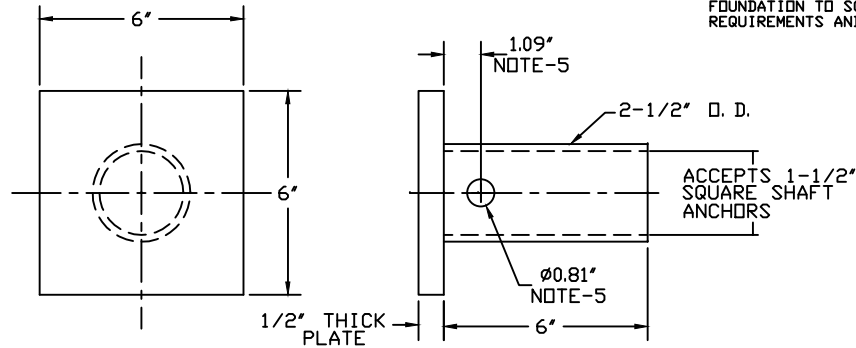


INSTALLATION CONCEPT OF PIER CAP DETAIL



==NOTES==

1. FINISH: MILL FINISH STEEL.
2. MATERIAL SPECIFICATIONS:
PIPE: BLACK UNCOATED ROUND STEEL TUBE PER ASTM A513 TYPE 5, GRADE 1026.
PLATE: PER ASTM A572 GRADE 50.
3. TENSION RATING VALID ONLY IF USING COUPLING BOLT AND NUT SPECIFIED IN CHART BELOW OR THEIR MECHANICAL EQUIVALENT.
4. THESE ABOVE RATINGS ARE VALID ONLY IF THE PIER CAP DETAIL HAS BEEN DESIGNED TO ENSURE ADEQUATE LOAD TRANSFER FROM REINFORCED CONCRETE FOUNDATION TO SCREW PIER, AND IN ACCORDANCE WITH EXISTING LOCAL CODE REQUIREMENTS AND /OR ESTABLISHED LOCAL PRACTICES.

CATALOG NUMBER	PILE MODEL	ASD ALLOWABLE STRENGTHS IN COMPRESSION (kips)											
		2500 psi CONCRETE ⁵				3000 psi CONCRETE ⁵				4000 psi CONCRETE ⁵			
		FIRM SOIL		SOFT SOIL		FIRM SOIL		SOFT SOIL		FIRM SOIL		SOFT SOIL	
PINNED	FIXED	PINNED	FIXED	PINNED	FIXED	PINNED	FIXED	PINNED	FIXED	PINNED	FIXED		
C1500465	SS5	32.6	33.7	8.1	16.0	32.6	34.6	8.1	16.0	32.6	36.4	8.1	16.0
C1500458	SS5	32.6	33.7	8.1	16.0	32.6	34.6	8.1	16.0	32.6	36.4	8.1	16.0

CATALOG NUMBER	PILE MODEL	ASD ALLOWABLE STRENGTHS IN TENSION (kips)		
		2500 psi CONCRETE ⁵	3000 psi CONCRETE ⁵	4000 psi CONCRETE ⁵
		ALLOW	ALLOW	ALLOW
C1500465	SS5	28.1	28.1	28.1

COUPLING BOLT AND NUT*			
BOLT DIA.	BOLT LENGTH ‡ (MIN.)	BOLT GRADE	NUT
3/4"	4.25'	ASTM A325 TYPE 1	3/4", MATCHING HEX NUT

¹Refer to Section 4.1.3 of ESR-2794 for descriptions of fixed condition, pinned condition, soft soil and firm soil.

²Strength ratings include an allowance for corrosion over a 50-year service life and presume the supported structure is braced in accordance with IBC Section 1808.2.2 of the 2012 and 2009 IBC (Section 1808.2.5 of the 2006 IBC).

³Capacities apply to the specific pile cap and pile models listed.

⁴The fixed end condition requires that the foundation itself be fixed and that the pile and pile cap be embedded in the foundation with adequate concrete cover and reinforcing to resist 56.4 kip-in. or 116 kip-in nominal bending moment for SS5 and SS175 pile models respectively. The center of the shaft must be at least 6-in away from the end/corner of the concrete footing.

⁵See Section 4.1.2 of ESR-2794 for applicable limit states that must be evaluated by a registered design professional.

⁶Refer to the specified compressive strength of concrete at 28 days.

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ESR-2794

* BOLTS AND NUTS ARE NOT INCLUDED WITH BRACKET.
‡ FOR BOLTS WITH STANDARD THREAD LENGTH. THREADS ARE EXCLUDED FROM THE SHEAR PLANE.

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	TITLE NEW CONSTRUCTION PIER CAP FOR 1-1/2" PILES		
SIZE SB SA150-0465	DWG NO. C150-0465	CAT / PART / ASSY NO. C150-0465	REV F
DO NOT SCALE THIS DRAWING	DRN BY TLW	DATE 9/14/11	SHEET 1/1