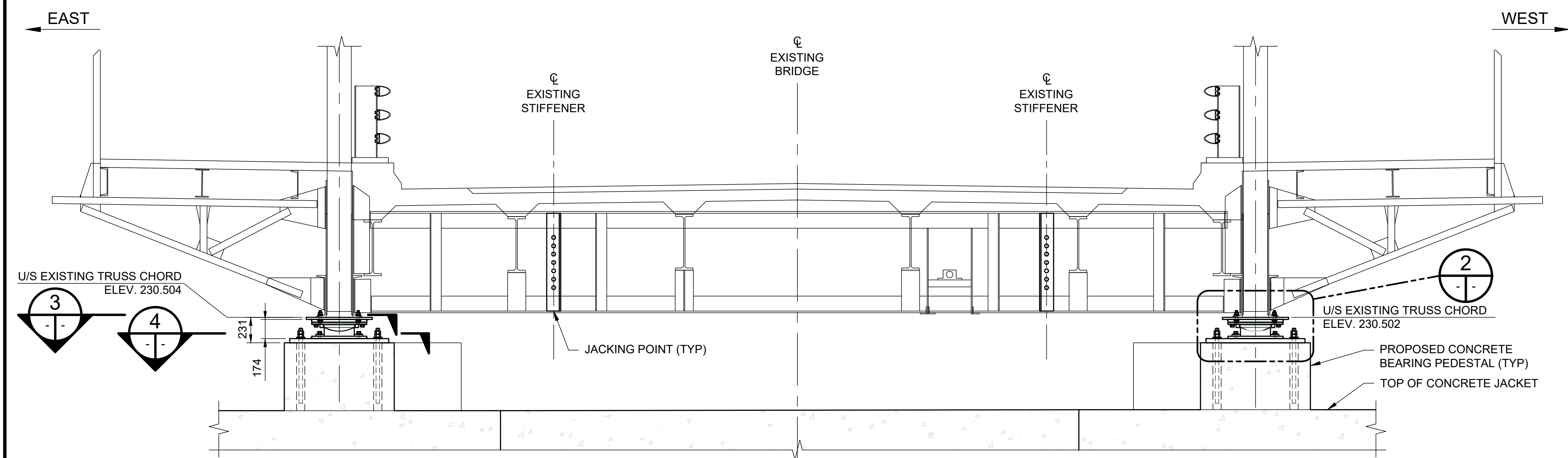
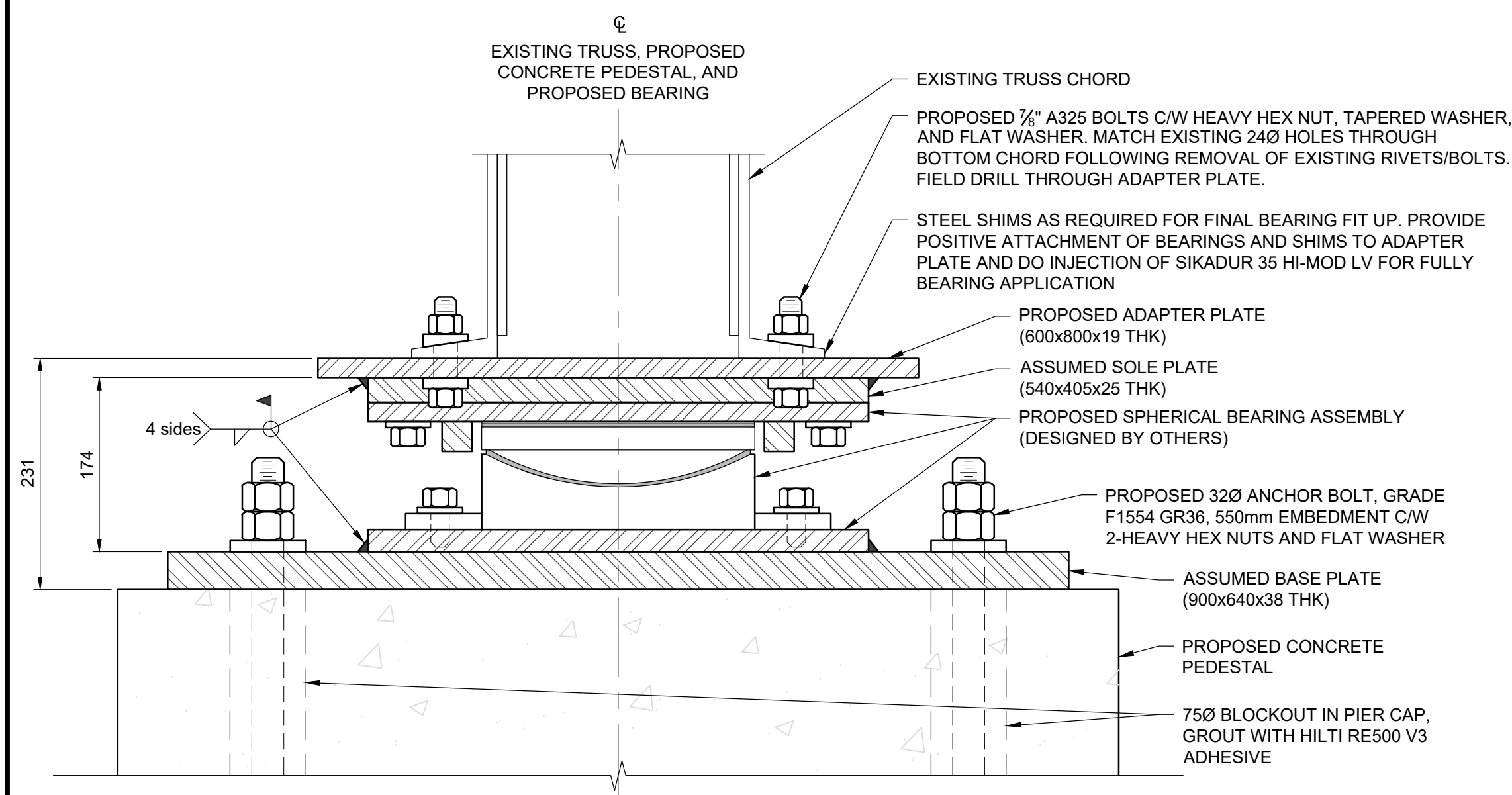
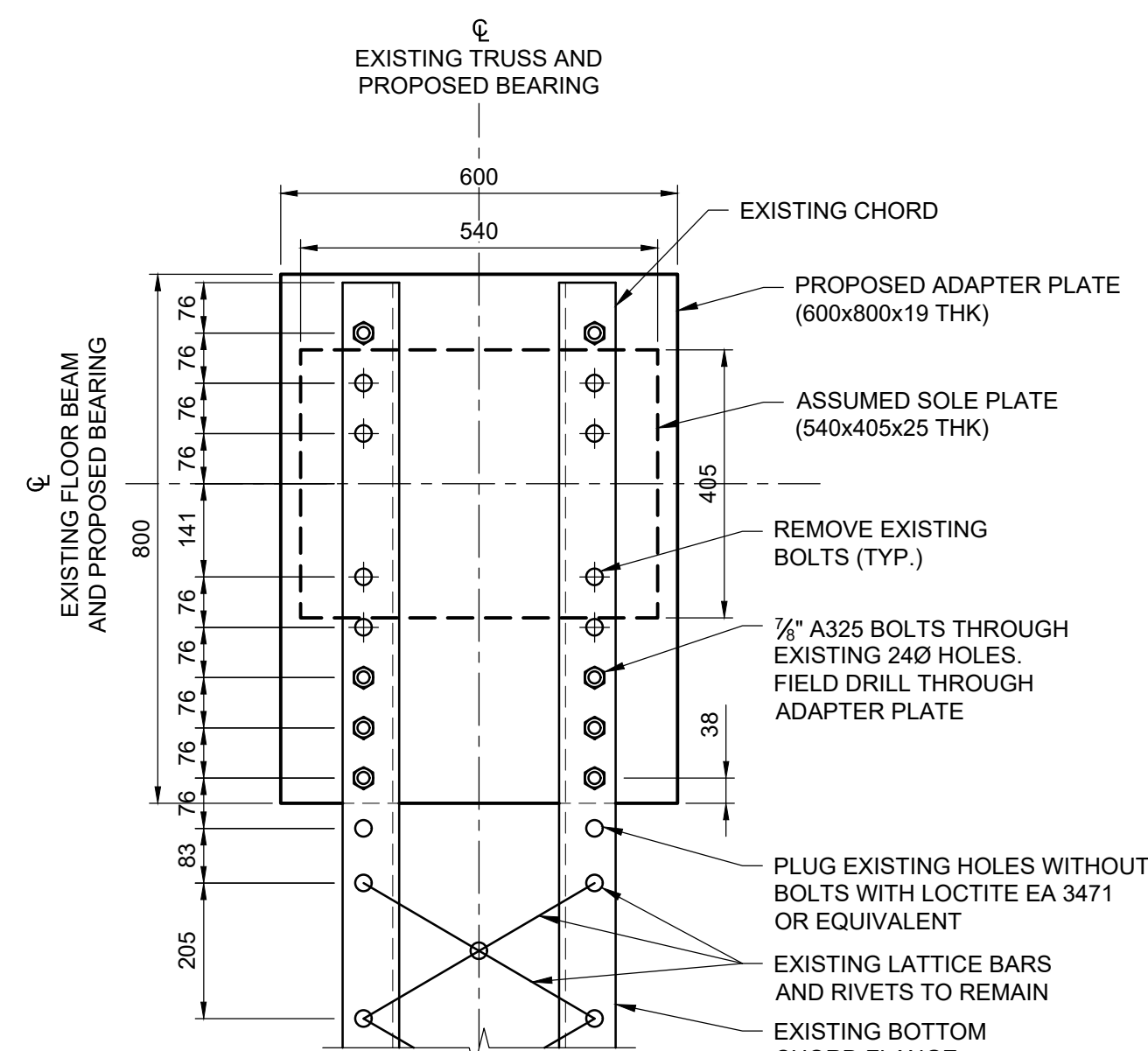




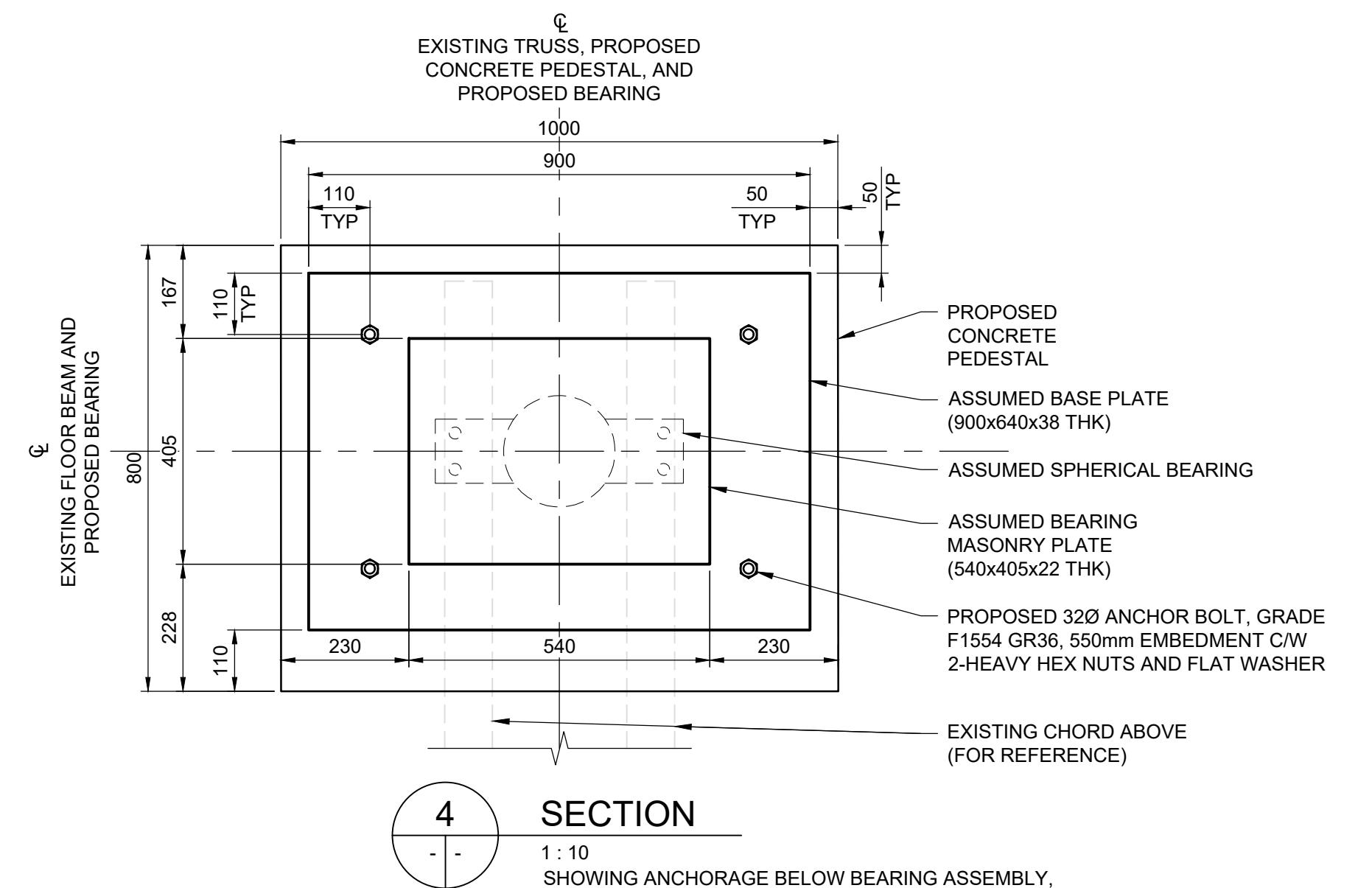
1 ELEVATION - SU.2 SPAN 2 BEARINGS - PROPOSED
1 : 30
LOOKING SOUTH
SU.4 SPAN 3 SIMILAR LOOKING NORTH



2 DETAIL
1 : 5
SHOWING BEARING ASSEMBLY,
THREE OTHER LOCATIONS SIMILAR



3 SECTION
1 : 10
SHOWING TOP PLATES ABOVE BEARING ASSEMBLY,
THREE OTHER LOCATIONS SIMILAR



4 SECTION
1 : 10
SHOWING ANCHORAGE BELOW BEARING ASSEMBLY,
THREE OTHER LOCATIONS SIMILAR

BEARING LOADS AND MOVEMENTS TABLE

FOR SU.2 SPAN 2 AND SU.4 SPAN 3

LOCATION	BEARING TYPE	SLS DESIGN LOADS							ULS DESIGN LOADS							TOTAL LONGITUDINAL MOVEMENT DESIGN RANGE ⁽⁴⁾ (mm)
		VERTICAL MIN (kN)	VERTICAL ⁽¹⁾ (kN)		LONGITUDINAL (kN)	TRANSVERSE ⁽³⁾ (kN)	LIVE LOAD ROTATIONS ⁽⁶⁾ (RADIAN)		VERTICAL MIN (kN)	VERTICAL ⁽¹⁾ MAX (kN)	LONGITUDINAL (kN)	TRANSVERSE ⁽³⁾ (kN)	LIVE LOAD ROTATIONS ⁽⁶⁾ (RADIAN)			
		TOTAL	DEAD	TOTAL	TOTAL	TOTAL	RX	RY	TOTAL	DEAD	TOTAL	TOTAL	TOTAL	RX	RY	
PIER SU.2	UNIDIRECTIONAL	0	826	1402	(2)	140	0.00172	0.00250	-140	964	1880	(2)	188	0.00285	0.00396	+44 / -44
SPAN 2 SIDE	UNIDIRECTIONAL	0	826	1402	(2)	140	0.00172	0.00250	-140	964	1880	(2)	188	0.00285	0.00396	+44 / -44
PIER SU.4	UNIDIRECTIONAL	0	826	1402	(2)	140	0.00172	0.00250	-140	964	1880	(2)	188	0.00285	0.00396	+44 / -44
SPAN 3 SIDE	UNIDIRECTIONAL	0	826	1402	(2)	140	0.00172	0.00250	-140	964	1880	(2)	188	0.00285	0.00396	+44 / -44

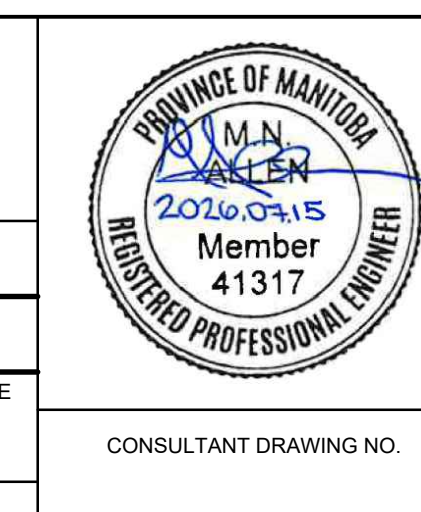
NOTES:

- VERTICAL LOADS PROVIDED INCLUDE A 25% ADDITIONAL DEAD LOAD ALLOWANCE FOR FUTURE BRIDGE REHABILITATION. ACTUAL DEAD LOADS IN THE SHORT TERM WILL BE LESS.
- LONGITUDINAL LOADS SHALL BE DETERMINED BY THE BEARING SUPPLIER AS A FUNCTION OF BEARING FRICTION. BEARING FRICTION SHALL NOT BE MORE THAN 5% WITHIN THE DESIGN TEMPERATURE RANGE.
- UNIDIRECTIONAL GUIDED BEARINGS SHALL BE DESIGNED TO RESIST THE LARGER OF THE GIVEN LOADS OR 10% THE FINAL VERTICAL LOAD CAPACITY OF THE BEARINGS.
- LONGITUDINAL MOVEMENT DESIGN RANGE INCLUDES A 25mm EXTRA ALLOWANCE IN THE DIRECTION OF EXPANSION AND CONTRACTION.
- DESIGN BEARINGS WITH A MAXIMUM ECCENTRICITY OF +/-55mm.
- CONTRACTOR TO MEASURE EXISTING BRIDGE TRUSS CHORD SLOPE OVER BEARING AND PROVIDE ADEQUATE ROTATION ALLOWANCE WITHIN SPHERICAL BEARING TO ACCOMMODATE IN ADDITION TO THE NOTED LIVE LOAD ROTATIONS WITHIN THE TABLE.



VERTICAL DATUM:			
HORIZONTAL DATUM:			
0	ISSUED FOR TENDER	2026/07/15	MNA
NO.	REVISIONS	DATE	BY

DESIGNED BY MNA		REVIEWED BY DC	
DRAWN BY MDG		APPROVED BY DRA	
SCALE: AS NOTED		ACCEPTED BY DATE	
0		2026.07.15	



THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

LOUISE BRIDGE SUBSTRUCTURE REHABILITATION
AND RIVERBANK STABILIZATION WORKS

SU.2 & SU.4 SWING SPAN BEARING
REPLACEMENT DETAILS

CITY DRAWING NUMBER
B107-26-038

SHEET **38** OF **39**

38