

TOTAL ACTIVE STRANDS = 39

TOTAL INACTIVE STRANDS = 2

Figure 1 is a plan view of the test girder. The overall length is 1450 cm. The top flange width is 400 cm, with a central 200 cm section. The bottom flange width is 80 cm. The height of the web is 70 cm. The reinforcement layout includes 11 top bars (1-11) and 39 bottom bars (1-39). The top bars are located at the top of the web and flange, and the bottom bars are located at the bottom of the web and flange. The reinforcement layout is shown in Figure 1.

20" (MAX. ID) HOLLOW RIGID HDPE PIPE

EFFECTIVE SEAL AGAINST SLURRY INGRESS (USING EPOXY PUTTY OR ANY OTHER SUITABLE MATERIAL TO ACHIEVE EFFECTIVE SEAL)

STRAND (TYP.)

DEBONDED PORTION

BONDED PORTION

ENDS TO BE SEALED WITH EPOXY MORTAR

FACE OF GIRDER

EXTENDED PORTION OF RIGID HDPE PIPE DURING CONCRETING, TO BE CUT AFTER CONCRETING.

Diagram illustrating the components of the composite pipe:

- STRANDS
- HOLLOW RIGID HDPE PIPE ENDS TO BE SEALED WITH EPOXY MORTAR

DEFLECTION OF GIRDER AT MID SPAN

| STAGE | STAGE | OUTER (mm) | INNER (mm) |
|-------|----------------|---------------|---------------|
| 1 | DL+PSC | -20.439 | -20.439 |
| 2 | STAGE-1 + SLAB | -13.822 | -13.667 |
| 3 | STAGE-2 + SIDL | -11.020 | -11.104 |
| 4 | STAGE-3 + LL | -6.798 | -6.877 |

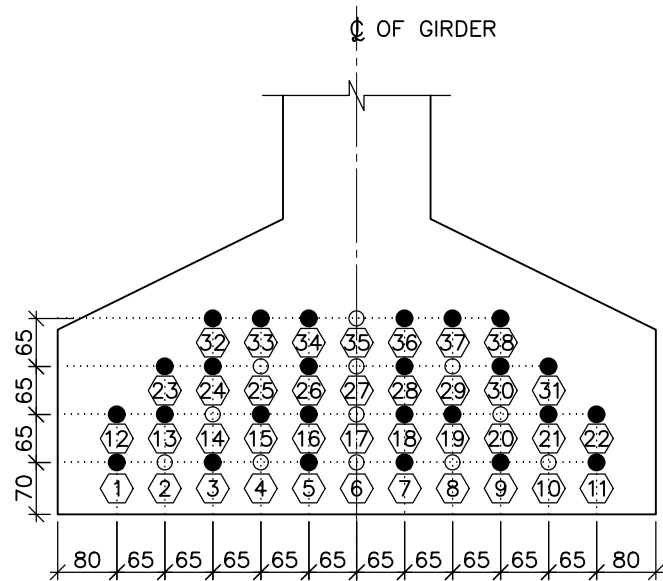
REFERENCE DRAWINGS :

022077-BSRP-CR2-C-V0-GEN-20-2322...GENERAL ARRANGEMENT FOR 22 M STRAIGHT SPAN
SUPERSTRUCTURE AT VIADUCT FOR CR2 FOR CP210
TO CP210-1 = DOUBLE TRACK

022077-BSRP-CR2-C-V0-GEN-20-2323...REINFORCEMENT DETAILS OF 22 M STRAIGHT SPAN
SUPERSTRUCTURE AT VIADUCT FOR CR2 FOR CP210
TO CP210-1 = DOUBLE TRACK

022077-BSRP-CR2-C-V0-GEN-20-2325...REINFORCEMENT DETAILS OF 22 M STRAIGHT SPAN
SUPERSTRUCTURE AT VIADUCT FOR CR2 FOR CP210
TO CP210-1 = DOUBLE TRACK (DECK SLAB AND
DIAPHRAGM)

| SR. NO. | ACTIVITY | DAYS | STRENGTH |
|---------|---|--|--|
| 1 | PLACING REINFORCEMENT & STRANDS PRESTRESSING OF STRANDS. | 0 | — |
| 2 | PLACING MOULDS & POURING OF CONCRETE. | 0 | — |
| 3 | TRANSFER OF PRESTRESS | 8 DAYS OF CONCRETING OF 1—GIRDER | 45 MPa |
| 4 | CASTING OF DECK SLAB & DIAPHRAGM | 21 DAYS OF CONCRETING OF 1—GIRDER | 60 MPa |
| 5 | APPLICATION OF SIDL | 28 DAYS OF CONCRETING OF DECK SLAB | 100% STRENGTH OF CONCRETE OF DECK SLAB |



SECTION A3-A3
(SCALE 1:10)

[illegible]