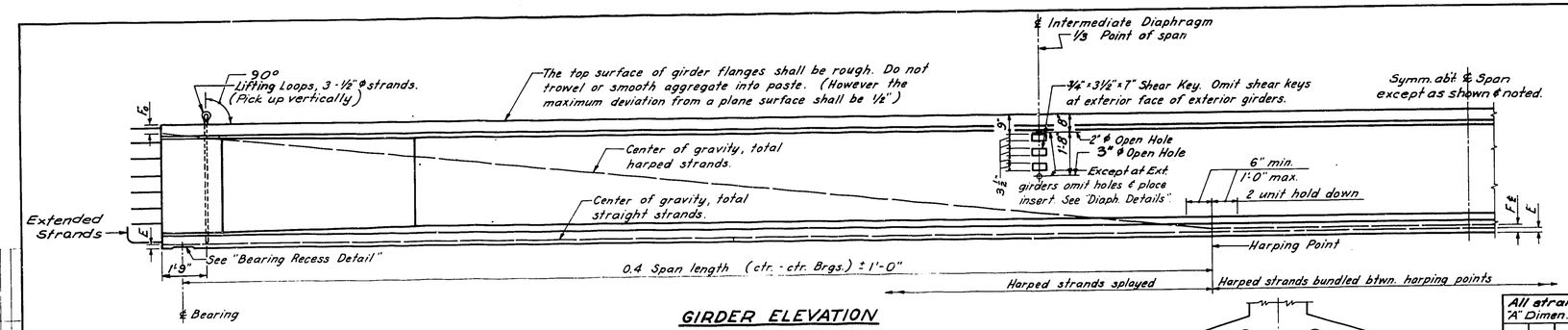
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
10	WASH.	I-82-2(78)37		86	89

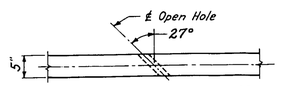
79W051

NOTE:
ALL DETAILS ON THIS SHEET ARE FOR PRETENSIONED STRAND DESIGN ONLY

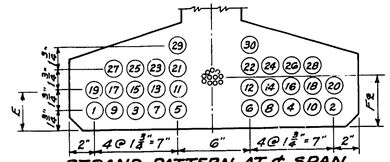


GIRDER ELEVATION

If the lifting loops extend thru the roadway slab they shall be cut off prior to pouring of roadway slab. All lifting strands are of same material and strength as prestressing strands. Wrap lifting loops so that each strand will carry its share of the total load. Extend lifting loops to within 3" clear of the bottom of the girder.



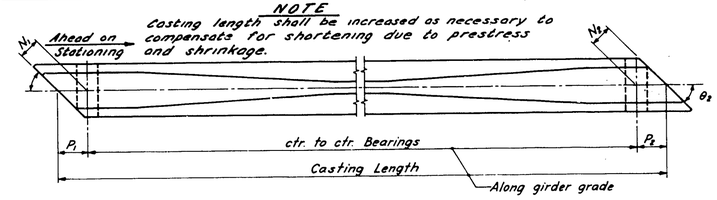
SECTION THRU WEB AT INT. DIAPHRAGMS



STRAND PATTERN AT ℄ SPAN

Strand location sequence shall be as shown (1), (2), etc.

NOTE
Casting length shall be increased as necessary to compensate for shortening due to prestress and shrinkage.



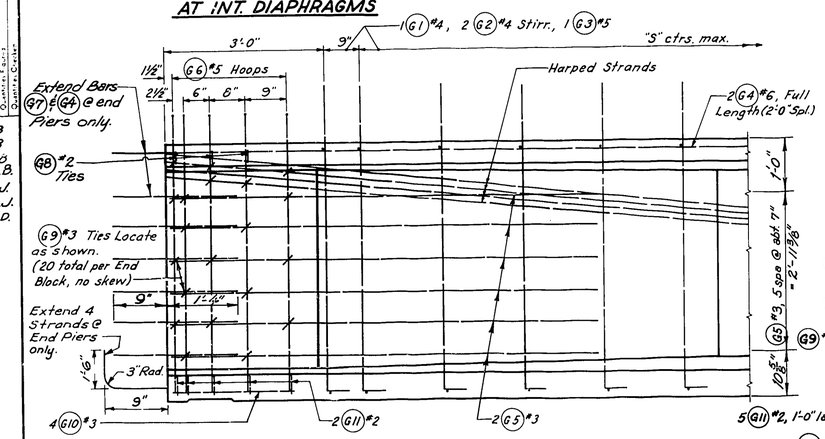
GIRDER SCHEDULE

All strands shall be ½"ø 270K.
"A" Dimen. @ ℄ Bearings = 10¼" *

Concrete: Min. Comp Strength @ 28 days, f'c = 7000 psi
Min. Comp Strength @ Release, f'ci = 6000 psi

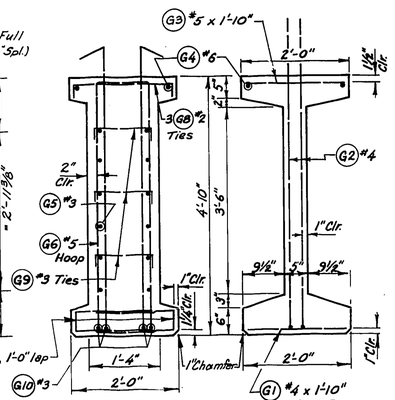
SPAN	GIRDER	DIMENSIONS θ1	θ2	N1	N2	P1	P2	ctr. to ctr. Bearings	Casting Length	Maximum Stirrup Spacing S	BUNDLED HARPED & STRAIGHT PRETENSIONED: HARPED No. of Strands	HARPED Jacking Force (Kips)	STRAIGHT No. of Strands	STRAIGHT Jacking Force (Kips)	Total Number of Strands	Location of C.G. Steel Area (In.) E	F℄	Fo	Diim. C (In.)
All		63°	63°	1'-3"	1'-3"	1'-4¾"	1'-4¾"	96'-9⅜"	99'-6⅞"	1'-0"	9	260	28	810	37	3⅜"	3"	5⅛"	1½"

* Based on girder camber of C_1 = 3½" at time of slab pour.



END BLOCK ELEVATION

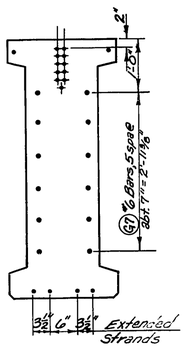
Cut all strands flush with the girder ends except as indicated.



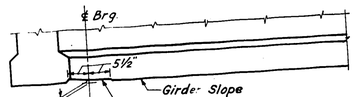
END BLOCK

GIRDER

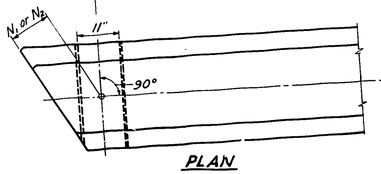
TYPICAL CROSS-SECTIONS



TYPICAL GIRDER END



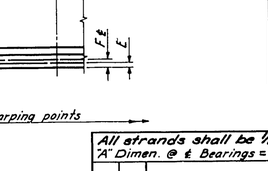
ELEVATION



PLAN

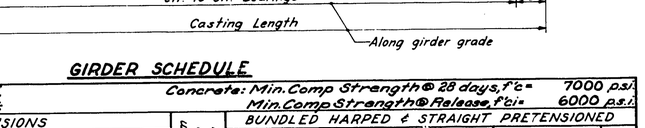
BEARING RECESS DETAIL

NOTE: Forms for bearing pad recesses shall be constructed and fastened in such a manner so as not to cause damage to the girders during the strand release operation.



STRAND PATTERN AT GIRDER END

(Harped strands only)
Strand location sequence shall be as shown, (1), (2), etc.



SCREED SETTING DIMENSIONS

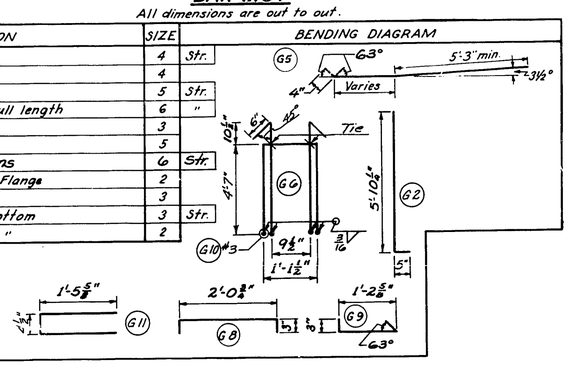
For Dimension (c) see "Girder Schedule"

SERIES 100 GIRDER

BAR LIST

All dimensions are out to out.

MARK	LOCATION	SIZE		BENDING DIAGRAM
G 1	Girder - Bot. Flange	4	Str.	
G 2	" Stirrups	4		
G 3	" Top Flange	5	Str.	
G 4	" Longit. - Top - full length	6	"	
G 5	End Block - Longit.	3		
G 6	" " Hoops	5		
G 7	End Block Extensions	6	Str.	
G 8	End Block - Ties - Top Flange	2		
G 9	" " "	3		
G 10	" " Longit. - Bottom	3	Str.	
G 11	" " Transv. "	2		



SR 82
MP 38.94 TO MP 41.52
UNION GAP TO SUNNYSIDE DAM
YAKIMA COUNTY
GANGLE ROAD OVERCROSSINGS

GIRDER DETAILS

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
OLYMPIA, WASHINGTON

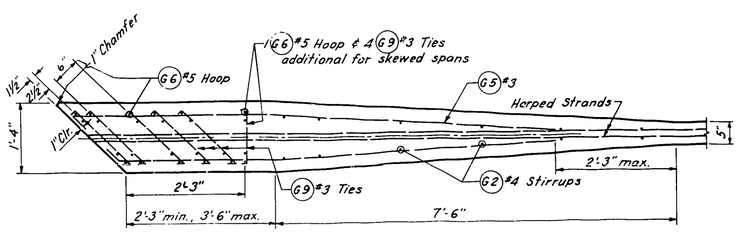
W. A. BULLEY — SECRETARY

BRIDGE ENGINEER — APPROVED May 4, 1979

CONTRACT NUMBER 1631 — SHEET 86 OF 89 SHEETS

Bridge Design Engineer	Ralph Nordick	3-77
Supervising Bridge Eng.	Lonald Vonwalde	3-77
Designed	R. E. Nelson	April 1976
Detailed	D. M. Duffy	April 1976
Checked	(LYM)	
Standard Engineer		
Bridge Engineer		
Quantity Engineer		
Quantity Checker		

1-16-68
5-9-68
7-2-68
7-71 D.S.B.
5-73 L.L.J.
10-74 L.L.J.
5-75 R.L.D.



PLAN SECTION THRU END BLOCK

Extended strands & reinf. not shown.

SR 82-10B NO. 1538-SHEET 7 OF 10

SR 82/72

12/1/66