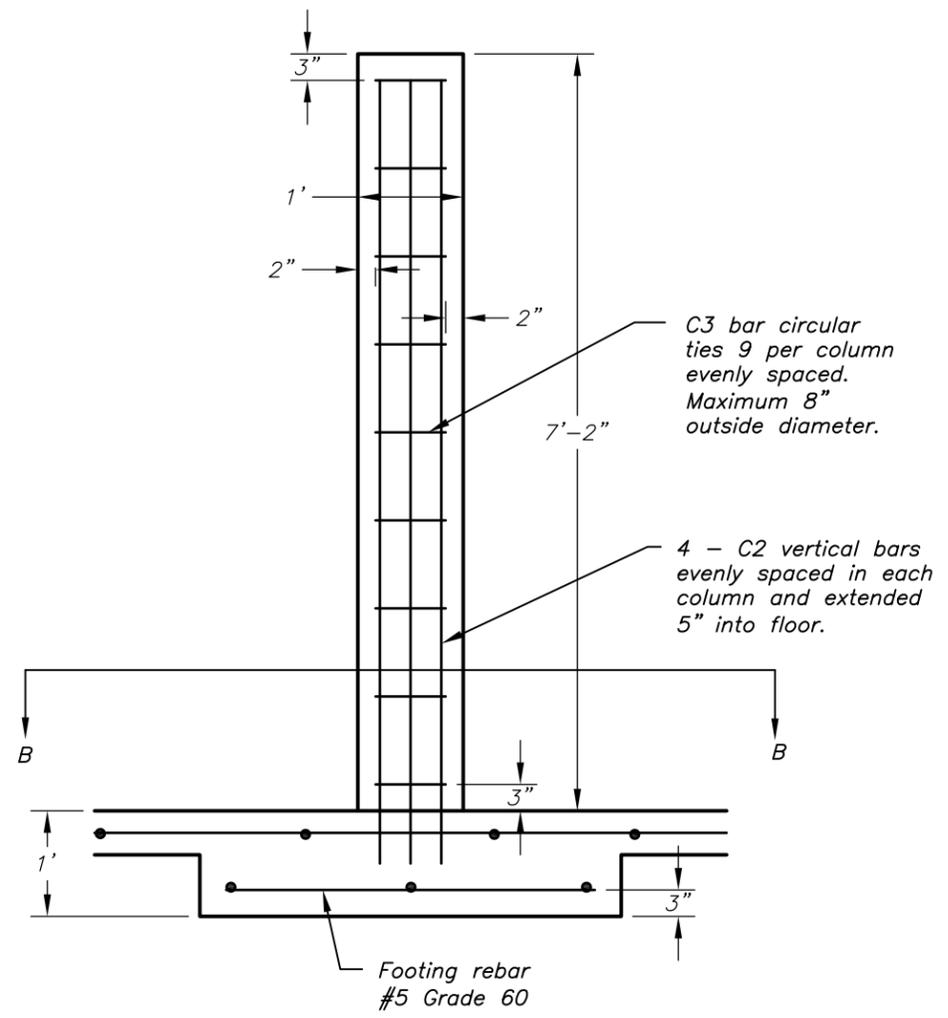
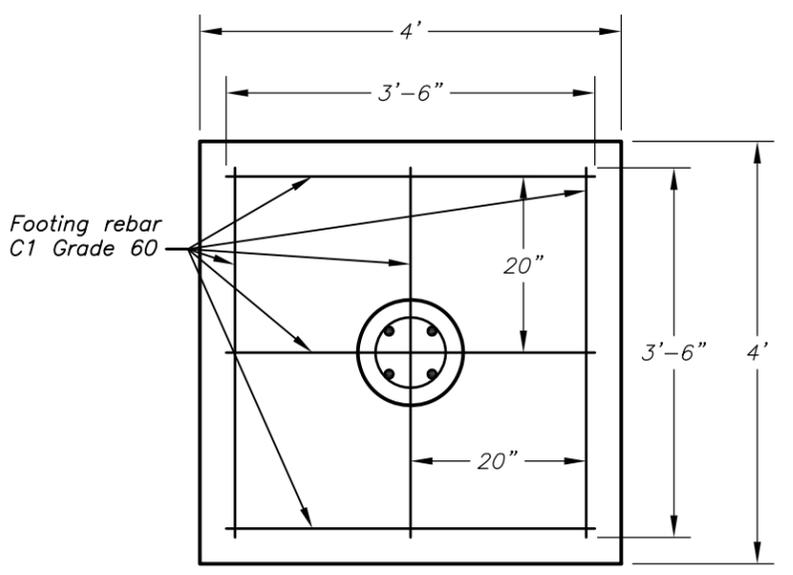


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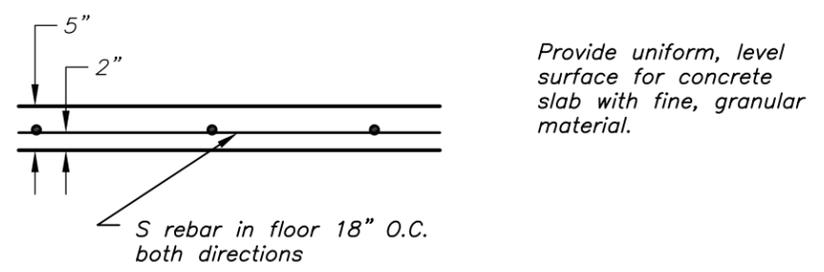


ROUND COLUMNS AND FOOTINGS

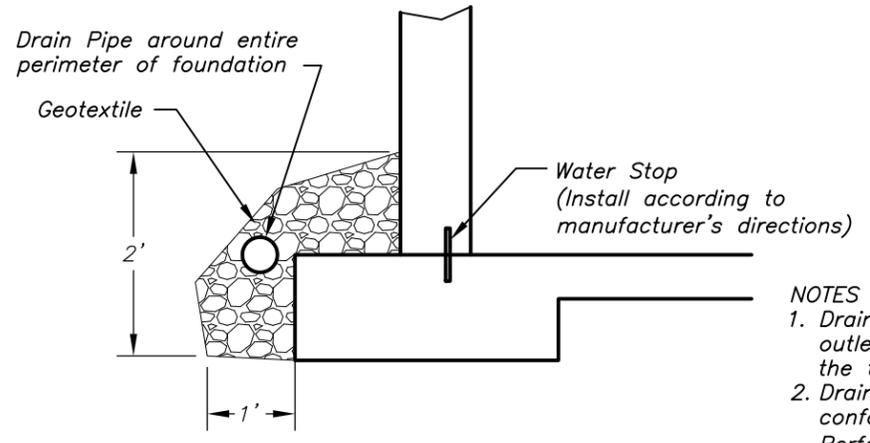


PLAN VIEW COLUMN AND FOOTING SECTION B-B
Pit floor not shown for clarity

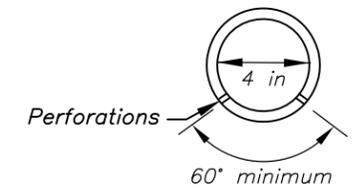
Revised 2/11



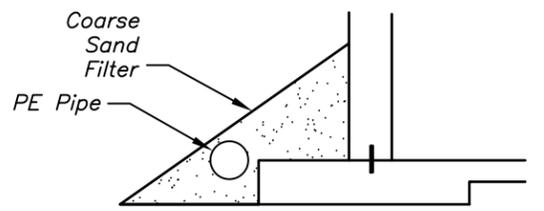
FLOOR DETAIL WITH #4 REBAR



**FOUNDATION DRAIN - PVC
TYPICAL CROSS SECTION**

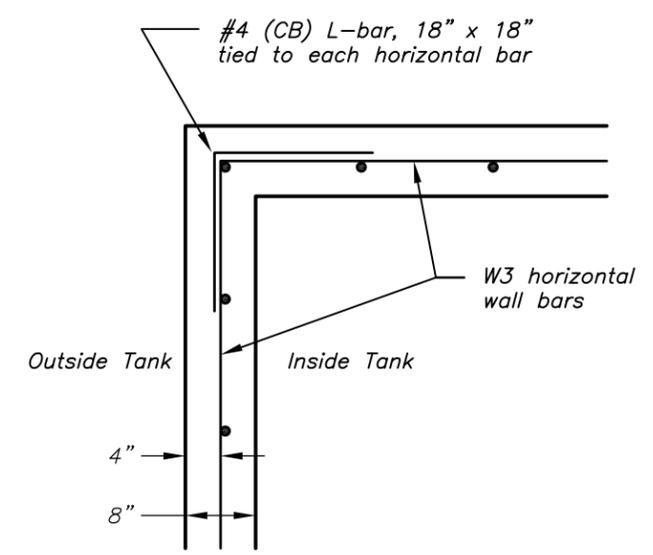


TYPICAL PVC DRAIN PIPE DETAIL



POLYETHYLENE PIPE OPTION

- NOTES for Polyethylene (PE):**
1. Drain pipe is to be routed around the wall and to a protected outlets such that the ground water level is not any higher than the top elevation of the footing.
 2. Foundation Drain pipe shall be corrugated polyethylene (PE) pipe meeting ASTM F405 or AASHTO M252.
 3. Fabric will be installed on pipe. Spunbound fabric shall weigh at least 0.8 oz/sy, knitted fabric shall weigh at least 3 oz/sy. Flow rate through fabric shall be at least 100 gpm/sf.
 4. Drainfill shall be clean, well graded coarse sand (concrete sand) meeting ASTM C33 for fine aggregates. A minimum of 12 inches of sand cover all around pipe will be provided to outlet.



CORNER DETAIL FOR TANK

- NOTES for PVC:**
1. Drain pipe is to be routed around the wall and to a protected outlets such that the ground water level is not any higher than the top elevation of the footing.
 2. Drain pipe shall be 4 inch diameter SDR 35 PVC pipe conforming to ASTM D1785 or equivalent plastic pipe. Perforations shall be 1/4 inch diameter in two rows separated by an arc of not less than 60°. Opening area shall be greater than 0.22 square inch per lineal foot. Perforations shall be clean cut and free of obstructions.
 3. Geotextile shall be nonwoven with an apparent opening size from 0.2 to 0.4 millimeters and permeability greater than 50 gallon per minute per square foot. Fabric weight shall be a minimum of 6 ounce per square yard.
 4. Drainfill shall be clean, well graded gravel with maximum size of 3 inches and less than 5 percent finer than 200 sieve size.

DRAFT
NOT FOR
CONSTRUCTION

| | |
|----------|--|
| Date | |
| Designed | |
| Drawn | |
| Checked | |
| Approved | |

**ROUND COLUMN AND REBAR PLACEMENT DETAIL
CONCRETE PIT WITH PRECAST SLATS**

United States Department of Agriculture
Natural Resources Conservation Service

File Name

Drawing Name
29-N-608

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