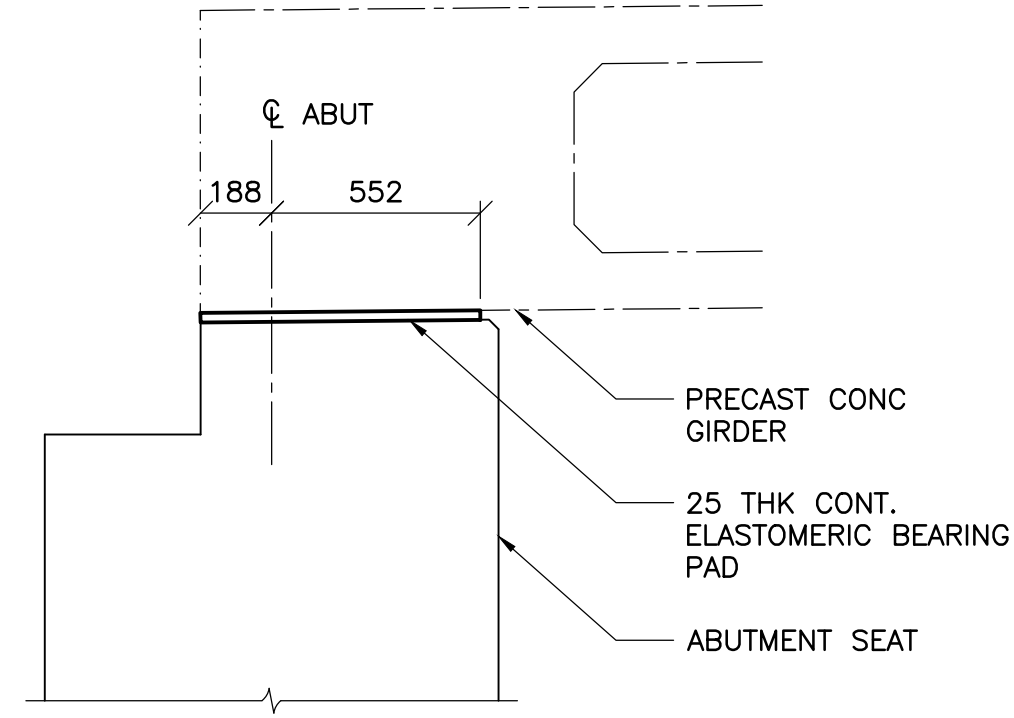


BEARING LOADS					
LOCATION	LIMIT STATE	VERTICAL DEAD (kN)	VERTICAL LIVE (kN)	HORIZONTAL LONGITUDINAL (kN)	HORIZONTAL TRANSVERSE (kN)
WEST ABUTMENT	SLS	175	210	25	10
	ULS	210	370	50	15
WEST PIER (WEST)	SLS	200	150	40	25
	ULS	225	265	95	25
WEST PIER (EAST)	SLS	200	150	40	25
	ULS	225	265	95	25
EAST PIER (WEST)	SLS	200	150	40	25
	ULS	225	265	95	25
EAST PIER (EAST)	SLS	200	150	40	25
	ULS	225	265	95	25
EAST ABUTMENT	SLS	175	210	25	10
	ULS	210	370	50	15

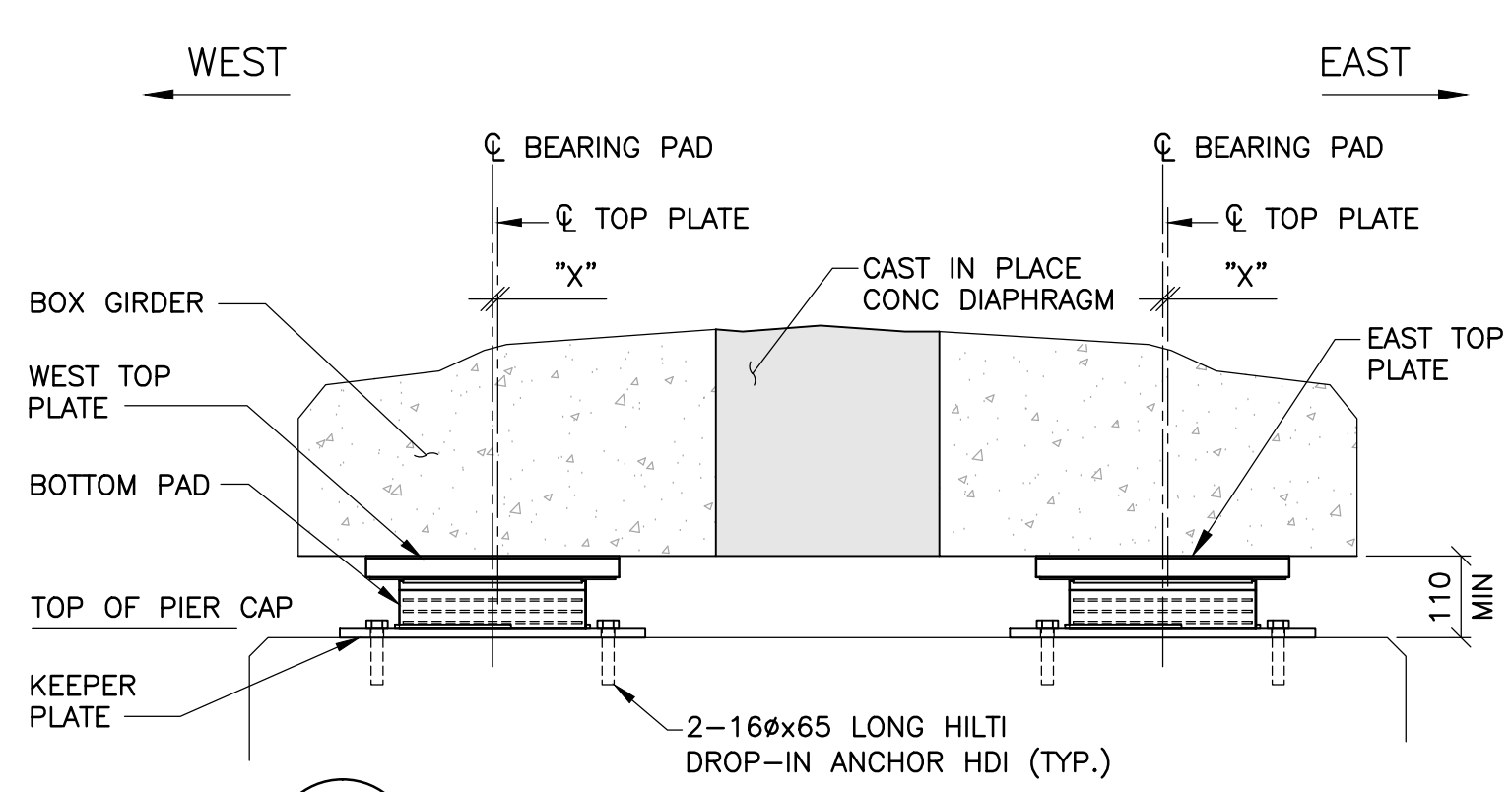
BEARING SETTING TABLE									
TEMPERATURE (°C)	-35	-25	-15	-5	0	5	15	25	35
"x" DISPLACEMENT AT PIERS (mm)	-7	-5	-3	-1	0	1	3	5	7

- NOTES:**
- ALL STEEL U.N.O. SHALL CONFORM TO CSA G40.21 GRADE 300W (MINIMUM).
  - THE TOP PLATE SHALL BE ZINC METALIZED. SURFACES TO BE METALIZED SHALL BE CLEANED IN ACCORDANCE WITH SSPC-SP5, "WHITE METAL BLAST CLEANING" ELASTOMER SHALL BE NATURAL RUBBER.
  - STEEL REINFORCED ELASTOMERIC BEARING PAD FOR PIERS SHALL BE LOW TEMPERATURE GRADE 4 OR 5 WITH A MAXIMUM SHEAR MODULUS  $G = 1.2MPa$  AND A 60 DUROMETER SHORE "A" HARDNESS. ELASTOMER FOR ABUTMENT SHALL BE 50 DUROMETER SHORE "A" HARDNESS.
  - INTERNAL STEEL REINFORCING PLATES FOR LAMINATED BEARINGS SHALL BE ROLLED MILD STEEL WITH A MINIMUM YIELD STRENGTH OF 230 MPa AS APPROVED BY ENGINEER. UPPER PLATE TO BE GALVANIZED.
  - ADJUSTMENTS FOR TEMPERATURE SHALL BE IN ACCORDING WITH THE BEARING SETTING CHART. "x" IS THE OFFSET DISTANCE BETWEEN CENTER OF BEARING PAD AND CENTER OF TOP PLATE.

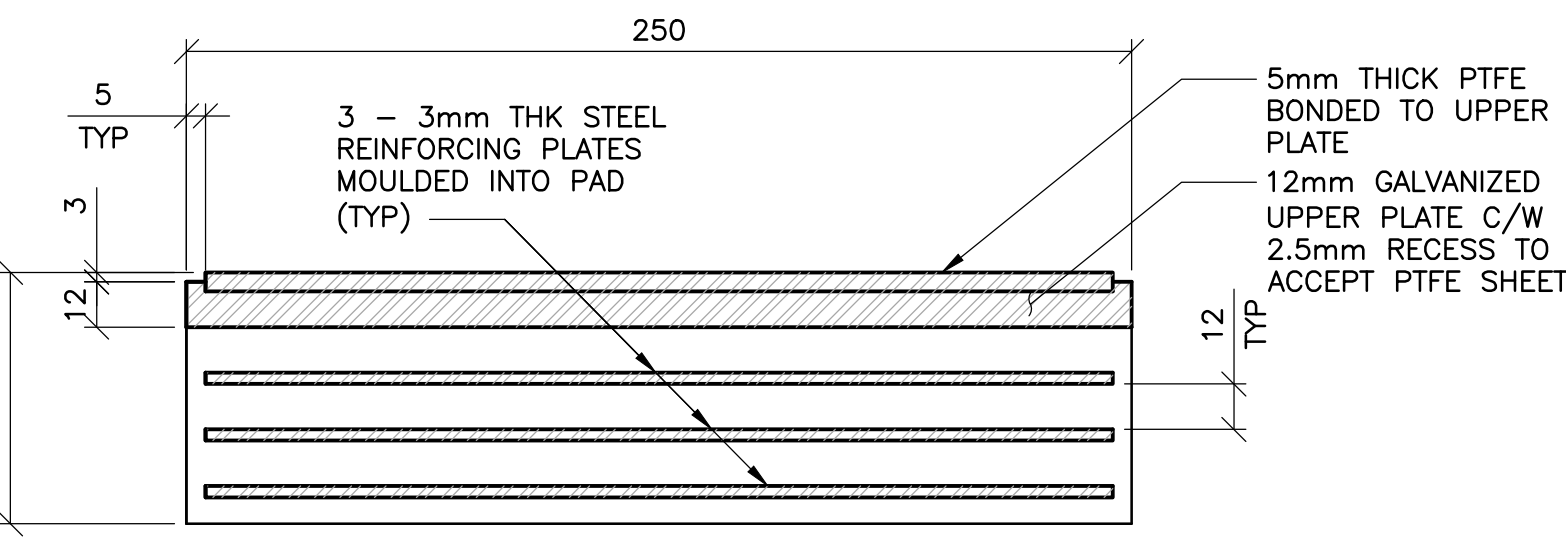
**1 BEARING LAYOUT**  
1 : 75



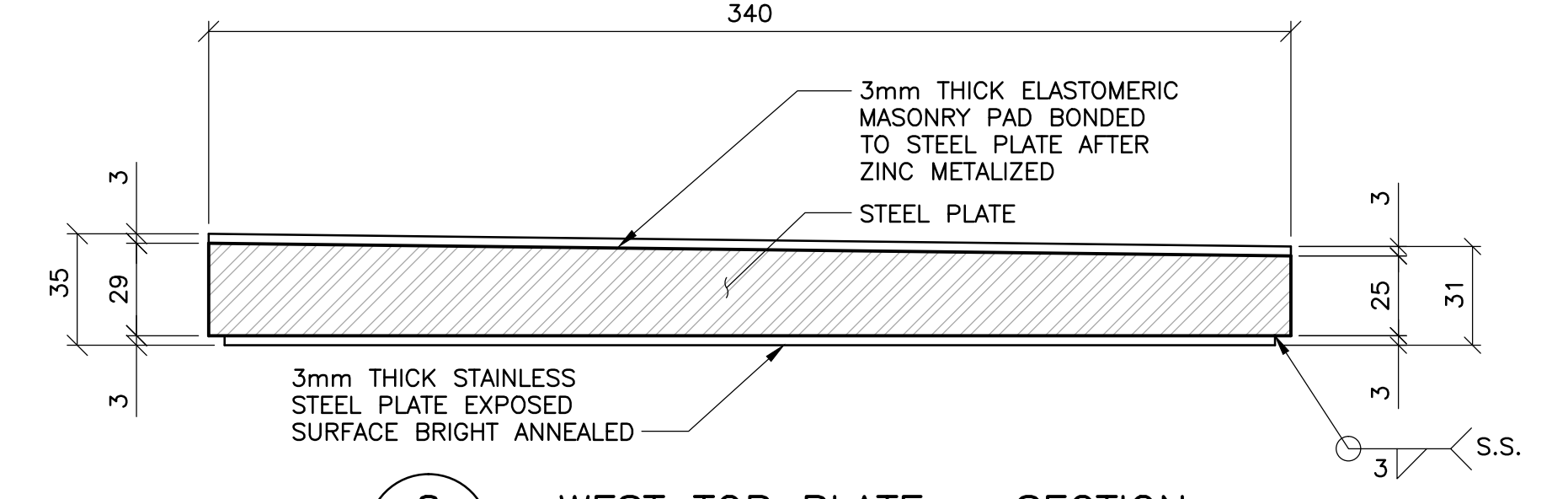
**2 SECTION AT ABUTMENT**  
1 : 20



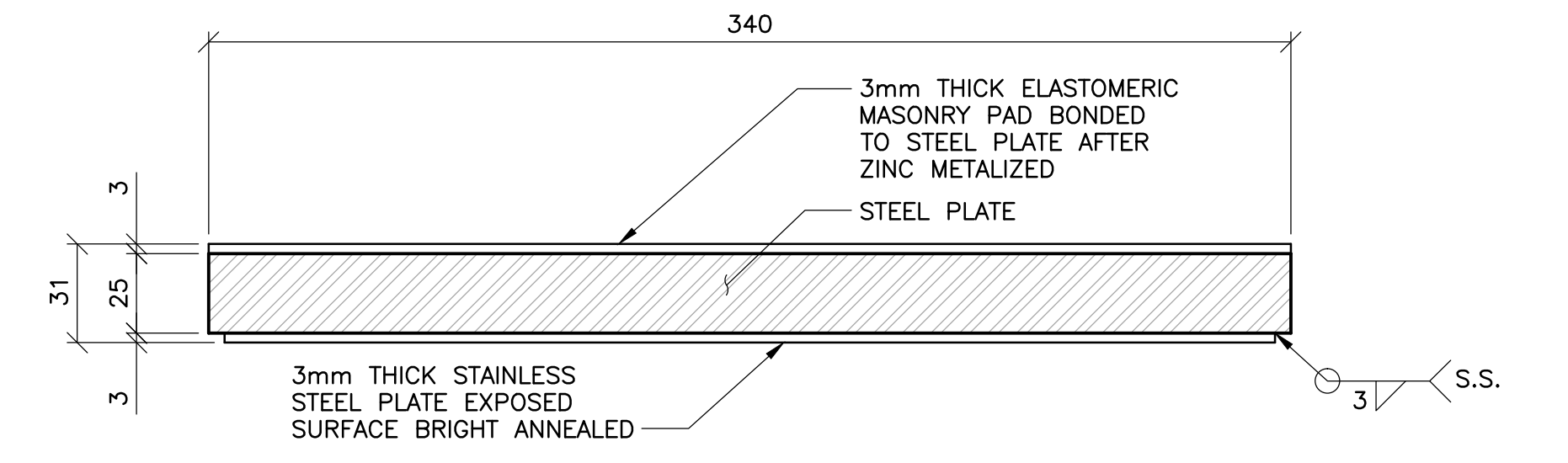
**3 PIER BEARING ASSEMBLY DETAIL**  
1 : 10  
- REFER TO BEARING LAYOUT FOR LOC'S



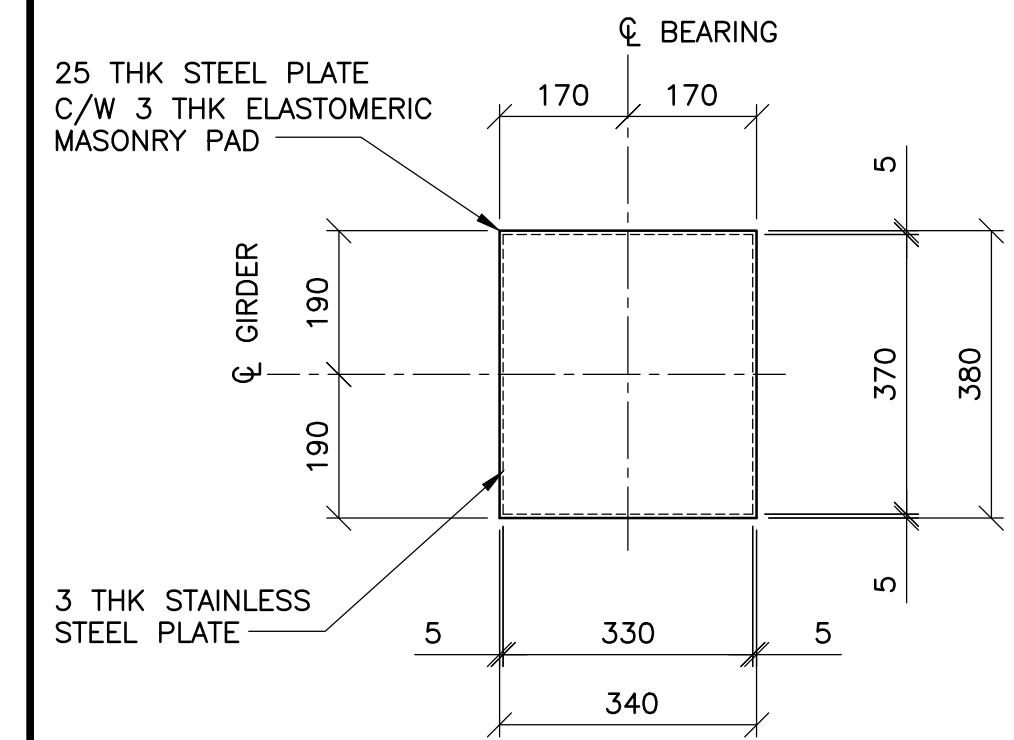
**7 BOTTOM PAD - SECTION**  
1 : 2



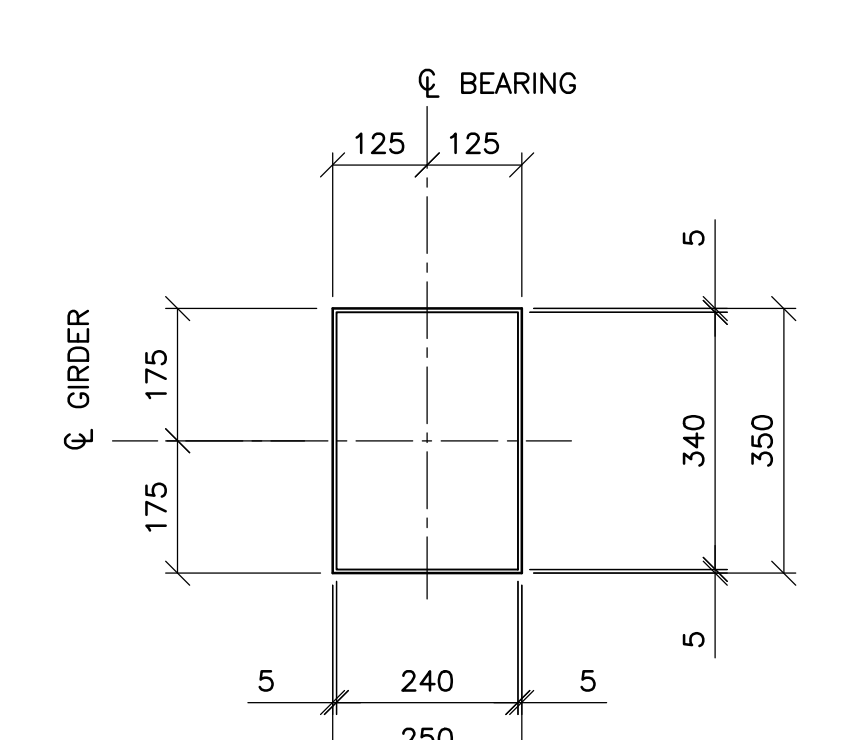
**8 WEST TOP PLATE - SECTION**  
1 : 2



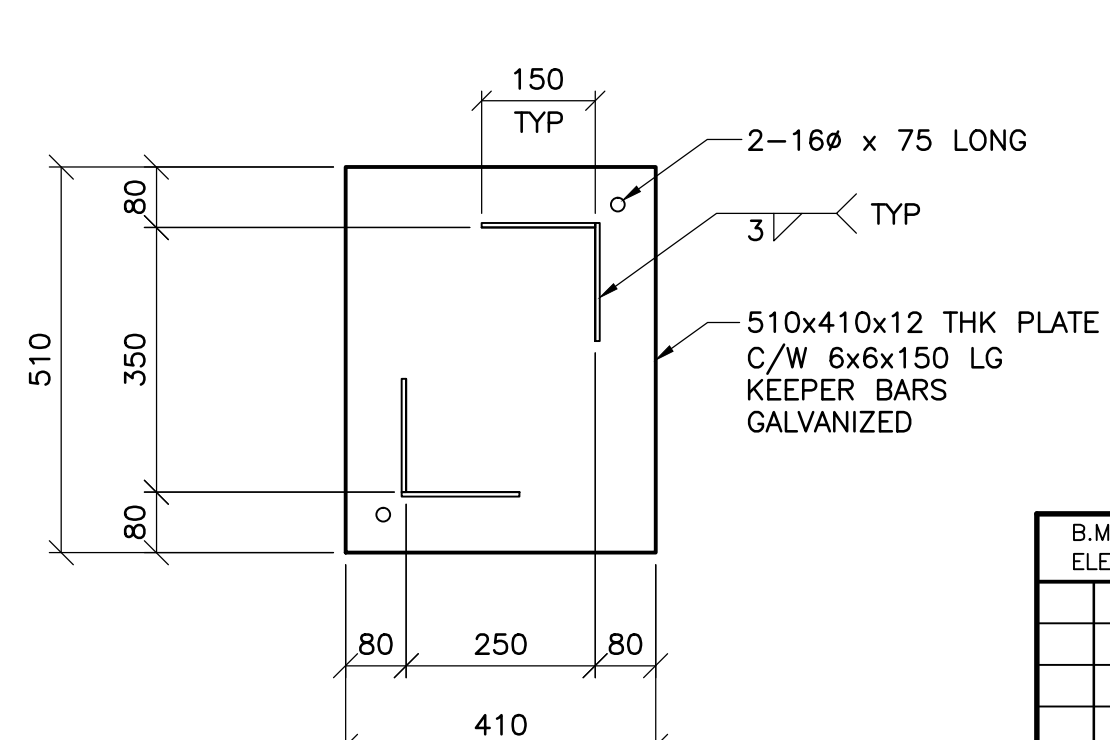
**9 EAST TOP PLATE - SECTION**  
1 : 2



**4 TOP PLATE - PLAN**  
1 : 10



**5 BOTTOM PAD - PLAN**  
1 : 10



**6 KEEPER PLATE DETAIL**  
1 : 10

**ENGINEERS GEOSCIENTISTS MANITOBA**  
Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499

B.M. ELEV. 0 ISSUED FOR TENDER NO. REVISIONS	17.10.04 DATE	D.M. BY	DESIGNED BY D.M. CHECKED BY J.Z. DRAWN BY G.I. / B.M. APPROVED BY E.F.S. HOR. SCALE: AS NOTED VERTICAL: AS NOTED ACCEPTED BY DATE ORIGINAL DRAWING SIGNED BY: D. MUHURDAREVIC, P.ENG. 17.10.04 B. MUHURDAREVIC, P.ENG. BRIDGE PROJECTS ENGINEER	D.E.S. MITCHELL ORIGINAL SIGNED 17.10.04 33352 REGISTERED PROFESSIONAL ENGINEER	THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	SASKATCHEWAN AVE AT STURGEON CREEK BRIDGE CONSTRUCTION	CITY DRAWING NUMBER B248-17-033 SHEET 33 OF 69
	17.10.04 DATE	D.M. BY				BEARING LAYOUT AND DETAILS	33
	17.10.04 DATE	D.M. BY				CONSULTANT DRAWING NO. 1600070700-DWG-S0033	33
	17.10.04 DATE	D.M. BY				1600070700-DWG-S0033	33