

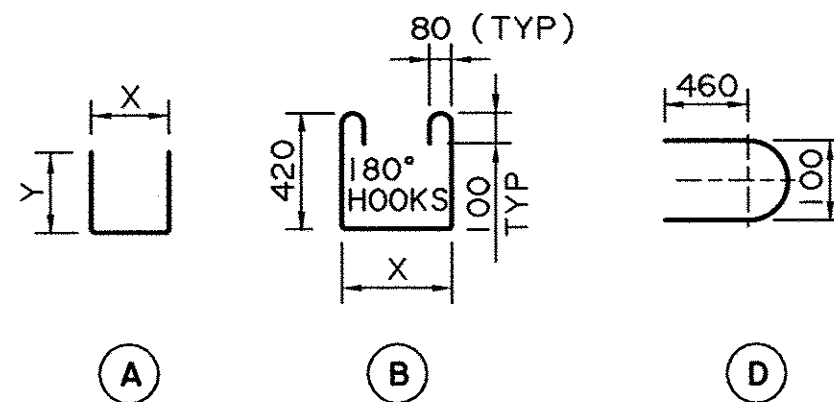
NOTE: FOR SKEWED END REINFORCING BAR DETAILS
SEE DWG S-1730-07

BAR LIST: FOR SQUARE GIRDER							
MARK	SIZE	No.	TYPE	X	Y	LENGTH	MASS
G1001	10	52	A	1 125	300	1 725	70
G1002	10	8	B	280		1 380	9
G1003	10	53	B	1 125		2 225	93
G1004	10	49	B	410		1 510	58
G1005	10	2	A	1 000	300	1 600	3
G1006	10	12	D			1 075	10
G1007	10	5	STR			11 900	47
G1008	10	2	STR			11 800	19
G1028	10	6	STR			1 100	5
G2501	25	4	A	11 850	350	12 550	197

TOTAL PLAIN kg: 511

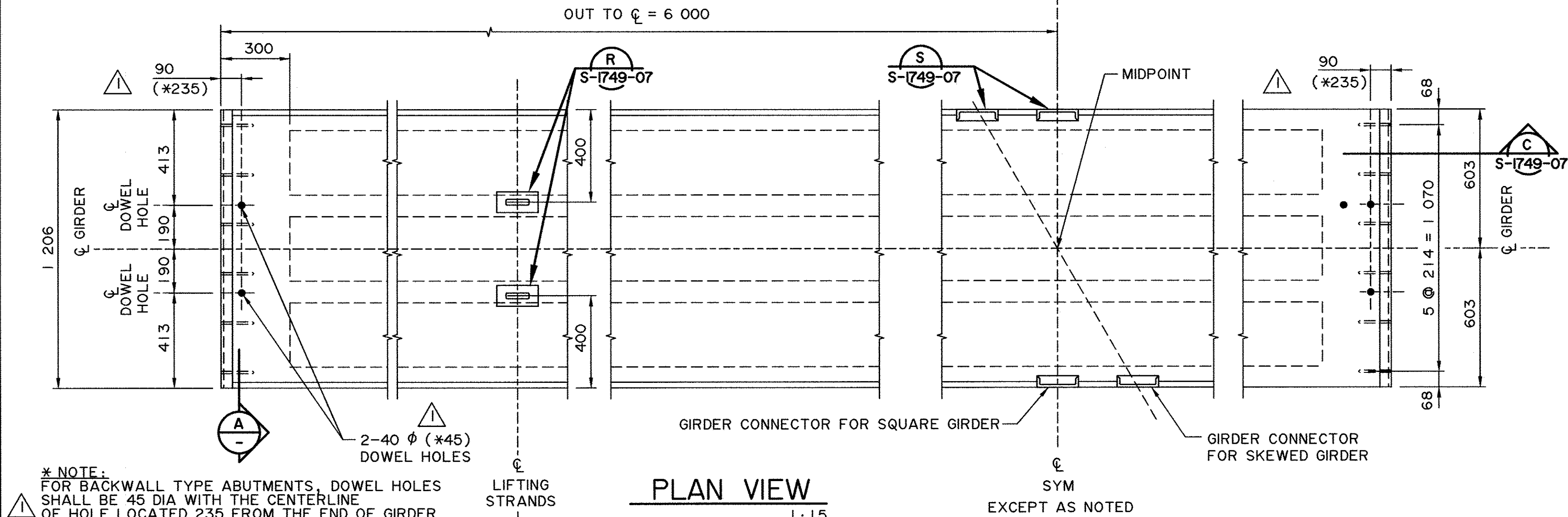
BAR TYPES

(ALL BAR DIMENSIONS ARE OUT TO OUT)



GENERAL NOTES

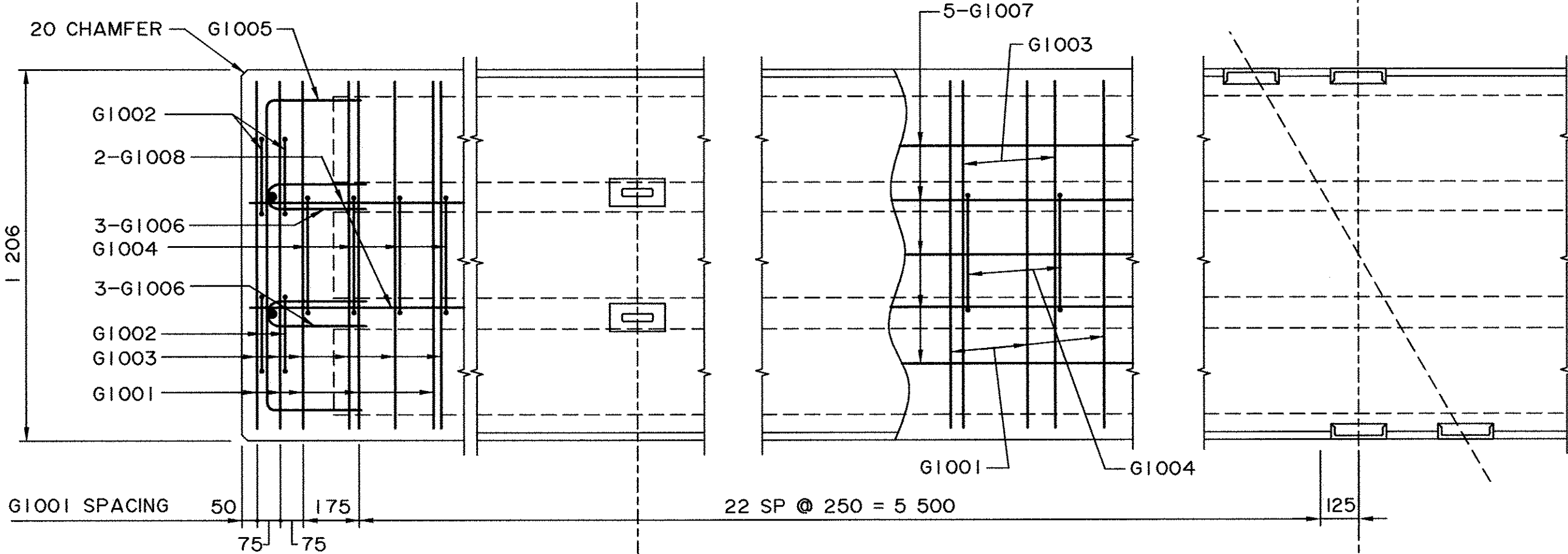
- FOR ADDITIONAL NOTES, REFER TO DWG S-1749-07.
- 20-15 ϕ 7 WIRE STRANDS REQUIRED PER GIRDER.
- STRANDS MARKED $\odot$ ARE TO BE DEBONDED FOR 1400 mm FROM THE GIRDER ENDS.
- FORCE IN PRESTRESSING STEEL:
INITIAL TENSION BEFORE RELEASE = 195 kN/STRAND
DESIGN LOAD AFTER LOSSES = 141 kN/STRAND
- ALLOWABLE TENSION IN BOTTOM FIBRE AT MIDSPAN = 2.13 MPa
- CALCULATED MASS OF ONE GIRDER = 13.08 TONNES



PLAN VIEW

1:15

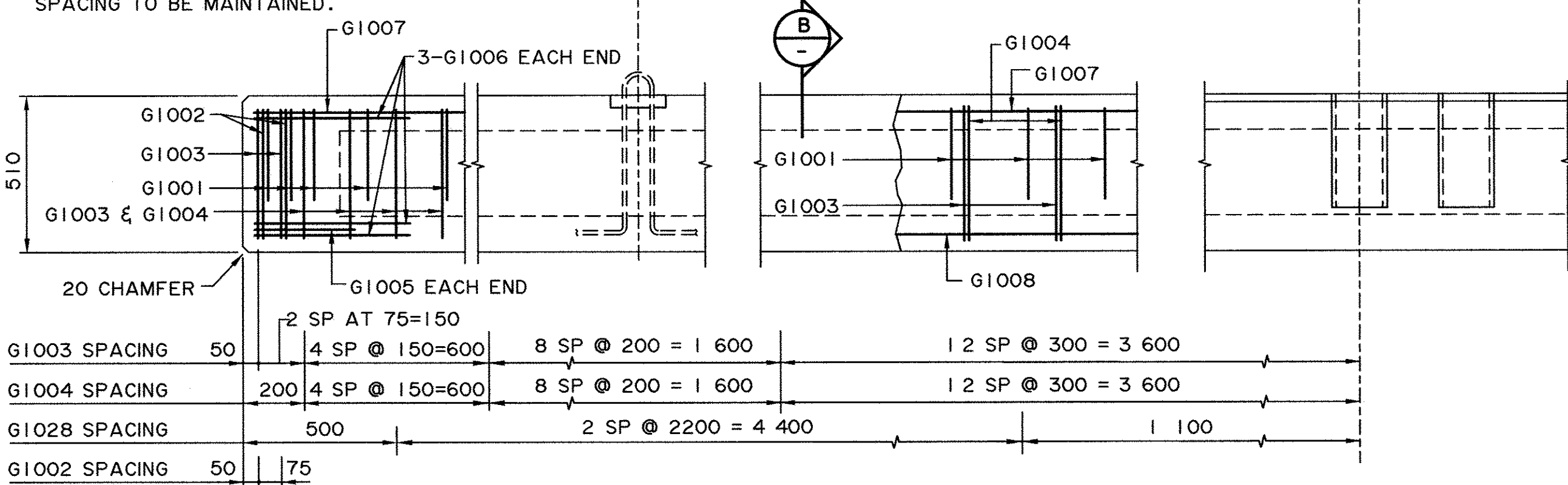
* NOTE:
FOR BACKWALL TYPE ABUTMENTS, DOWEL HOLES
SHALL BE 45 DIA WITH THE CENTERLINE
OF HOLE LOCATED 235 FROM THE END OF GIRDER
REFER TO STANDARD DRAWING S-1756 FOR
ADDITIONAL DETAILS.



REINFORCEMENT PLAN

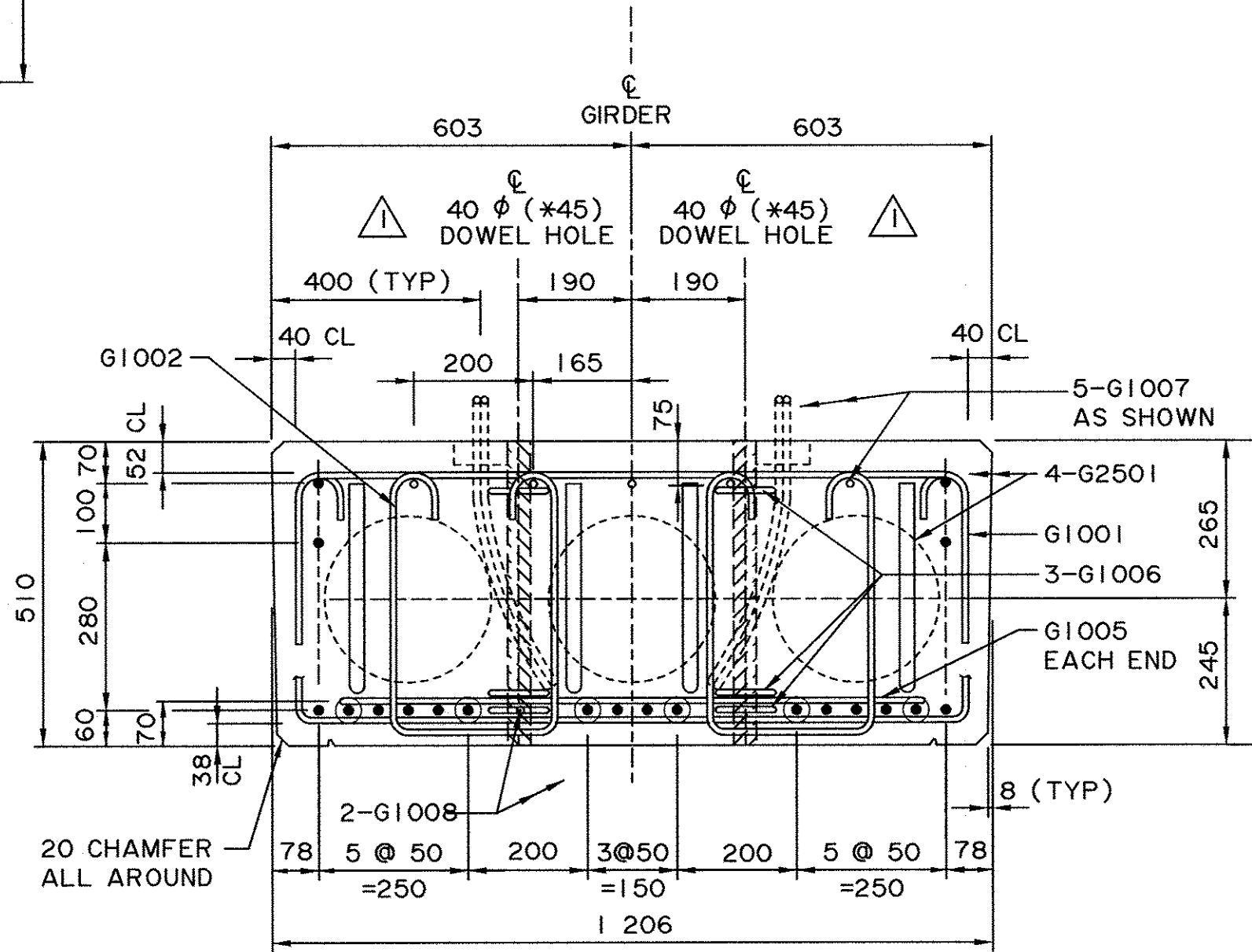
1:15

NOTE:
BEND REINFORCING BAR WHERE NECESSARY TO
ACCOMMODATE CHANNEL CONNECTORS. STIRRUP
SPACING TO BE MAINTAINED.



ELEVATION

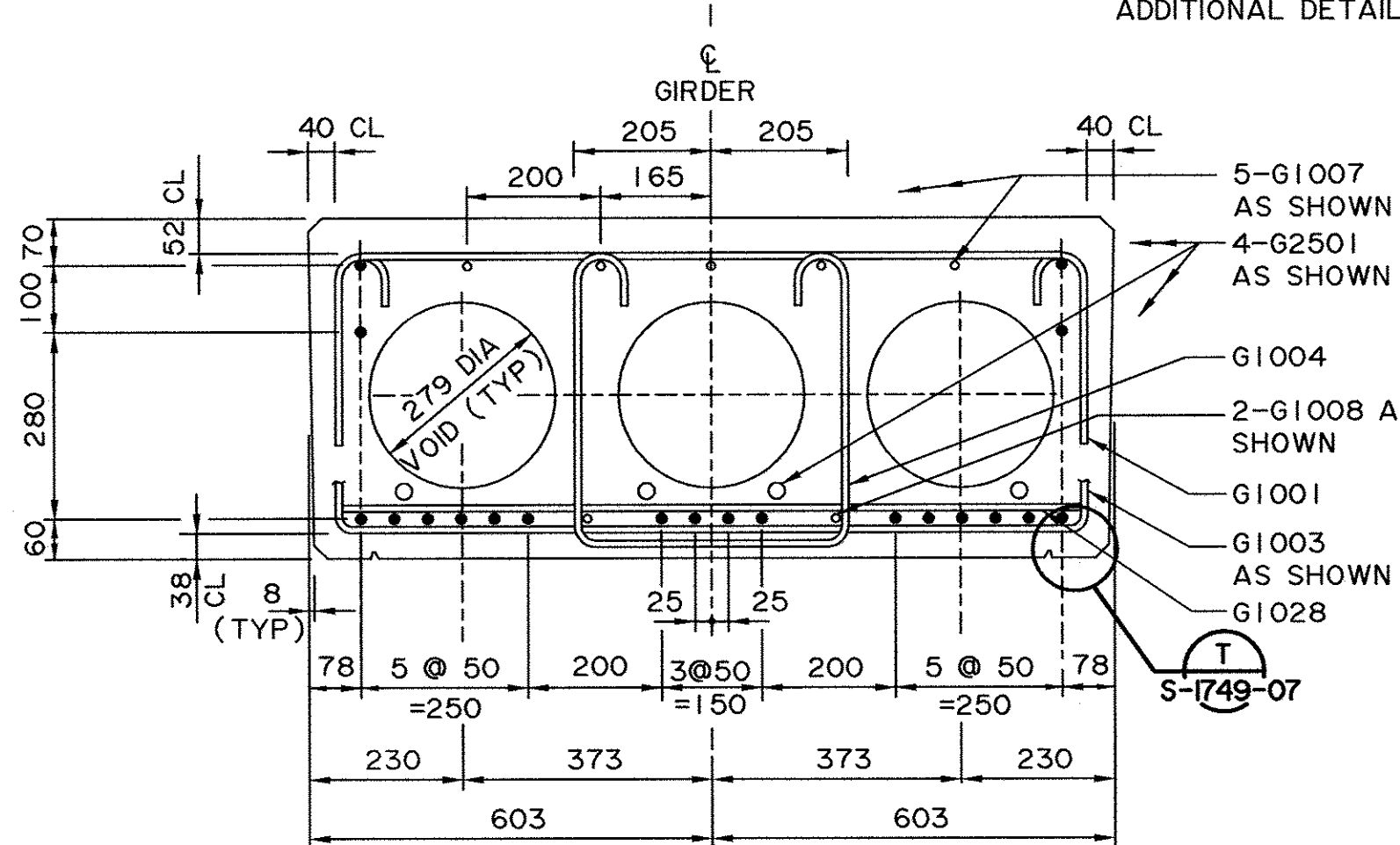
1:15



SECTION

1:10

* NOTE:
FOR BACKWALL TYPE ABUTMENTS, DOWEL HOLES
SHALL BE 45 DIA WITH THE CENTERLINE
OF HOLE LOCATED 235 FROM THE END OF GIRDER
REFER TO STANDARD DRAWING S-1756 FOR
ADDITIONAL DETAILS.



SECTION

1:10

• WORK THESE DRAWINGS TOGETHER : S-1729-07, S-1730-07 AND S-1749-07

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BPTEC-DNW ENGINEERING LTD.
Signature: Scott Donald
Date: AUG 1, 2007
PERMIT NUMBER: P0132
The Association of Professional Engineers
Geologists and Geophysicists of Alberta

DESIGNER
ORIGINAL STAMPED AND SIGNED
BY: Stuart Smith
ON: AUG 1, 2007

CHECKER
ORIGINAL STAMPED AND SIGNED
BY: Scott Donald
ON: AUG 1, 2007

REV	DATE	REVISIONS	BY
1	2009-05-14	REVISED DOWEL HOLE SIZE AND LOCATION	CM

RECOMMENDED
DIRECTOR BRIDGE ENGINEERING
ORIGINAL SIGNED BY:
TOM LOO
APPROVED
EXECUTIVE DIRECTOR
TECHNICAL STANDARDS BRANCH
ORIGINAL SIGNED BY:
ALLAN KWAN
DATE: 2007-09-17

Alberta INFRASTRUCTURE AND TRANSPORTATION
PRESTRESSED CONCRETE
12 m TYPE SL-510
INTERIOR GIRDER
AI BAR CODE DATE SHEET DRAWING
2007-06-07 1 of 3 S-1729-07