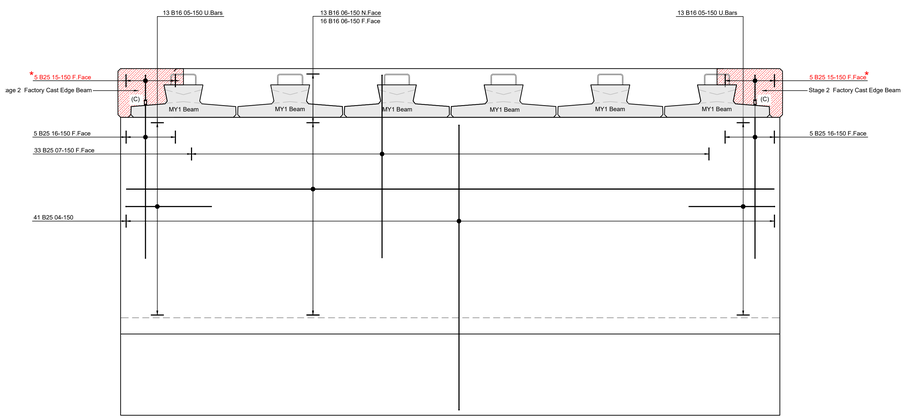
A0 Original

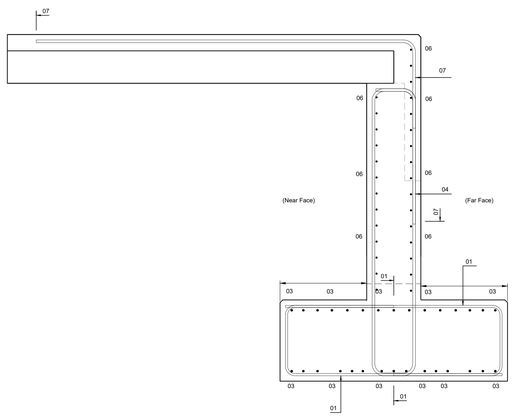


Abutment Elevation

(2No.Thus)
Scale: 1:20

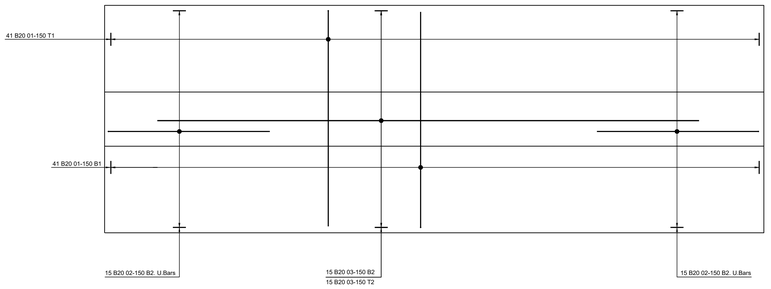
(C) Denotes location of 500B Ancon B25 Taperered thread coupler - or equal and approved.

* Denotes Reinforcement Bars to be supplied to Pre-Cast Concrete Manufacturer, to be cast into Stage 2 Factory Cast Edge Beam, to be left projecting as indicated to receive coupler as noted and fixed to Bar Mark 16.



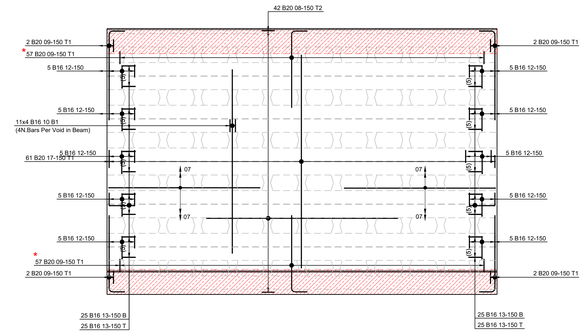
Typical Abutment Section

Scale: 1:20



Abutment - Base Slab

(2No.Thus)
Scale: 1:20



Bridge Deck Plan

Scale: 1:50

* Denotes Reinforcement Bars to be supplied to Pre-Cast Concrete Manufacturer, to be cast into Stage 2 Factory Cast Edge Beam, to be left projecting as indicated to lap with Deck Bar - Bar Mk17

General Notes

1. This drawing to be read in conjunction with all other Engineering drawings and all other relevant drawings and Specifications.
2. DO NOT SCALE FROM THIS DRAWING. Use figured dimensions only.

Design and Constuction Risks

The MY1 precast tendon layouts and specified reinforcement layouts are the responsibility of the appointed Contractor and their pre-cast supplier. The detailed design of MY1 units themselves should determine the proposed tendon layouts, shear link spacings and any associated debonding.

Legend

Precast MY1 Beams

Stage 2 Factory Cast Edge Beam

Reinforcement Legend

Bar Referencing:
Example: 13 B12-05-200

Number of Bars	13
Type of Steel	B
Diameter of Bars	12
Bar Mark No.	05
Pitch of Bars	200mm

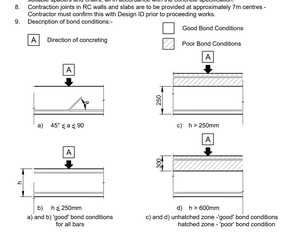
Key to Notations:

Reinforcement is to be fixed in layers starting from the bottom of slab upwards and bar marks should preferably follow a similar sequence of numbering.
Notation is as follows :

T1	Abbreviation for top outer layer
T2	Abbreviation for top second layer
B2	Abbreviation for bottom second layer
B1	Abbreviation for bottom outer layer
EF	Bars in each face
NF	Bars in near face of wall or column
FF	Bars in fare face of wall or column
AP	Bars alternately placed
AS	Bars alternately staggered
AR	Bars alternately reversed
UB	'U' Bars
LB	'L' Bars
LLT	Long leg top
LLB	Long leg bottom

Reinforcement Notes

1. Cover to reinforcement elements shown:-
   Bridge Deck: 50mm All Faces
   Abutment Seat - 50mm All Faces
   Edge Beam - 50mm All Faces
   Pre-stressed MY1 Beams - 40mm All Faces
2. For Concrete Specification of the elements presented on this drawing, refer to Tender Specification (2B - Volume A Works Requirements Contract 5).
3. All reinforcement bars shall be in accordance with BS 8666 with a minimum yield strength of 500N/mm².
4. All mesh reinforcement to BS 4483 : 2005 and to have a minimum lap length of 450mm. All mesh to be flying ends.
5. Reinforcement bar laps as per shown in table below.
6. The contractor should estimate and provide the necessary quantity of mesh reinforcement (including laps on all sides) as indicated on Engineers drawings.
7. All reinforcement to be fixed securely in the correct position, and to the specified cover, using suitable spacers and chairs, all in accordance with the concrete specification.
8. Contraction joints in RC walls and slabs are to be provided at approximately 7m centres - Contractor must confirm this with Design ID prior to proceeding works.
9. Description of bond conditions:-



MIN REINFORCEMENT LAP LENGTH - WALLS & SLABS				
BAR SIZE	GOOD BOND	POOR BOND	GOOD BOND	POOR BOND
	(Staggered Lap)	(Staggered Lap)	(Non- Staggered Lap)	(Non- Staggered Lap)
mm	mm	mm	mm	mm
8	390	980	410	590
10	480	690	510	730
12	580	830	620	880
16	770	1110	820	1170
20	960	1380	1020	1460
25	1200	1725	1290	1840
32	1540	2210	1650	2350
40	2090	2980	2240	3200

Rev	Date	Drawn By	Appr. By	Description
P02	15/09/2026	CC	RC	Second Issue
P01	01/09/2026	YH	RC	First Issue

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Project
Shesknan Bridge
Rehabilitation Works

Design ID Project No.
25319

Scale(s) @ A0
As Shown

Drawing Title
Bridge Deck Replacement
Reinforcement Details

Suitability & Description
S3 For Review & Comment

Project	Originator	Functional Breakdown	Spatial Breakdown	Form	Discipline	Number	Revision
25319	DID	03	XX	RC	C	3001	P02