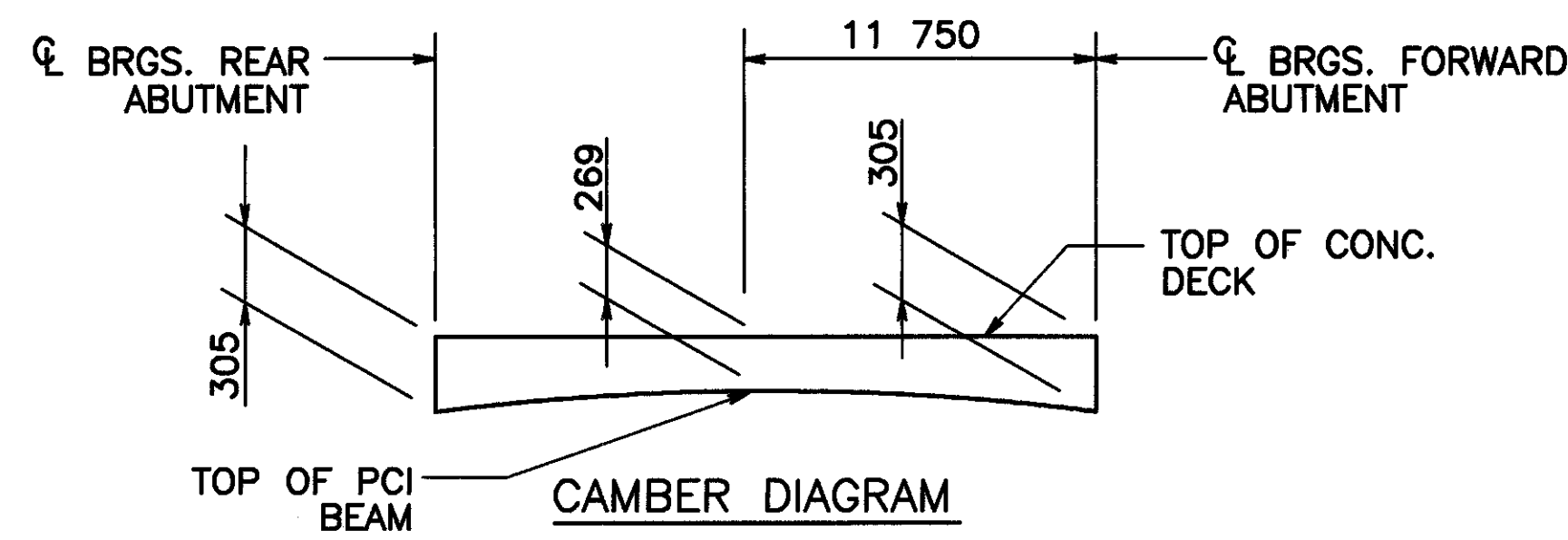


TYPICAL BEAM ELEVATION

LEGEND

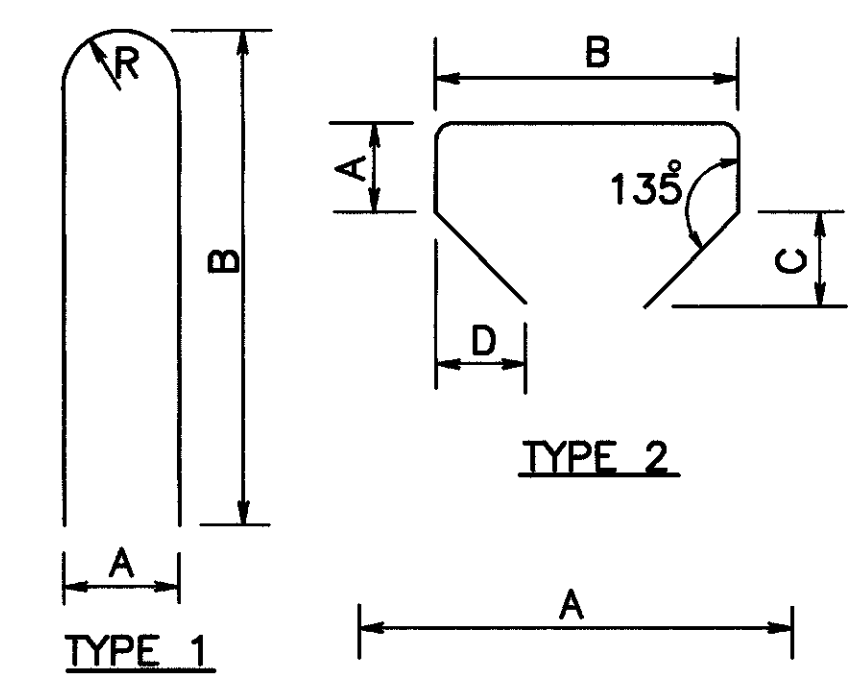
- ⊕ DEBOND STRAND 4880 EACH END
- ▲ DEBOND STRAND 4270 EACH END
- ▼ DEBOND STRAND 3660 EACH END
- ▽ DEBOND STRAND 3050 EACH END
- ◆ DEBOND STRAND 2440 EACH END
- ⊞ DEBOND STRAND 1830 EACH END
- ▲ DEBOND STRAND 1220 EACH END



CAMBER DIAGRAM

MARK	TYPE	DIMENSIONS				
		A	B	C	D	R
* B10M01	1	120	1240			60
B10M02	2	135	500	180	180	
B10M03	2	120	330	95	95	
B20M01	3	8730				

* THIS BAR SHALL BE EPOXY COATED.

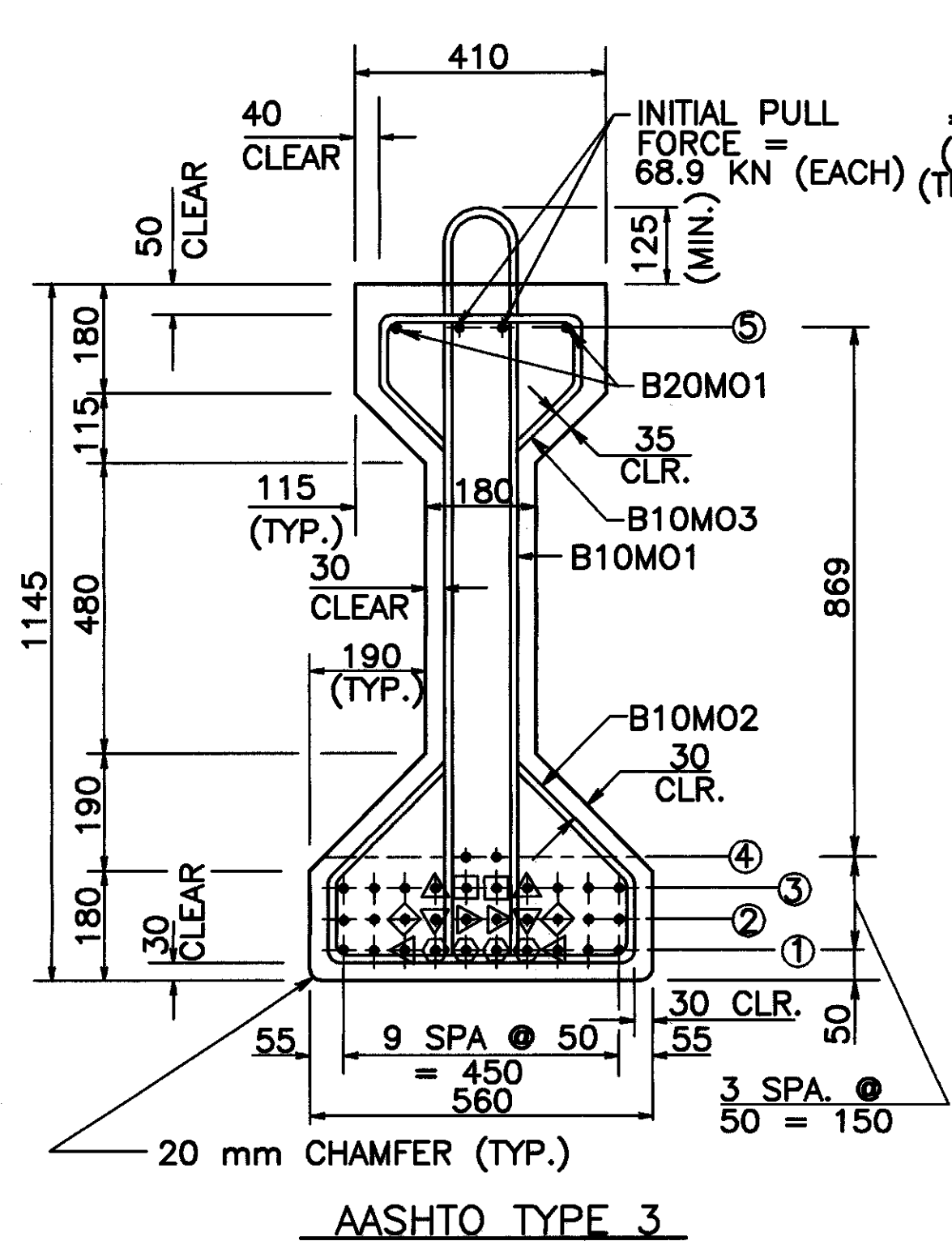


BENDING DIAGRAMS

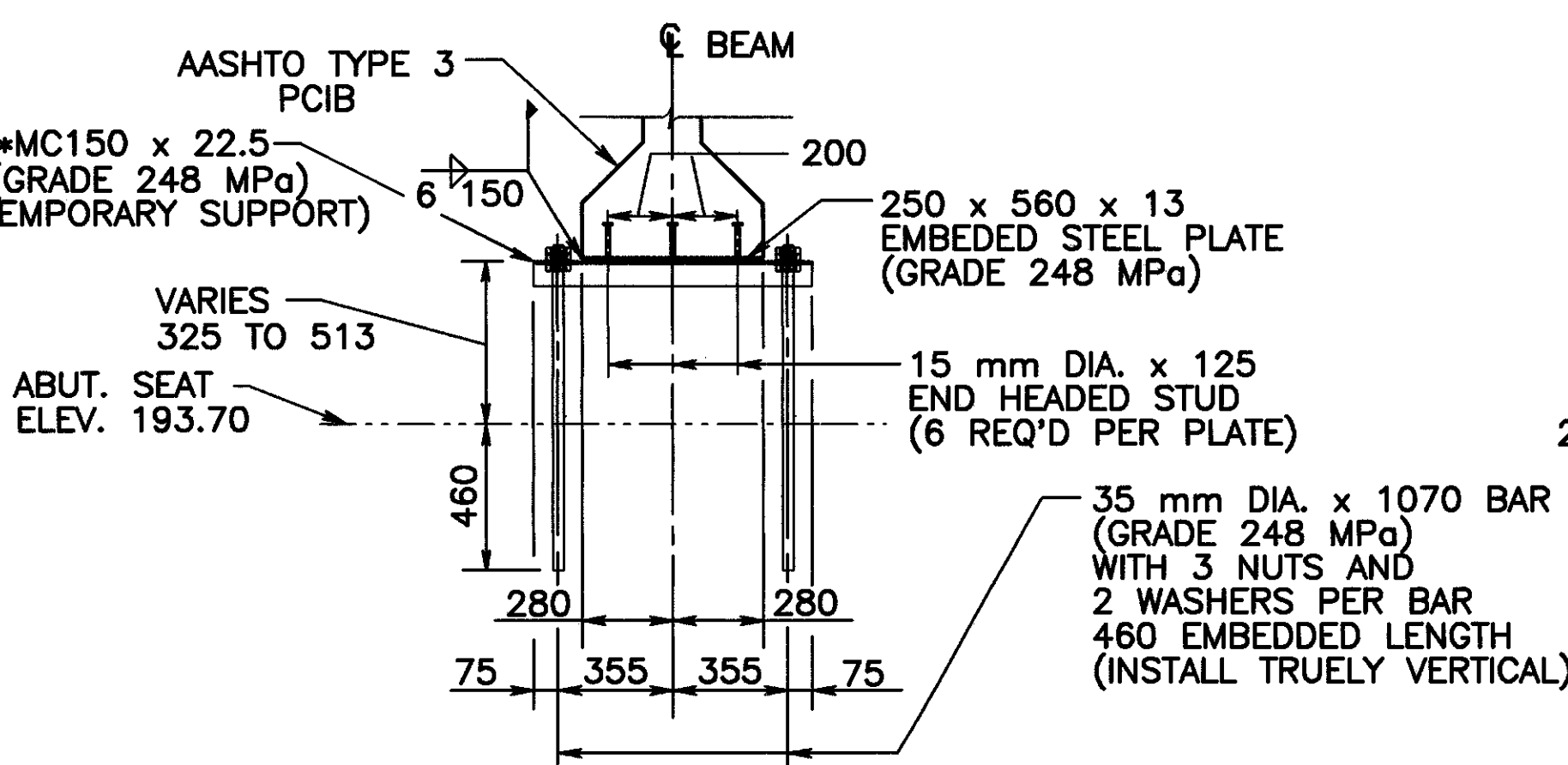
BEAM MARK	NUMBER OF STRANDS PER ROW					TOTAL STRANDS	CONCRETE STRENGTHS		10M01 BARS REQ'D	10M02 BARS REQ'D	10M03 BARS REQ'D	20M01 BARS REQ'D
	①	②	③	④	⑤		f'ci	f'c				
B1-W.B.THURU B8-W.B.	10	10	10	2	2	34	36.5	38.0	97	97	97	6
B1-E.B.THURU B8-E.B.	10	10	10	2	2	34	36.5	38.0	97	97	97	6

REINFORCEMENT AND STRANDS ARE GIVEN PER BEAM

BEAM CAMBER AND DEFLECTION	
FINAL PRESTRESS CAMBER	75
DEAD LOAD DEFLECTION OF SLAB, PARAPETS	39
GEOMETRIC CAMBER	0
ANTICIPATED EXCESS CAMBER	36

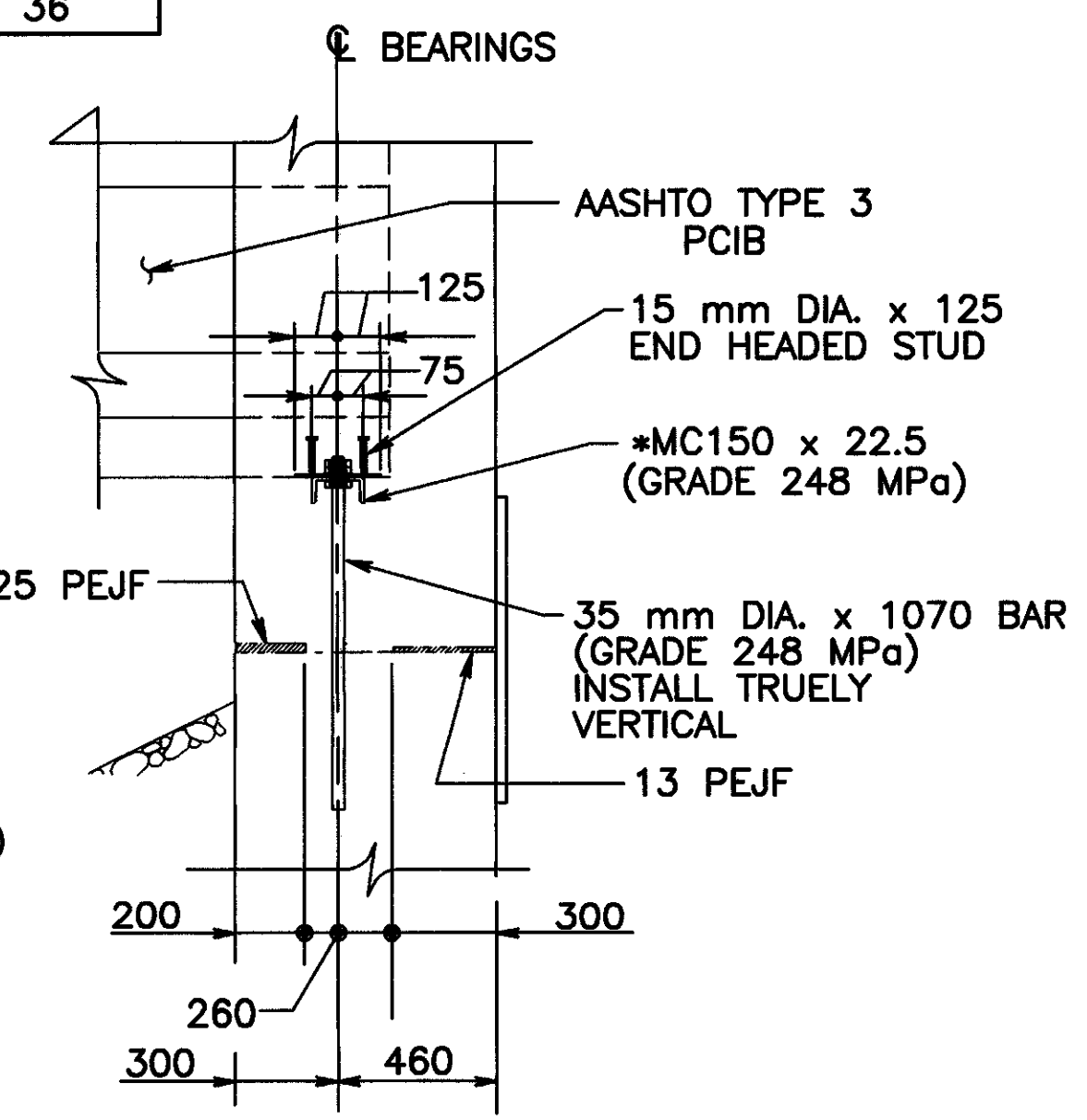


AASHTO TYPE 3



SECTION ALONG C BEARINGS

THE 35 mm DIA. EMBEDDED BARS ARE A TEMPORARY SUPPORT FOR THE I-BEAMS DURING DIAPHRAGM PLACEMENT ONLY. HARDWOOD BLOCKING IS REQUIRED BETWEEN THE WEBS OF THE PRESTRESSED BEAMS TO PROVIDE LATERAL STABILITY AND BETWEEN THE ABUTMENT SEAT AND THE CHANNEL TO PROVIDE VERTICAL SUPPORT. THE HARDWOOD BLOCKING SHALL REMAIN IN PLACE UNTIL THE MOMENT THE DIAPHRAGMS WILL BE POURED. TO TRANSFER THE BEAM REACTION TO THE TO THE TEMPORARY BEARING ASSEMBLY PRIOR TO REMOVING THE HARDWOOD BLOCKING THROUGH OPENINGS LOCATED BELOW EACH BEAM IN THE FORMWORK. WHEN THE HARDWOOD BLOCKING IS REMOVED, THE OPENINGS IN THE FORMWORK SHALL BE FRAMED IN AND THE DIAPHRAGM POURED. (SEE SHEET 7/13 FOR RECOMMENDED BEAM ERECTION PROCEDURE).



SECTION THROUGH ABUTMENT

*PROVIDE SHORT SLOTTED HOLES IN LONGITUDINAL DIRECTION. ALIGN C 35mm Ø BAR WITH C SLOTTED HOLE AT 20°C. ADJUST AS REQUIRED FOR TEMPERATURE.

NOTES:

1. SEE SHEET 2/13 FOR GENERAL NOTES.
2. SEE STD. DWG. PSID-1-95M FOR ADDITIONAL BEAM DETAILS, AND NOTES.
3. PRESTRESSING STEEL SHALL BE 12.7 mm DIA. UNCOATED, SEVEN WIRE, LOW RELAXATION, ASTM A416M GRADE 270 STRANDS WITH AN AREA OF 99 SQUARE MILLIMETERS. THE INITIAL PULL FORCE PER STRAND SHALL BE 137.8 KN UNLESS OTHERWISE NOTED.
4. MILD REINFORCING STEEL SHALL BE GRADE 400. REINFORCEMENT EXTENDING FROM BEAMS SHALL BE EPOXY COATED.
5. STIRRUPS SHALL COMPLETELY ENCLOSE THE STRANDS FOR THE ENTIRE LENGTH OF THE BEAM.
6. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 38.0 MPa IN 28 DAYS.
7. CONCRETE MUST ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 36.5 MPa BEFORE THE PRESTRESSING STRANDS ARE RELEASED.
8. PRESTRESSED LOSSES HAVE BEEN COMPUTED ACCORDING TO AASHTO AND MODIFIED BY THE BRIDGE DESIGN MANUAL.
9. PRESTRESSED BEAM DESIGN INCLUDES A 2.87 kN/m² FUTURE WEARING SURFACE.
10. ALL DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE NOTED.
11. CONCRETE BEAMS SHALL BE MAINTAINED IN AN UPRIGHT POSITION AT ALL TIMES.