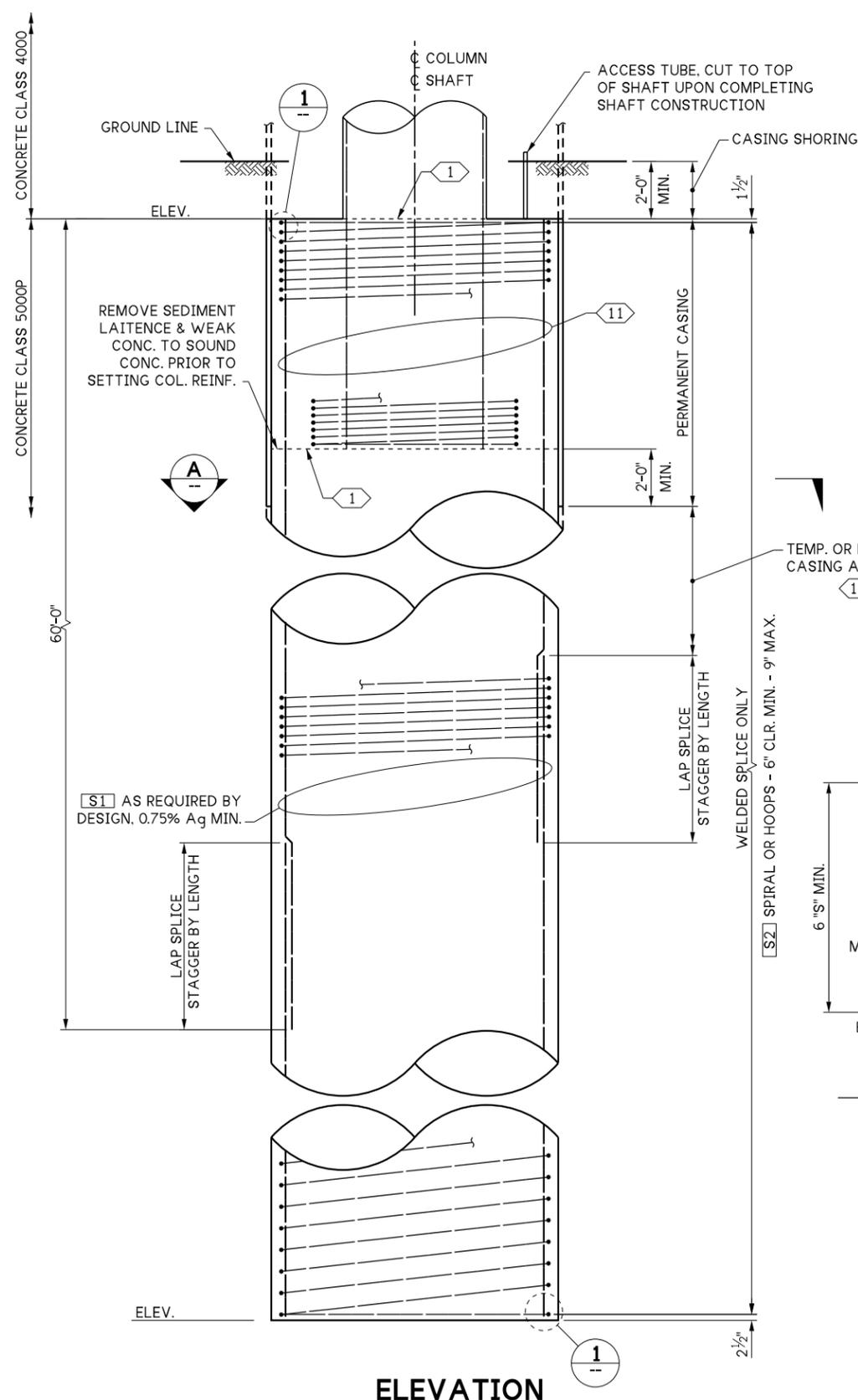
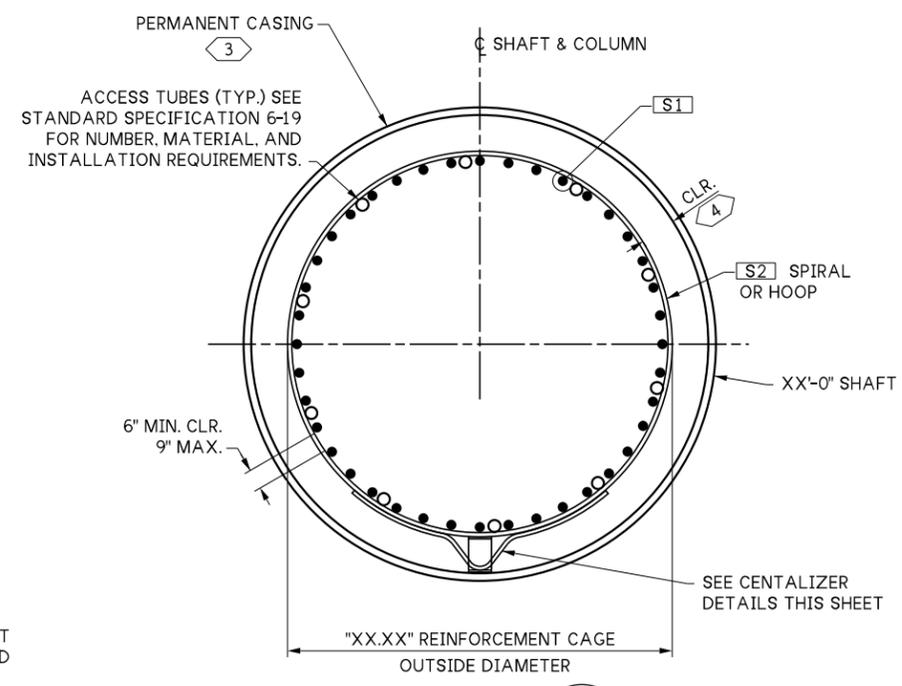


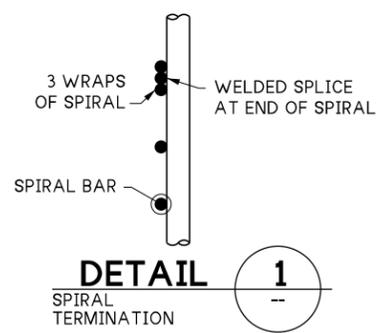
LAST REVISED: 10/30/2025



ELEVATION



SECTION A



DETAIL 1
SPIRAL TERMINATION

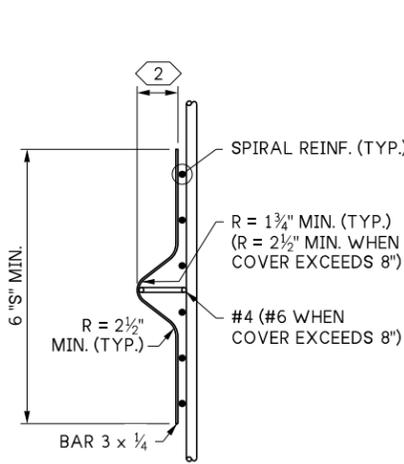
SHAFT HOOP OPTIONS			
	WELD DIMENSIONS (IN.)		
	S	E	LENGTH (L)
#7	7/16	1/4	7
#8	1/2	1/4	8
#9	9/16	5/16	8

SHAFT SPIRAL OPTIONS			
	WELD DIMENSIONS (IN.)		
	S	E	LENGTH (L)
#4	1/4	1/8	4
#5	5/16	3/16	6
#6	3/8	3/16	6

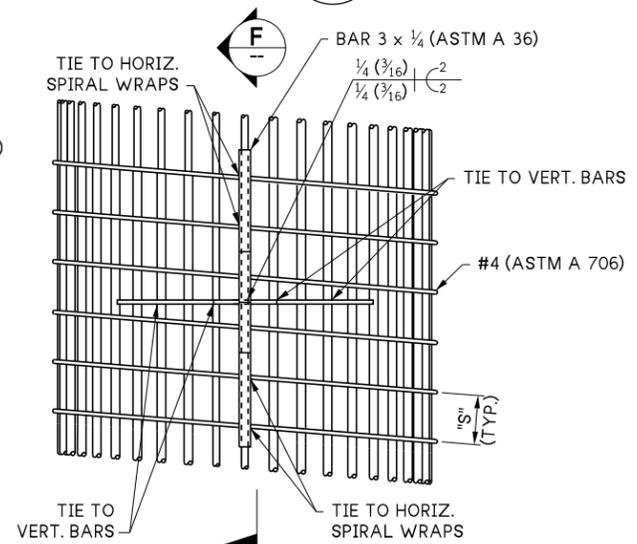
DESIGNER NOTES:
 BUTT WELDED HOOPS REQUIRED IF PLASTIC HINGING IS EXPECTED.
 SPECIFY OPTIONAL SPLICE / MECHANICAL COUPLER FOR S1 BAR LENGTHS 80'-0" OR LESS. BARS ARE OFTEN AVAILABLE AT 80'-0".
 MECHANICAL COUPLER REQUIRED FOR BAR SIZES #14 AND #18.
 REINFORCEMENT CAGE OUTSIDE DIAMETER SHALL BE PER BDM TABLE 7.8.2-2.
 GEOTECH TO PROVIDE "X" FEET IN NOTE 10. REMOVE NOTE 10 IF NOT REQUIRED.

KEY NOTES:

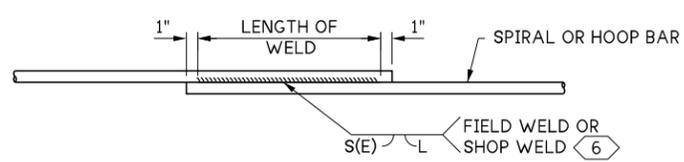
- 1 CONSTRUCTION JOINT WITH ROUGHENED SURFACE.
- 2 MINIMUM CONCRETE COVER MINUS 1/2".
- 3 SEE STD. SPEC. 6-19.3(3)B5 FOR PERMANENT SLIP CASING.
- 4 SEE STD. SPEC. 6-19.3(5)C. FOR MINIMUM CONCRETE COVER.
- 5 SEE STD. SPEC. 6-19.3(5)B FOR SPACING REQUIREMENTS.
- 6 WELDING SHALL MEET THE REQUIREMENTS OF STD. SPEC. 6-02.3(24)E FOR WELD DIMENSIONS. SEE SHAFT SPIRAL / HOOP OPTIONS TABLE THIS SHEET.
- 7 CENTRALIZERS SHALL BE EPOXY COATED OR PAINTED WITH PAINT CONFORMING TO STANDARD SPECIFICATION 9-08.1(2)C OR 9-08.1(2)F AFTER FABRICATION.
- 8 EACH LEG SHALL BE TIED TO TWO (2) VERTICAL BAR AND TWO (2) SPIRAL WRAPS OR TWO (2) HOOPS.
- 9 CAGECASTER® REBAR CAGE SPACERS BY FOUNDATION TECHNOLOGIES MAY BE USED IN LIEU OF DETAIL SHOWN. SPACING REQUIREMENTS SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS. EACH LEG SHALL BE TIED TO A MINIMUM OF TWO (2) SPIRAL WRAPS OR HOOPS.
- 10 TEMPORARY OR PERMANENT CASING AS REQUIRED. EXCAVATION IN ADVANCE OF CASING TIP SHALL NOT EXCEED "X" FEET.
- 11 [S1] AS REQUIRED BY DESIGN. NOT LESS THAN 0.75% Ag (SHAFT) OR 1% Ag (COLUMN). PROVIDE OPTION FOR GRADE 80 REINFORCEMENT IN ADDITION TO GRADE 60.



VIEW F



CENTRALIZER DETAIL



WELDED LAP SPLICE DETAIL

FILE NAME	7.8.2-1_Typical Shaft Details.dgn		
BRIDGE DES. ENG.			
BRIDGE PROJ. ENG.			
SUPERVISOR			
DESIGNED BY			
CHECKED BY			
ENTERED BY			
PRELIM. PLAN BY			
ARCH. / SPEC.			
	REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
CONTRACT NO.	



SEE CERTIFICATION SHEET DATE	SEE CERTIFICATION SHEET DATE
STAMP BOX	STAMP BOX

STANDARD DESIGN DRAWINGS SUBSTRUCTURE
TYPICAL SHAFT DETAILS

PLAN REF NO
SHEET
OF
SHEETS

7.8.2-1