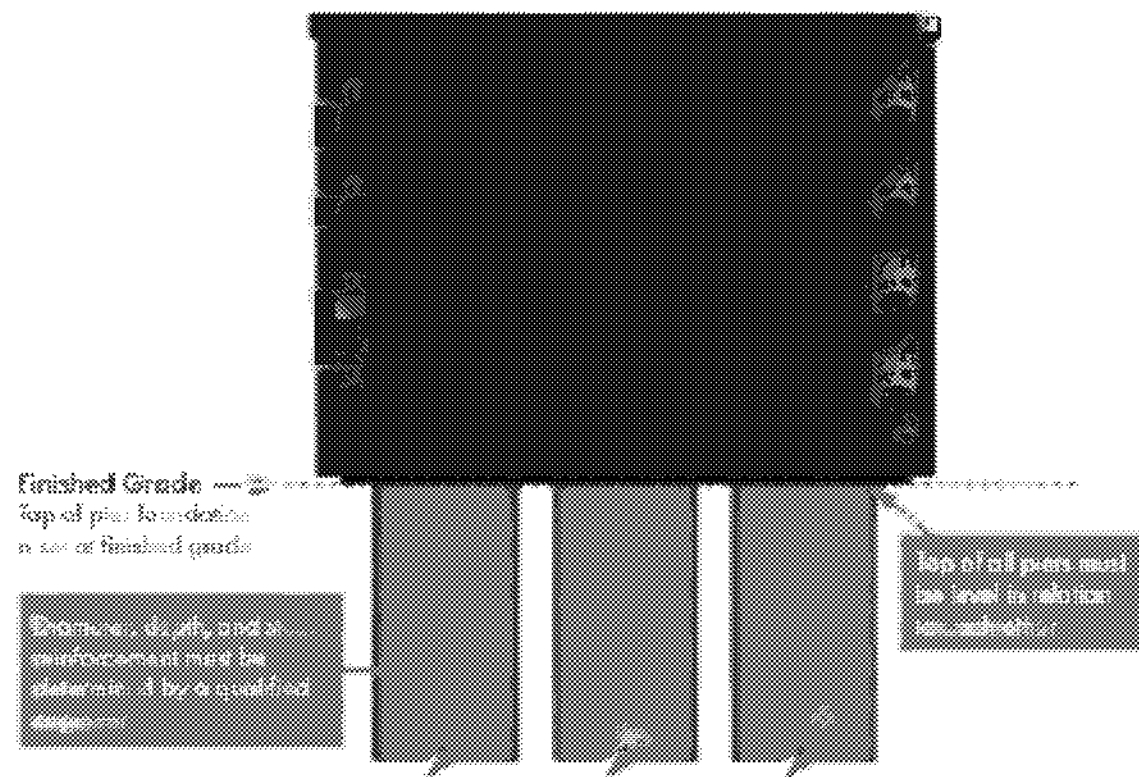


CANTERBURY

CONCRETE PIER FOUNDATION



Shown is a concrete pier foundation. Holes are augered into the ground, heavy cardboard forms (Sonotube) are placed into the holes, rebar is added and concrete is poured. This reduces extensive excavation and minimizes disturbance of the entire site.

This foundation is used in colder climates where a footing below the frost depth is required or wherever soil conditions require a deep footing.

Please note that this is our suggestion for your foundation. This must be verified by a qualified engineer to comply with your local building codes and soil conditions.

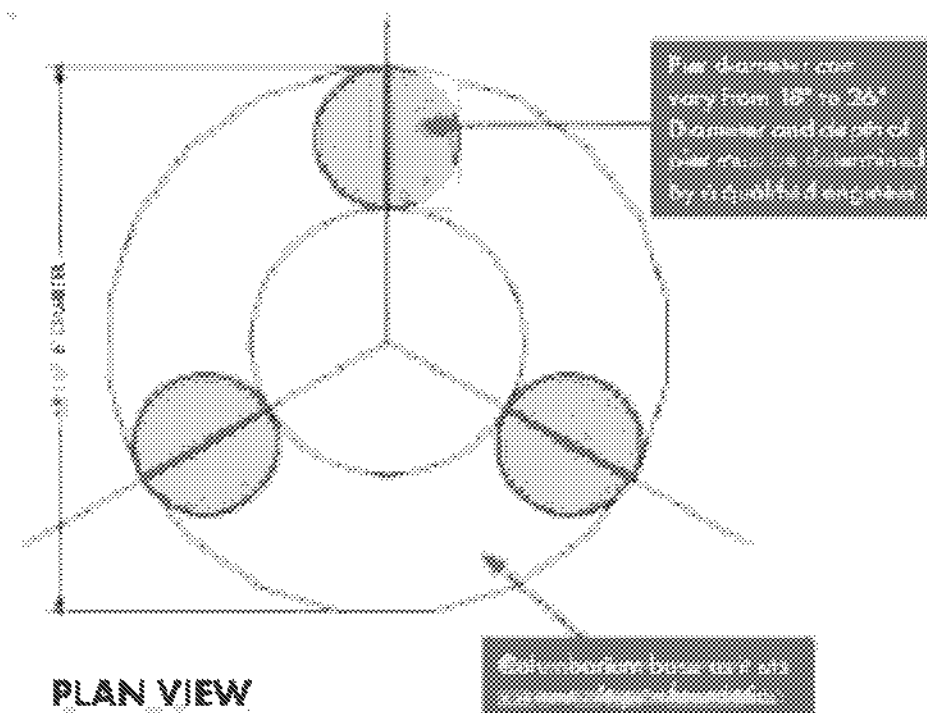


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	MODEL	MODEL HEIGHT (APPROXIMATE)	MODEL WEIGHT* (APPROXIMATE)	WEIGHT WHEN FULL* (APPROXIMATE)
COLUMBARIA	80 Niches	5'-0"	7,000 lbs.	8,700 lbs.
	100 Niches	6'-0"	7,400 lbs.	9,300 lbs.
	120 Niches	7'-0"	7,800 lbs.	10,400 lbs.
COLUMBARIA	80 Niches	6'-0"	7,400 lbs.	10,700 lbs.
	100 Niches	7'-0"	7,800 lbs.	11,000 lbs.
	120 Niches	8'-3"	8,300 lbs.	13,300 lbs.

*Add 2,000 lbs. if model has a heavy base and thick exposure. See approved drawings.



PLAN VIEW

Qualified Engineer Must Verify:

- Pier diameter
- Pier depth
- Steel reinforcement

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Project: Loveland Ossuarium
Larsen Structural Design Job Number: 2645

International Building Code; IBC 2021 Edition, except as noted
Risk Category: Table 1604.5 II Standard

Refer to soils report no. 15-0018 by Ground Engineering dated August 5, 2015.
Soils engineer shall verify soil conditions and types during excavation and prior to concrete placement.

Design is based on "Building Code Requirements for Structural Concrete"(ACI 318-19). Concrete work shall conform to "Standard Specifications for Structural Concrete" (ACI 301-20).

Concrete mix designs shall be submitted to the engineer of record no less than 15 working days prior to the commencement of pouring. Water cement ratios shall in no case exceed 0.45. Slump of concrete shall be specified by the concrete sub-contractor to provide adequate workability and finishing of the concrete being placed. No concrete admixture containing calcium chloride shall be permitted in any concrete.

Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the "Guide to Presenting Reinforcing Steel Design Details (ACI 315R-18).

Reinforcing bars shall conform to ASTM A615, Grade 60.

Except as noted on the drawings, concrete protection for reinforcement in cast-in-place concrete shall be as follows:

- | | |
|--|--------|
| a. Cast against and permanently exposed to earth | 3" |
| b. Exposed to earth or weather: | |
| #5 bar and smaller | 1-1/2" |

Concrete shall not be placed until reinforcing and embedded items have been inspected by a qualified special inspector employed by the owner in accordance with IBC Section 1704 and 1705.3.