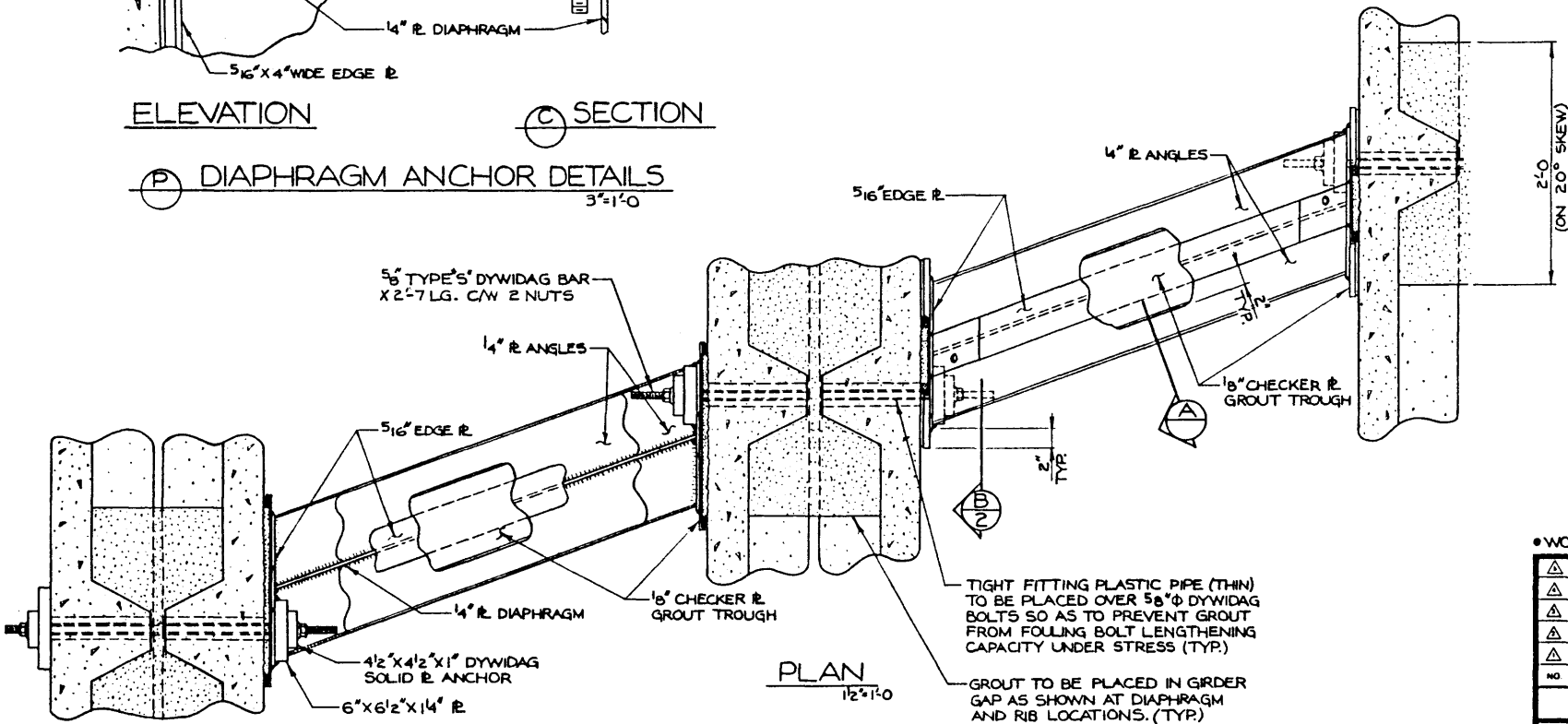


DIAPHRAGM ANCHOR DETAILS
3" x 1'-0"



MATERIALS

All Steel to meet CSA G40.21 Grade 44W or equivalent.

All diaphragm assemblies to be hot dip galvanized after fabrication.

All insert bolts to be galvanized or rust resistant

Galvanizing to meet either ASTM A123 or 153.

Dywidag bolts shall be type 5 of nominal dia. 5/8" by 3'-1" long.

Grout shall be "polygrout" No. 1 or approved equivalent.

- INSTALLATION PROCEDURE**
- Remove existing rib bolts at proposed new (steel) diaphragm locations.
 - Install concrete diaphragms between girders at "rib" locations keeping 1" dia. hole clear with 1" plastic pipe.
 - Roughen surfaces where called for by sandblasting while using a template shield or by other suitable means. Average roughness achieved should be 1/16" minimum.
 - Place diaphragms and bolt snug tight.
 - Pressure grout from each of the 2 nipples until grout appears at vent. Cap nipples.
 - When grout has reached approx. 5000 psi compression strength (24 hours for polygrout), stress Dywidag bars to 56 kips initial tension.
 - Tighten 3/4" # bolt nuts 1/2 turn from the snug tight position.

WORK THIS DRAWING IN CONJUNCTION WITH DWG. S-1187 EST. WEIGHT - 376 LBS/BAY (FOR 20° SKEW)

DESIGNED C.W. PETERSON		DRAWN BY D.K.O.		DATE 79 08 07		CHECKED BY		DATE		STREAM		LOCATION		HWY NO		SCALE SHOWN		FILE NO		SHEET 1 of 2		DWC NO S-1186	
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APPROVED

CHIEF BRIDGE ENGINEER

DATE

Alberta TRANSPORTATION BRIDGE BRANCH

STEEL DIAPHRAGM ATTACHMENT FOR VF GIRDERS DETAILS - SHEET #1