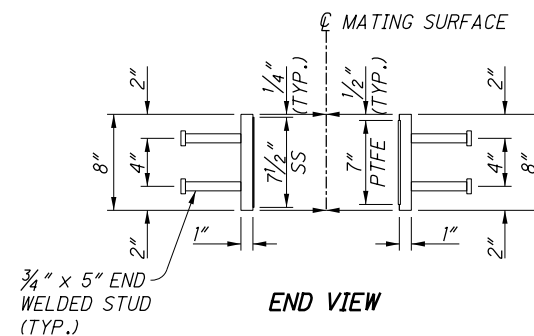
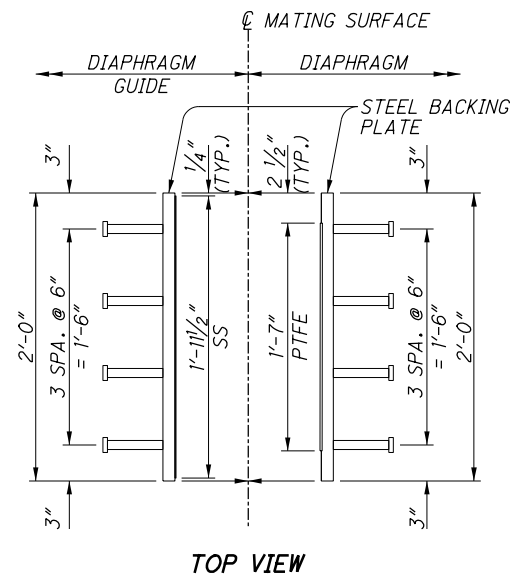
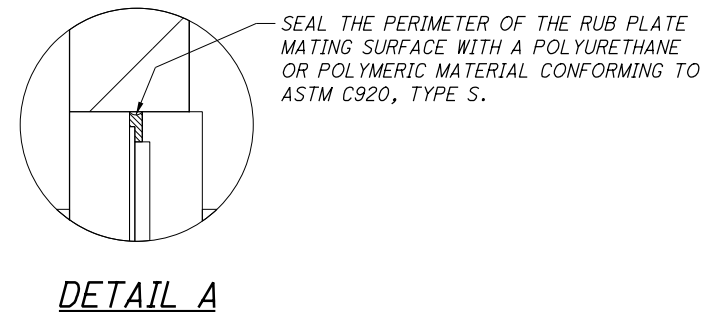


- * - FINISH THE SURFACE OF THE CONSTRUCTION JOINT WITH A SERRATED TROWEL. THE SERRATIONS SHALL BE 1/4" DEEP MINIMUM
- ** - PLACE TO AVOID INFERENCE WITH LONGITUDINAL REINFORCEMENT IN THE BEAM SEAT.

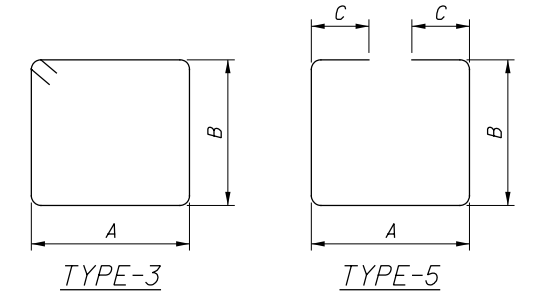


RUB PLATE DETAILS
SS = STAINLESS STEEL
PTFE = POLYTETRAFLUORETHYLENE



MARK	NUMBER TOTAL	TYPE	DIMENSIONS		
			A	B	C
DG601	5	3	(2'-8") / COS(phi)	3'-8 1/2"	
DG801	7	5	2'-8"	3'-7"	2'-4"

BENDING DIAGRAMS



GENERAL NOTES

DESCRIPTION: THIS DRAWING PROVIDES THE COMPLETE PLAN DETAILS FOR SEMI-INTEGRAL DIAPHRAGM GUIDES.

DESIGNER NOTES: EACH DIAPHRAGM GUIDE HAS BEEN DESIGNED TO A FACTORED CAPACITY NORMAL TO THE RUB PLATES OF 517 KIP AND PARALLEL TO THE RUB PLATES OF 103 KIP. FOR IMPOSED FACTORED LOADING EXCEEDING THESE CAPACITIES, ADDITIONAL GUIDES SHALL BE SPECIFIED.

THE PROJECT PLANS SHALL DETAIL THE LOCATION OF EACH DIAPHRAGM GUIDE. THE VOLUME OF CONCRETE AND REINFORCING STEEL FOR THE DIAPHRAGM GUIDES SHALL NOT BE INCLUDED IN THE PLAN QUANTITIES.

SKEW: FOR BRIDGES WITH SKEW ANGLE EQUAL TO 0°, RUB PLATES SHALL BE INSTALLED ON BOTH SIDES OF THE DIAPHRAGM GUIDE.

CONCRETE: PERFORM WORK ACCORDING TO C&MS 511. USE THE SAME CLASS OF CONCRETE USED IN THE ABUTMENT. F'C = 4.0 KSI.

REINFORCING STEEL: PROVIDE REINFORCEMENT ACCORDING TO C&MS 509. MIN. YIELD STRENGTH = 60 KSI

STAINLESS STEEL: 13 GAGE STAINLESS STEEL (MINIMUM), TYPE 304, ASTM A167 OR A240 WITH A SURFACE FINISH OF 8.0 μ-IN OR BETTER WELDED AROUND THE ENTIRE PERIMETER TO THE 1" BACKING PLATE PER 869.12.

PTFE: PROVIDE PTFE SHEET OR FABRIC PER SUPPLEMENTAL SPECIFICATION 869.10 AND ATTACH PER 869.11.

STEEL BACKING PLATE: PROVIDE ASTM A709 GRADE 50 STEEL BACKING PLATES ACCORDING TO C&MS 711.01.

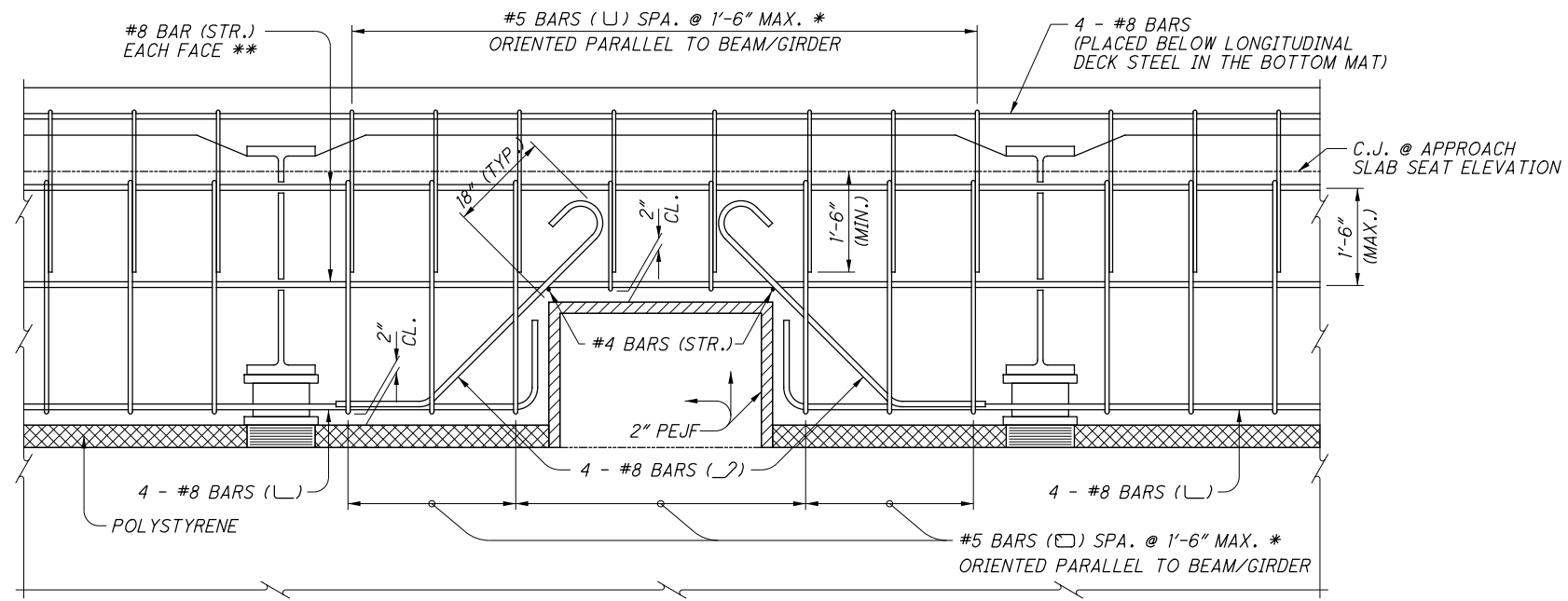
END WELDED STUDS: PROVIDE END WELDED STUDS IN ACCORDANCE WITH C&MS 513.22.

RUB PLATES: FABRICATE RUB PLATES ACCORDING TO SUPPLEMENTAL SPECIFICATION 869. SHIP AND PACKAGE FABRICATED UNITS ACCORDING TO 869.18. LEAVE WRAPPING, STRAPS OR RETAINING CLAMPS IN PLACE UNTIL BOTH SIDES OF THE UNIT ARE SECURED IN THEIR FINAL POSITION. ADDITIONAL REINFORCEMENT MAY BE INCLUDED IN THE GUIDE FOR THIS PURPOSE.

CORROSION PROTECTION: SHOP METALLIZE AND SEAL ALL STEEL SURFACES, EXCEPT PTFE-STAINLESS STEEL SLIDING SURFACES PER 869.13.

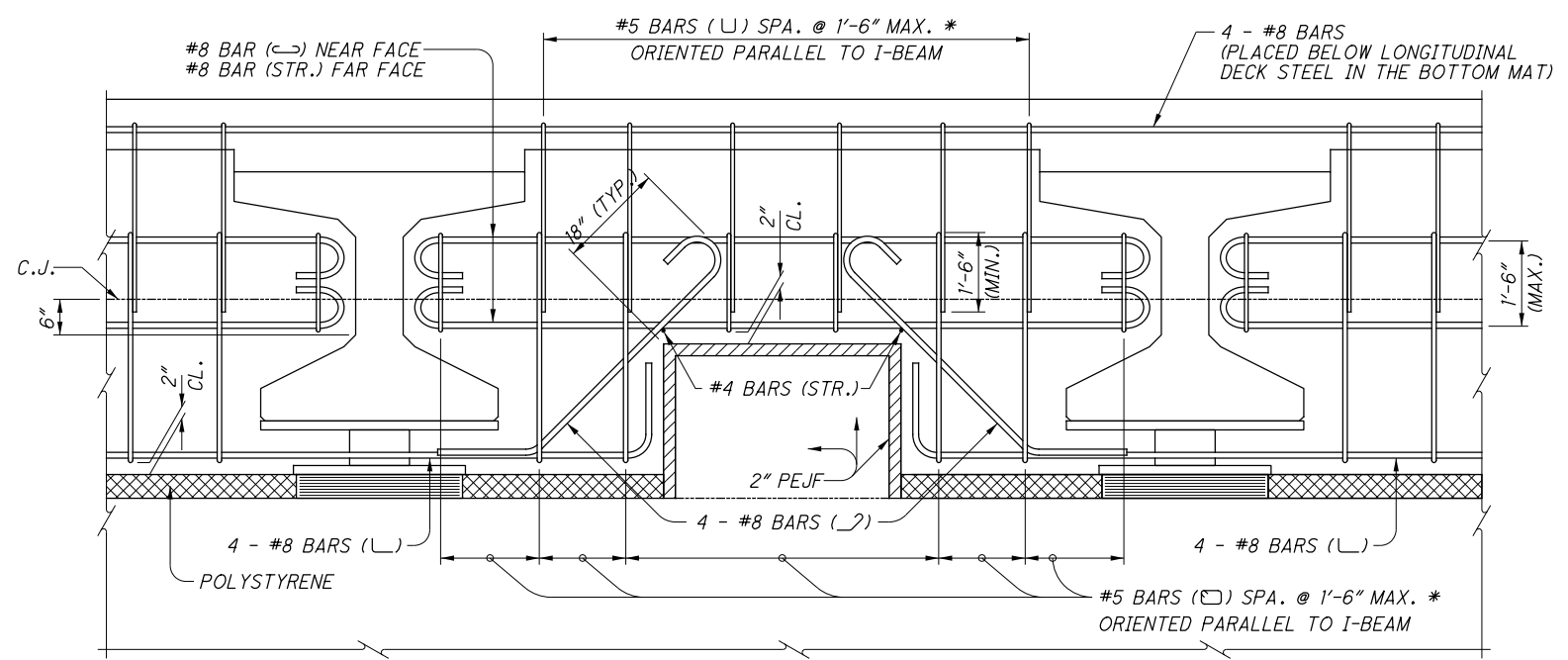
BASIS OF PAYMENT: THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES OF CAULK, PEJF, CONCRETE, REINFORCEMENT AND RUB PLATES AS FOLLOWS:

ITEM	UNIT	DESCRIPTION
511	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE



**DIAPHRAGM ELEVATION
(STEEL BEAM/GIRDER SUPERSTRUCTURE)**

NOTE - ALL #8 BARS ORIENTED PARALLEL TO C ABUTMENT



**DIAPHRAGM ELEVATION
(PRESTRESSED I-BEAM SUPERSTRUCTURE)**

NOTE - ALL #8 BARS ORIENTED PARALLEL TO C ABUTMENT

GENERAL NOTES

DESCRIPTION: THE PURPOSE OF THIS DRAWING IS TO PROVIDE DETAILING GUIDANCE FOR THE REINFORCEMENT OF THE SEMI-INTEGRAL DIAPHRAGM AROUND THE SICD-2-14 DIAPHRAGM GUIDE.

DESIGNER NOTES: THIS DRAWING SHALL NOT BE REFERENCED IN THE PROJECT PLANS.

THE REINFORCEMENT BAR SIZE AND SHAPE ARE PROVIDED IN THE CALLOUT. E.G. #5 BAR (U) IS A 5/8-INCH DIAMETER U-SHAPED BAR.

THE NUMBER OF BARS REQUIRED WILL DEPEND UPON THE BEAM SPACING AND DEPTH OF THE BEAM/GIRDER. ADDITIONAL ROWS OF #8 (STR.) AND/OR #8 (C) BARS SHALL BE PROVIDED TO MAINTAIN THE VERTICAL SPACING AT 1'-6" MAX. ALL STIRRUP BARS LOCATED IN THE LOWER PORTION OF THE DIAPHRAGM ARE #5 (C). THE VERTICAL DIMENSION OF THESE BARS DEPENDS ON THE LOCATION IN AND AROUND THE GUIDE AND/OR BEAM FLANGES.

LEGEND

- * - MEASURED PARALLEL TO C ABUTMENT
- ** - PLACE BARS ON THE NEAR FACE THRU HOLES IN THE WEB
- STR. - INDICATES STRAIGHT REINFORCEMENT
- C.J. - CONSTRUCTION JOINT