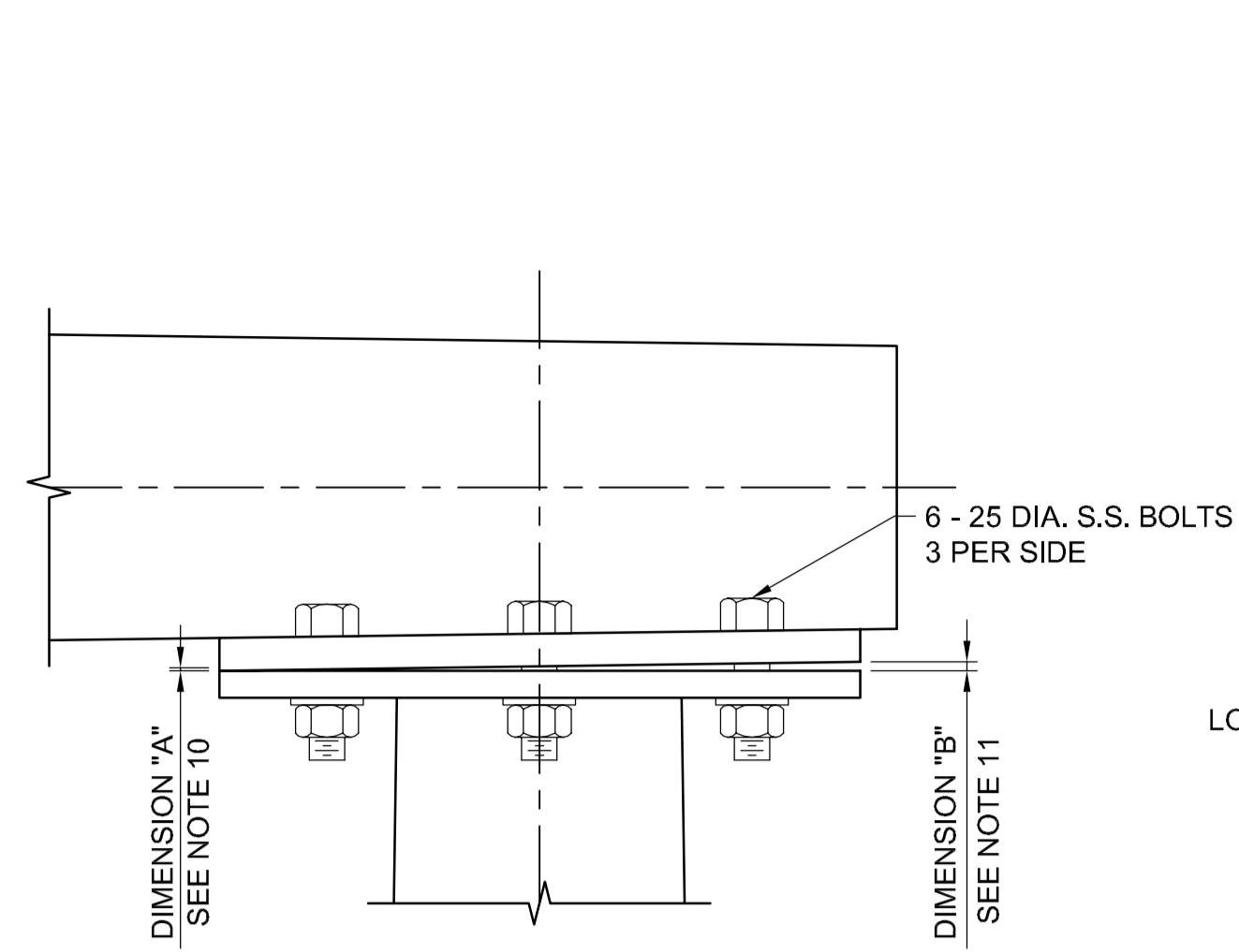
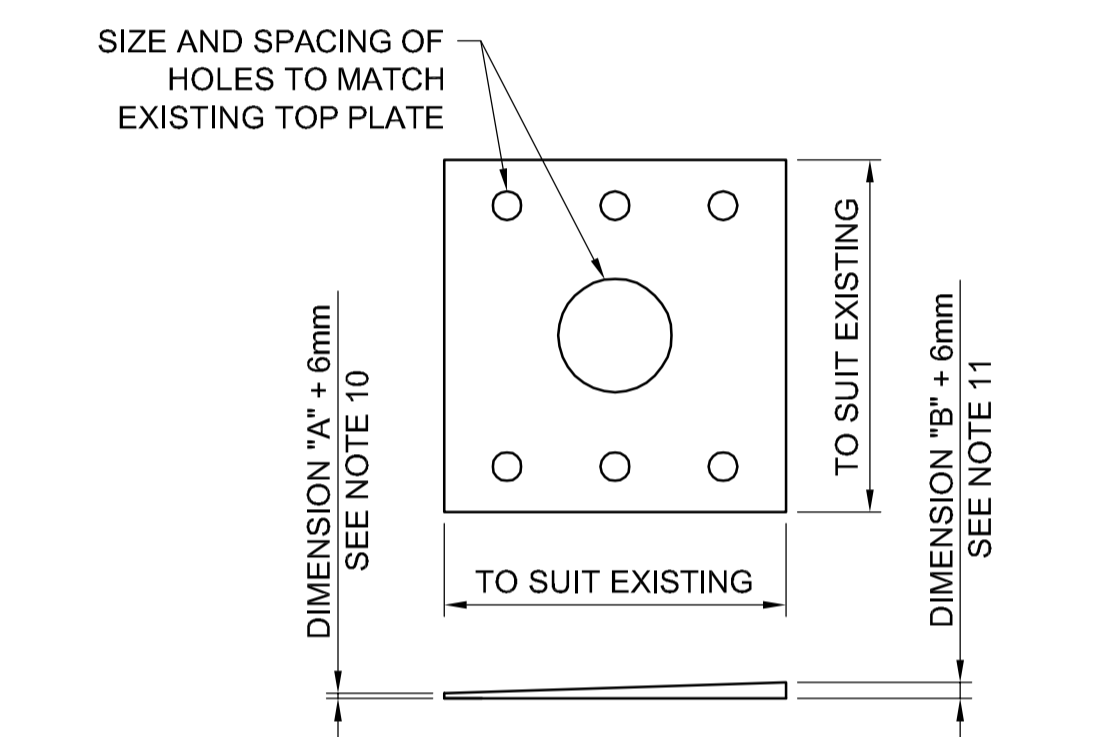


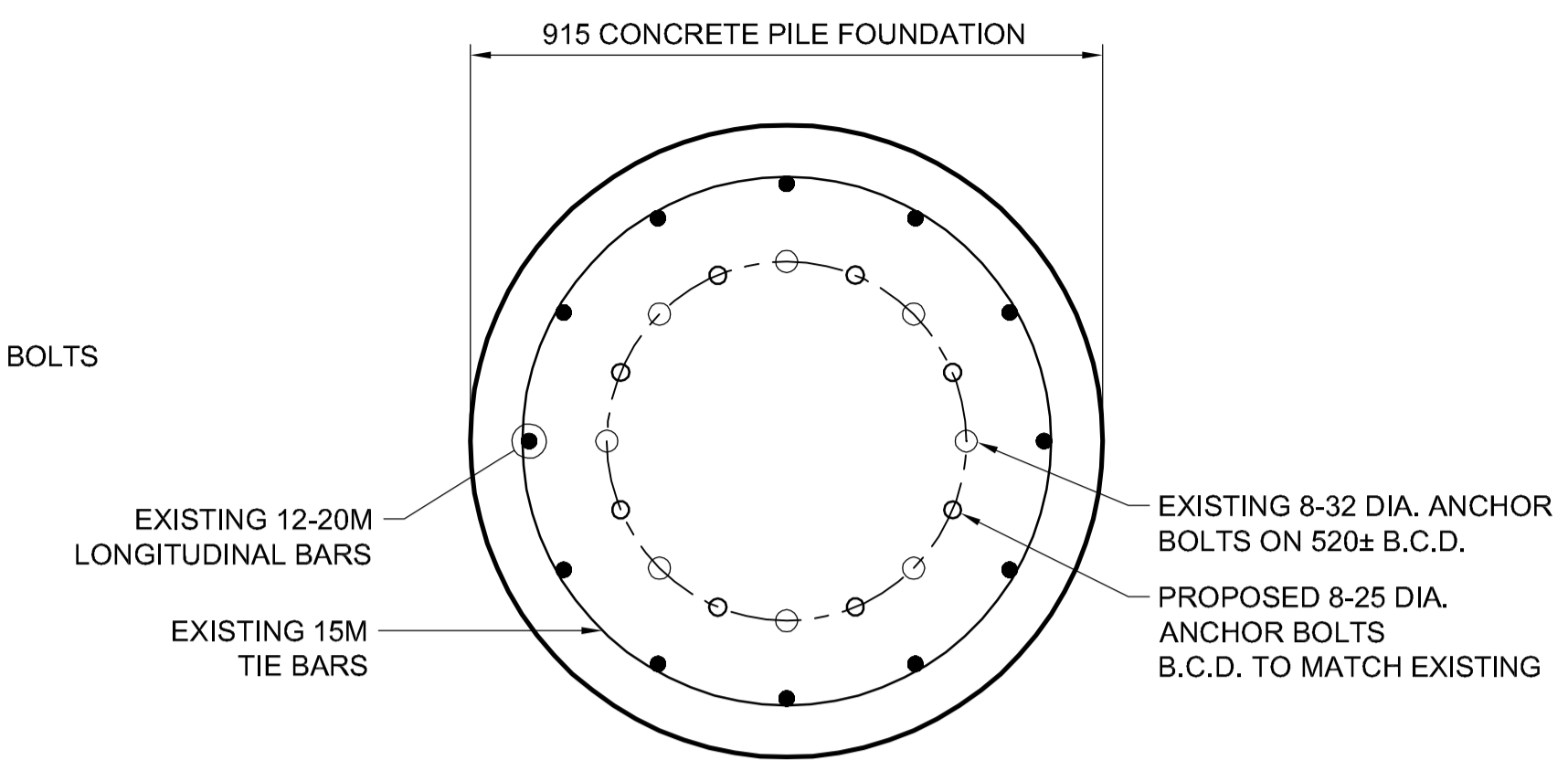
A DETAIL
 1:1



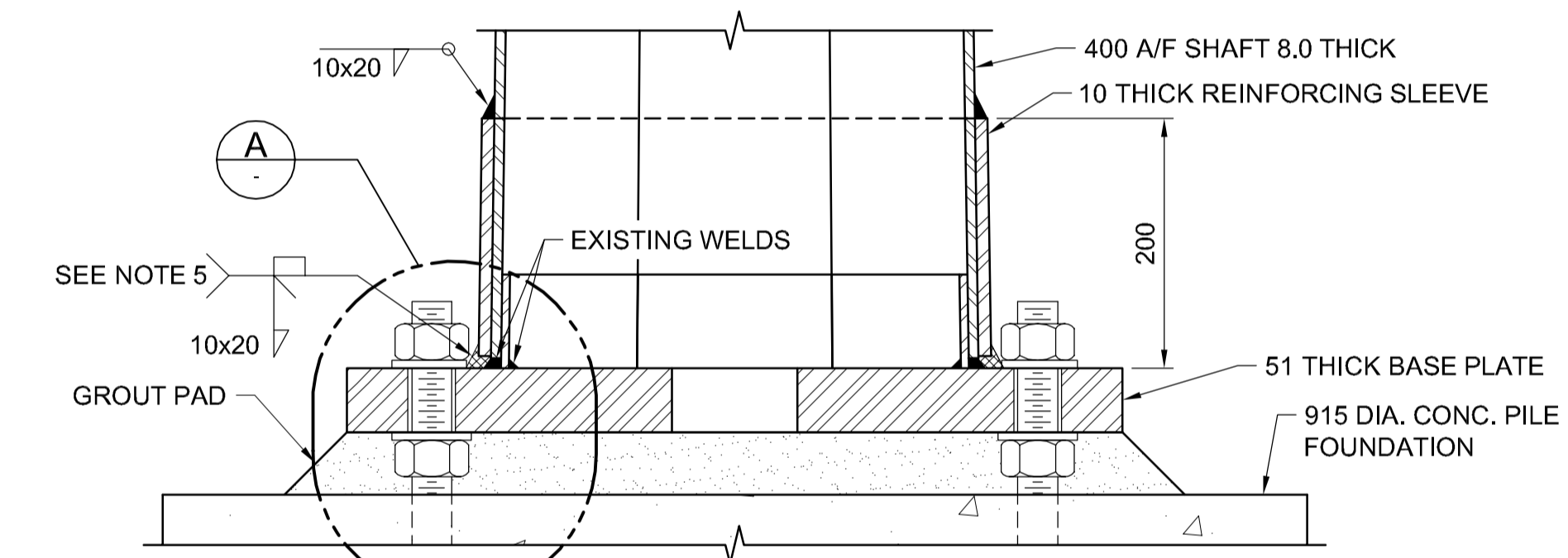
TYPICAL EXISTING FLANGE CONNECTION
 1:5



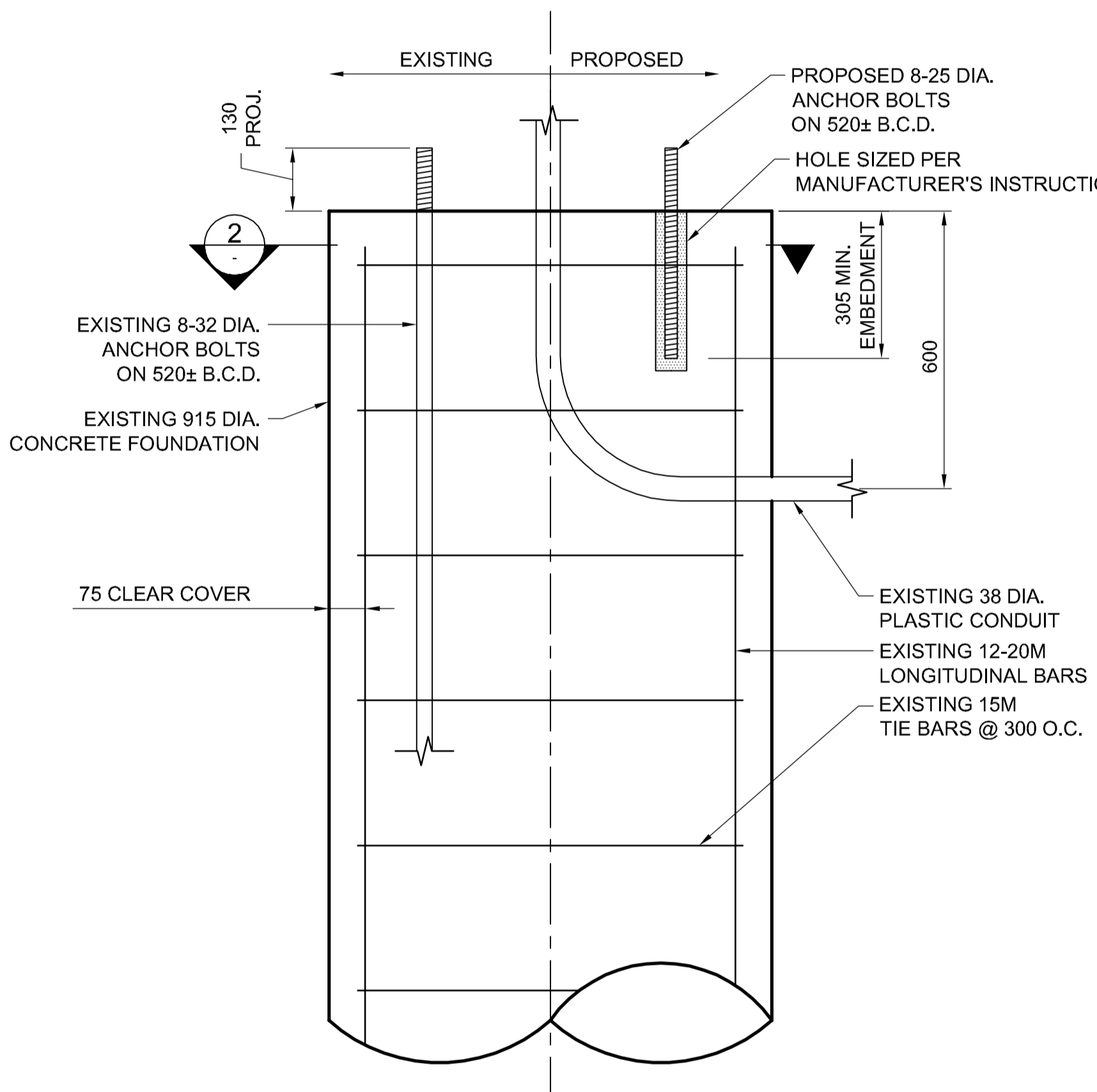
SHIM PLATES AT SUPPORT FLANGE
 1:10



2 SECTION
 1:10

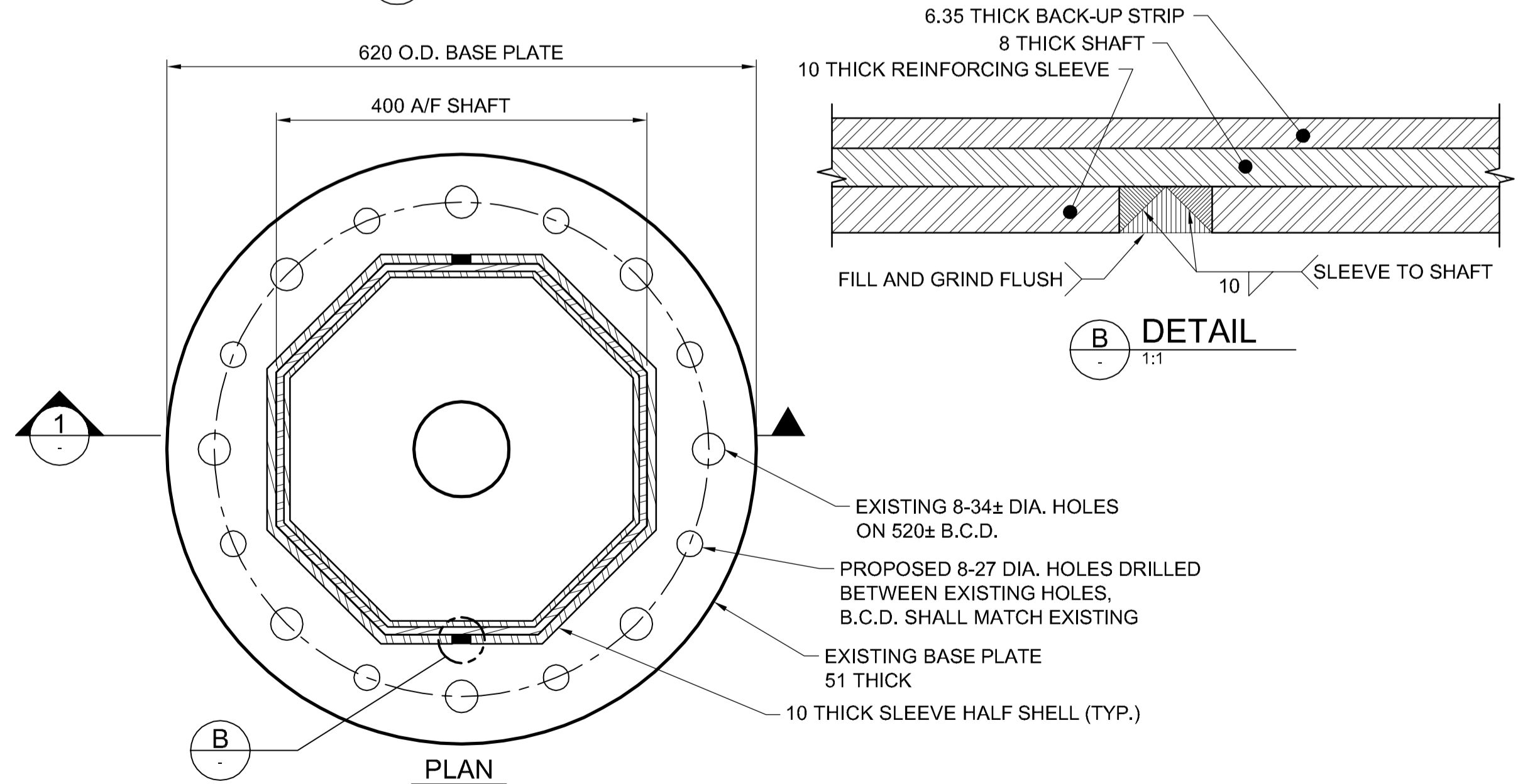


1 SECTION
 1:5



ELEVATION - POST-INSTALLED ANCHOR BOLT DETAILS
 SCALE 1:10

TYPICAL FOR BOTH S658 FOUNDATIONS



B DETAIL
 1:1

BASE PLATE AND SHAFT MODIFICATIONS
 SCALE 1:5

TYPICAL FOR TWO S658 BASE PLATES

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

FOUNDATION MODIFICATION NOTES:

- POST-INSTALLED ANCHOR BOLTS SHALL BE INSTALLED USING THE HILTI HIT-RE 500-SD ADHESIVE ANCHORING SYSTEM. SUBSTITUTES SHALL BE APPROVED IN WRITING BY THE CONTRACT ADMINISTRATOR.
- INSTALL POST-INSTALLED ANCHOR BOLTS IN ACCORDANCE WITH ADHESIVE ANCHORING SYSTEM MANUFACTURER'S INSTRUCTIONS.
- FOLLOWING INSTALLATION OF THE NEW ANCHOR BOLTS, CONTRACTOR SHALL CREATE AN ANCHOR BOLT HOLE TEMPLATE FOR EACH FOUNDATION.
- POST-INSTALLED ANCHOR BOLTS
 - 25 DIA. BY 450 LONG C/W 2 NUTS & 2 WASHERS
 - ASTM F1554 GR. 55 (380 MPa)
 - FULLY THREADED UNC CLASS 2A
 - HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM F2329

STRUCTURE MODIFICATION NOTES:

- WELD SHALL BE UNEQUAL LEG FILLET WELD WITH THE LONG LEG OF THE WELD TERMINATING AT 30° TO THE SHAFT'S SURFACE. FILLET WELD REINFORCEMENT (10x20) MAY BE REDUCED IN VICINITY OF ANCHOR BOLTS TO PERMIT INSTALLATION OF NUT AND WASHER. ABRUPT TRANSITIONS IN THE WELD PROFILE ARE NOT PERMITTED.
- GOUGE EXISTING FILLET WELD AS REQUIRED TO ACHIEVE COMPLETE PENETRATION ROOT WELD.
- AN ANCHOR BOLT TEMPLATE SHALL BE USED TO GUARANTEE COMPATIBILITY OF EXISTING AND POST-INSTALLED ANCHOR BOLTS WITH BASE PLATE MODIFICATIONS IN THE SHOP.
- EXISTING HOLES SHALL BE ENLARGED BY REAMING. NEW HOLES SHALL BE INSTALLED BY DRILLING.

SHIM PLATE NOTES:

- CONTRACTOR SHALL PERFORM DETAILED MEASUREMENTS IN THE FIELD TO DETERMINE THICKNESS OF REQUIRED SHIM PLATE. MEASUREMENTS SHALL BE OBTAINED WHEN CROSS-ARM IS FULLY LOADED (SIGN PANELS AND BRACKETS ATTACHED) AND UNDER ITS OWN SELF WEIGHT.
- DIMENSION A SHALL BE THE MEASURED GAP BETWEEN THE PLATES AT THE LOCATION SHOWN.
- DIMENSION B SHALL BE THE MEASURED GAP BETWEEN THE PLATES AT THE LOCATION SHOWN.

G:\CAD\149234\11-Structural\01-Contract\OHSS-14-07.dwg



B.M. ELEV.	DESIGNED BY	CDW	ENGINEER'S SEAL
	DRAWN BY	KB	
	CHECKED BY	SSR	
	APPROVED BY	-	
	HOR. SCALE	-	CONSULTANT PROJECT NUMBER
	VERTICAL	-	14-9234
0 ISSUED FOR TENDER	06/18/14	CDW	RELEASED FOR CONSTRUCTION
NO. REVISIONS	DATE	BY	DATE
			JUNE 18, 2014

DILLON CONSULTING

PROVINCE OF MANITOBA
 ORIGINAL REGISTERED BY
C.D. WARD
 JUNE 18, 2014
 Member
 24456
 REGISTERED PROFESSIONAL ENGINEER

RELEASING OFFICE
 DATE

THE CITY OF WINNIPEG
 PUBLIC WORKS DEPARTMENT

Winnipeg

STEEL OVERHEAD SIGN SUPPORT
 STRUCTURES - 2014 MAINTENANCE WORKS

CITY DRAWING NUMBER
 S658-14-02

SHEET 7 OF 7

CONSULTANT DRAWING NUMBER
 OHSS-14-07

STRUCTURE NO. S658 DETAILS