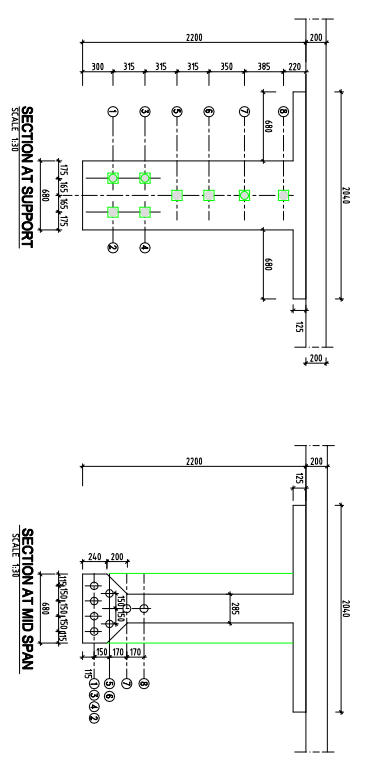
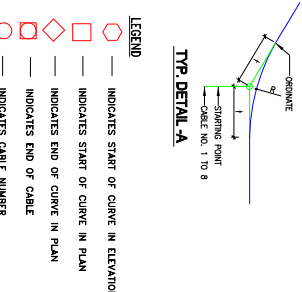


- NOTES:**
- The length of cables indicated are measured along profile between mid-span and end of precast girder only. Additional length required for attaching jacks is to be added in consultation with manufacturer.
  - The extensions indicated are for portion of cables lying between midspan and end of precast girder only. Additional extension for portion lying between end face and gripping point of jack is to be added (approximate in mm).
  - The extensions are based on the following data:
    - Wobble coefficient  $k = 0.033/m$ .
    - Friction coefficient  $\mu = 0.20$
    - Modulus of Elasticity of steel in strand  $E_s = 195,000 \text{ N/mm}^2$
    - Modulus of elasticity of prestressing steel  $E_p = 195,000 \text{ N/mm}^2$
    - For 17 1/3 cables.
  - The sequence of stressing of prestressing cables shall be as follows:
    - Cable 1234 (02113) & 7 (01113) in 1/4 Day or onwring 81.5% cable strength whichever is later.
    - Cable 56 (02113) & 8 (01113) in 5/8 Day after casting of girder or 2/3 Day after casting of slab which ever is later.
  - All cables are to have smooth profile (without kinks) passing through given ordinates and firmly supported at every 10m interval as shown.
  - The grade of concrete for superstructure is M30 & end block M40.
  - The yield stress of H.T. strand considered is  $863.17 \times 10 \text{ kg/cm}^2$ .
  - Standard as per IS: 4268 shall be of CLASS-III.
  - Emergency strands of 2 T 1/3 are provided in cable no. 7 & 8.
  - For the cable having 17 1/3 strand the standard anchorage of cable 19 T 1/3 shall be used.
  - For other details refer following drawings:
    - General notes
    - Schematic arrangement of super structure Dwg. no. SA/19/22/06-R3 & anchorage details
    - Reinforcement in main girders
    - Reinforcement in end cross girders
    - Reinforcement in intermediate cross girders Dwg. no. SA/19/22/12-R3
    - Reinforcement in deck slab & kerb Dwg. no. SA/19/22/13-R3

CABLE NO.	ORDINATES AT DISTANCE X FROM CENTRE																							
	21000	20000	19000	18000	17000	16000	15000	14000	13000	12000	11000	10000	9000	8000	7000	6000	5000	4000	3000	2000	1000	0		
1	274.48	+18.0	210.69	+192.0	146.90	+214.0	115.00	+225.0	115.00	+225.0	115.00	+225.0	115.00	+225.0	115.00	+225.0	115.00	+225.0	115.00	+225.0	115.00	+225.0	115.00	+225.0
2	274.48	-18.0	210.69	-192.0	146.90	-214.0	115.00	-225.0	115.00	-225.0	115.00	-225.0	115.00	-225.0	115.00	-225.0	115.00	-225.0	115.00	-225.0	115.00	-225.0	115.00	-225.0
3	577.96	+16.0	465.37	+143.8	392.78	+126.7	300.19	+109.5	207.59	+92.2	115.00	+75.0	115.00	+75.0	115.00	+75.0	115.00	+75.0	115.00	+75.0	115.00	+75.0	115.00	+75.0
4	577.96	-16.0	465.37	-143.8	392.78	-126.7	300.19	-109.5	207.59	-92.2	115.00	-75.0	115.00	-75.0	115.00	-75.0	115.00	-75.0	115.00	-75.0	115.00	-75.0	115.00	-75.0
5	910.86	0.0	863.02	0.0	815.18	0.0	767.34	0.0	719.50	0.0	671.65	0.0	623.81	0.0	575.97	0.0	528.13	0.0	480.29	0.0	432.45	0.0	384.60	0.0
6	1221.80	0.0	1163.92	0.0	1106.03	0.0	1047.84	0.0	989.65	0.0	931.46	0.0	873.28	0.0	815.09	0.0	756.90	0.0	698.71	0.0	640.52	0.0	582.33	0.0
7	1571.68	0.0	1513.39	0.0	1455.10	0.0	1396.81	0.0	1338.52	0.0	1280.23	0.0	1221.93	0.0	1163.64	0.0	1105.35	0.0	1047.06	0.0	988.77	0.0	930.48	0.0
8	1933.08	0.0	1874.99	0.0	1822.11	0.0	1768.32	0.0	1698.53	0.0	1624.74	0.0	1558.95	0.0	1493.16	0.0	1427.37	0.0	1361.58	0.0	1295.79	0.0	1230.00	0.0



CABLE NO.	SEQUENCE OF STRESSING	LENGTH (M mm)	EXTENSION AT EACH END (mm)	EMERGENCE ANGLE (°)	JACKING FORCE	RADIUS (R) & TANGENT LENGTH (l)	
						R (Cm)	l = R x tan <sup>2</sup> θ
1	1	21405.8849	152.70	3.65	171.85	1050	33.45
2	2	21405.8849	152.70	3.65	171.85	1050	33.45
3	4	21423.0987	152.80	5.29	171.85	1050	48.50
4	5	21423.0987	152.80	5.29	171.85	1050	48.50
5	8	21415.8883	154.30	2.75	171.85	1050	25.11
6	7	21428.3904	153.80	3.37	171.85	1050	30.42
7	3	21433.7904	153.50	3.37	243.46	1050	30.81
8	6	21445.8114	153.80	3.75	243.46	1050	34.46



- LEGEND**
- INDICATES START OF CURVE IN ELEVATION
  - INDICATES START OF CURVE IN PLAN
  - ◇ INDICATES END OF CURVE IN PLAN
  - INDICATES END OF CABLE
  - INDICATES CABLE NUMBER

**SAMPLE**

