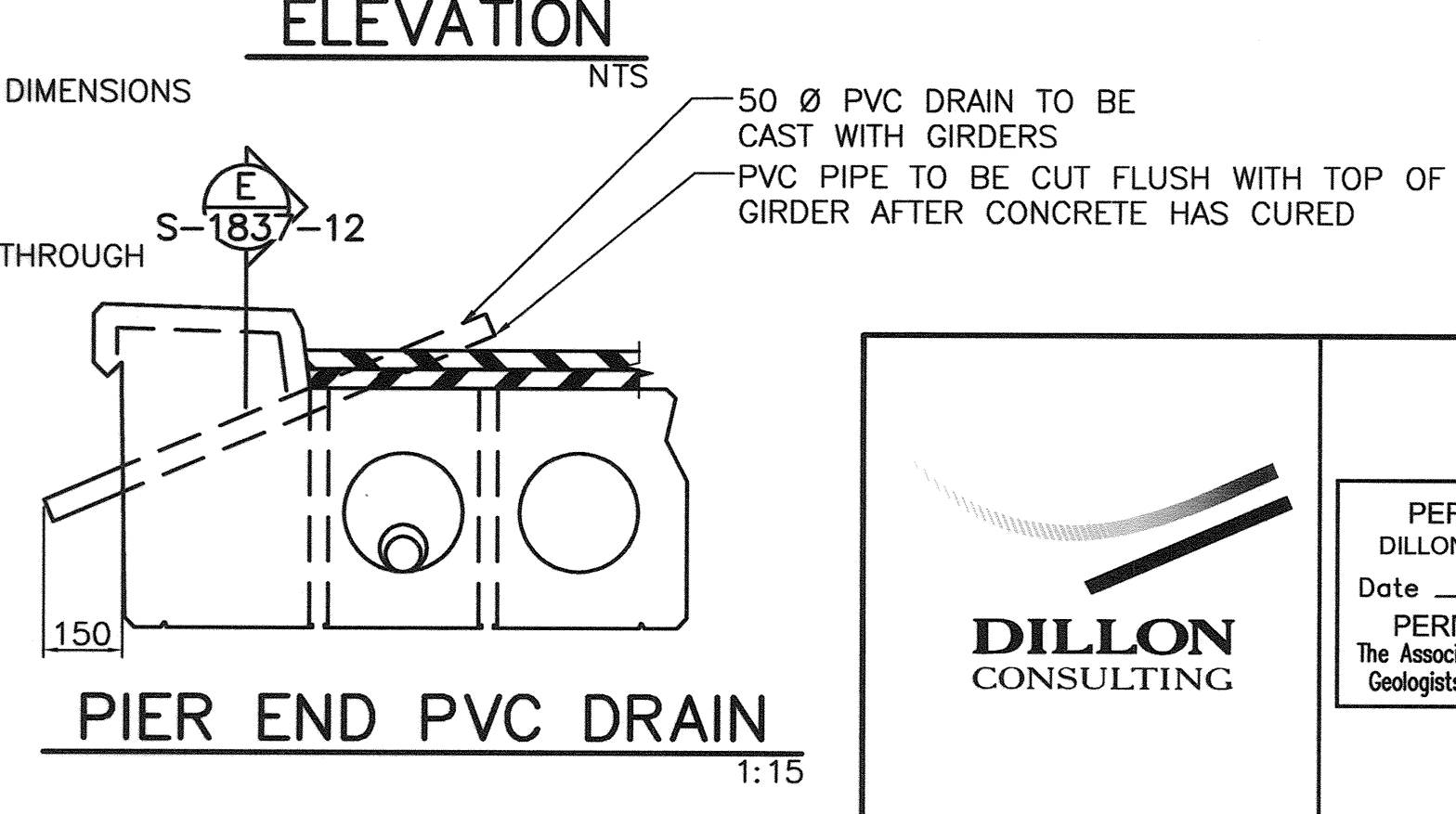
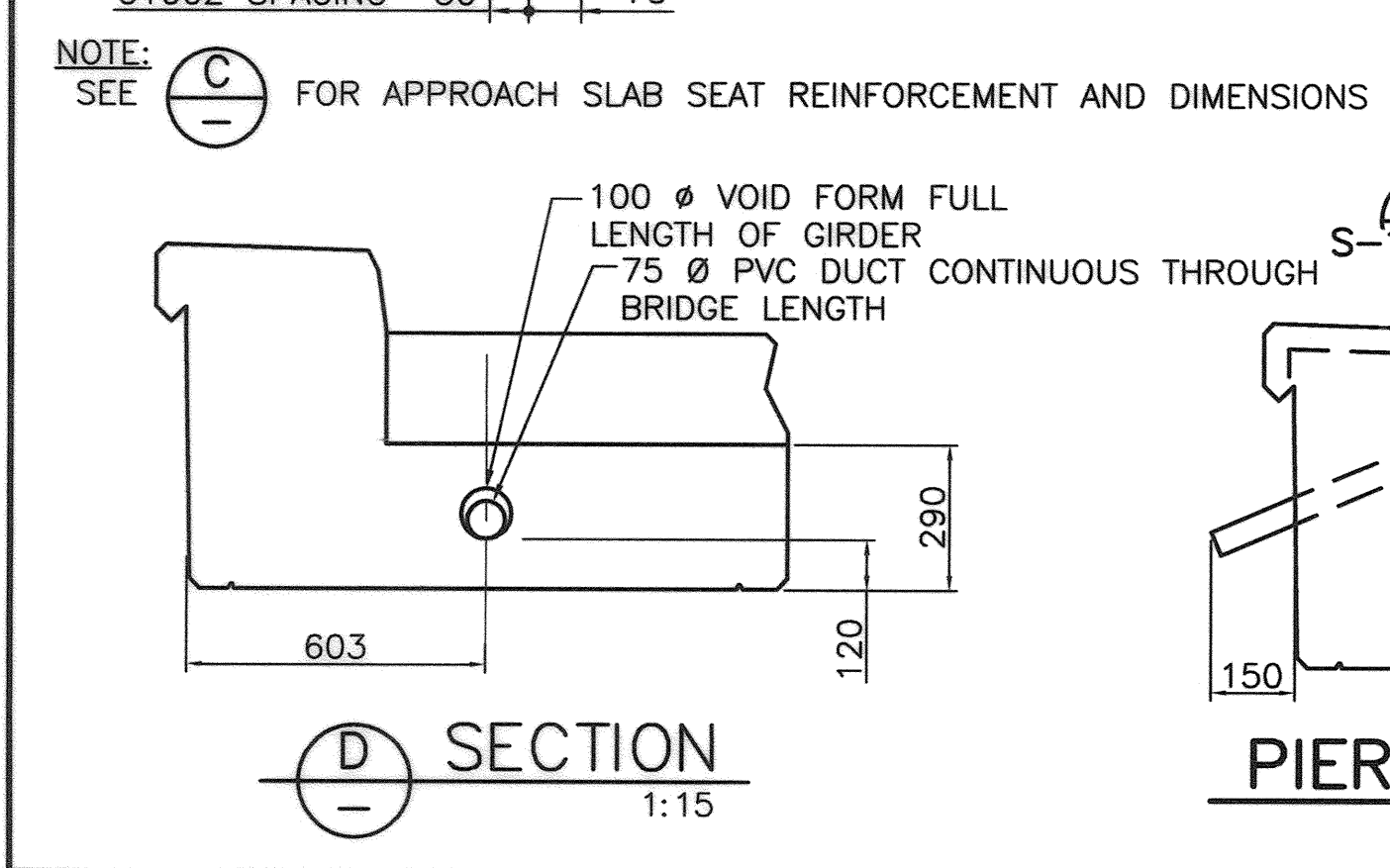
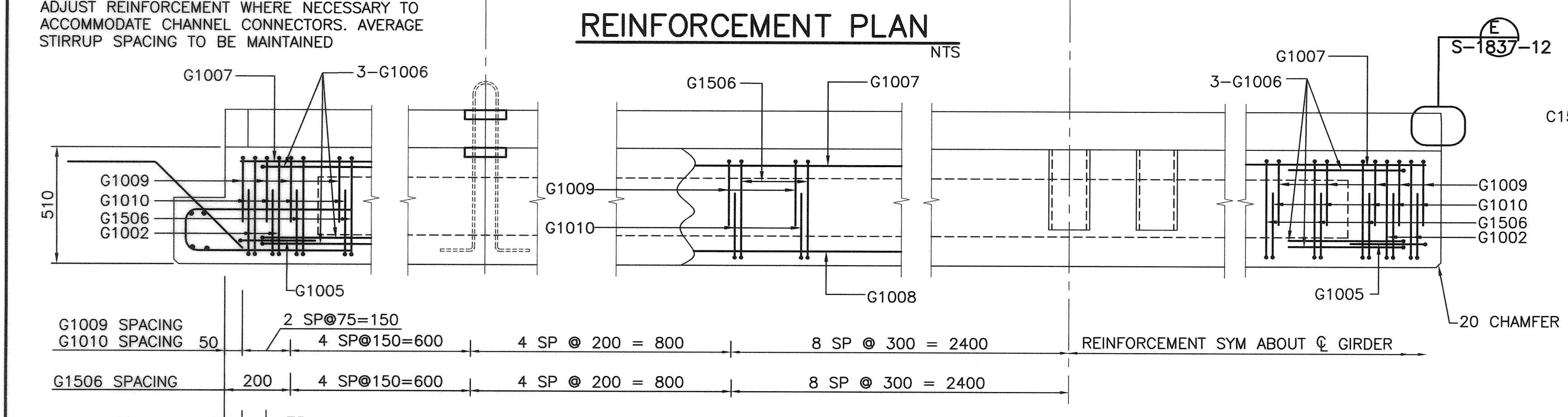
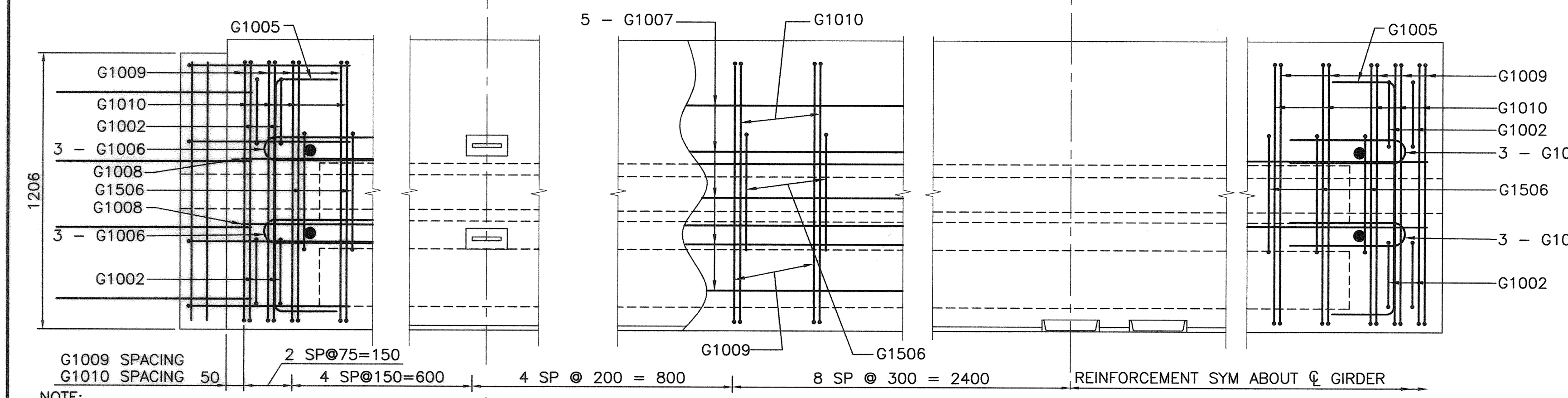
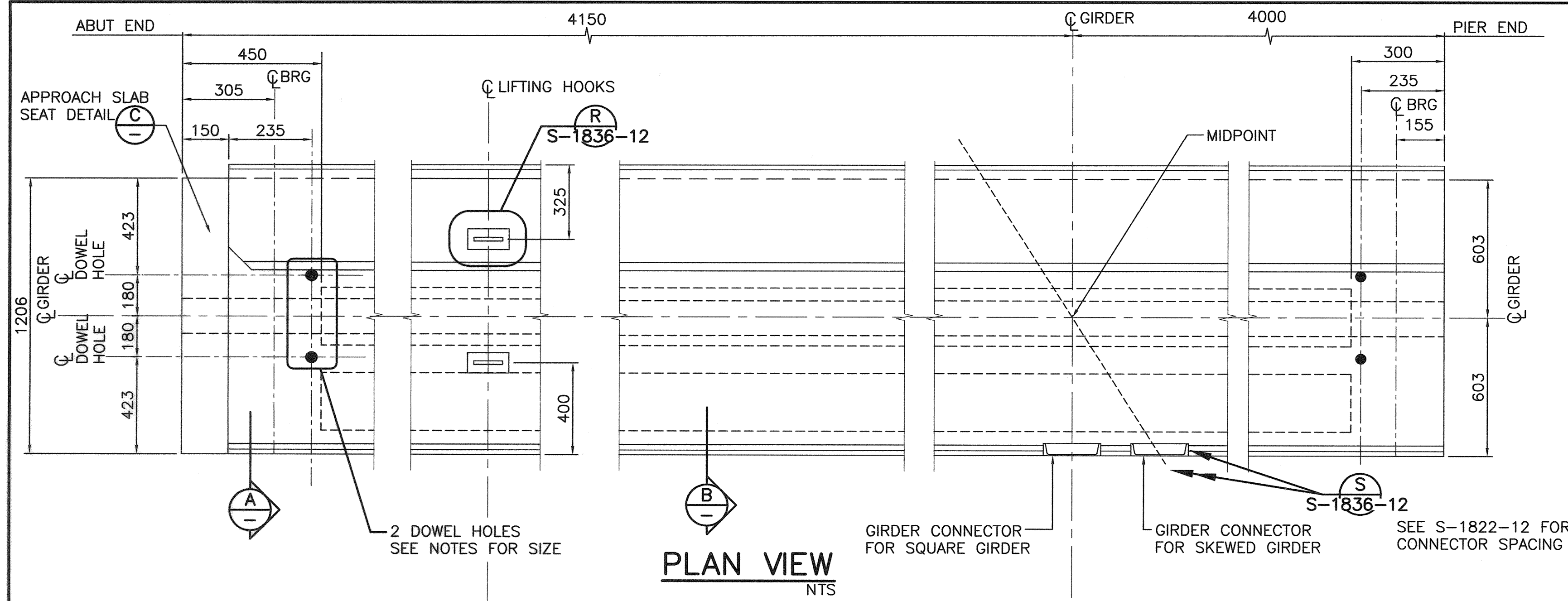
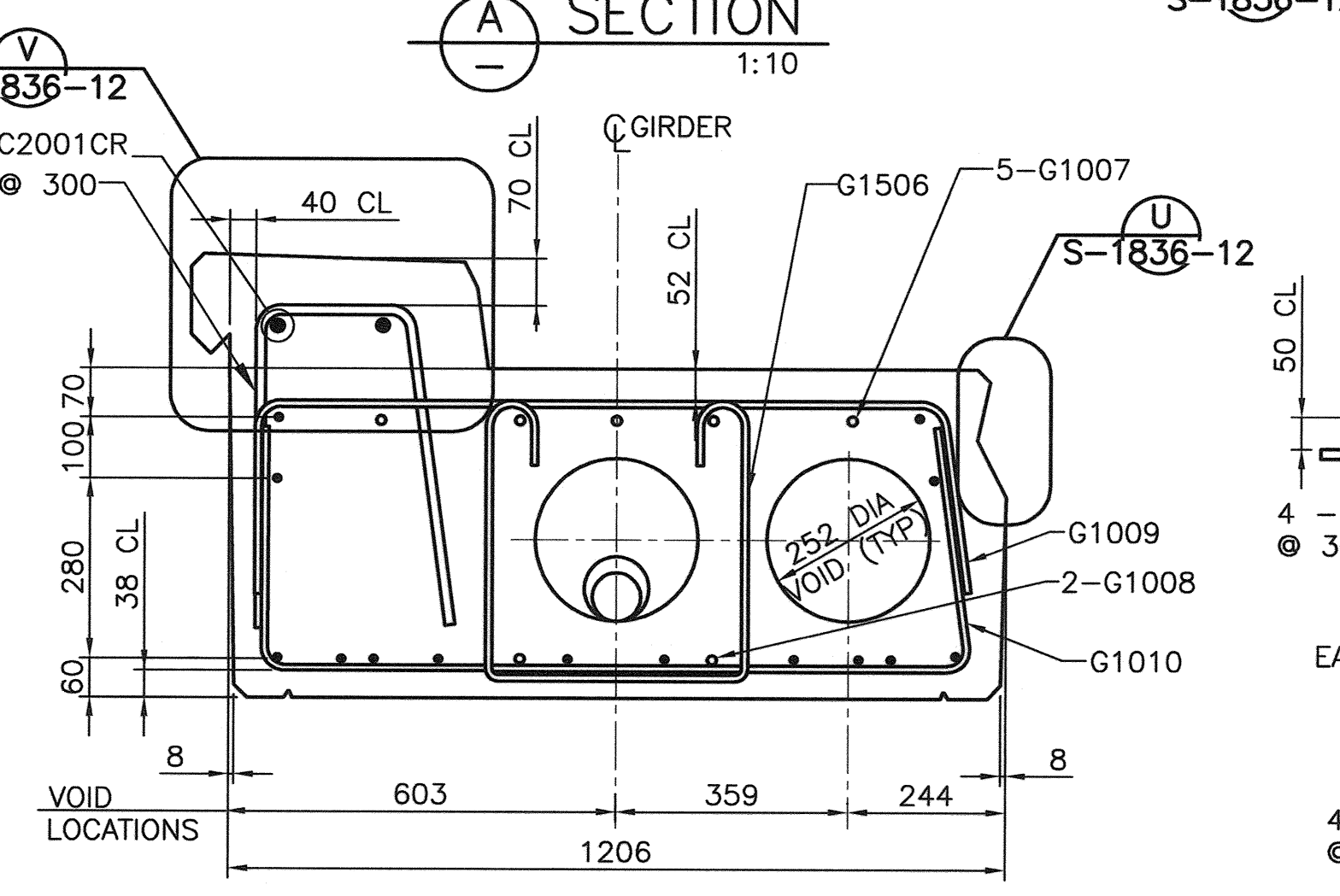
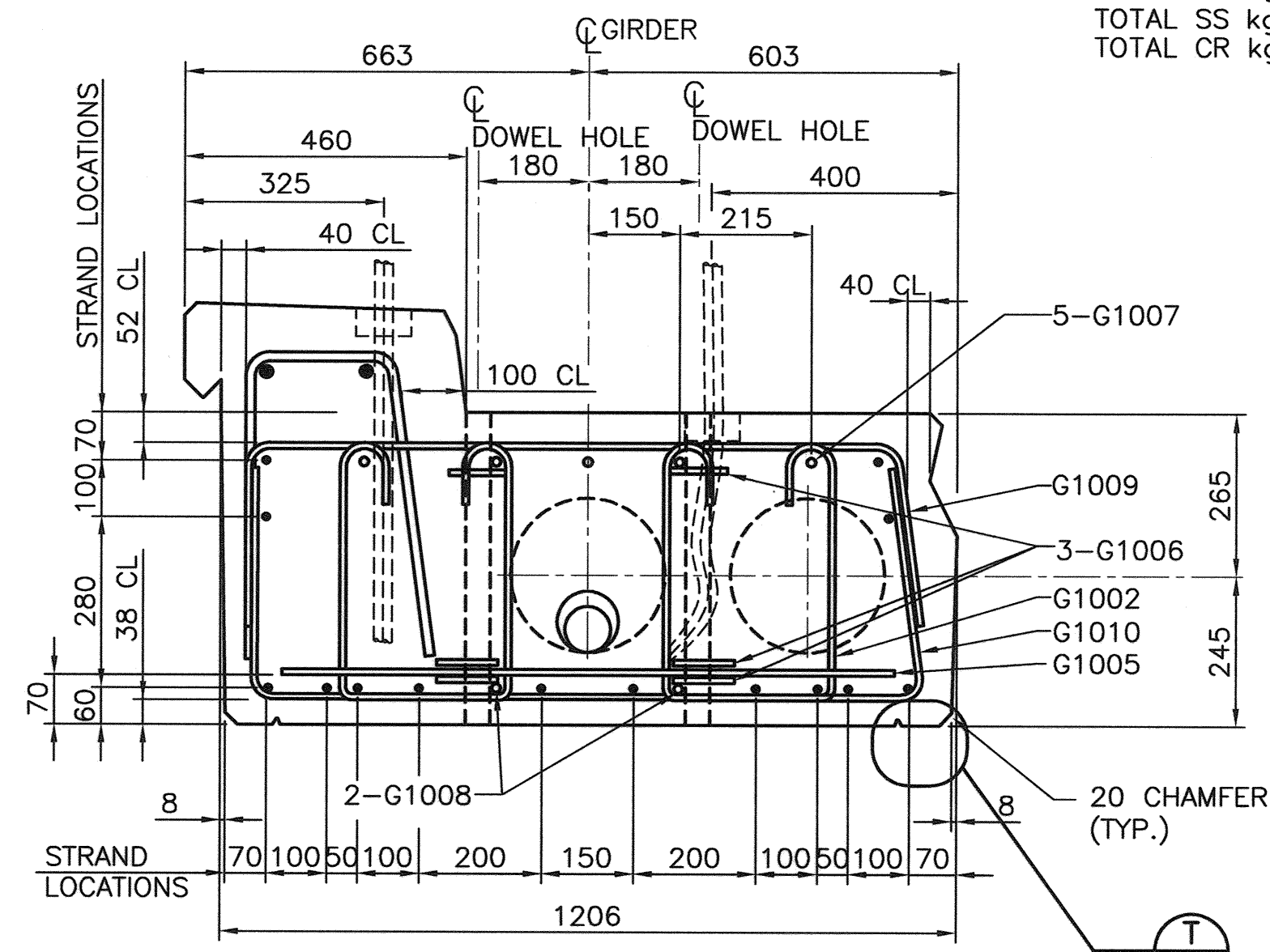
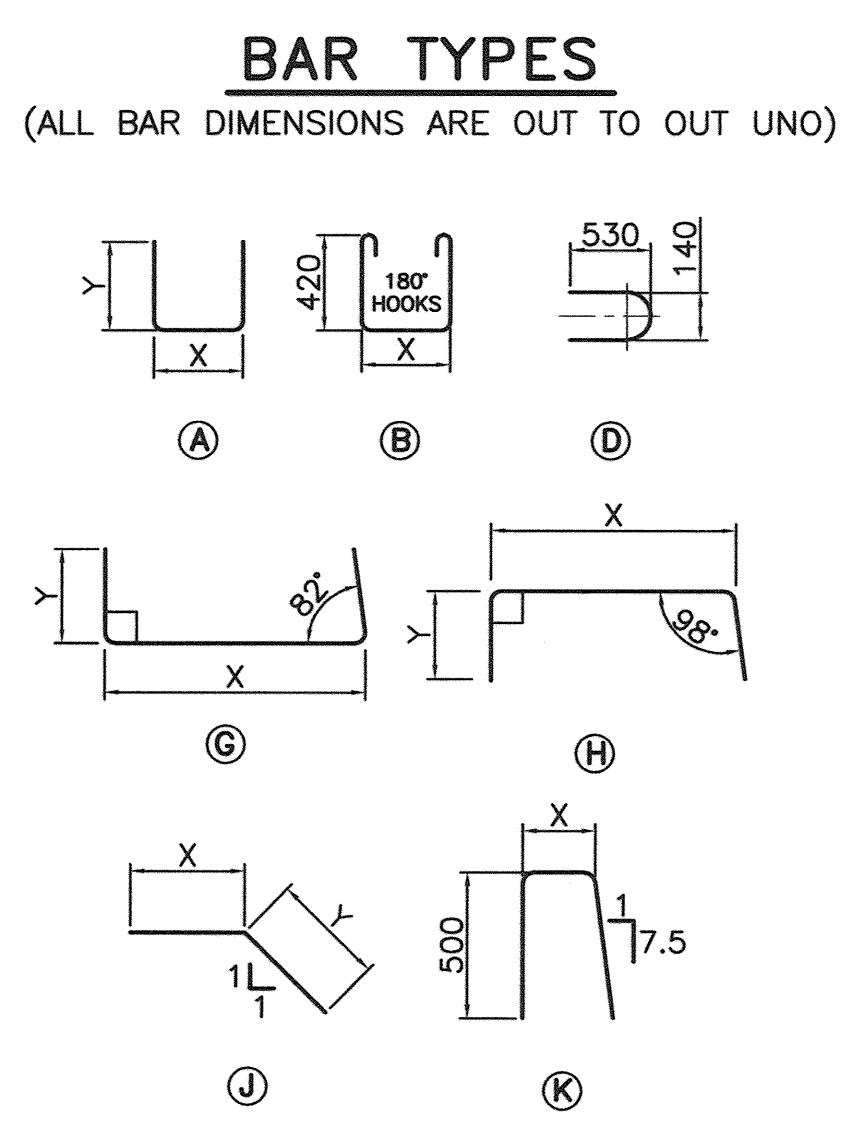




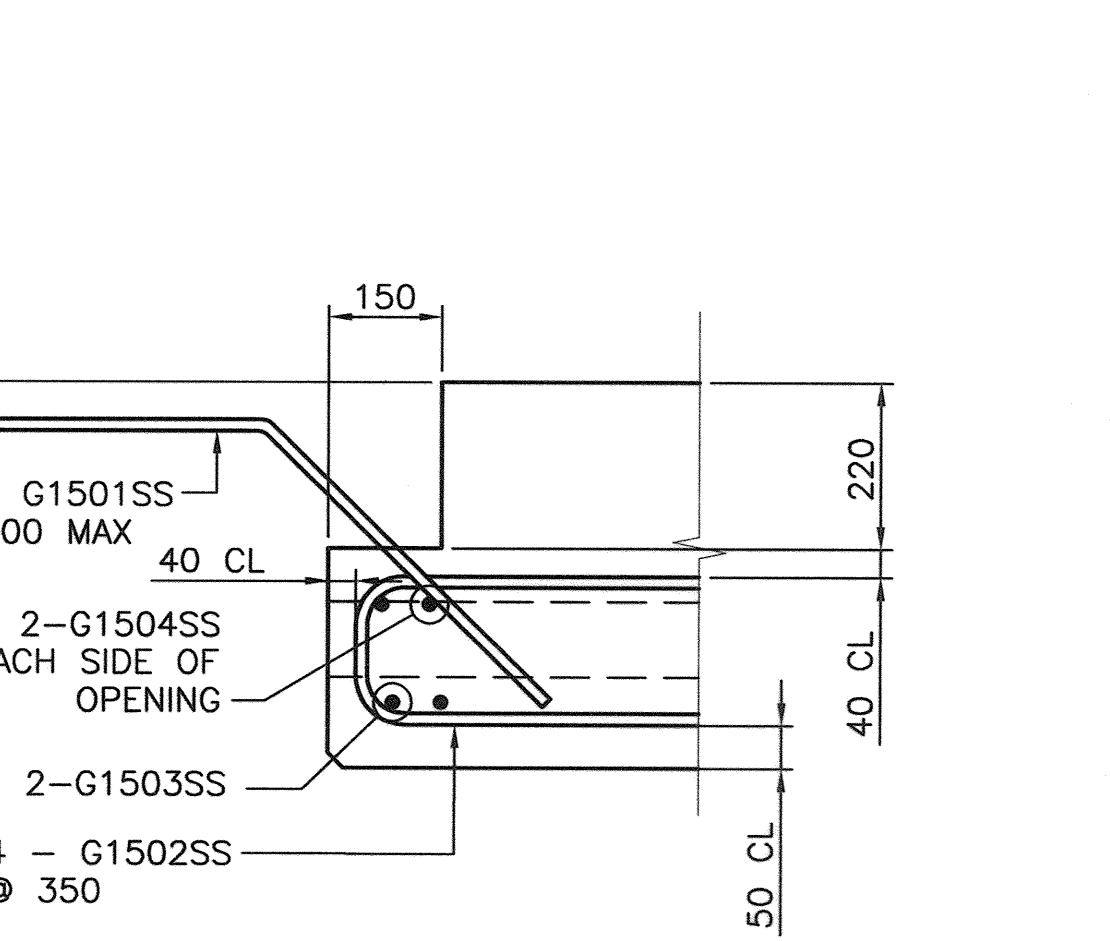
BAR LIST: FOR SQUARE GIRDER							
MARK	SIZE	No.	TYPE	X	Y	LENGTH	MASS
G1002	10	8	B	280		1350	8
G1005	10	2	A	1000	300	1550	3
G1006	10	12	D			1140	11
G1007	10	5	STR			7900	31
G1008	10	2	STR			7900	12
G1009	10	37**	H	1065	360	1740	51
G1010	10	37	G	1095	360	1770	51
G1501SS	15	4*	J	500	560	1060	7
G1502SS	15	4*	A	200	700	1515	10
G1503SS	15	2*	STR			1100	4
G1504SS	15	4*	STR			400	3
C1505CR	15	27	K	250		1250	53
G1506	15	33	B	410		1530	80
C2001CR	20	2	STR			7900	37

* AND ** SEE GENERAL NOTES

TOTAL BLACK kg: 247
TOTAL SS kg: 24
TOTAL CR kg: 90



- ### GENERAL NOTES
- FOR ADDITIONAL NOTES, REFER TO S-1836-12
 - 14 - 15Ø, 7 WIRE STRANDS REQUIRED PER GIRDER: 10 BOTTOM, 4 TOP
 - FORCE IN PRESTRESSING STEEL:
INITIAL TENSION BEFORE RELEASE = 193 kN/STRAND
DESIGN FORCE AFTER LOSSES = 160 kN/STRAND
 - NO TENSION IN BOTTOM FIBRE AT MIDSPAN
 - CALCULATED MASS OF ONE INTERIOR GIRDER = 11.82 TONNES
 - CURB SHALL BE CAST MONOLITHIC WITH THE GIRDER AS SHOWN
 - BAR LIST ABOVE ASSUMES A GIRDER WITH ONE PIER END AND ONE ABUTMENT END. FOR A GIRDER WITH TWO PIER ENDS, BARS NOTED BY A * MAY BE ELIMINATED. FOR GIRDERS WITH TWO ABUTMENT ENDS, BARS NOTED BY * SHALL BE DOUBLED IN QUANTITY
 - ** BAR QUANTITY PROVIDED DOES NOT INCLUDE ADDITIONAL BARS REQUIRED AT EACH BRIDGERAIL POST LOCATION. QUANTITY OF G1009 BARS TO BE INCREASED TO ACCOUNT FOR 2 ADDITIONAL BARS AT EACH BRIDGERAIL POST LOCATION, ONE EACH SIDE
 - DOWEL HOLES SHALL BE 40 Ø FOR SPILL THROUGH TYPE ABUTMENTS AND 45 Ø FOR BACK WALL TYPE ABUTMENTS



•WORK THESE DRAWINGS TOGETHER: S-1820-12, S-1821-12, S-1822-12, S-1823-12, S-1836-12, S-1837-12

PERMIT TO PRACTICE
DILLON CONSULTING LIMITED
Date 2012-01-04
PERMIT NUMBER: P2528
The Association of Professional Engineers,
Geologists and Geophysicists of Alberta

DESIGNER
PROFESSIONAL ENGINEER
ALBERTA
KEVIN G. WILLIAMS
DATE 2012-01-04

CHECKER
PROFESSIONAL ENGINEER
ALBERTA
JAMES A. SKELTON
DATE 2012-01-04

RECOMMENDED
DIRECTOR BRIDGE ENGINEERING
D. Williamson

APPROVED
EXECUTIVE DIRECTOR
TECHNICAL STANDARDS BRANCH
Mark Dal

DATE MAR. 5/12

Government of Alberta ■ Transportation

PRESTRESSED CONCRETE
8 m SLW-510
EXTERIOR GIRDER

AI BAR CODE	DATE 2012-01-04	SHEET 2 OF 6	DRAWING S-1821-12
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2011-12-13
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