

GENERAL STRUCTURAL NOTES

- A1. All work shall conform to the requirements of the International Building Code (2003 IBC) and other codes having jurisdiction.
- A2. The structural design of the building is based on the full interaction of all its component parts, including all reinforcing concrete. No provision has been made for any temporary conditions that may occur during construction. The contractor shall be responsible for the design and construction of all forms, shoring and temporary bracing during the progress of the project.
- A3. The information shown on the structural drawings is intended for this project only and shall not be used for any other purpose. Changes to structural documents (including notes, details, plans, and specifications) shall not be made without written approval from Price Structural Engineers, Inc. (PSE).
- A4. Contractor shall provide experienced jobite supervision to ensure that components are installed in accordance with the structural drawings and standards of quality workmanship.
- A5. The structural documents for this project (including notes, details, drawings, and specifications) are independent documents. Use of some but not all of the structural documents or changes to one structural document without the written approval of PSE is not permitted.
- A6. Proposed openings through structural components are shown on these drawings. The Contractor shall be responsible for the design and construction of all forms, shoring and temporary bracing whether or not shown on the structural drawings, and shall verify size and location of all openings. Drawings shall be brought to PSE's attention for approval.
- A7. Alternate connection details may be used if each detail are submitted to PSE for review and approval. The contractor shall be responsible for the design of any alternate details shown on the drawings. The contractor shall be responsible for the design of any alternate details which he proposes.
- A8. Work not indicated on a part of the drawings but reasonably implied to be similar to that shown at corresponding places, shall be included. Do not scale from drawings.
- A9. The contractor shall be completely responsible for the safety of adjacent structures, property, and the public. The contractor shall comply with all Federal, State, and Local requirements.
- A10. All contractors are required to examine the drawings and specifications carefully, visit the site and fully inform themselves as to all existing conditions and limitations, prior to submitting their proposals. The contractor shall be responsible for the design of any alternate details or performing any work in accordance with drawings and specifications (with no additional cost to the Owner).
- A11. Except where noted on the structural drawings, see architectural drawings for dimensions and locations of new materials.
- A12. Where conflicts exist between codes, specifications, or drawings, the more stringent requirements shall govern. Notify PSE immediately when such conflicts are discovered.
- A13. Fire code provisions are not included on structural drawings. Coordinate fire code requirements with owner, code official, and architect. See other project documents for requirements.
- A14. Substitutions for specified manufactured materials shall not be made without written approval from PSE. Manufactured materials shall be installed in accordance with manufacturer's requirements and recommendations.
- A15. Stored material shall be stacked on pallets in a manner that prevents distortion or damage, covers the top, covered and kept in a dry condition. New materials shall be installed promptly, upon receipt.
- A16. PSE has performed the structural design of the structural components only for this project, on the basis of the information provided. The contractor shall be responsible for the design of any non-structural features including the protection, ADA disability access, drainage, emergency egress, fire protection, or any other electrical, mechanical, plumbing, or other systems, including environmental features.
- A17. At areas where existing structural components are unworked and found to be inadequate, the contractor shall either properly reinforce the components or contact the Engineer (PSE) for the structural design of the modifications.
- A18. Details indicating existing conditions are based on assumptions, some of which have not yet been verified. It is critical that the contractor verify actual existing conditions prior to performing any work. The contractor shall be responsible for the design of any alternate details other than those indicated on the structural details.

REINFORCING FOR CONCRETE

- D1. All concrete reinforcing bars shall conform to ASTM A615, Grade 60 except where noted. All reinforcing bars to be welded shall conform to ASTM A706.
- D2. All welded wire fabric (W.W.F.) shall conform to ASTM A-185. W.W.F. shall be provided in flat sheets.
- D3. Provide all necessary accessories to hold reinforcing securely in position. Reinforcement supports shall be spaced not more than 4'-0" on center and shall consist of pre-manufactured chairs.
- D4. All lugs in W.W.F. shall be 1 1/2" mesh spaces or 1'-0", whichever is larger, and shall be wired together.
- D5. Reinforcing bars may not be welded except where designated by the structural engineer.
- D6. Concrete protection for reinforcement shall be provided as follows (UN):
 - a. Surfaces cast against and permanently exposed to earth 3 inches (clear)
 - b. Formed surfaces exposed to earth or weather
 - #5 Bars through #18 Bars 2 inches
 - #5 Bars and smaller 1 1/2 inches
 - c. Formed surfaces not exposed to earth or weather
 - Slabs, walls, joists 3/4 inch
 - Beams, columns (including stirrups and ties) 1 1/2 inches
- D7. See ACI 318 for conditions not listed.
- D8. All hooks shown on drawings shall be standard hooks unless noted otherwise. Rotate hooks where necessary to provide adequate concrete cover.
- D9. Where continuous bars are called for, they shall run continuously around corners and lapped at ends and development lapped. Lap beam top bars at mid-span and beam bottom bars at supports, unless noted otherwise.
- Minimum lap splice for #4 and #5 bars shall be 2'-0" (UN).

FOUNDATIONS

- B1. No foundations shall be placed in water or on frozen ground.
- B2. All footing excavations are to be finished by hand. All finished foundation excavations shall be inspected by the project foreman before any concrete is placed. Backfill surfaces shall be swept and compacted to meet the minimum bearing capacity of the soil.
- B3. Structural fill below slabs adjacent to foundation walls and fill below footings shall conform to 3005/105.00 Type B soils, adjacent to foundation walls and fill below footings shall conform to SCREEN OR SIEVE SIZE PERCENT FINER BY WEIGHT

100%	4 inch	
90% - 100%	1/4 inch	
25% - 90%	No. 40	
0% - 30%	No. 200	
0% - 5%		No. 200
- B4. Structural fill shall be compacted in 6" (150mm) lifts (loose measurement) to 95% of its maximum dry density in accordance with ASTM D1557. Hand tamping equipment shall be used to compact density in confined areas and adjacent to basement using 6" lifts (loose measurement).
- B5. Cracked stone shall consist of clean angular fragments of quarried rock with uniform quality and uniform to MDOT 703.22 Type C. Maximum stone size shall be 1".
- B6. Unless otherwise noted, all foundation units shall be centered under supported members.
- B7. Where foundation elements are to have fill, both sides, each side shall be filled and compacted in 6" lifts to a minimum depth of 12" above the compacted fill on one side of the foundation does not exceed more than 12" above the compacted fill on the other side.
- B8. Contractor shall provide continuous drainage by mechanical methods to control surface and underground water as required during construction, so that all excavations are dry. Water level shall be maintained at 12 inches below bottom of excavations of all times.
- B9. All holes in foundation walls shall have plastic sheeps. Coordinate size and locations of sheeps prior to placing concrete. Sheeps larger than 10" diameter shall have additional (2) #4 x 5'-0" bars on 4 sides of sheeps.
- B11. Shoring, bracing, or shoring used to provide lateral support of excavations shall remain in place until all permanent structural systems of all below ground level are complete.
- B12. Pipes shall not pass under or through footings. Lower wall footings by stepping to avoid interference (see typical stepped detail).
- B13. Contractor shall take necessary precautions to avoid disturbing existing wall beneath footings. As a minimum, a smooth edge bucket shall be used for excavation of these areas.
- B14. When excavating utilities which may exist below grade, the contractor shall take the necessary precautions to avoid disturbing existing utilities which may exist below grade.
- B15. Footings shall not bear on bedrock if bedrock slope exceeds 4:1 (Horizontal: Vertical) unless footing is pinned to bedrock surface with #4 rebar @ 2' c/c. Provide 90° hook in rebar at top. 5' embedment into bedrock, and use ordinary cement approved by PSE.

CONCRETE

- E1. All concrete work shall conform to the latest edition of the ACI Building Code (ACI 318). The contractor shall be responsible for the design of any alternate details other than those indicated on the structural drawings.
- E2. For location listed below concrete shall have 3/4" aggregate, 4" to 4 1/2" slump, Type 1 or II ASTM C-150 Portland Cement and designated compressive strength (f'c) in 28 days as follows:

Location	f'c (psi)	Air Entrainment	Polypropylene Fibers	Max. Water-Cement Ratio
Footings, Walls, Foundation Walls, Piers	3000	None	None	.51
Interior Slabs on Grade (UN)	4000	4% min.	1.5 lb/yd ³ min.	.42
Exterior Slabs on Grade	3000	4% - 7%	None	.51

- E3. Water quantity shall not exceed specified medium water/cement ratio. Quantity of water added of ready mix port shall be indicated on the delivery slip for each truck.
- E4. A "Foundation wall" shall be considered a "retaining wall" if final grade elevation on one side of wall is more than 15 inches above the final grade on the opposite side of wall.
- E5. All footings shall be placed monolithically. See typical details for construction joint requirements.
- E6. Pipes or conduits placed in slabs on grade shall not be placed closer than 3 diameters on center and shall have an outside diameter less than 1/2 of the slab thickness.
- E7. All exposed edges of concrete members shall be finished 3/4" unless shown otherwise on drawings.
- E8. See architectural drawings for door and window openings, steps, walkways, ramps, concrete finishes, masonry openings, and for miscellaneous exterior pipes, conduits, conduits, conduits, etc. Refer to architectural drawings and specifications for details.
- E9. Caddis, aluminum or copper components shall not be placed in concrete. No conduits shall be placed in slabs.
- E10. Embedments in concrete, including anchor bolts for columns, shall be firmly secured by the wire (mechanically) to prevent movement during concrete placement. Welding of embedments is not permitted.
- E11. All concrete materials, reinforcement and forms shall be free from frost or debris.
- E12. Concrete shall be maintained above 50 degrees F, and in moist condition for at least the first 72 hours after placement. The contractor shall be responsible for the design of any alternate details other than those indicated on the structural drawings.
- E13. Consolidate all concrete with a vibrator or other means recommended by ACI 301. Honeycombed surfaces will not be permitted.
- E14. See architectural drawings for locations of floor drains. Slope slabs uniformly to drains (UN).
- E15. Control joints in slabs on grade are mandatory. See typical details. Control joints in foundation walls, basement walls, and retaining walls are mandatory. See typical details.
- E16. Coordinate concrete finish on floor slabs with owner's requirements and specifications.
- E17. Concrete slabs, including those on steel deck, shall be placed so that slab thickness equals or exceeds that shown on drawings. Reinforcing bars shall be placed so that they are fully supported by beams or trusses with concrete.
- E18. Length of time to cure concrete slabs and materials applied to slab surfaces shall be compatible with floor finishes.
- E19. Slabs on grade shall contain ASTM C919, Type III, #2 - 1 1/2" long polypropylene fibers at a rate of 1.5 pounds (0.75 kg) per cubic yard (1.35 kg/m³) unless otherwise specified.
- E20. Surfaces of concrete construction joints, including exposed reinforcement, shall be cleaned and prepared in accordance with ACI 308.1R. The contractor shall be responsible for the design of any alternate details other than those indicated on the structural drawings.
- E21. Depth of concrete specified of slabs on grade and elevated slabs is a minimum. Add additional existing hardened concrete surface has been moistened (without standing water).
- E22. Isolating joints in separate slabs shall be 3/8" thick, galvanized, closed, call from joint material concrete to level slab surfaces up to a maximum of 3/4"-inch more than specified slab depth, and top 1/2" of joint shall contain sealant with bonded joint surface.
- E23. Max Range Protector may be added for pumping provided it is under the direct oversight of the contractor.

ROUGH CARPENTRY

- C1. Lumber shall have the grade and trademark of the association under whose rules it is produced and shall be free from knots, splits, checks, warps, and other defects. Lumber shall be 2" minimum content not exceeding 18% and surfaced four sides.
- C2. Pressure Treated (PT) lumber shall be Southern Yellow Pine (SYP), Number 1 grade.
 - a. Except as noted above, lumber (including lumber used for studs, beams, brails, wall plates, joists, king studs, and columns and blocking) shall be No. 2 grade SYP.
 - b. Lumber and roof to greater applications, at sill, or girders and in contact with concrete and other masonry shall be treated with preservative with a minimum kiln radiation of 0.40 gpd (gpd).
- C3. All fasteners (including nails, lag screws, and bolts) for pressure treated lumber shall be hot-dip galvanized. If ACP preservative is used, fasteners shall either be stainless steel or be clearly galvanized as having a 0.785 galvanized coating and just / beam hangers shall have additional galvanized studs for ACP.
- C4. Out ends of pressure treated lumber and timber posts and sills shall be dipped in a preservative solution. The contractor shall be responsible for the design of any alternate details other than those indicated on the structural drawings.
- C5. Fabricate horizontal and inclined members, units of less than 1:1 slope, with natural corner bow (crown) up to provide camber.
- C6. Use a minimum 3-ply, 3/4" thick, 4-ply, 1/2" thick, 5-ply, 1/2" thick, 6-ply, 1/2" thick, 7-ply, 1/2" thick, 8-ply, 1/2" thick, 9-ply, 1/2" thick, 10-ply, 1/2" thick, 11-ply, 1/2" thick, 12-ply, 1/2" thick, 13-ply, 1/2" thick, 14-ply, 1/2" thick, 15-ply, 1/2" thick, 16-ply, 1/2" thick, 17-ply, 1/2" thick, 18-ply, 1/2" thick, 19-ply, 1/2" thick, 20-ply, 1/2" thick, 21-ply, 1/2" thick, 22-ply, 1/2" thick, 23-ply, 1/2" thick, 24-ply, 1/2" thick, 25-ply, 1/2" thick, 26-ply, 1/2" thick, 27-ply, 1/2" thick, 28-ply, 1/2" thick, 29-ply, 1/2" thick, 30-ply, 1/2" thick, 31-ply, 1/2" thick, 32-ply, 1/2" thick, 33-ply, 1/2" thick, 34-ply, 1/2" thick, 35-ply, 1/2" thick, 36-ply, 1/2" thick, 37-ply, 1/2" thick, 38-ply, 1/2" thick, 39-ply, 1/2" thick, 40-ply, 1/2" thick, 41-ply, 1/2" thick, 42-ply, 1/2" thick, 43-ply, 1/2" thick, 44-ply, 1/2" thick, 45-ply, 1/2" thick, 46-ply, 1/2" thick, 47-ply, 1/2" thick, 48-ply, 1/2" thick, 49-ply, 1/2" thick, 50-ply, 1/2" thick, 51-ply, 1/2" thick, 52-ply, 1/2" 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