Mini Storage Foundations
Monolithic Foundation

4” thick Concrete Slab with Wire Mesh

Crushed Stone Base

#4 Re-Bars Continuous

Optional Ridged Foam Insulation to Create FPSF (Frost Protected Shallow Foundation)

Notch where doors & wall panel are located to keep water from seeping in

The notch in the foundation helps prevent water from seeping into the building.

9 1/2" x 1 1/2" Notch - rollup doors are located

1 1/2”x1 1/2” Notch - wall panel located (no doors)

TYPICAL PERIMETER FOUNDATION SECTION
(MONOLITHIC CONCRETE PLACEMENT)

NOT TO SCALE

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SAMPLE FOUNDATION PLANS ONLY
Do not use for construction. Your actual foundation design will vary depending on your location, soil conditions and local building codes. Foundation design cost is not included in the building material pricing unless specifically listed.

STRUCTURAL NOTES

STRUCTURAL GENERAL NOTES AND SPECIFICATIONS:

DIVISION 01 — GENERAL
1. The Engineer of Record only assumes responsibility for that which was prepared by the Engineer of Record.
2. Refer to Structural Cover Sheet for applicable structural codes.
3. The structure shown on these drawings is structurally sound only in its completed form. The contractor shall place all earth, forms, concrete, steel, wood, masonry, to resist gravity, earth, wind and construction loads during construction.
4. Contractor shall exercise proper precaution to verify all existing conditions and layout or work, immediately notify Engineer of any discrepancies. Contractor is responsible for any error resulting from failure to exercise such precaution.
5. Any discrepancies, errors or omissions discovered in the contract documents shall be brought to the attention of the Engineer before proceeding with related work. Otherwise, the correction of such items is the responsibility of the contractor and/or subcontractor.
6. Where a detail, typical detail, section, typical section or notation is shown for one condition, it shall apply for all like or similar conditions unless otherwise noted.
7. Should structural conflicts occur effecting fit-up of structural material, contractor shall notify engineer. Under no circumstances should structural material be modified to accommodate fit-up without the engineer's approval.

DIVISION 02 — CONCRETE
Foundation Criteria:
1. Interior column footings have been designed for placement on original, undisturbed soil or compacted fill material of 1500 PSI minimum bearing capacity.
2. All fill areas shall be cleared and graded to installation of structural frame material to 15% Standard Proctor. Automotive leveling may be used to facilitate level grading at time of dirt work.
3. The remaining 12" below the slab shall be compacted to 95% Standard Proctor. Parking areas shall be compacted to a minimum of 90% Standard Proctor. Any engineered structural fill shall be placed in 8" lifts, maximum.
4. All concrete construction shall conform to ACI 301, Specifications for Concrete Structures, ACI Building Code 318, ACI 302 and Guide for Concrete Floor and Slab Construction ACI 302.1R.
5. When hot or cold weather conditions exist during placement and curing of concrete that would impair the quality and strength of concrete, special measures shall be taken as specified in ACI 305 "Hot Weather Concreting" and ACI 306 "Cold Weather Concreting."
6. Structural concrete shall be as follows, unless otherwise noted. 28 day minimum compressive strength:
   a. Footings & Foundations: 3500 PSI
   b. Floor Slab: 3500 PSI
   c. Slump obtained shall be 3" (+/- 1) Concrete for masonry filled cells may be placed with 6" to 11" slump.
8. Reinforcing steel shall conform to ASTM A615, grade 60, and ASTM A616.
9. Unless otherwise noted, reinforcing lap splices shall be ACI Class B splices using the following lap lengths:
   a. 4" splices
   b. 8" splices
   c. 16" splices
10. All welded reinforcing steel shall be ASTM A708 and be free of oil, scale, and rust. Welding of bars shall conform to AWS/D1.1 "Structural Welding Code — Reinforcing Steel."
11. Wire mesh shall conform to ASTM A185; minimum lap to be 6 inches.
12. Provide corner bars at corners of concrete walls and footings. Size and spacing of bars shall match size and spacing of longitudinal bars in walls or footings.
13. Concrete slab and design criteria shall be as noted on the structural plans.
14. Place 6 mil (nom.) polyethylene vapor barrier under all building slabs on grade, ab 12" minimum.
15. Slabs on grade shall be placed using strip placement. Sawed joints (noted as SJ, foundation plan) shall be cut as soon as possible after slab is able to support weight of saw and shall be cut without raveling. Sawing shall be performed within 4 to 12 hours and absolutely before 24 hours has passed from time of first placement. Saw joint nearest midpoint of strip first and then half-way between cuts next.
16. Unless noted otherwise, minimum clear cover for reinforcement shall be as follows:
   a. concrete cast against earth — 3"
   b. formed concrete exposed to earth or weather — 1 1/2" for #5 bars and smaller, 2" for #6 bars and larger.
17. Immediately upon final troweling of slabs, coat with curing compound which meets or exceeds ASTM C-309 "Liquid Membrane-Coating Compounds for Curing Concrete."
   a. Coverage shall be no less than 1 gallon per 160 square feet of slab area or more if recommended by curing compound manufacturer (minimum of 4 to 10 mils thick).
   b. Floors shall be finished to 77 3/4" and FL 25, minimum.
18. Do not acid wash or other surface compounds to concrete without specific authorization by Structural Engineer. In no case shall acid wash exceed 1 percent.
19. Use Portland Cement Type I or II conforming to ASTM C150-02. Aggregate shall be normal weight conforming to ASTM C-33.
20. For every vertical or horizontal bar discontinued by an opening, one bar (min. of two bars) shall be added at the edge of the openings. Slabs at corners of openings, cutouts and penetrations shall be reinforced with 2 - #4 (5" 0") diagonals unless otherwise noted.
21. Pipe, ducts, conduits, etc., shall not be placed in slabs unless approved by the engineer. (Place all pipes below slab)
22. Concrete exposed to weather shall be air-entrained 3.0% to 5.0% Interior slabs shall have air content of 0% to 3% maximum.
GENERAL NOTES:
Concrete:
As per IBC '09 and ACI - 318

Loads:
Live Load = 125 p.s.f. (slab)
Dead Load = 50 p.s.f. (slab)

Slab is 4" thick resting on 4" Granular Fill Reinforced with Fiber Mesh or W.W.F.

Design Strength: f_c = 3500 p.s.i.

Minimum Cover:
Cast against earth = 3"
Exposed to earth or weather = 2"
All other reinforcement = 1/2"

Reinforcement:
f_y = 60,000 p.s.i.
All laps shall be 48 x bar @ u.n.a.
#3 - 18'
#4 - 24'
#5 - 30'
#6 - 36'

Soils:
Allowable Bearing = 1500 p.s.f.
FOUNDATION PLAN
SCALE: N.T.S.

GENERAL NOTES:
Concrete:
As per IBC '09 and ACI - 318

Labs:
Live Load = 125 p.s.f. (slab)
Dead Load = 50 p.s.f. (slab)

Slab is 4" thick resting on 4" Granular Fill Reinforced with Fiber Mesh or W.W.F.

Design Strength: f_c = 3500 p.s.i.

Minimum Cover:
Cast against earth = 3"
Exposed to earth or weather = 2"
All other reinforcement = 1/2"

Reinforcement:
y_t = 60,000 p.s.i.
All laps shall be 48 x bar @ u.no.

Soils:
Allowable Bearing = 1500 p.s.f.
GENERAL NOTES:
Concrete:
As per IBC '09 and ACI - 318

Loads:
Live Load = 125 p.s.f. (slab)
Dead Load = 60 p.s.f. (slab)

Slab is 4" thick resting on 4" Granular Fill Reinforced with Fiber Mesh or W.W.F.

Design Strength: f_c = 3500 p.s.i.

Minimum Cover:
- Cost against earth = 3"
- Exposed to earth or weather = 2"
- All other reinforcement = 1½"

Reinforcement:
f_y = 60,000 p.s.i.
- All bars shall be 48 x bar Ø u.n.o.
- #3 = 18"
- #4 = 24"
- #5 = 30"
- #6 = 36"

Soils:
- Allowable Bearing = 1500 p.s.f.

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FOUNDATION PLAN
SCALE: N.T.S.