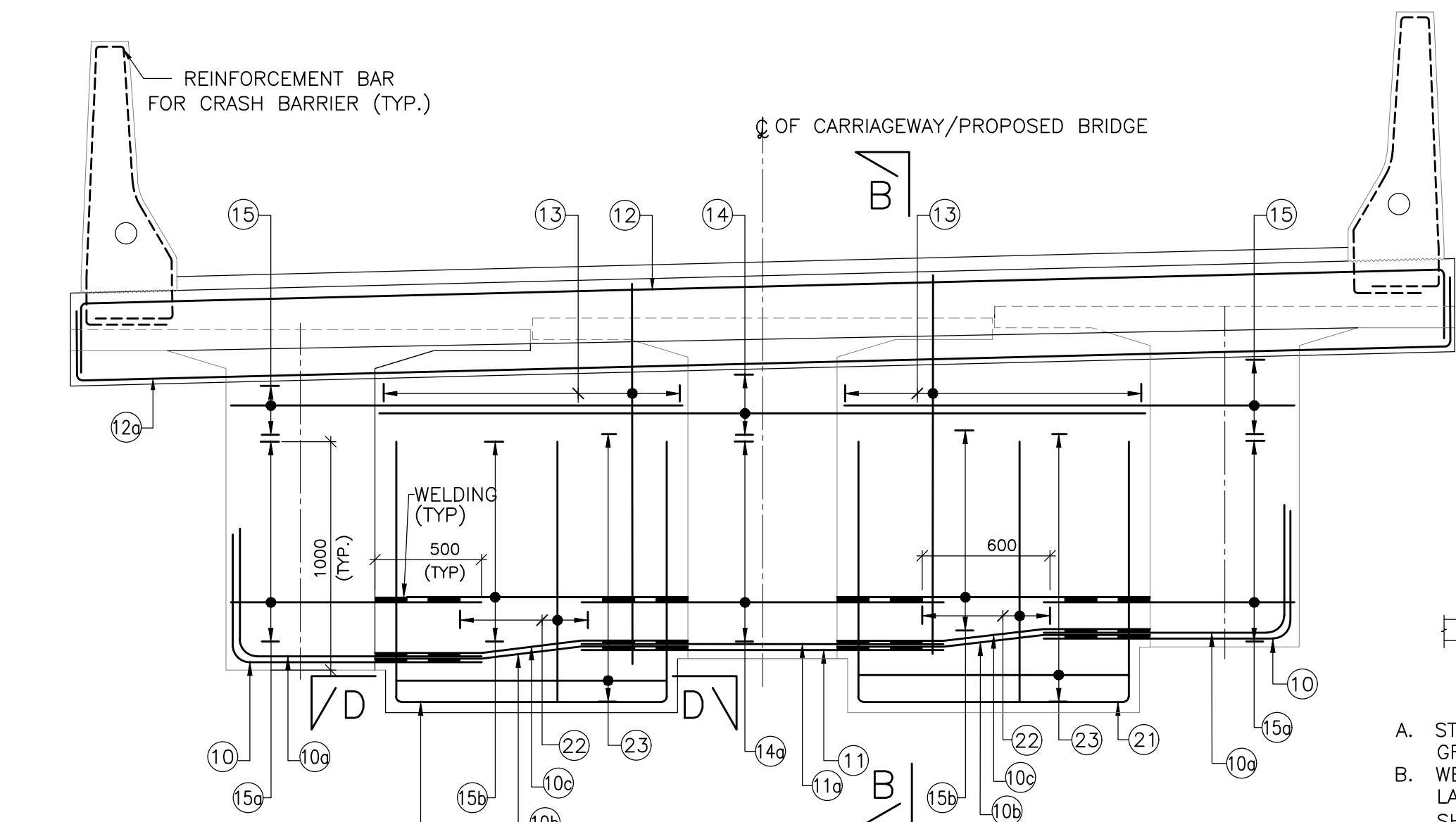


HALF PLAN SHOWING ONLY TOP BARS IN SLAB PLAN (SCALE 1:75)

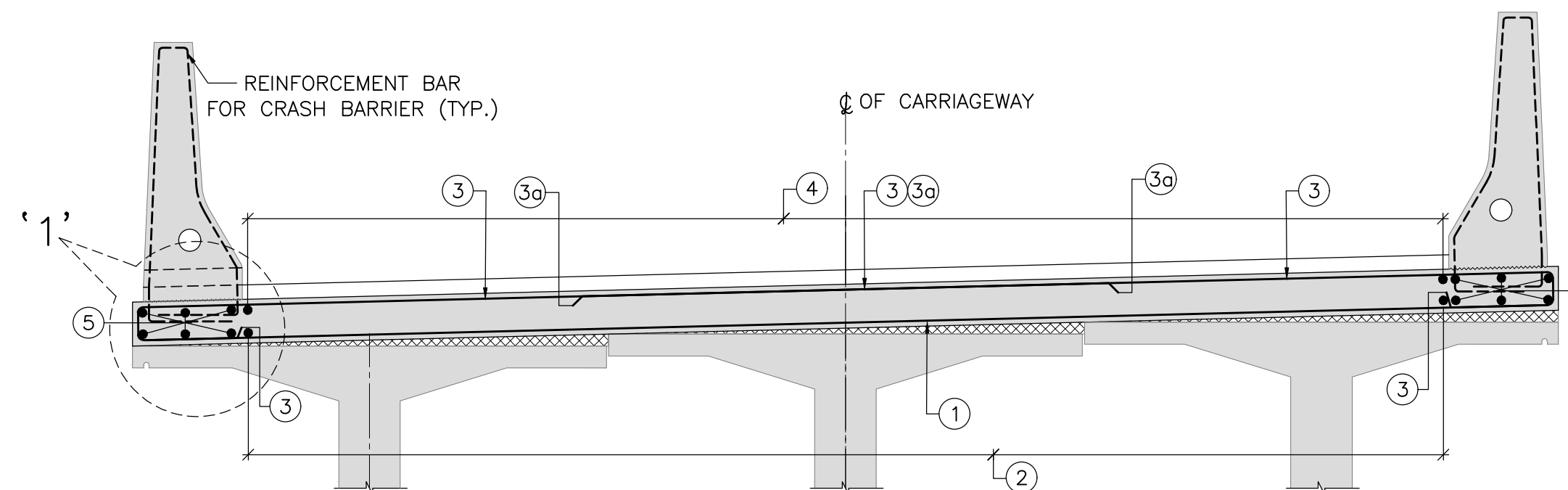
HALF PLAN SHOWING ONLY BOTTOM BARS IN SLAB



ELEVATION OF END DIAPHRAGM (SCALE 1:25)

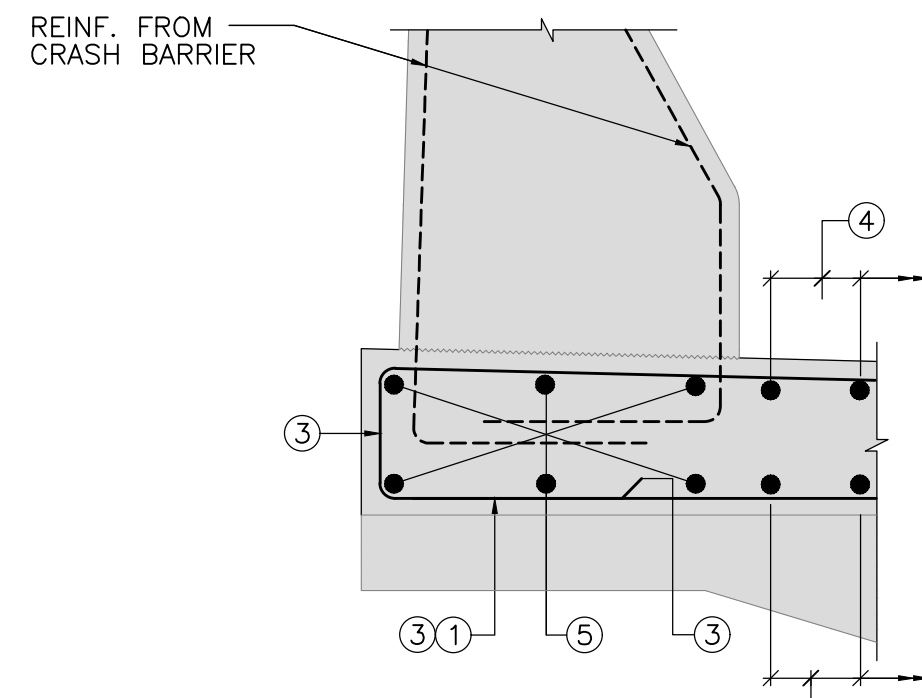
(SPACER BAR NOT SHOWN FOR CLARITY)

(SLAB REINF. NOT SHOWN FOR CLARITY)

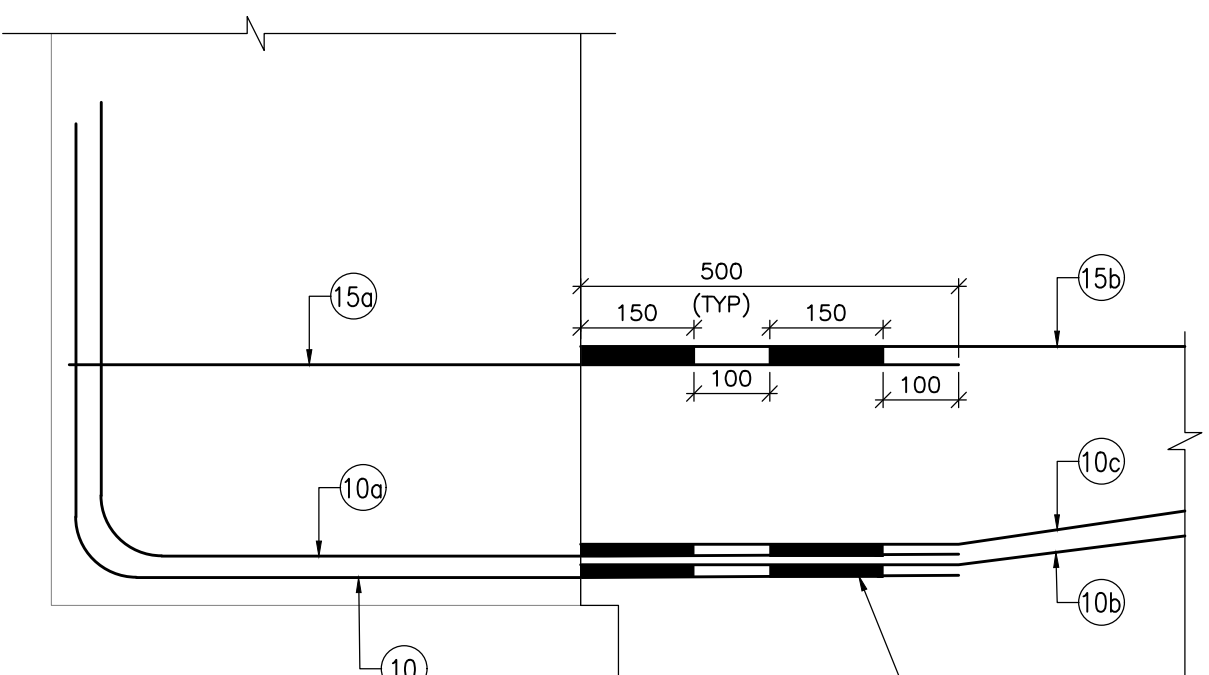


SECTION A-A (SCALE 1:25)

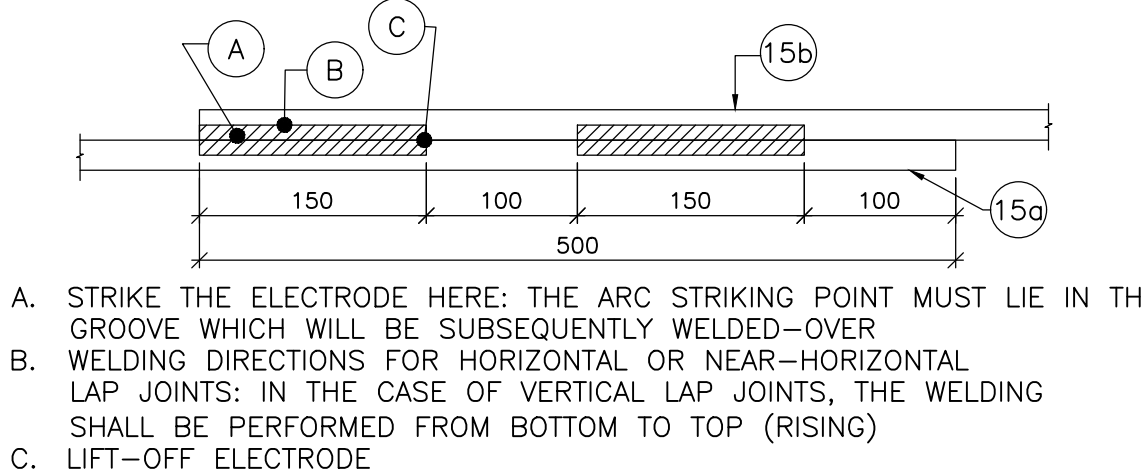
(GIRDER REINF. NOT SHOWN FOR CLARITY)



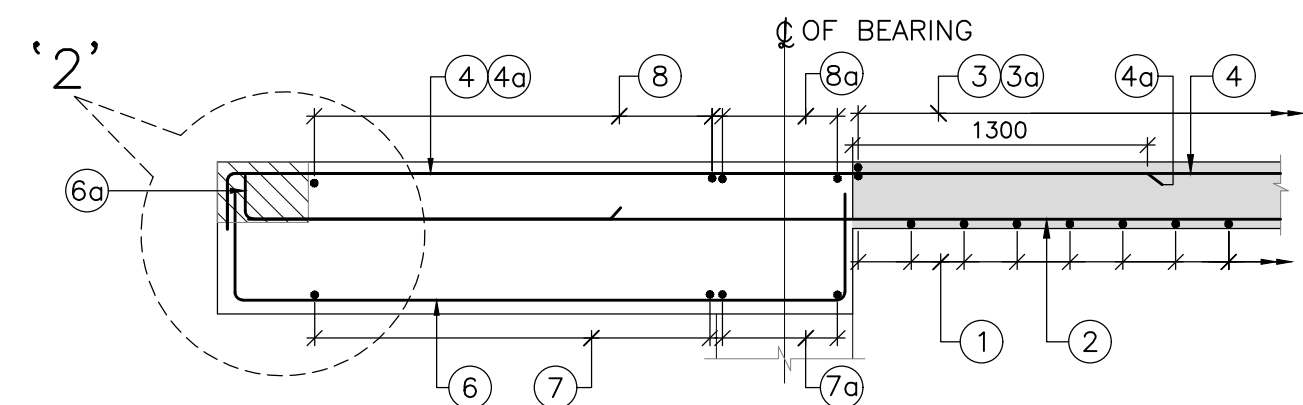
DETAIL-1 (SCALE 1:10)



WELDING DETAILS (SCALE 1:10)

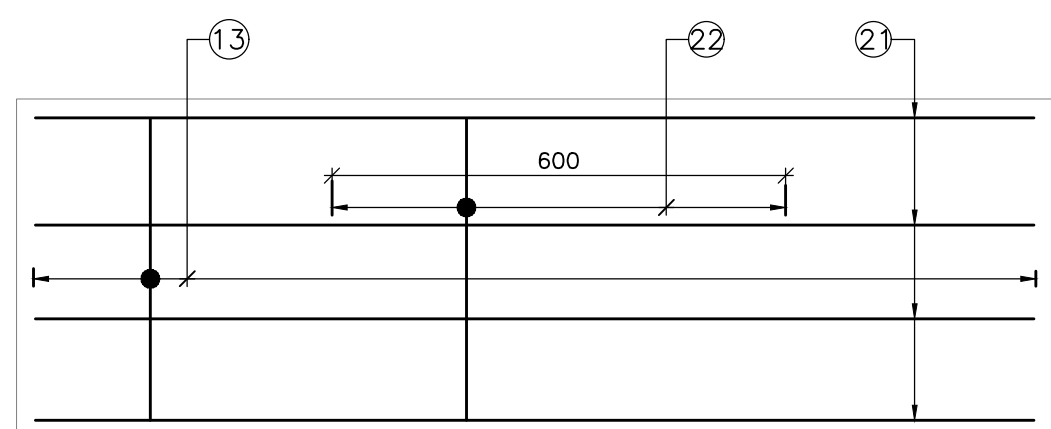


TYPICAL WELDING DETAILS OF TWO BARS (SCALE 1:1)



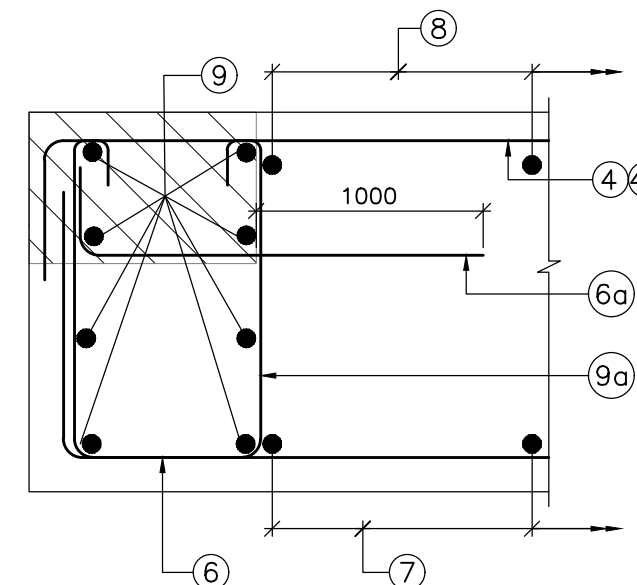
VIEW C-C (SCALE 1:25)

(AT EXPANSION JOINT)



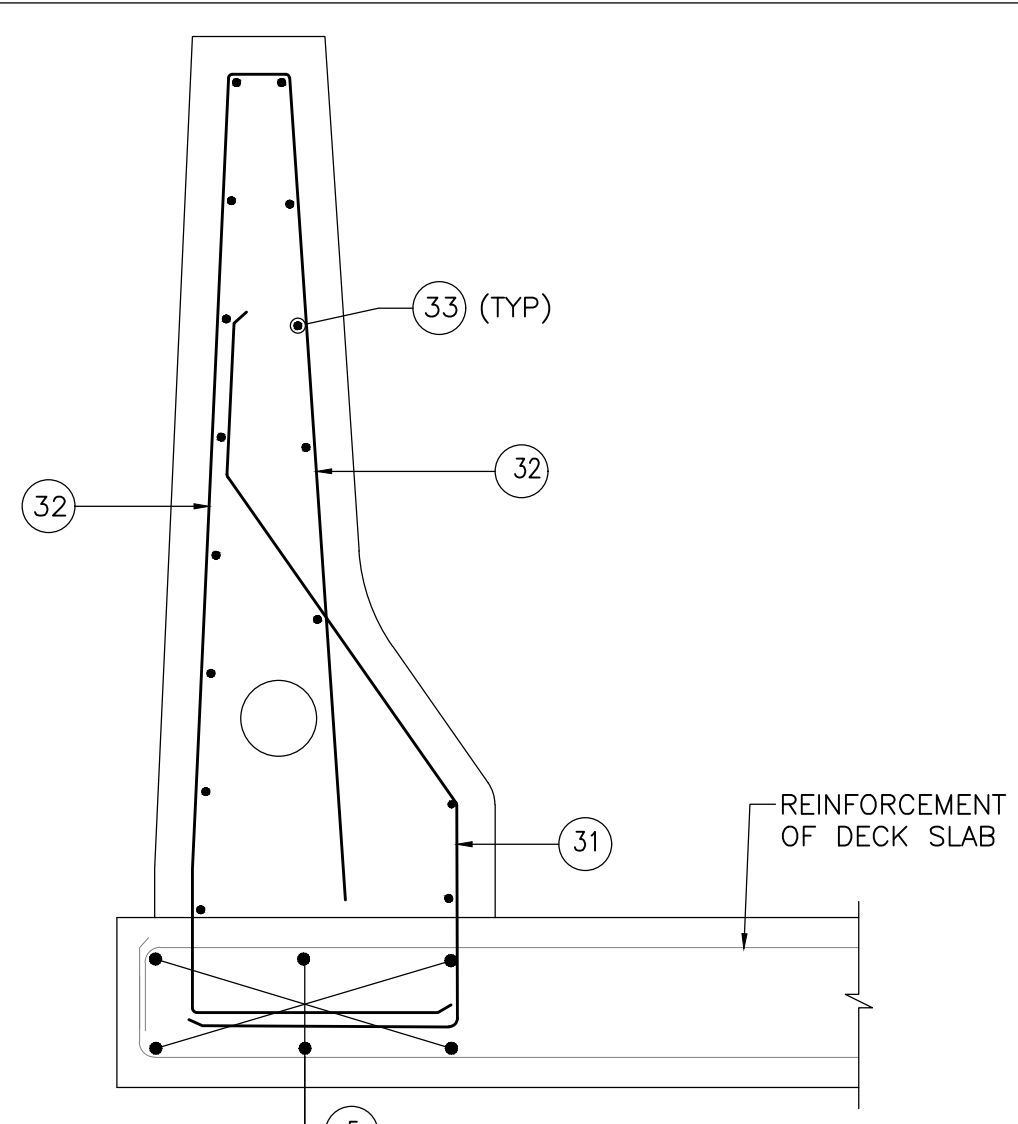
SECTION D-D (SCALE 1:10)

(BAR MARK 23 NOT SHOWN FOR CLARITY)

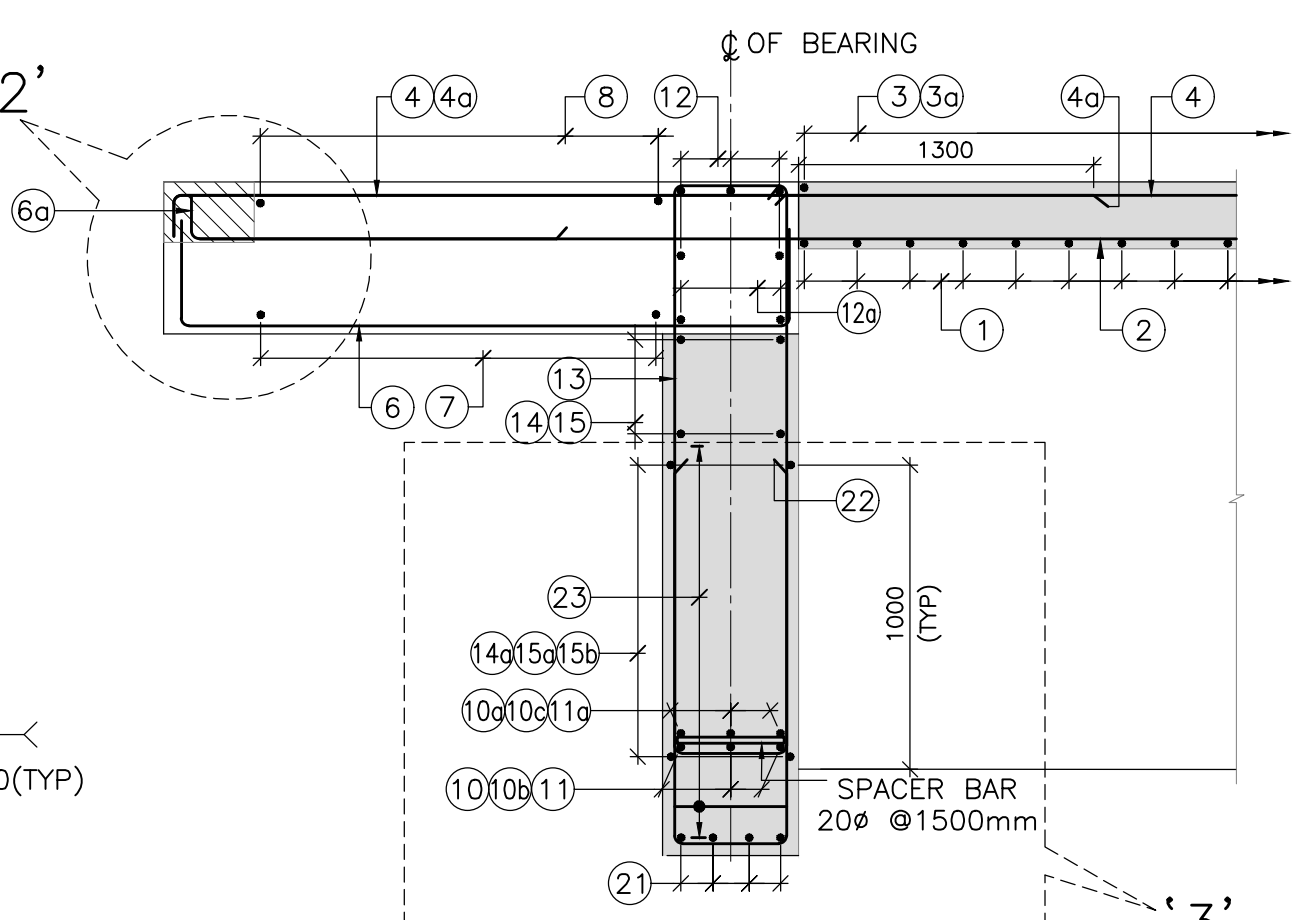


DETAIL-2 (SCALE 1:10)

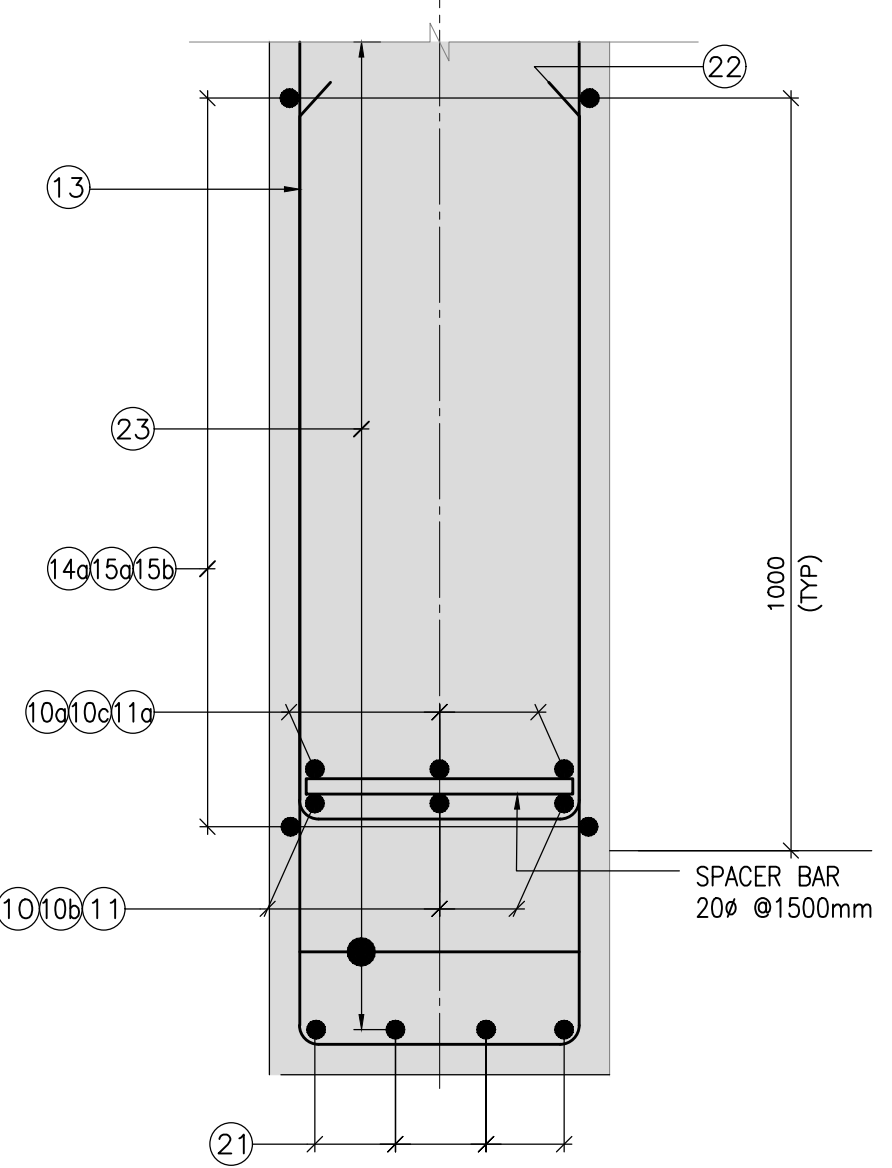
(BAR MARK 2 NOT SHOWN FOR CLARITY)



REINFORCEMENT DETAILS FOR CRASH BARRIER (SCALE 1:10)



SECTION B-B (SCALE 1:25)



DETAIL-3 (SCALE 1:10)

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES, LEVELS ARE IN METERS, UNLESS OTHERWISE NOTED.
  2. DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
  3. MINIMUM CLEAR COVER TO ANY REINFORCEMENT SHALL BE 40mm UNLESS OTHERWISE MENTIONED.
  4. MINIMUM LAP LENGTH & MAXIMUM PERCENTAGE OF BARS TO BE LAPPED AT ANY SECTION SHALL BE AS MENTIONED IN TABLE BELOW
- | PERCENTAGE LAP     | 25  | 33  | 50  | >50 |
|--------------------|-----|-----|-----|-----|
| DEVELOPMENT LENGTH | 32d | 37d | 45d | 48d |
- d = DIAMETER OF BAR
- THE LAPS SHALL BE STAGGERED BY MINIMUM DISTANCE OF 1.3 TIMES THE LAP LENGTH.
5. REINFORCEMENT WHEREVER NECESSARY SHALL BE LOCALLY BENT OR ADJUSTED TO ENSURE PROPER CONCRETING.
  6. CRASH BARRIER IS DESIGNED FOR 2M LENGTH AND AFTER 2M 20MM GAP WILL BE PROVIDED AND THIS GAP NEED TO FILLED WITH DURABLE SOFT JOINT FILLET.

**SCHEDULE OF REINFORCEMENT**

BAR MARK	BAR DIA.	SHAPE	TOTAL NOS./ SPACINGS	REMARKS
1	16		150 c/c	BOTTOM BAR
2	10	100	200 c/c	BOTTOM BAR
3	10	400	150 c/c	TOP BAR
3a	10		2400	ALTERNATE BUNDLE WITH BAR MARK (3)
4	10	100	200 c/c	TOP BAR
4a	20	300	100 c/c	TOP BAR
5	16	300	2x6 NOS.	
6	12	300	200 c/c	
6a	10	125	200 c/c	
7	10	100	200 c/c	BOTTOM BAR
7a	10	125 660	200 c/c	BUNDLE WITH BAR NO. (7)
8	12	300	175 c/c	TOP BAR
8a	12	125 660	175 c/c	
9	16		8 NOS.	
9a	10		200 c/c	
10	20	600	3 NOS.	
10a	20	600	3 NOS.	
10b	20		3 NOS.	WELDING WITH (10)
10c	20		3 NOS.	WELDING WITH (10a)
11	20		3 NOS.	
11a	20		3 NOS.	
12	20	300	5 NOS.	
12a	20	300	2 NOS.	
13	16		125 c/c	2 LEGGED STIRRUP
14	12		100 c/c	EACH FACE
14a	20		100 c/c	EACH FACE
15	300		100 c/c	EACH FACE
15a	20	300	100 c/c	EACH FACE
15b	20		100 c/c	EACH FACE
16 to 20				NOT USED
21	25	1250	4 NOS.	EACH ARRESTER
22	20	1250	5 NOS.	
23	12		150 c/c	8 LEGGED STIRRUP
24 to 30				NOT USED
31	12	500 350	150 c/c	
32	10	1100 350	150 c/c	
33	10	2000 75 300	200 c/c	

**NOTES:**

022077-BSRP-CR2-C-V-D-GEN-20-5201 .....CONCRETE DIMENSIONS FOR POST TENSIONED I GIRDER SUPERSTRUCTURE 28m SPAN

022077-BSRP-CR2-C-V-D-GEN-20-5202 .....CABLE PROFILE FOR POST TENSIONED I GIRDER SUPERSTRUCTURE 28m SPAN

022077-BSRP-CR2-C-V-D-GEN-20-5203 .....REINFORCEMENT DETAILS OF GIRDER FOR POST TENSIONED I GIRDER SUPERSTRUCTURE 28m SPAN

**LEGEND:**

**REFERENCE DRAWINGS:**

**REFERENCE DOCUMENTS:**

**KEY PLAN:**

**STATION BOX KEY PLAN:**

**PROJECT:** BENGALURU SUBURBAN RAILWAY PROJECT (BSRP)

**DRAWING TITLE:** REINFORCEMENT DETAILS OF DECK SLAB, DIAPHRAGM AND CRASH BARRIER FOR POST TENSIONED I GIRDER SUPERSTRUCTURE 28.772m, 28m, 22m, 20.75m, 17.75m & 14m STRAIGHT SPAN

**DRAWING NO.:** 022077-BSRP-CR2-C-V-D-GEN-20-5204

**REVISION:** B D

**DATE:** 25.06.24

**SCALE:** AS SHOWN

**DATE:** 25.06.24

**SHEET SIZE:** A1

**CONTRACTOR:** TRANSPORTATION INFRASTRUCTURE IC

**QUALITY ASSURANCE:**

**GENERAL CONSULTANTS:**

**EMPLOYER:** RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED

**GENERAL CONSULTANTS:** AECOM @ egis