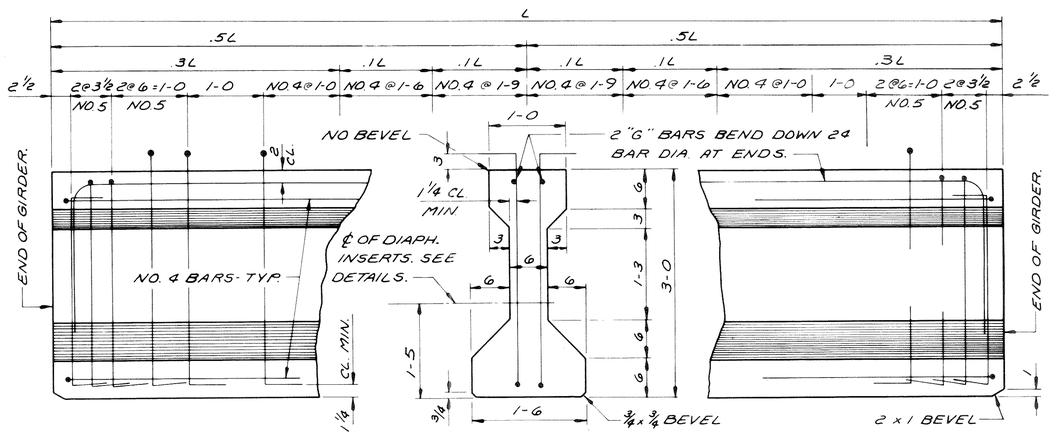
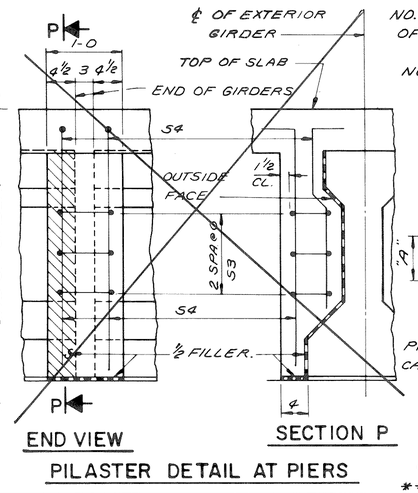
STATE PROJECT NUMBER	SHEET NO.
9411-01-71	



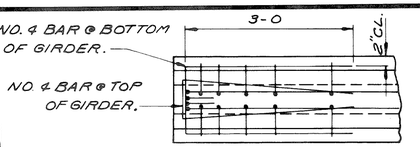
36" GIRDER - SIDE VIEW & TYPICAL SECTION IN SPAN



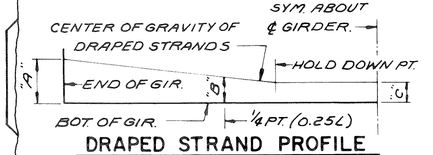
END VIEW

SECTION P

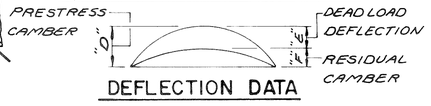
PILASTER DETAIL AT PIERS



TOP VIEW OF GIRDER ENDS



DRAPED STRAND PROFILE



DEFLECTION DATA

* MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

** TOTAL INITIAL PRESTRESS FORCE IN KIPS.

NOTES

TOP OF GIRDERS TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY FOR BONDING TO SLAB.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRS.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

PRESTRESSING STRANDS SHALL BE ½" ϕ - 7 WIRE STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 psi. AND SHALL BE FLUSH WITH THE ENDS OF THE GIRDER.

INSERTS SHALL BE PLACED ON 4" CENTERS SYMMETRICALLY ABOUT THE ℄ OF DIAPHRAGMS IN SPANS

ALL STIRRUPS SHALL BE IN PAIRS AND THE SPACING SHOWN IN "SIDE VIEW" IS MAXIMUM. THE LOCATION SHALL BE SHOWN IN THE SHOP DRAWINGS.

BEND EACH END OF NO. 4 AND NO. 5 STIRRUPS 6½". AND NO. 6 STIRRUPS 6½".

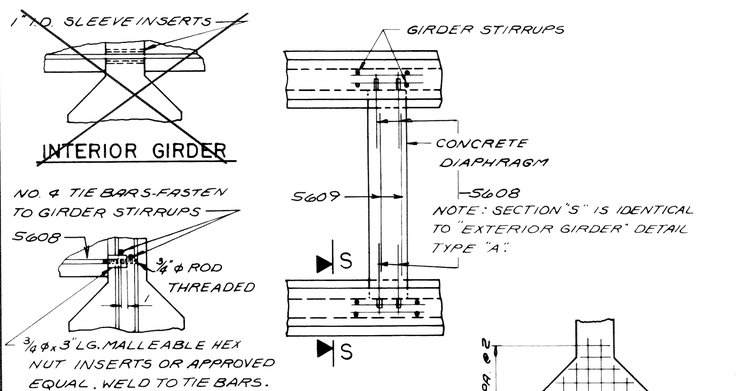
ENDS OF STRANDS SHALL BE PAINTED WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (THIS APPLIES ONLY TO THOSE ENDS OF GIRDERS THAT ARE FINALLY EXPOSED.)

BARS "G" MAY BE SPLICED AT THE 1/3 POINTS OF GIRDER. USE LAP LENGTH SHOWN IN "GIRDER DATA".

DEFLECTION DATA IS THEORETICAL AND MAY VARY WITH CONCRETE STRENGTH, VARIABLE PRESTRESS CONDITIONS AND PRESTRESS LOSSES.

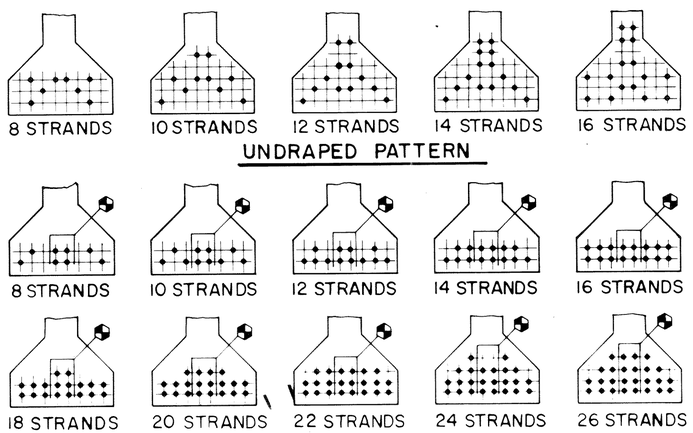
GIRDER DATA — USE DIAPH. INSERTS DETAIL TYPE "B" — USE NO 6 "G" BARS, WITH A 3'-7" LG LAP

SPAN	GIRDER LENGTH "L"	DEFLECTION DATA (IN.) "D"	"E"	"F"	TYPE OF STRANDS	DRAPED STRANDS: TOTAL NO. OF STRANDS	f'ci * (PSI)	** "P"	(INCHES) "A"	"B" MIN	"B" MAX	"C"	UNDRAPED STRANDS: TOTAL NO OF STRANDS	f'ci * (PSI)	** "P"
1	56'-9"	1 5/8"	¾"	⅞"	STRESS RELIEVED	22	5200	637	23	8¾	11¾	4			
					LOW RELAXATION	22	5200	637	23	8¾	11¾	4			
					STRESS RELIEVED LOW RELAXATION										

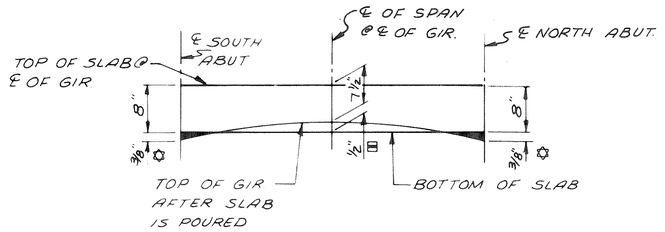


DIAPHRAGM INSERT DETAILS

TYP. STRAND GRID



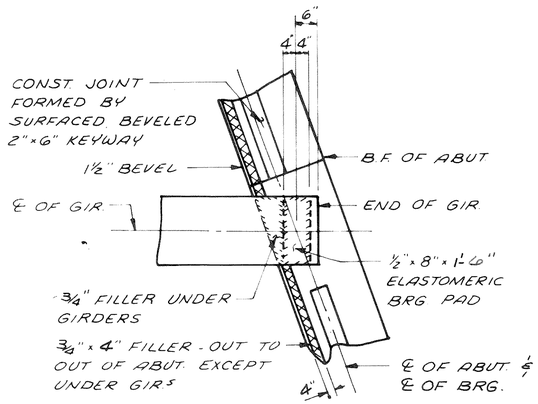
℄ DRAPED STRANDS



⊟ TO COMPENSATE FOR VARIATIONS IN PRESTRESS CAMBER AND OTHER MINOR CONSTRUCTION DISCREPANCIES THE EMBEDMENT OF THE GIRDER INTO THE SLAB MAY BE VARIED WITH A MAXIMUM OF 1½" ALLOWABLE EMBEDMENT AND THE SLAB HELD TO PLAN THICKNESS.

✡ IF VARIATIONS IN PRESTRESS CAMBER AND OTHER CONSTRUCTION DISCREPANCIES ARE OF SUCH A MAGNITUDE THAT THE MAXIMUM ALLOWABLE EMBEDMENT AS NOTED ABOVE WILL BE EXCEEDED THESE DIMS SHALL BE REVISED. THE 1½" EMBEDMENT AND THE PLAN SLAB THICKNESS SHALL BE HELD WHILE THE GRADE LINE WILL BE REVISED.

SLAB FORMING DIAGRAM



ELASTOMERIC BEARING PAD DETAILS

No.	Date	Revision	By

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-35-84

Const. Spec. 1981	Drawn By NJA	Plans Checked RIS

36" PRESTRESSED GIRDER DETAILS

SHEET 9 OF 11

X67860

Form E-B-12-69