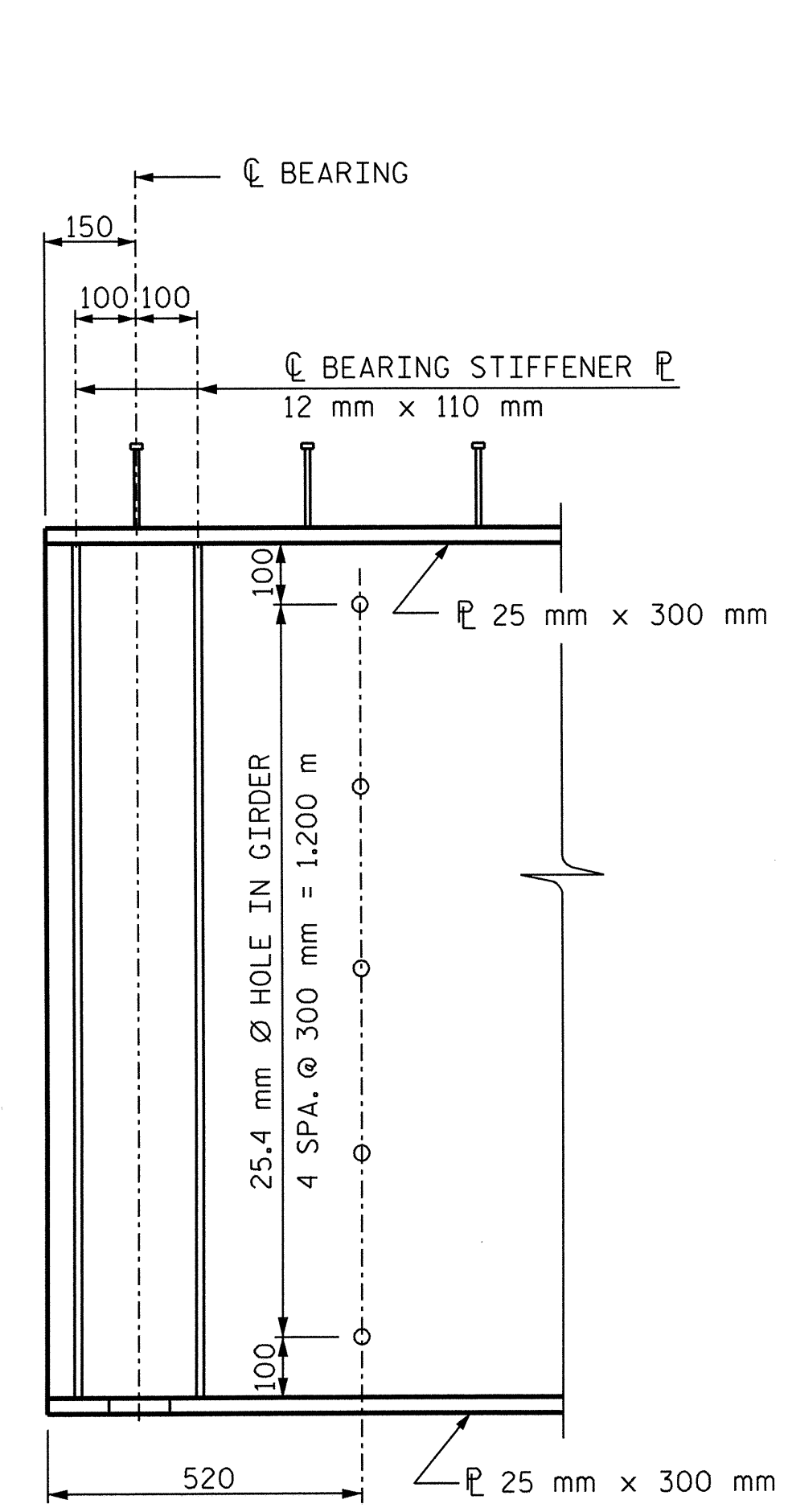
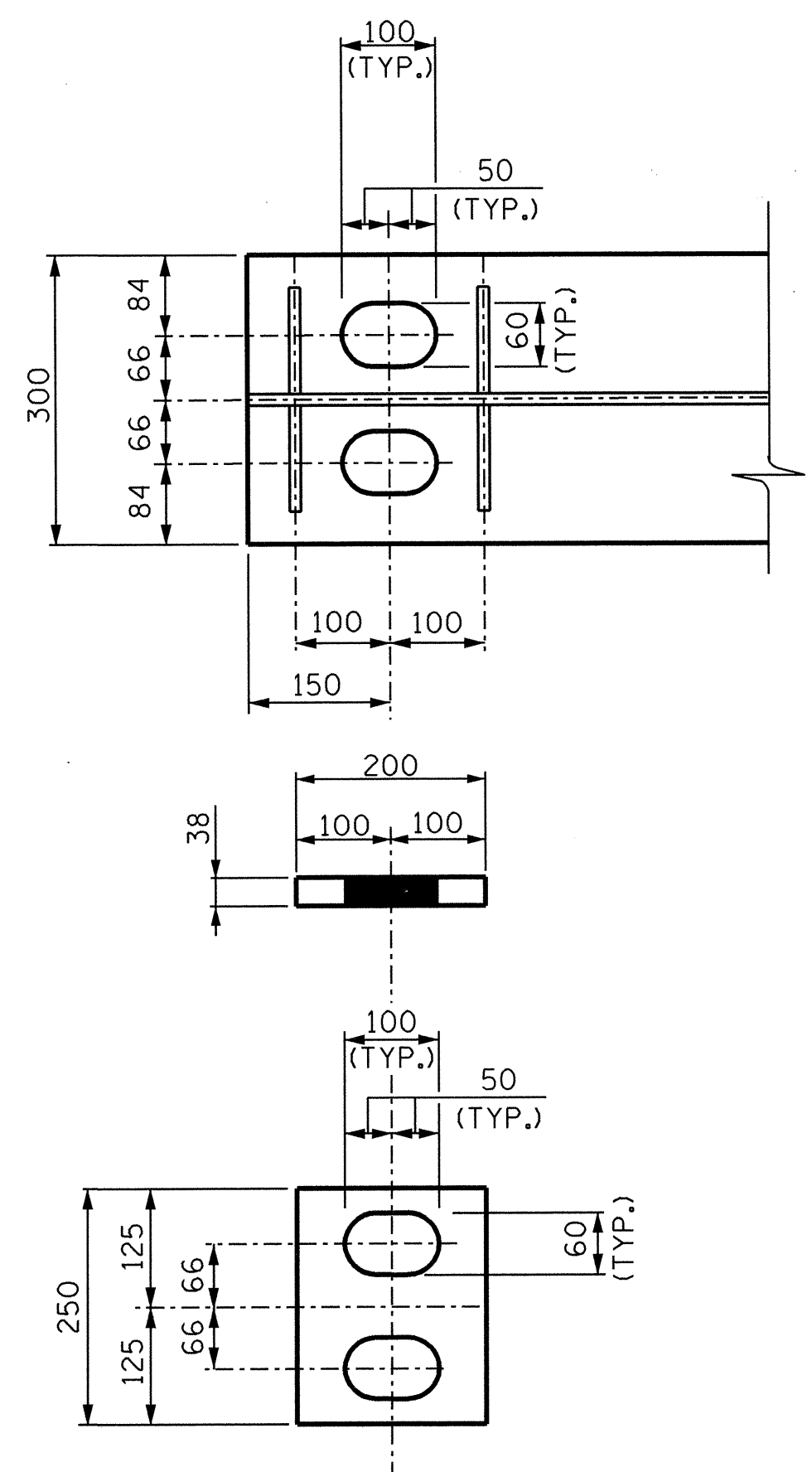


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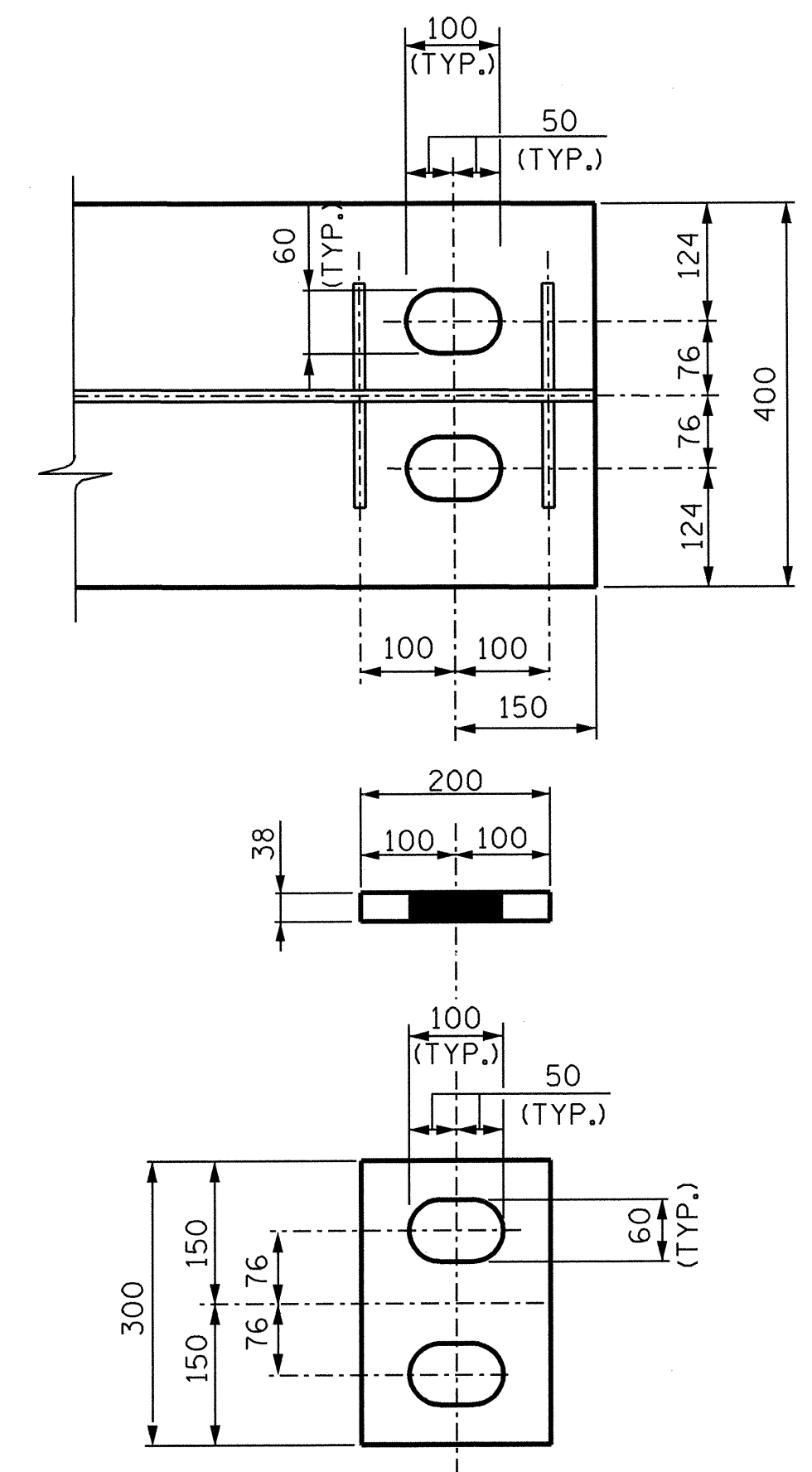


DETAIL "A"
(END BENT 1 SHOWN, END BENT 2 SIMILAR.)



SOLE PLATE
END BENT 1
(4 REQUIRED)

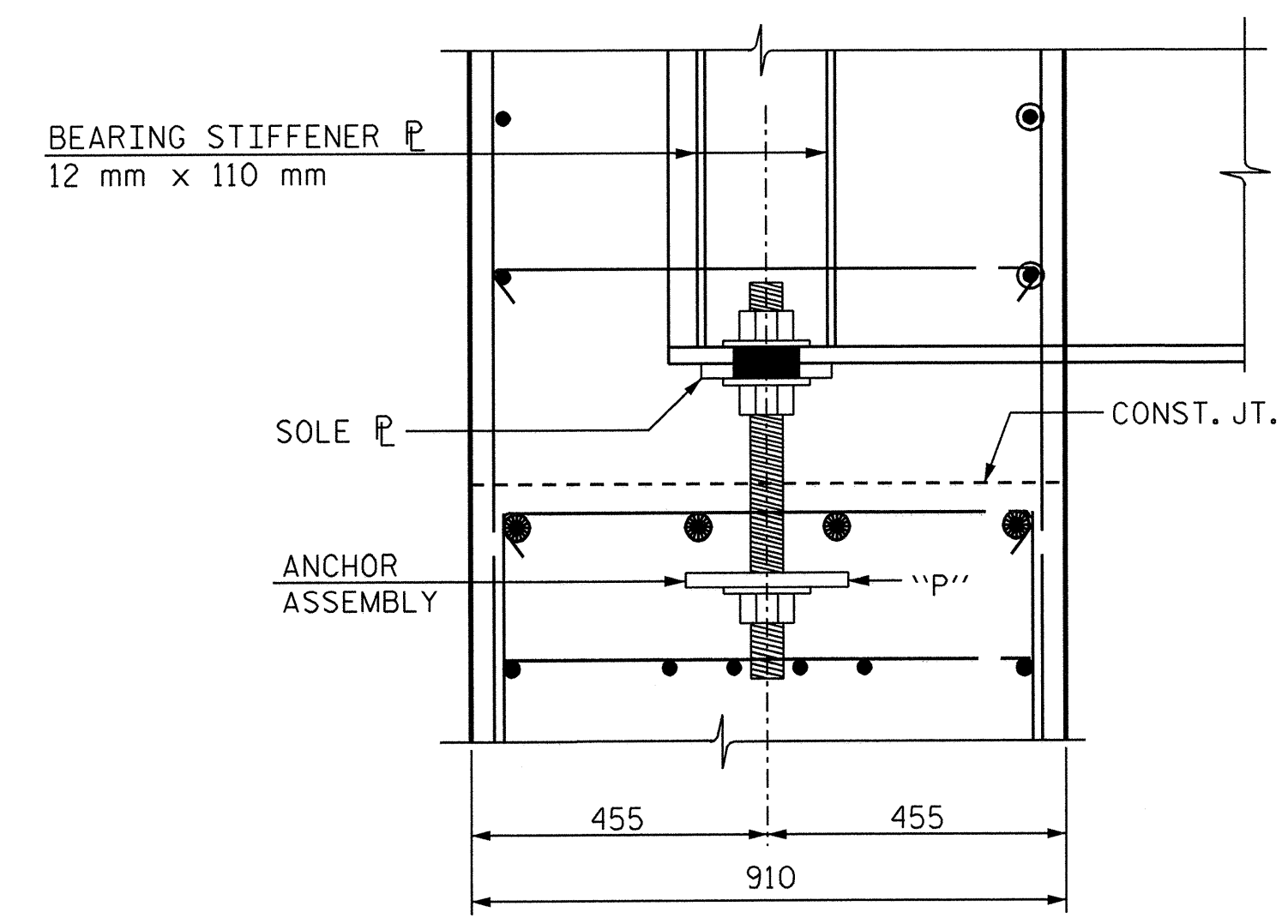
DETAIL "B"



SOLE PLATE
END BENT 2
(4 REQUIRED)

DETAIL "C"

GIRDER DETAILS



GIRDER ANCHOR ASSEMBLY
(END BENT 1 SHOWN, END BENT 2 SIMILAR.)
(16 REQUIRED)

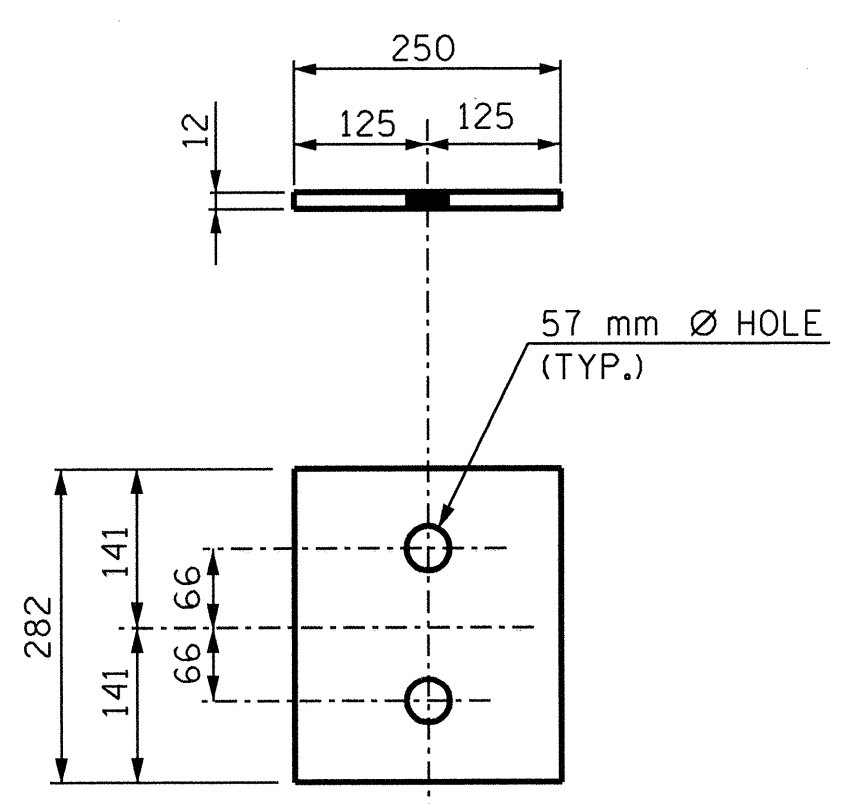


PLATE (P1)
END BENT 1
(4 REQUIRED)

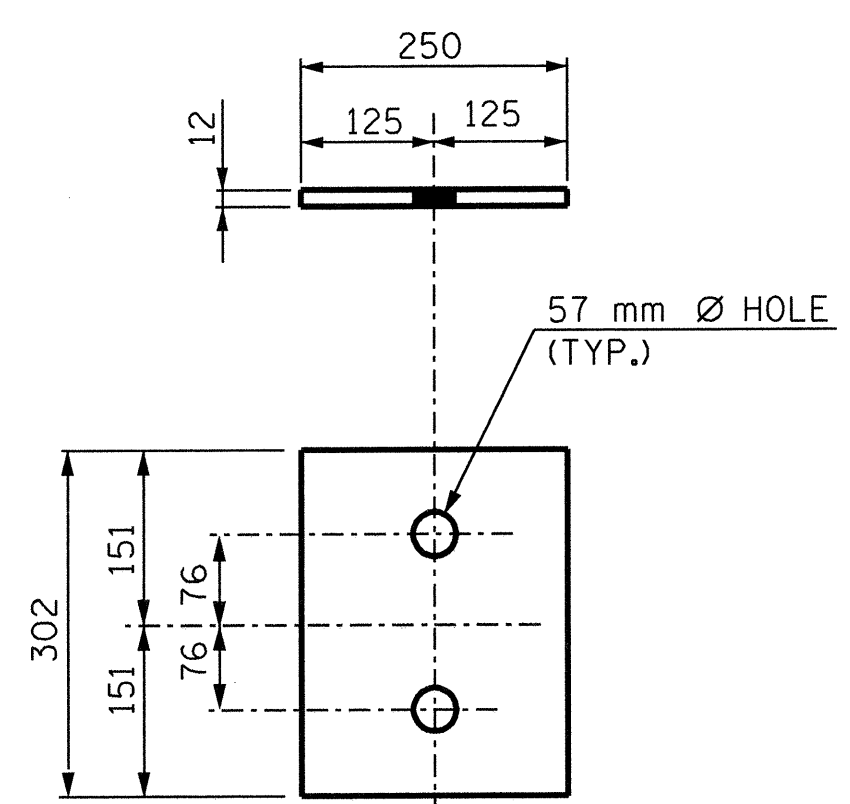


PLATE (P2)
END BENT 2
(4 REQUIRED)

PLATE "P" DETAILS

TO BE PLACED DURING END BENT CONSTRUCTION

NOTES:

- ENDS OF GIRDERS EMBEDDED IN THE INTEGRAL CAP SHALL BE PAINTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ONCE FORMS HAVE BEEN REMOVED FROM THE INTEGRAL CAP, THE STEEL GIRDER AND CONCRETE CAP INTERFACE SHALL BE SEALED BY CAULKING.
- SEAL MATERIAL FOR CAULKING SHALL BE NEUTRAL CURE AND A NON-SAG SILICONE BASED JOINT SEALER. REFER TO THE CURRENT NCDOT APPROVED PRODUCT LIST FOR ACCEPTABLE SILICONE JOINT CAULKING.

CONSTRUCTION SEQUENCE:

1. COMPLETE CONSTRUCTION OF BENT 1. DRIVE STEEL PILES FOR END BENTS AND COMPLETE POUR 1 OF THE INTEGRAL CAP. SET 50.8 mm Ø ANCHOR BOLTS IN WET CONCRETE.
2. ONCE CONCRETE HAS ATTAINED THE REQUIRED STRENGTH, INSTALL BOLT, WASHER AND SOLE PLATE ON ANCHOR BOLTS. ERECT GIRDERS AND ALIGN SOLE PLATES WITH HOLES IN FLANGES REGARDLESS OF TEMPERATURE AT TIME OF SETTING. ADJUST LOWER NUT TO SET GIRDER BEARING AT THE PROPER ELEVATION. INSTALL WASHER AND NUT ON TOP OF FLANGES. LEAVE TOP NUT LOOSE TO ALLOW FOR GIRDER END ROTATION AND TRANSLATION DURING DECK POURING SEQUENCE.
3. POUR BRIDGE DECK IN ACCORDANCE WITH THE POURING SEQUENCE OUTLINED ON THE "PLAN OF SPAN" SHEET, EXCEPT THE FINAL TWO POURS CONTAINING THE INTEGRAL CAPS. NOTE THAT WINGWALLS AND TOP PORTION OF INTEGRAL CAPS ARE PLACED WITH THE FINAL POURS OF THE BRIDGE DECK.
4. TIGHTEN ANCHOR BOLTS 1/4 TURN PAST FINGER TIGHT. COMPLETE FINAL TWO DECK POURS WHICH INCLUDE THE TOP PORTION OF THE INTEGRAL CAP AND THE WINGWALLS.
5. PLACE THE REINFORCED BRIDGE APPROACH FILL AND BACKFILL IN LIFTS UNTIL THE DESIRED SUBGRADE ELEVATION IS REACHED. CONSTRUCT SLEEPER SLABS.
6. POUR THE APPROACH SLABS STARTING AT THE END FURTHEST FROM THE BACKWALL AND PROGRESSING TOWARDS THE END BENT. POURS SHALL BE PERFORMED DURING THE MORNING HOURS TO MINIMIZE PLACING THE APPROACH SLAB IN TENSION FROM BRIDGE THERMAL MOVEMENTS.

PROJECT NO. R-2552AA
WAKE / JOHNSTON COUNTY
STATION: 27+61.028 -L- P.O.T.

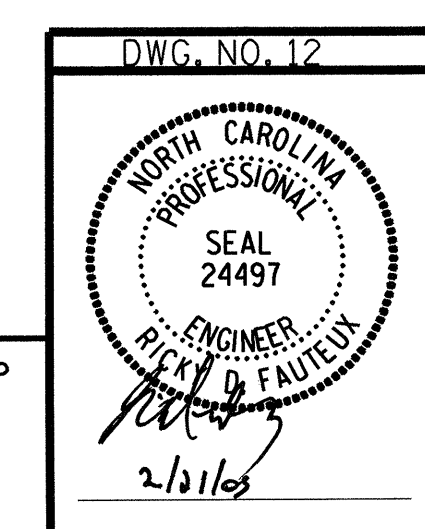
SHEET 5 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

**SUPERSTRUCTURE
INTEGRAL END BENT
GIRDER DETAILS**

JANUARY 2005

NO.		BY:		DATE:		NO.		BY:		DATE:		SHEET NO.	
1						3						5-239	
2						4						TOTAL SHEETS 429	



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DRAWN BY: B. PARRISH DATE: 01/05
CHECKED BY: R. D. FAUTEUX DATE: 01/05