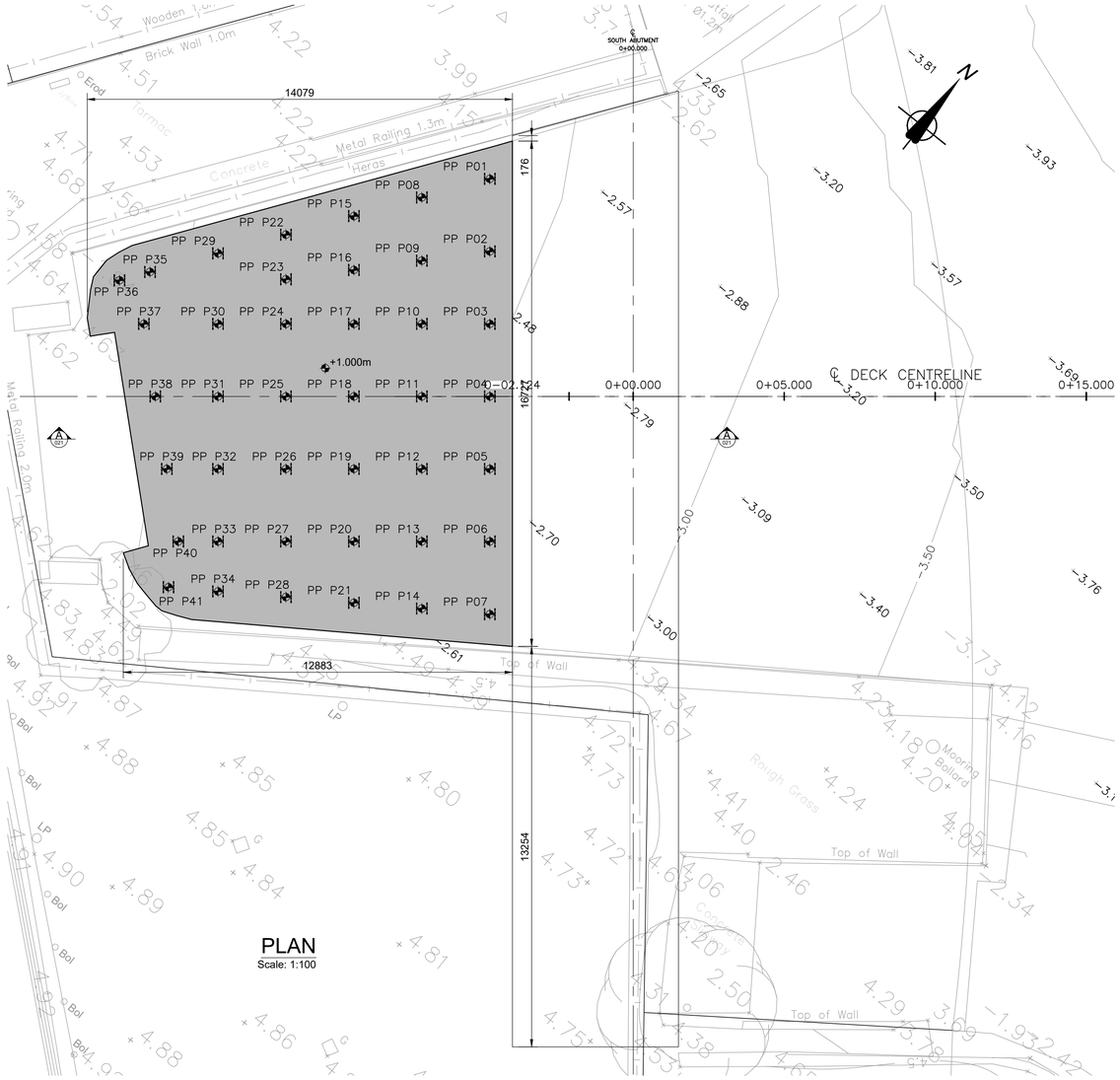


PLAN
Scale: 1:100

COORDINATES			
SOUTH PILING PLATFORM			
POINTS	EASTINGS (m)	NORTHINGS (m)	PILES TOE LEVEL (m AOD)
PP P01	255536.995	665873.147	−18.100
PP P02	255538.500	665871.277	−18.100
PP P03	255540.004	665869.407	−18.100
PP P04	255541.509	665867.538	−18.100
PP P05	255543.014	665865.668	−18.100
PP P06	255544.518	665863.798	−18.100
PP P07	255546.028	665861.922	−18.100
PP P08	255535.629	665871.256	−18.100
PP P09	255536.940	665869.627	−18.100
PP P10	255538.252	665867.997	−18.100
PP P11	255539.756	665866.127	−18.100
PP P12	255541.261	665864.257	−18.100
PP P13	255542.766	665862.388	−18.100
PP P14	255544.157	665860.659	−18.100
PP P15	255534.262	665869.366	−18.100
PP P16	255535.380	665867.976	−18.100
PP P17	255536.499	665866.586	−18.100
PP P18	255538.003	665864.716	−18.100
PP P19	255539.508	665862.847	−18.100
PP P20	255541.013	665860.977	−18.100
PP P21	255542.285	665859.396	−18.100
PP P22	255532.895	665867.475	−18.100
PP P23	255533.821	665866.325	−18.100
PP P24	255534.746	665865.176	−18.100
PP P25	255536.250	665863.306	−18.100
PP P26	255537.755	665861.436	−18.100
PP P27	255539.260	665859.566	−18.100
PP P28	255540.414	665858.132	−18.100
PP P29	255531.529	665865.584	−18.100
PP P30	255532.993	665863.765	−18.100
PP P31	255534.497	665861.895	−18.100
PP P32	255536.002	665860.025	−18.100
PP P33	255537.507	665858.156	−18.100
PP P34	255538.542	665856.869	−18.100
PP P35	255530.162	665863.693	−18.100
PP P36	255529.547	665862.842	−18.100
PP P37	255531.080	665862.226	−18.100
PP P38	255532.881	665860.594	−18.100
PP P39	255534.682	665858.963	−18.100
PP P40	255536.483	665857.332	−18.100
PP P41	255537.179	665855.948	−18.100

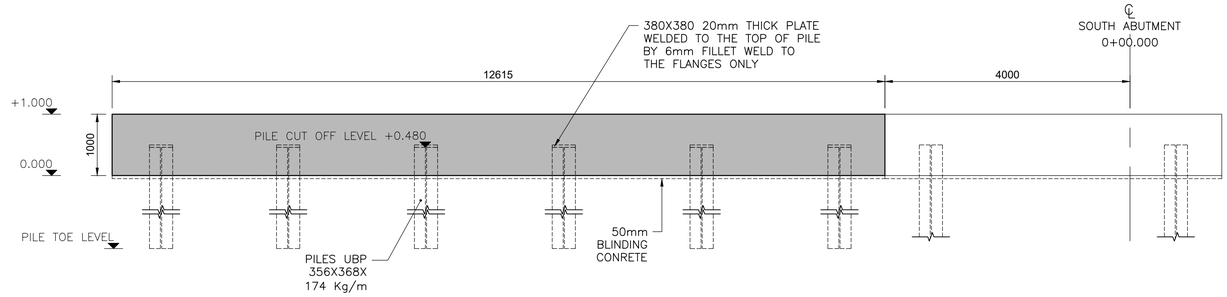
Notes:

1. LOCATIONS OF PILES ARE BASED ON EXISTING TOPO SURVEY OF QUAY WALL. PILE LOCATIONS IN CLOSE PROXIMITY OF QUAY WALL MAY HAVE TO BE MOVED ON SITE TO AVOID OBSTRUCTING QUAY WALL. RELOCATION OF PILES TO BE AGREED ONSITE WITH THE DESIGNER'S SITE REPRESENTATIVE.

RESIDUAL HAZARDS

The following list provides reference to the Designer's Hazard/ Risk Assessment and indicates those hazards with a high mitigated residual risk index

Description of Risk	Ref. No.
Working adjacent to navigation channel.	1
Working adjacent to existing services.	2
Construction sequence to be in accordance with design drawings.	3



A 021 SOUTH PILING PLATFORM SECTION
SCALE 1: 50

0 1 2 3 4 5 10
SCALE 1:100 @ A1 ; 1:200 @ A3 METRES

Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd
P0	29-07-2020	ISSUED FOR CAT 3 CHECK	MM	DH	GD	DMacK

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Client
GLASGOW CITY COUNCIL

Project
GOVAN - PARTICK FOOTBRIDGE

Drawing title
GOVAN PARTICK BRIDGE SOUTH PILING PLATFORM SETTING OUT

Drawing status: FOR CHECKING
Suitability
Scale: As noted at A1 — DO NOT SCALE
Jacobs No.
Client No.
Rev: P0

Drawing number
691301-JAC-DR-0021

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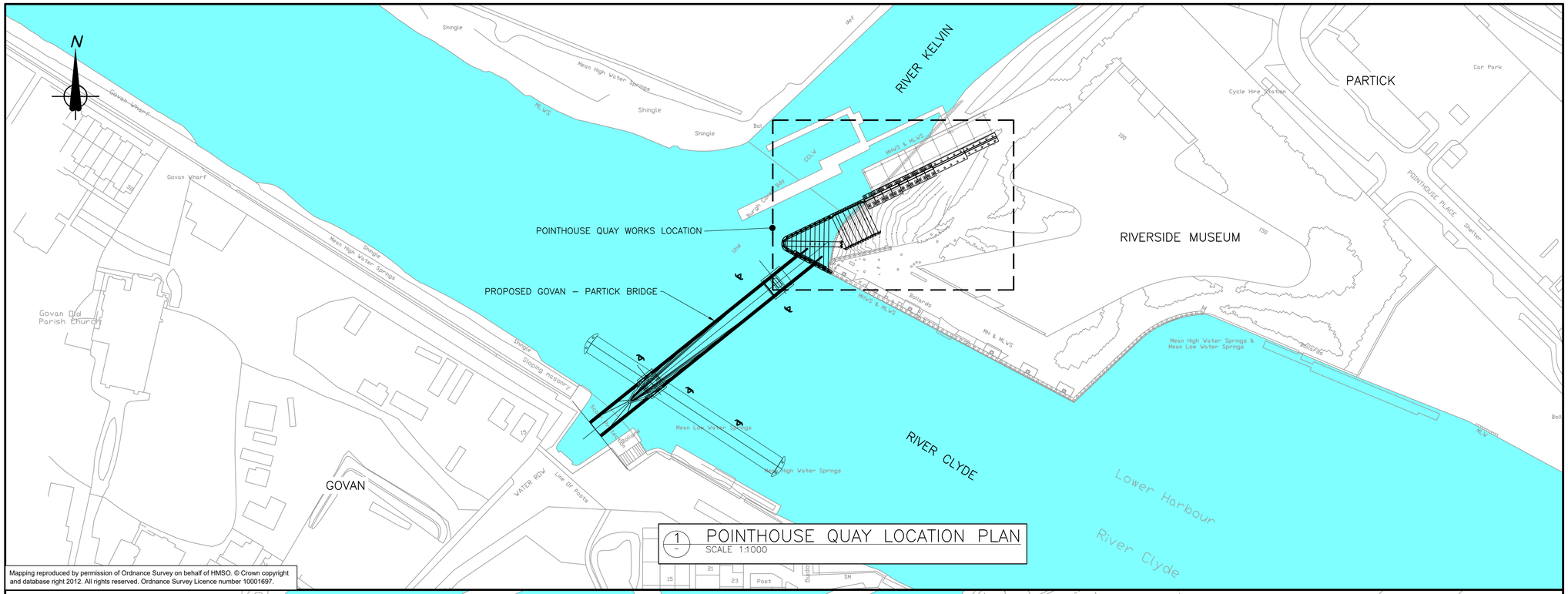
\\glafpp01\Projects\Transportation\Transportation3\bridges\Partick Govan Footbridge\11 Preliminary\03 Structures\Drawings\Footbridge\Working Drawings\691301-JAC-DR-0021-PILING PLATFORM SETTING OUT.dwg - 29/07/2020 17:09:27 - 691301-JAC-DR-0021 - DH013545



1 POINTHOUSE QUAY LOCATION PLAN
SCALE 1:1000

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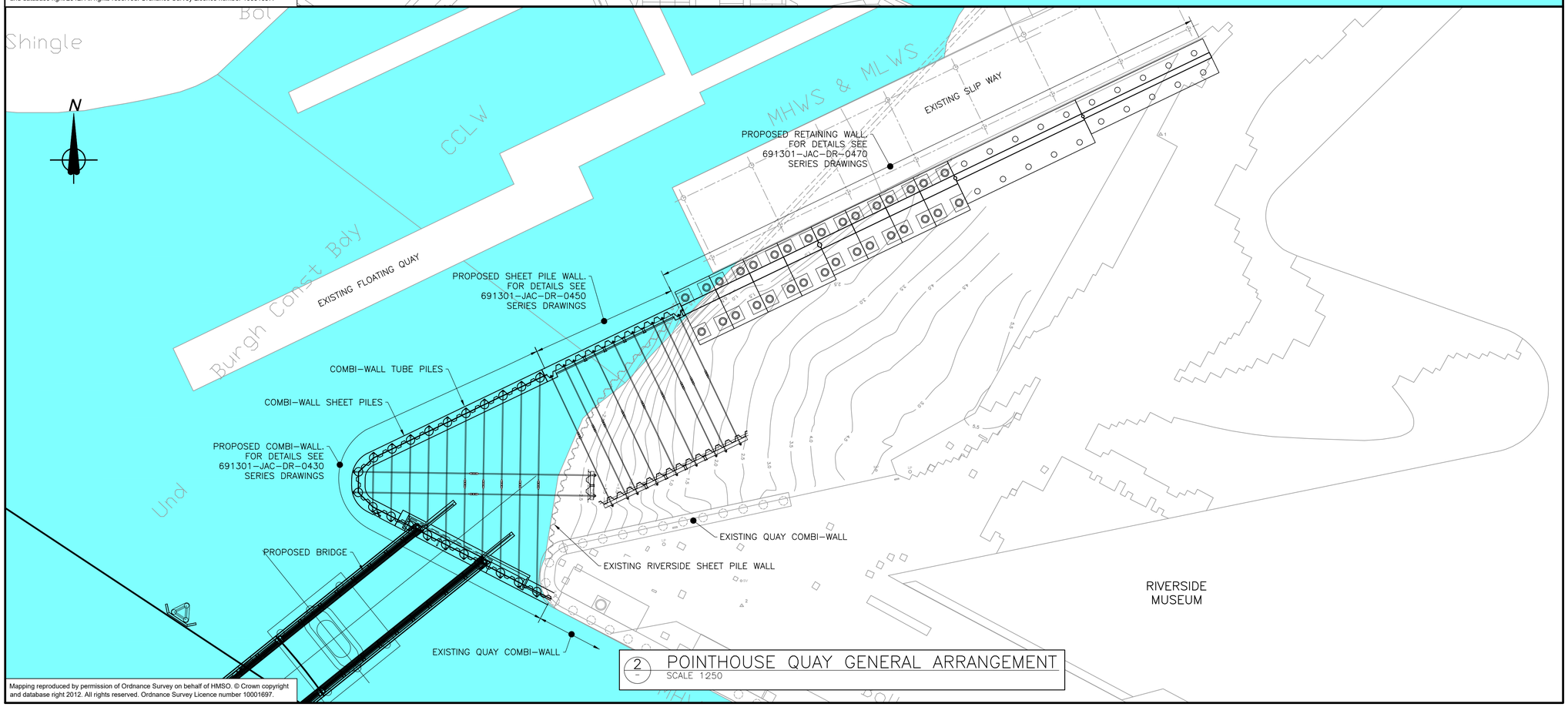

2 POINTHOUSE QUAY GENERAL ARRANGEMENT
SCALE 1250

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4. REFER TO GENERAL NOTES DRAWING 691301–JAC–DR–0002.

Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd
P01	07/07/20	ISSUED FOR CAT 3 CHECK	BT	MB	LAB	DH
P0	22/05/20	ISSUED FOR INFORMATION	GM	MB	LAB	DH

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Project
GOVAN-PARTICK BRIDGE

Drawing title
POINTHOUSE QUAY LOCATION PLAN & GENERAL ARRANGEMENT

Drawing status: ISSUED FOR INFORMATION
Suitability:
Scale: As noted at A1 — DO NOT SCALE
Jacobs No.:
Client No.:
Rev: P01
Drawing number: 691301-JAC-DR-0022

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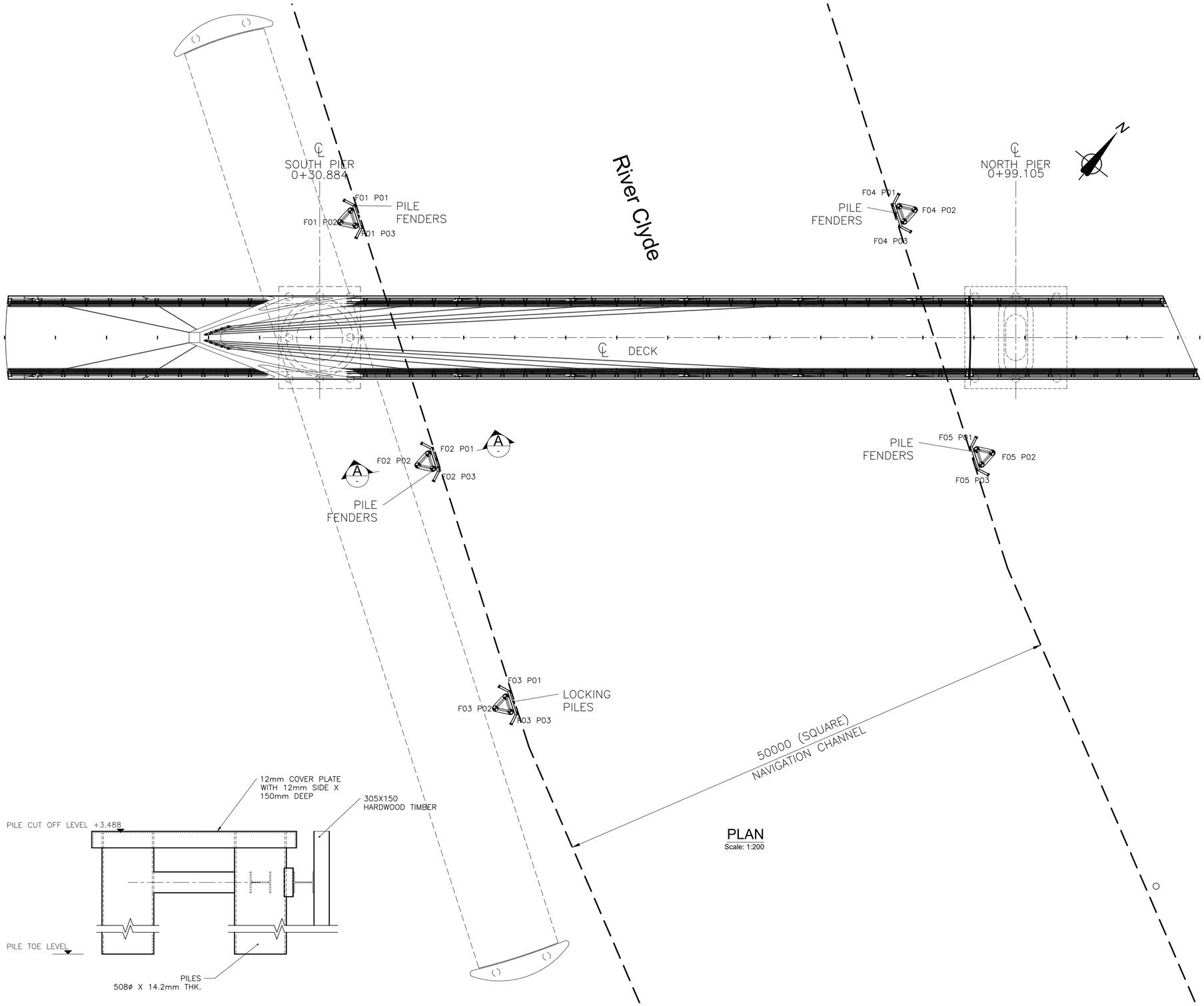

PLAN
Scale: 1:200

COORDINATES			
FENDER PILES			
POINTS	EASTINGS (m)	NORTHINGS (m)	PILES TOE LEVEL (m AOD)
F01 P01	255563.855	665901.461	TBC
F01 P02	255563.764	665899.963	18.000
F01 P03	255565.107	665900.633	18.000
F02 P01	255584.707	665887.669	18.000
F02 P02	255584.616	665886.171	18.000
F02 P03	255585.958	665886.841	18.000
F03 P01	255605.558	665873.877	18.000
F03 P02	255605.467	665872.379	18.000
F03 P03	255606.809	665873.049	18.000
F04 P01	255605.487	665935.490	18.000
F04 P02	255606.830	665936.160	18.000
F04 P03	255606.738	665934.663	18.000
F05 P01	255626.339	665921.698	18.000
F05 P02	255627.681	665922.368	18.000
F05 P03	255627.590	665920.871	18.000

RESIDUAL HAZARDS

The following list provides reference to the Designer's Hazard/ Risk Assessment and indicates those hazards with a high mitigated residual risk index

Description of Risk	Ref. No.
Working adjacent to navigation channel.	1
Working adjacent to existing services.	2
Construction sequence to be in accordance with design drawings.	3

0 2 4 6 8 10 20
SCALE 1:200 @ A1 ; 1:400 @ A3 METRES

A FENDERING SECTION
SCALE 1: 20

Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd
P0	29-07-2020	ISSUED FOR CAT 3 CHECK	MM	DH	GD	DMacK

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Client
GLASGOW CITY COUNCIL

Project
GOVAN - PARTICK
FOOTBRIDGE

Drawing title
GOVAN PARTICK BRIDGE
FENDER PILES
SETTING OUT

Drawing status: FOR CHECKING
Suitability:
Scale: As noted at A1 — DO NOT SCALE
Jacobs No.:
Client No.:
Rev: P0

Drawing number
691301-JAC-DR-0023

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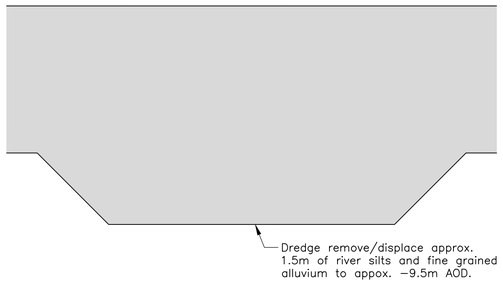
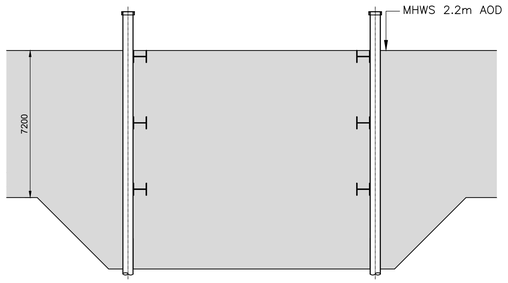
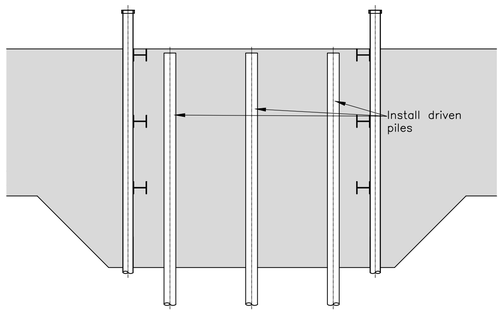
STAGE 1.
Dredge remove/displace approx. 1.5m of river silts and fine grained alluvium to appox. −9.5m AOD.



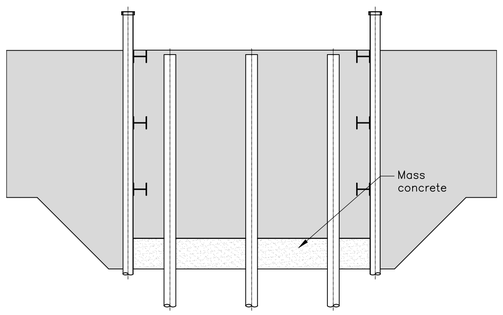
STAGE 2.
- Install temporary sheet piled cofferdam (Contractor designed)
- Install temporary ring bracing as necessary under water if required.
- Complete excavate/dredge river bed material to −9.5m AOD.



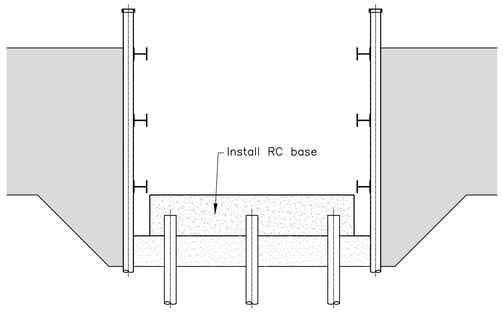
STAGE 3.
Install piles to achieve loads supplied from Geotechnical design.



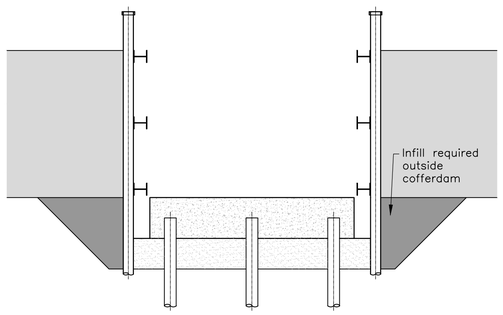
STAGE 4.
Impermeable concrete plug tremied mass concrete to formation level.



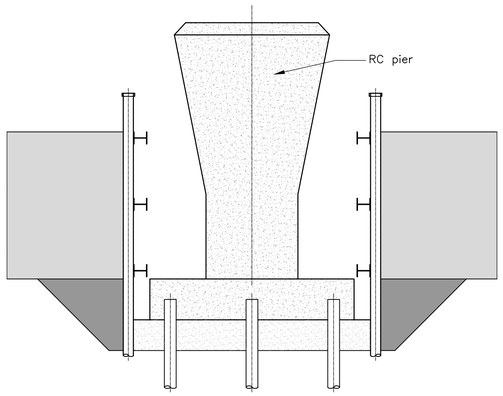
STAGE 5.
- Install Contractor designed shoring and props for cofferdam construction.
- De−water cofferdam as shoring is installed
- Cut piles to level
- Install RC pilecap base



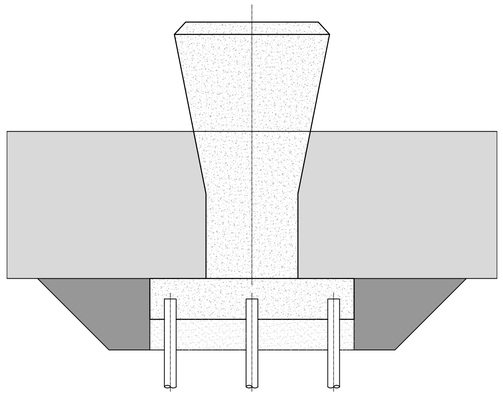
STAGE 6.
Infill required outside cofferdam.



STAGE 7.
Construct RC pier.



STAGE 8.
Remove, or cut off to an agreed level, sheet piled cofferdam.



RESIDUAL HAZARDS

The following list provides reference to the Designer's Hazard/ Risk Assessment and indicates those hazards with a high mitigated residual risk index

Description of Risk	Ref. No.
Working adjustment to navigation channel.	1
Working adjustment to existing services.	2
Working over tidal water.	3
Working adjastant to access paths and pedestrians.	4

Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd
P0	29-07-2020	Issued for CAT 3 Check	GY	DH	GD	DMacK

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GLASGOW CITY COUNCIL

Project
GOVAN - PARTICK FOOTBRIDGE

Drawing title
GOVAN PARTICK BRIDGE PROPOSED OUTLINED PIER CONSTRUCTION SEQUENCE

Drawing status: FOR CHECKING
Suitability:
Scale: As noted at A1 — DO NOT SCALE
Jacobs No.:
Client No.:
Rev: P0

Drawing number
691301-JAC-DR-0030

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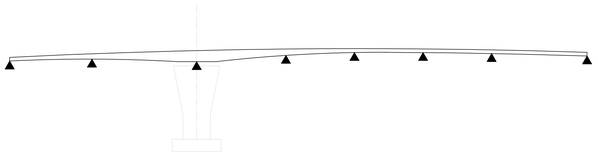
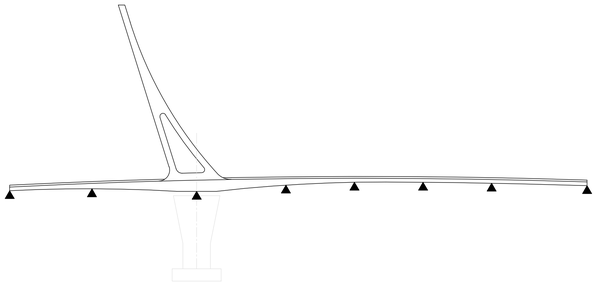
STAGE 1.
Install deck steelwork on temporary supports and south pier in the bridge open to river vessels position. Location of temporary supports in the outline construction sequence has assumed temporary supports at deck ends, and cable anchorage locations. Alternative, support locations by the contractor shall ensure that the steelwork has the capacity and stability on the temporary supports.

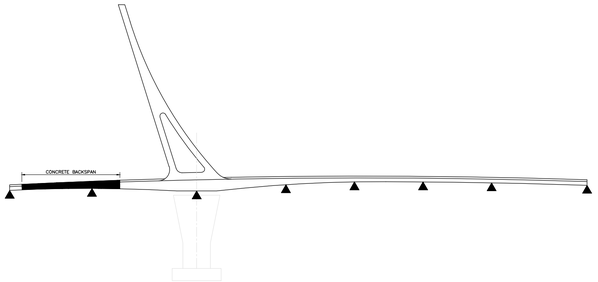


STAGE 2.
Install pylon steelwork. Contractor to ensure all temporary supports of deck and pylon in the temporary condition does not affect the design of the permanent works.

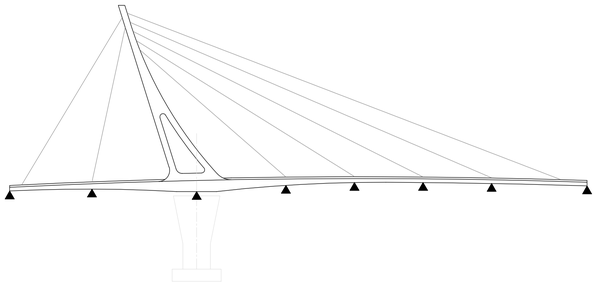


STAGE 3.

- Install reinforced concrete backspan.
- Install TMD's if not already installed
- Install parapets. Some wirestrands may have to be left out to facilitate stressing of the cables.
- Install all finishes.

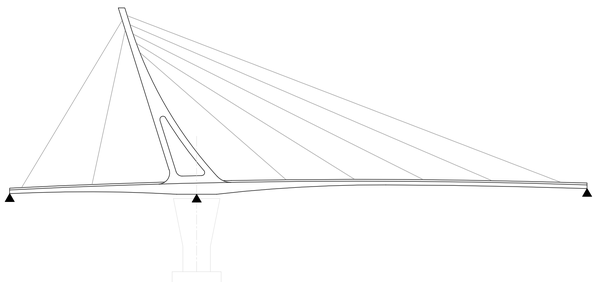


STAGE 4.
Install cables (all cables prestressed to an agreed stressing sequence to create zero load at supports ie zero deflection at cable deck node locations).



STAGE 5.

- Remove temporary supports
- Engage locking pins into locking piles



RESIDUAL HAZARDS

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Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd
P0	29/07/2020	Issued for CAT 3 Check	GY	DH	GD	DMacK

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GOVAN - PARTICK BRIDGE

Drawing title
GOVAN PARTICK BRIDGE PROPOSED OUTLINED DECK CONSTRUCTION SEQUENCE

Drawing status: PRELIMINARY
Suitability:
Scale: As noted at A1 — DO NOT SCALE
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Rev: P0
Drawing number: 691301-JAC-DR-031

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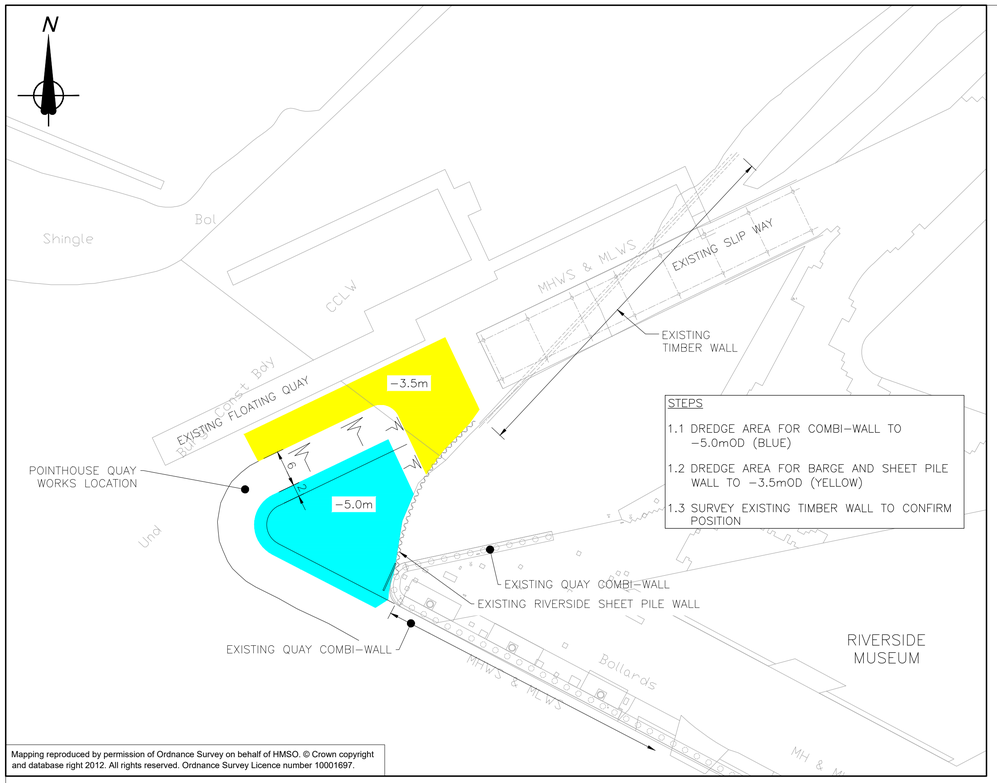
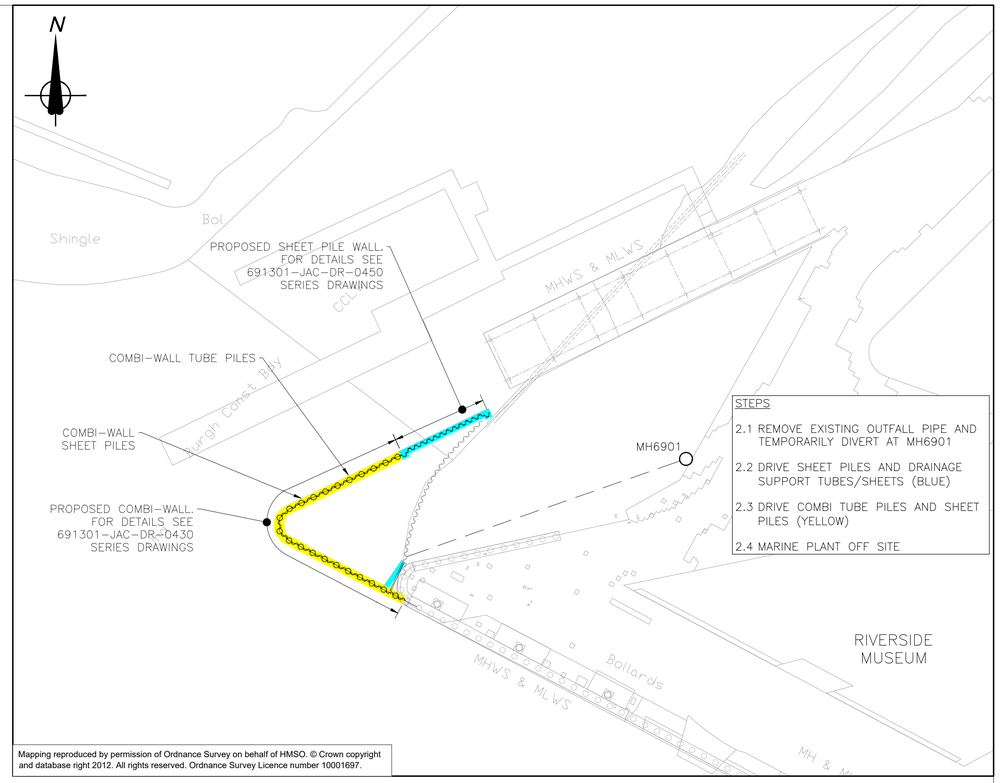
C:\Users\GY087300\OneDrive - Jacobs\Graeme\Partick-Govan\Deck Construction Sequence.dwg - 29/07/2020 17:00:38 - 691301-JAC-DR-031 - GY087300



STAGE 1



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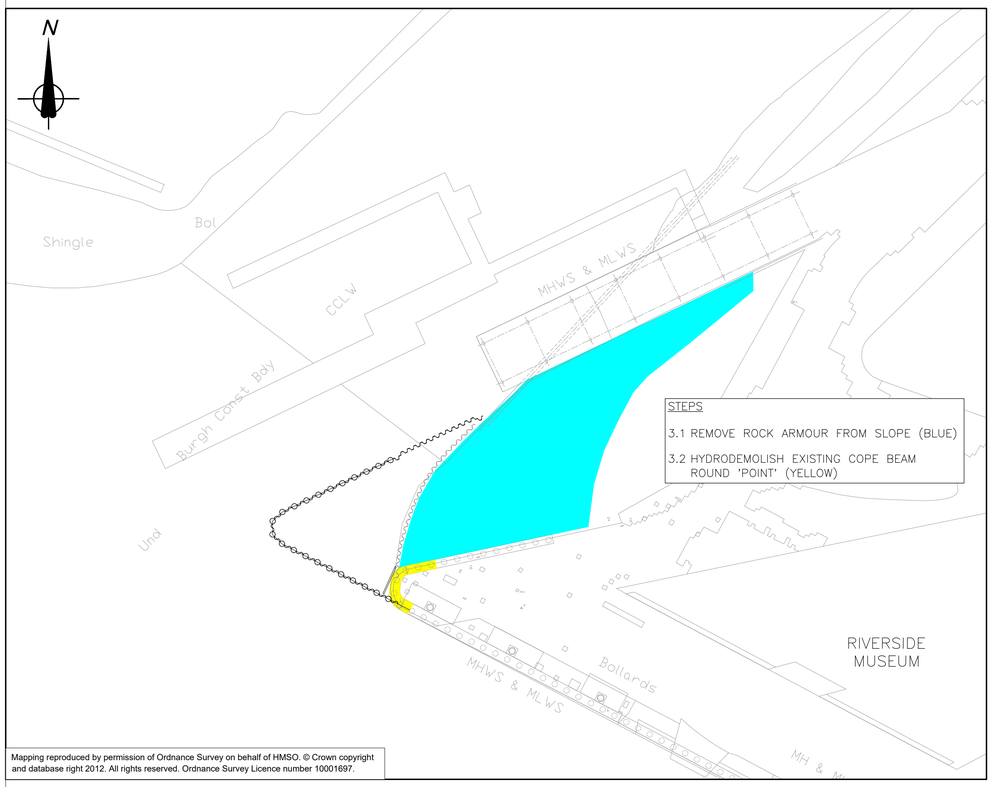
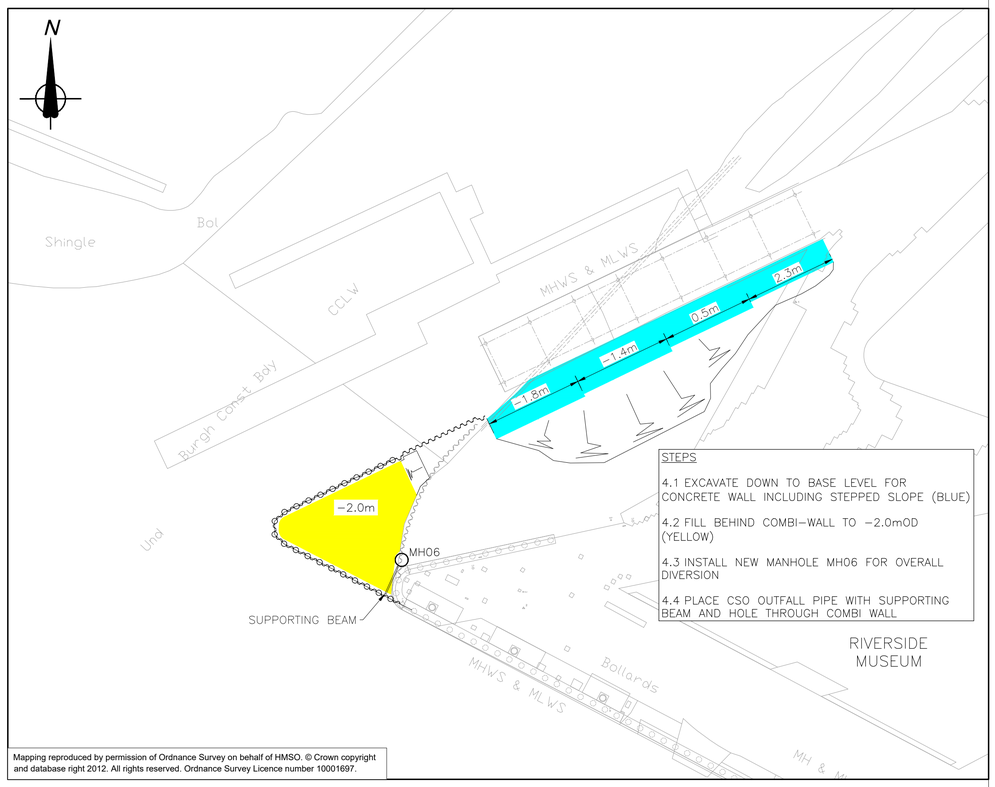


STAGE 3



STAGE 4

NOTES

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5. THE CONSTRUCTION SEQUENCE SHOWN HAS BEEN ASSUMED IN THE DESIGN. ANY DEVIATION FROM THIS SEQUENCE SHALL BE SUBMITTED TO THE DESIGNER FOR ACCEPTANCE 14 DAYS PRIOR TO PROPOSED DEVIATION WORKS COMMENCING ON SITE.

Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd
P0	12/06/20	ISSUED FOR CAT 3 CHECK	AF	MB	LAB	DH

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Client
GLASGOW CITY COUNCIL

Project
GOVAN-PARTICK BRIDGE

Drawing title
POINTHOUSE QUAY
CONSTRUCTION SEQUENCE
SHEET 1 OF 3

Drawing status: FOR CHECKING
Suitability:
Scale: As noted at A1 — DO NOT SCALE
Jacobs No.:
Client No.:
Rev: P0

Drawing number
691301-JAC-DR-0032

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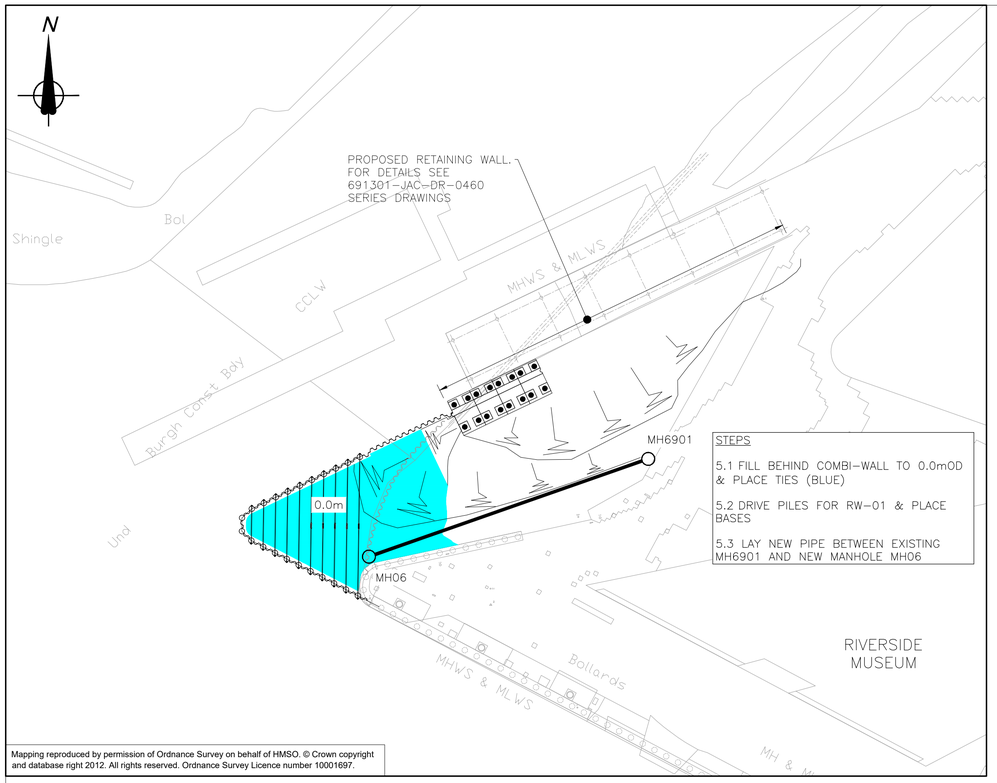
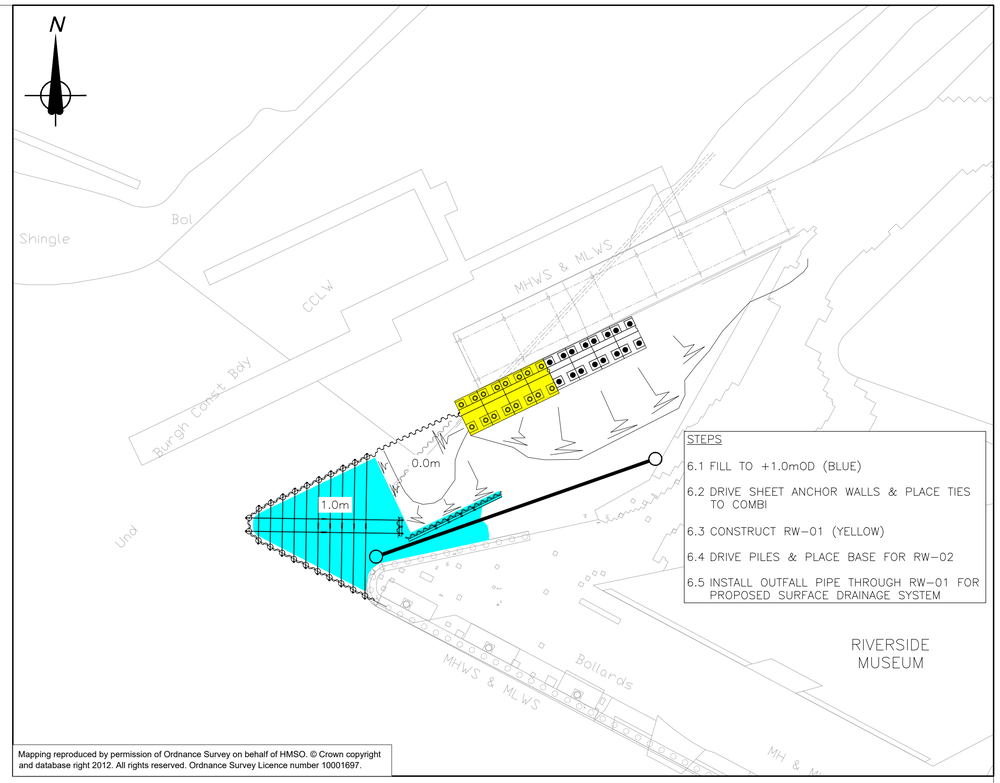


STAGE 5



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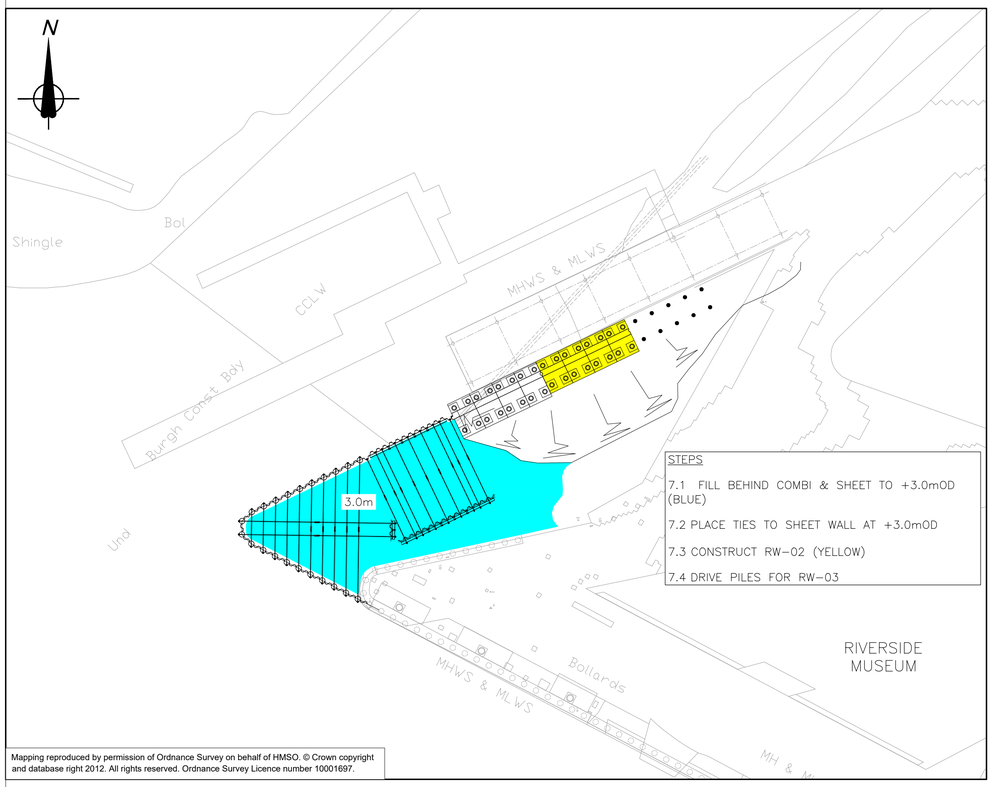
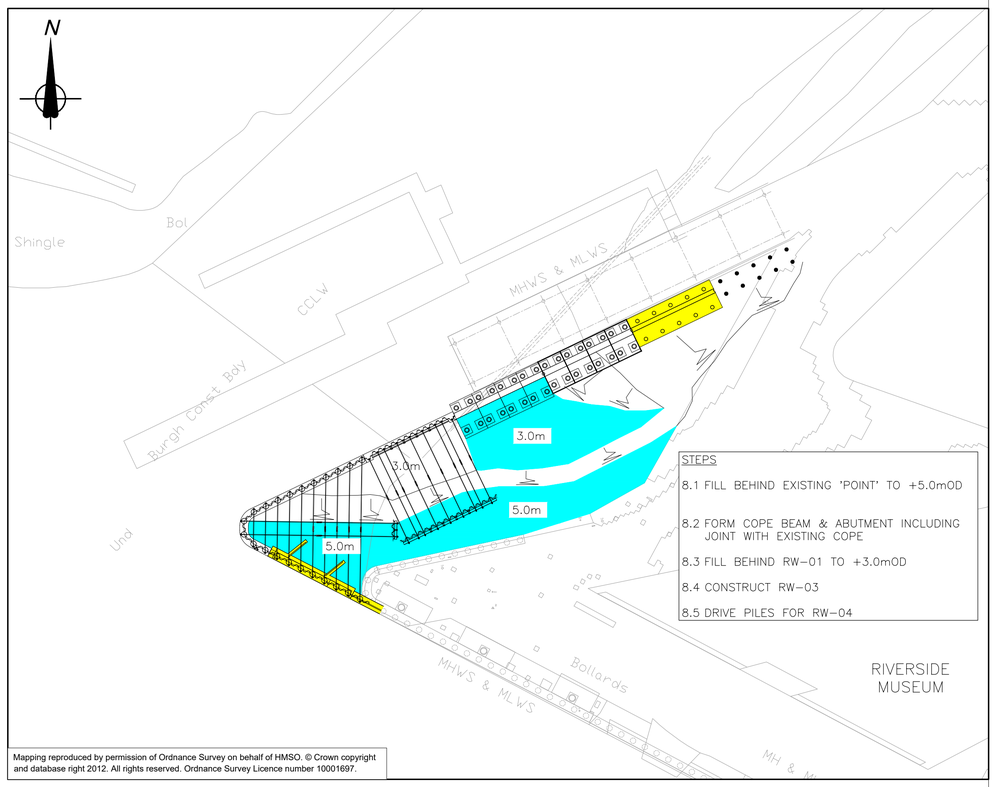


STAGE 7



STAGE 8

NOTES

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3. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM UNLESS NOTED OTHERWISE.
4. REFER TO GENERAL NOTES DRAWING 691301-JAC-DR-002.
5. THE CONSTRUCTION SEQUENCE SHOWN HAS BEEN ASSUMED IN THE DESIGN. ANY DEVIATION FROM THIS SEQUENCE SHALL BE SUBMITTED TO THE DESIGNER FOR ACCEPTANCE 14 DAYS PRIOR TO PROPOSED DEVIATION WORKS COMMENCING ON SITE.

Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd
P0	07/07/20	ISSUED FOR CAT 3 CHECK	BT	MB	LAB	DH

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www.jacobs.com

Client
GLASGOW CITY COUNCIL

Project
GOVAN-PARTICK BRIDGE

Drawing title
POINTHOUSE QUAY
CONSTRUCTION SEQUENCE
SHEET 2 OF 3

Drawing status: FOR CHECKING
Suitability: DO NOT SCALE
Scale: As noted at A1
Jacobs No.
Client No.
Rev: P0

Drawing number
691301-JAC-DR-0033

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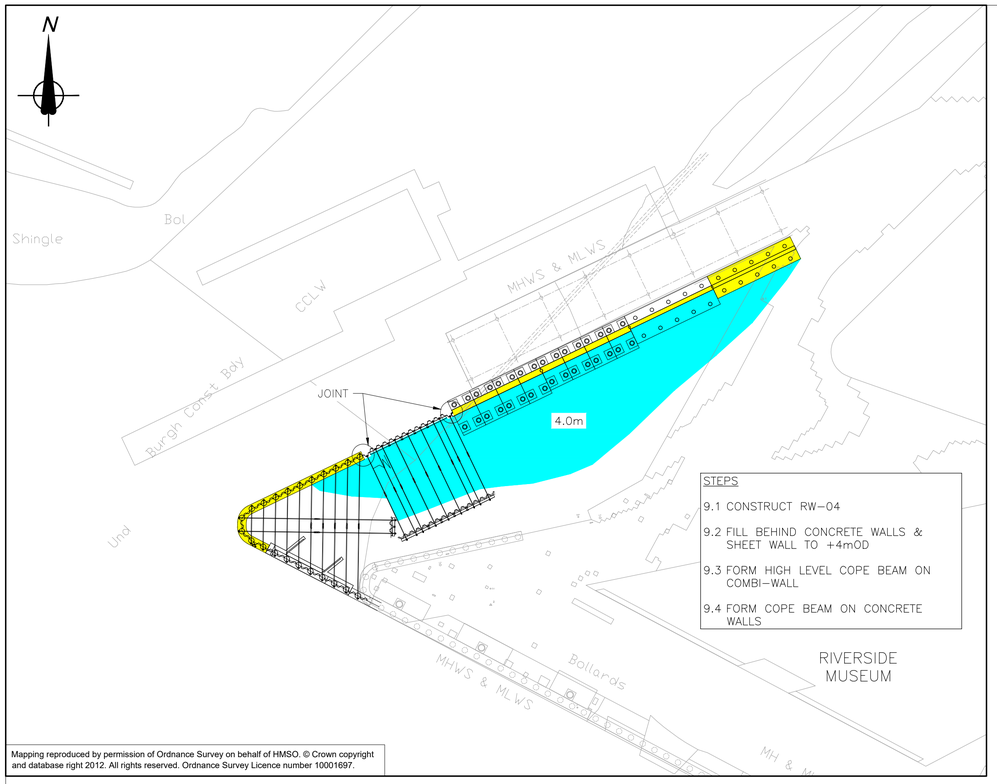
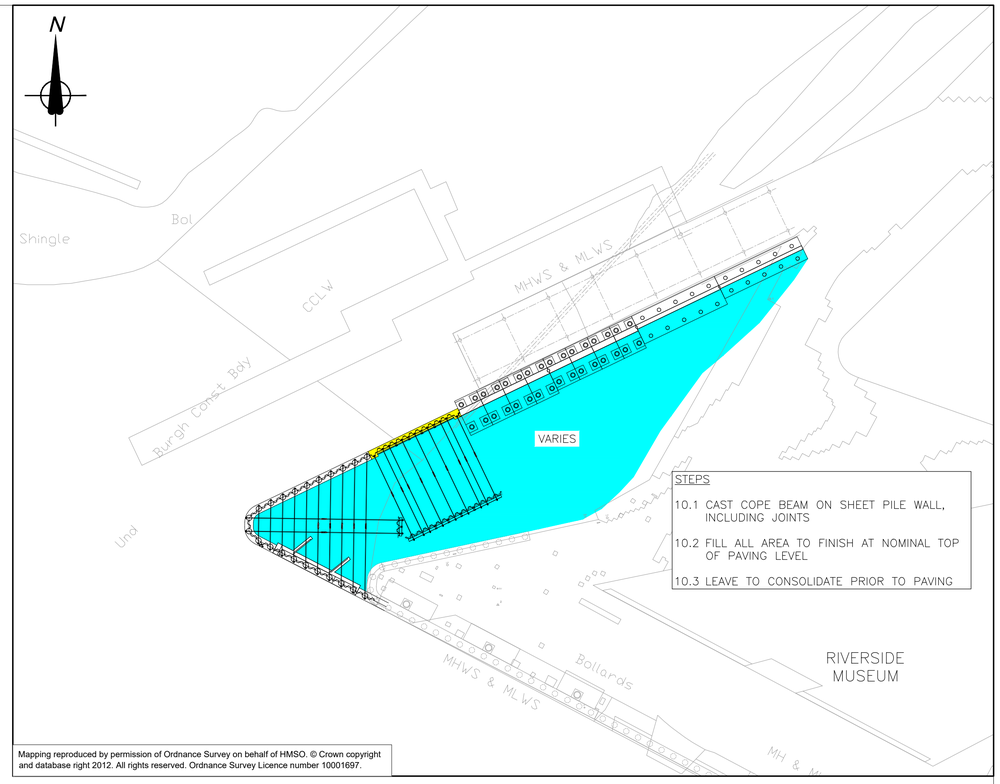
\\glsfpp01\Projects\Transportation\Transportation3\bridges\Partick Govan Footbridge\16 Maritime\Drawings\691301-JAC-DR-0033 Rev P0 - PQ Construction Seq 2 of 3.dwg - 10/07/2020 13:07:32 - Rev 0 - Barclam



STAGE 9



STAGE 10

NOTES

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
3. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM UNLESS NOTED OTHERWISE.
4. REFER TO GENERAL NOTES DRAWING 691301-JAC-DR-002.
5. THE CONSTRUCTION SEQUENCE SHOWN HAS BEEN ASSUMED IN THE DESIGN. ANY DEVIATION FROM THIS SEQUENCE SHALL BE SUBMITTED TO THE DESIGNER FOR ACCEPTANCE 14 DAYS PRIOR TO PROPOSED DEVIATION WORKS COMMENCING ON SITE.

Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd
P0	07/07/20	ISSUED FOR CAT 3 CHECK	BT	MB	LAB	DH

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Client
GLASGOW CITY COUNCIL

Project
GOVAN-PARTICK BRIDGE

Drawing title
POINTHOUSE QUAY
CONSTRUCTION SEQUENCE
SHEET 3 OF 3

Drawing status: FOR CHECKING
Suitability:
Scale: As noted at A1
DO NOT SCALE
Jacobs No.:
Client No.:
Rev: P0

Drawing number
691301-JAC-DR-0034

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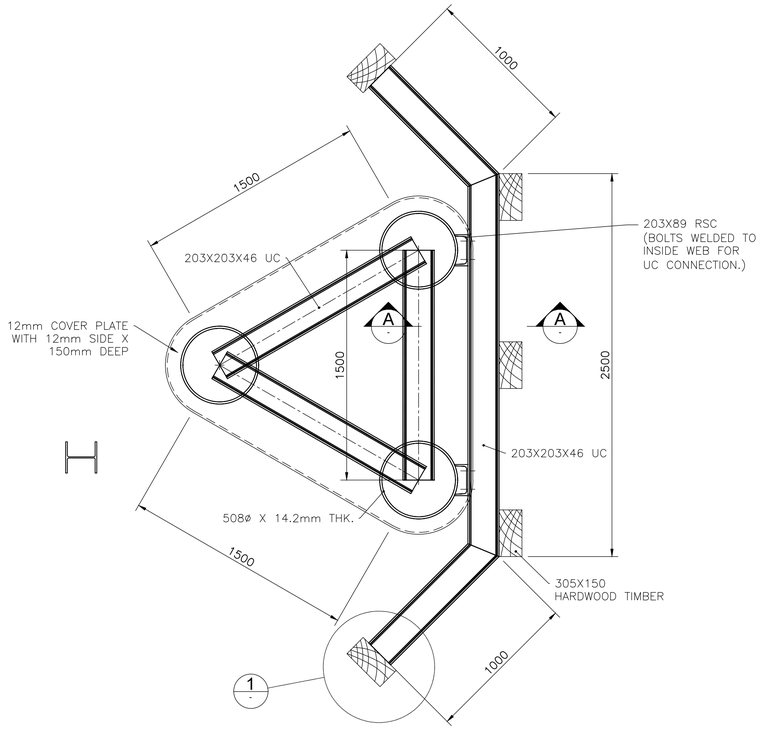
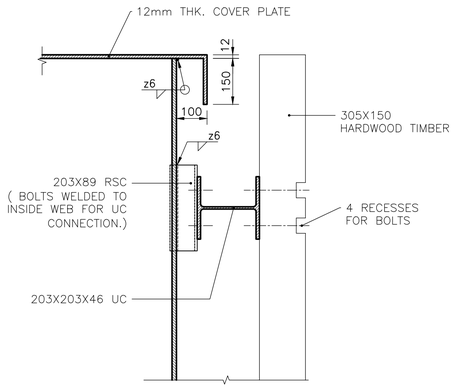
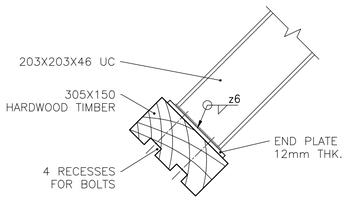


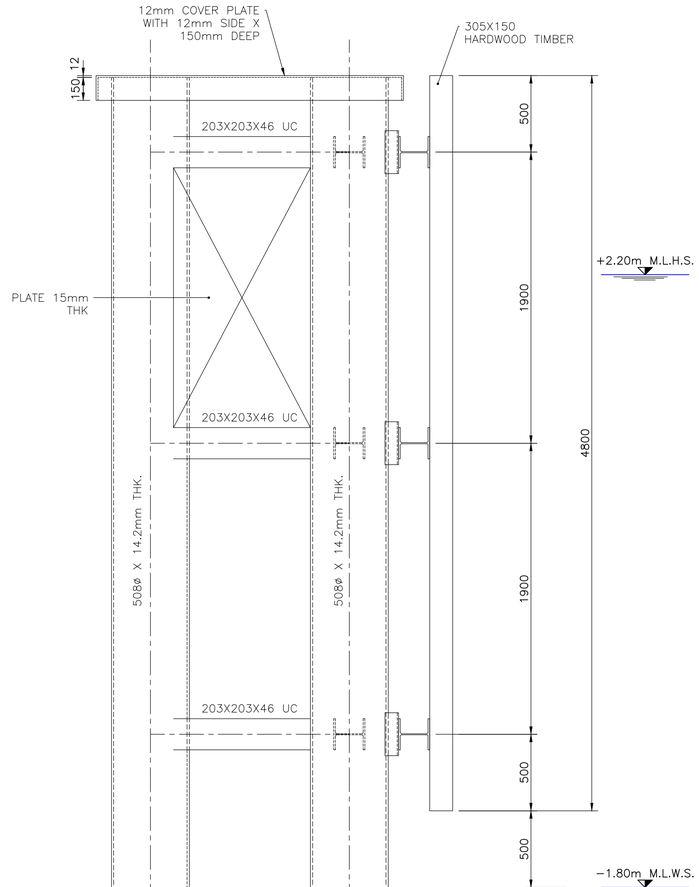
PLAN OF FENDERING
Scale: 1:20



A SECTION
SCALE 1: 10



1 DETAIL
SCALE 1: 10



BOTTOM OF PILES APPROX. 8m BELOW RIVER BED.

ELEVATION ON FENDERING
Scale: 1:20

RESIDUAL HAZARDS

The following list provides reference to the Designer's Hazard/ Risk Assessment and indicates those hazards with a high mitigated residual risk index

Description of Risk	Ref. No.
Working adjustment to navigation channel.	1
Working adjustment to existing services.	2
Construction sequence to be in accordance with design drawings.	3

Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd
P0	29-07-2020	ISSUED FOR CAT 3 CHECK	NG	DH	GD	DMacK

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Client
GLASGOW CITY COUNCIL

Project
GOVAN - PARTICK
FOOTBRIDGE

Drawing title
APPROVAL IN PRINCIPAL
GOVAN PARTICK BRIDGE
FENDERS
GENERAL ARRAGEMENT

Drawing status: FOR CHECKING
Suitability:
Scale: As noted at A1 — DO NOT SCALE
Jacobs No.:
Client No.:
Rev: P0

Drawing number
691301-JAC-DR-0630

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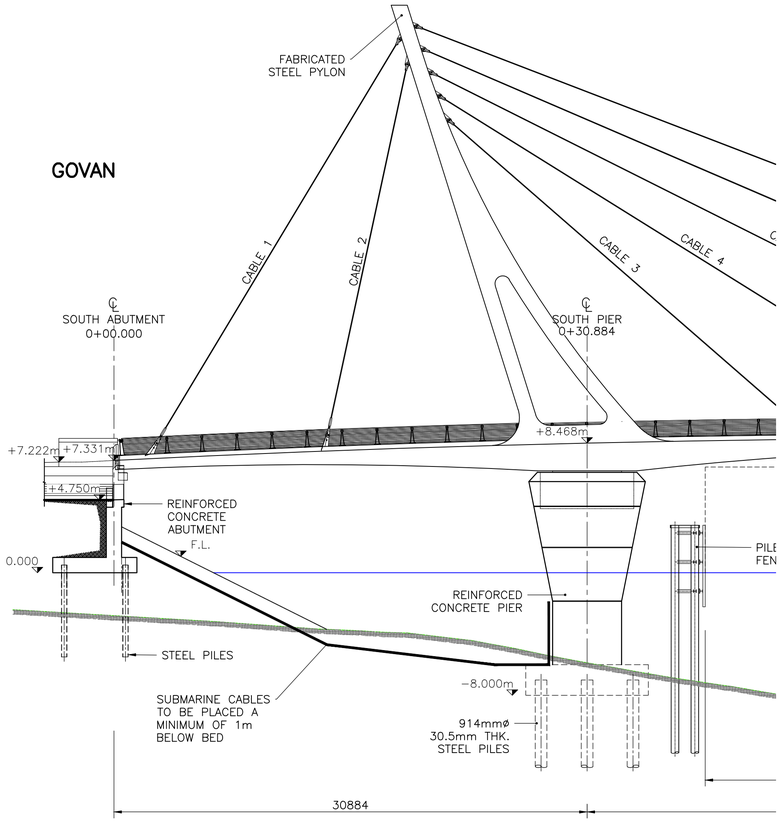

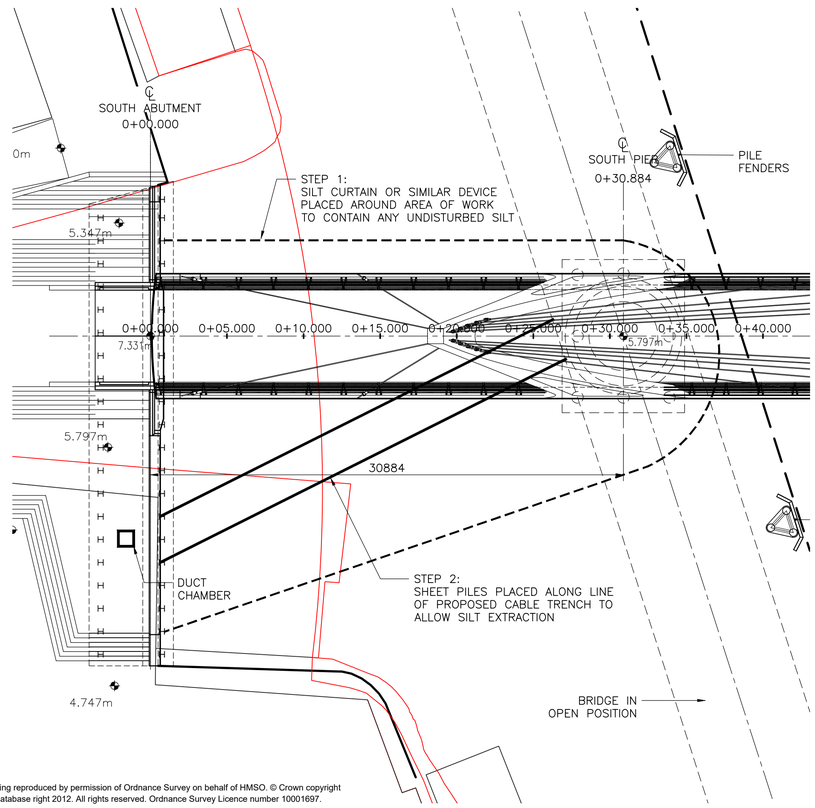

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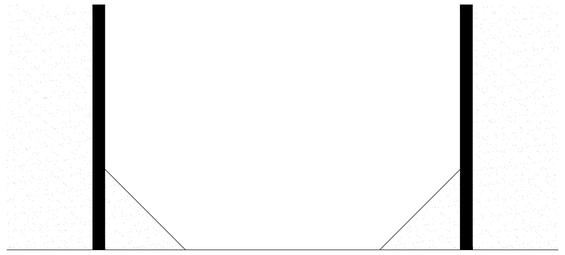
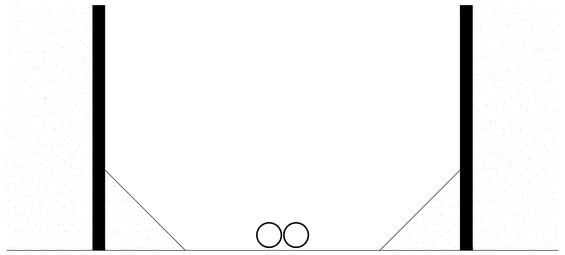
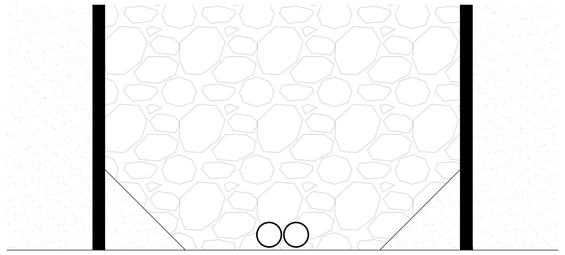
STEP 3:
PLACE SHEET PILES AND REMOVE SILT DOWN TO MINIMUM 1m BELOW BED LEVEL



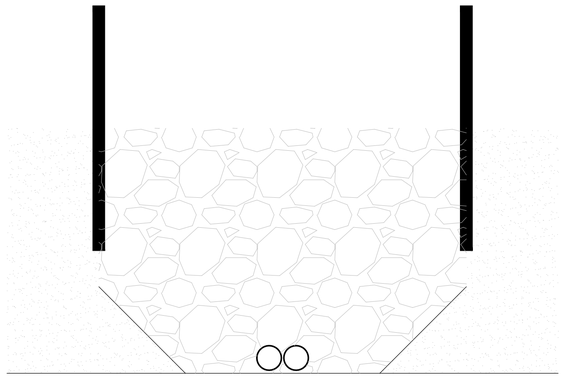
STEP 4:
LAY FLEXIBLE SPLIT DUCTS AND PULL CABLES. DUCTS TO BE STRAPPED TOGETHER AND WEIGHTED DOWN TO PREVENT FLOATING.



STEP 5:
BACKFILL WITH LAYER OF MIXED STONE SIZES TO PREVENT FLOATATION OF CABLES. REFER TO SPECIFICATION FOR BACKFILL MATERIAL.



STEP 6:
REMOVE SHEET PILES AND FILTER WATER CONTAINED WITHIN SILT CURTAIN BEFORE REMOVING CURTAIN.



Notes:

1. FOR GENERAL NOTES REFER TO DRAWING NO. 691301–JAC–DR–002.
2. DO NOT SCALE FROM THIS DRAWING. THIS DRAWING SHOWS INDICATIVE ARRANGEMENTS ONLY.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION AS WELL AS THE DRAWINGS FOR OTHER ELEMENTS OF THE WORK, IN PARTICULAR MECHANICAL AND ELECTRICAL ELEMENTS.
4. THE INSTALLATION PROCESS AND BOUNDARIES OUTLINED ON THIS DRAWING ARE TO BE DEVELOPED BY THE CONTRACTOR AND A COMPARISON AND EVALUATION MADE WITH OTHER SUITABLE METHODS. THE CONTRACTOR WILL TAKE OWNERSHIP OF THIS PROCESS AND PREPARE AN APPROPRIATE INSTALLATION METHOD STATEMENT FOR COMMENT BY THE DESIGNER'S SITE REPRESENTATIVE.
5. APPROVALS MAY ALSO BE REQUIRED FROM PEEL PORTS, SEPA AND FOR THE MARINE LICENSE AGREEMENT.
6. MINIMUM BEND RADIUS OF DUCTS REQUIRED TO SUIT SUBMARINE CABLE BEND RADIUS.

RESIDUAL HAZARDS

The following list provides reference to the Designer's Hazard/ Risk Assessment and indicates those hazards with a high mitigated residual risk index

Description of Risk	Ref. No.
Working adjustment to navigation channel.	1
Working adjustment to existing services.	2
Working over tidal water.	3
Working adjastant to access paths and pedestrians.	4

0 2 4 6 8 10 20
SCALE 1:200 @ A1 ; 1:400 @ A3 METRES

Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd
P0	31-07-2020	ISSUED FOR CAT 3 CHECK	GY	DH	GD	DMcK

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Client
GLASGOW CITY COUNCIL

Project
GOVAN - PARTICK BRIDGE

Drawing title
GOVAN PARTICK BRIDGE OUTLINE SUBMARINE CABLE INSTALLATION PROPOSAL

Drawing status: FOR CHECKING
Suitability:
Scale: As noted at A1 — DO NOT SCALE
Jacobs No.:
Client No.:
Rev: P0

Drawing number
691301-JAC-DR-0660

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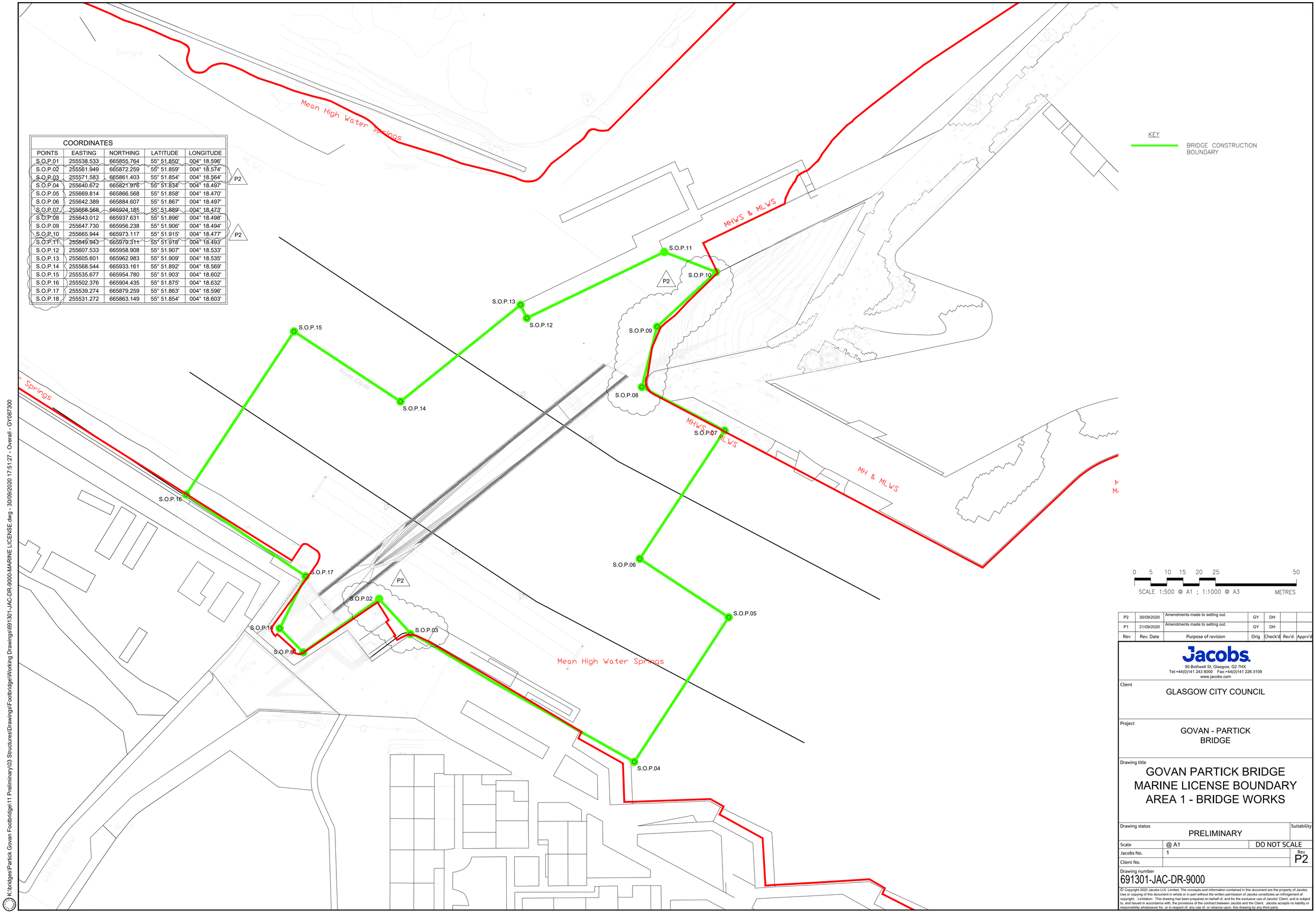

COORDINATES

POINTS	EASTING	NORTHING	LATITUDE	LONGITUDE
S.O.P.01	255538.533	665855.764	55° 51.850'	004° 18.596'
S.O.P.02	255561.949	665872.259	55° 51.859'	004° 18.574'
S.O.P.03	255571.583	665861.403	55° 51.854'	004° 18.564'
S.O.P.04	255640.672	665821.976	55° 51.834'	004° 18.497'
S.O.P.05	255669.814	665866.568	55° 51.858'	004° 18.470'
S.O.P.06	255642.389	665884.607	55° 51.867'	004° 18.497'
S.O.P.07	255668.568	665924.185	55° 51.889'	004° 18.473'
S.O.P.08	255643.012	665937.631	55° 51.896'	004° 18.498'
S.O.P.09	255647.730	665956.238	55° 51.906'	004° 18.494'
S.O.P.10	255665.944	665973.117	55° 51.915'	004° 18.477'
S.O.P.11	255649.943	665979.311	55° 51.918'	004° 18.493'
S.O.P.12	255607.533	665958.908	55° 51.907'	004° 18.533'
S.O.P.13	255605.601	665962.983	55° 51.909'	004° 18.535'
S.O.P.14	255568.544	665933.161	55° 51.892'	004° 18.569'
S.O.P.15	255535.677	665954.780	55° 51.903'	004° 18.602'
S.O.P.16	255502.376	665904.435	55° 51.875'	004° 18.632'
S.O.P.17	255539.274	665879.259	55° 51.863'	004° 18.596'
S.O.P.18	255531.272	665863.149	55° 51.854'	004° 18.603'

Rev	Rev. Date	Purpose of revision	Orig	Check'd	Rev'd	Apprv'd
P2	30/09/2020	Amendments made to setting out.	GY	DH		
P1	21/09/2020	Amendments made to setting out.	GY	DH		

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Client
GLASGOW CITY COUNCIL

Project
GOVAN - PARTICK BRIDGE

Drawing title
GOVAN PARTICK BRIDGE
MARINE LICENSE BOUNDARY
AREA 1 - BRIDGE WORKS

Drawing status: PRELIMINARY
Suitability:
Scale: @ A1 — DO NOT SCALE
Jacobs No.: 1
Client No.:
Rev: P2
Drawing number: 691301-JAC-DR-9000

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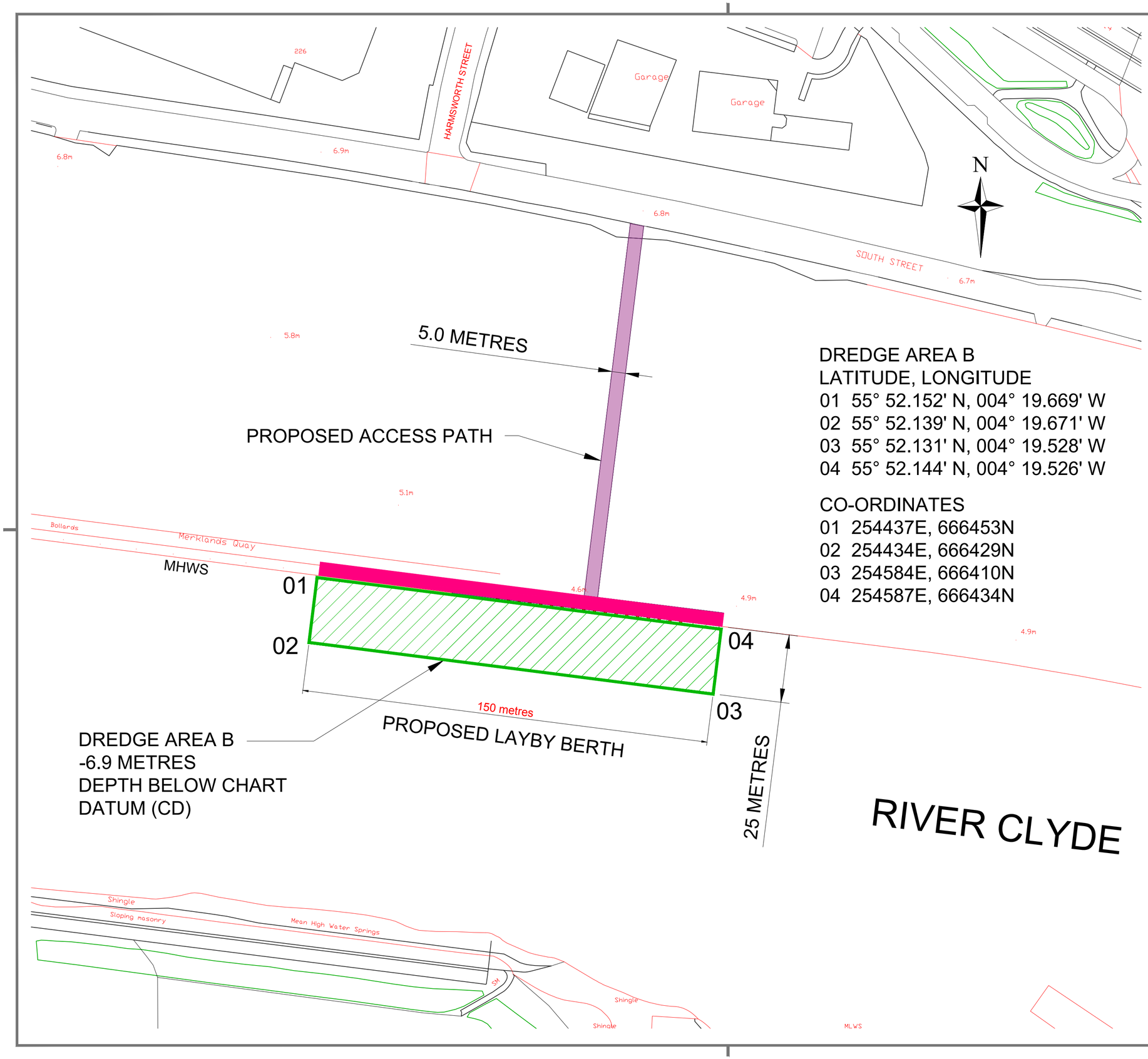

DREDGE AREA B
LATITUDE, LONGITUDE
01 55° 52.152' N, 004° 19.669' W
02 55° 52.139' N, 004° 19.671' W
03 55° 52.131' N, 004° 19.528' W
04 55° 52.144' N, 004° 19.526' W

CO-ORDINATES
01 254437E, 666453N
02 254434E, 666429N
03 254584E, 666410N
04 254587E, 666434N

1. All dimensions are in metres and all levels are metres above Ordnance Datum unless noted otherwise.

PROPOSED DREDGE POCKET

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Rev	Date	Revisions	Checked by	Approved by
B	19-11-20	Revision of co-ordenates	NM	HD
A	22-09-20	Revision of co-ordenates	NM	HD

Glasgow City Council

Prepared by	: Neil Menzies	Date	: 25 August 2020
Checked by	: H. Dempsey	Scale	: 1:1000
Approved by	: H. Dempsey	Software	: AutoCAD 2016

Executive Director of Neighbourhoods and Sustainability :
George Gillespie BEng (Hons) CEng MICE

Design Office:
Exchange House, 231 George Street, Glasgow, G1 1RX

GOVAN PARTICK BRIDGE
LAYBY BERTH
MERKLANDS QUAY
DREDGING DETAILS

Drawing No:
P-5085-P31

File Location:

Client:
Development and Regeneration Services

Glasgow CITY COUNCIL

Original Drawing Size:
594*420 (A2)

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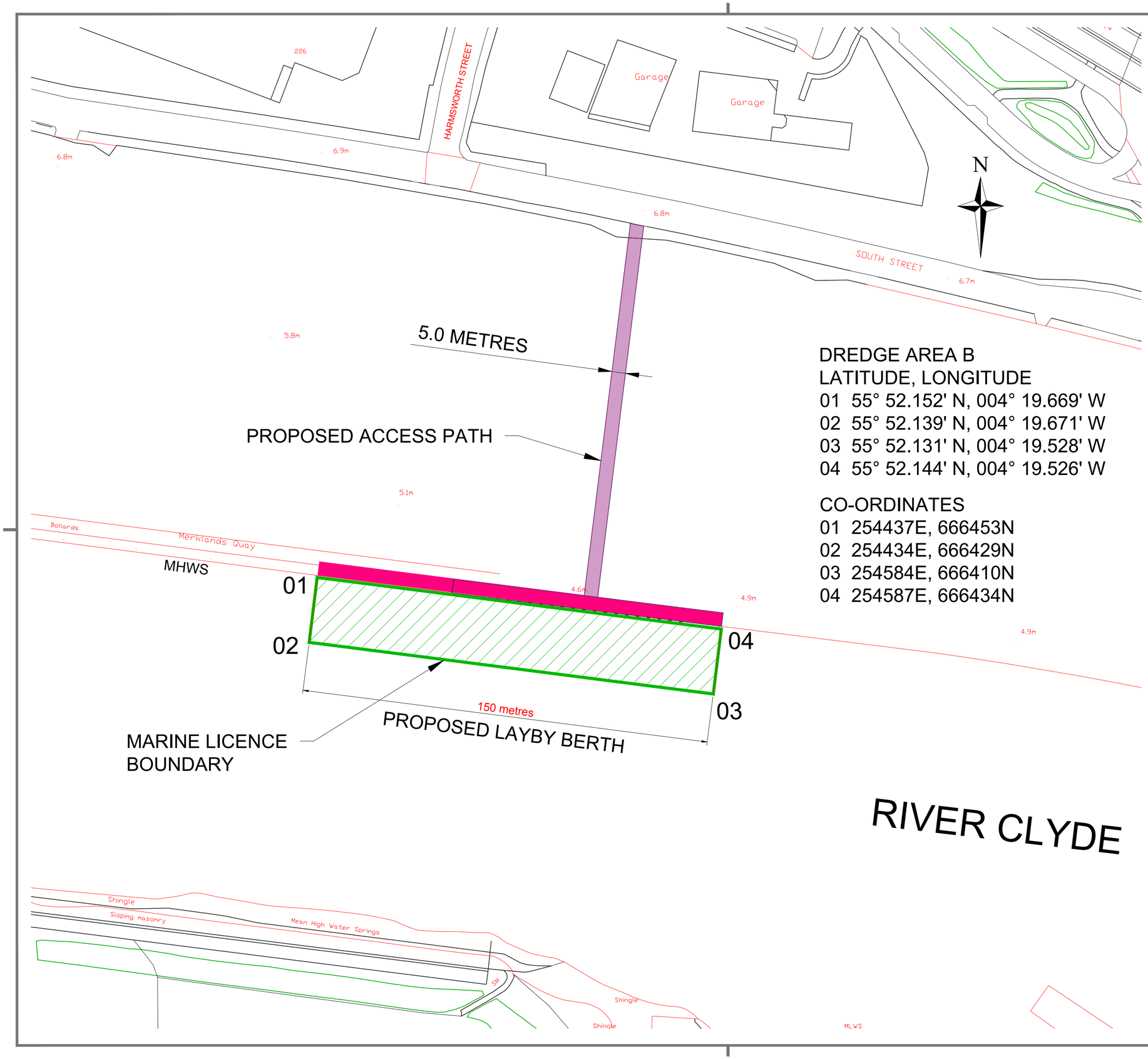

DREDGE AREA B
LATITUDE, LONGITUDE
01 55° 52.152' N, 004° 19.669' W
02 55° 52.139' N, 004° 19.671' W
03 55° 52.131' N, 004° 19.528' W
04 55° 52.144' N, 004° 19.526' W

CO-ORDINATES
01 254437E, 666453N
02 254434E, 666429N
03 254584E, 666410N
04 254587E, 666434N

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MARINE LICENCE BOUNDARY

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Rev	Date	Revisions	Checked by	Approved by
B	19-11-20	Revision of co-ordenates	NM	HD
A	22-09-20	Revision of co-ordenates	NM	HD

Glasgow City Council

Prepared by	: Neil Menzies	Date	: 2 September 2020
Checked by	: H. Dempsey	Scale	: 1:1000
Approved by	: H. Dempsey	Software	: AutoCAD 2016

Executive Director of Neighbourhoods and Sustainability :
George Gillespie BEng (Hons) CEng MICE

Design Office:
Exchange House, 231 George Street, Glasgow, G1 1RX

GOVAN PARTICK BRIDGE
MARINE LICENCE BOUNDARY
AREA B - LAYBY BERTH
MERKLANDS QUAY

Drawing No:
P-5085-P32

File Location:

Client:
Development and Regeneration Services

Original Drawing Size:
594*420 (A2)

U:\PMD FILING\P-5085 Waterfront & West End Innovation Quarter Govan-Partick Bridge\06 DRAWINGS\02 DESIGN STAGE DRAWINGS\GCC\LAND\P-5085-P32-Marine Licence Boundary Area B - Rev B.dwg