

Concrete Structures: General Requirements

1. Purpose

This specification covers construction requirements for cast-in-place concrete slabs used in areas where two separate pads (such as a capacitor pad and a manhole pad) share a common area.

2. General

1. All construction work is subject to inspection and testing. If the slab does not meet all Requirements or exhibits poor workmanship, the NVE inspector shall reject it.
2. All references to Clark County (CC) pertain to "Uniform Standards Specifications for Public Works Construction Off-Site Improvements," Clark County Standard Specifications, latest edition.
3. Base Preparation:
 - A. All aggregate base and sub-base preparation must conform to CC Section 302, "Aggregate Base Courses".
 - B. The pad shall be placed on a minimum 4" type II gravel base, 90% compacted. The base material shall be placed on soil compacted to 95% density.

3. Concrete

All concrete must conform to Clark County Section 501 "Portland Cement Concrete". Only Class B concrete using Type V "low alkali" cement shall be used unless otherwise specified by NVE. The aggregate range size is 1.5 inch maximum through $\frac{3}{4}$ inch minus ($1.5" - \frac{3}{4}"$). It must have a minimum of 6 sacks of cement per cubic yard with a sump range of 4-5 inches and shall attain a 28 day minimum compressive strength of 3000 psi.

4. Reinforcement

1. The concrete slab for a precast structure shall be reinforced with:
 - A. A welded wire fabric (mesh) 6x6 W1.4 for a slab wider than 10".
 - B. A #3 rebar centered in and paralleled to each side of the structure if the slab is less than 10" wide.
2. The concrete cover in all directions from the reinforcement shall be a minimum of 1-3/4".

5. Control Joint

1. A weakened plane joint is required every 5 feet in the Long Opening direction (refer to the appropriate RS drawings' plan view).
2. The joint shall be constructed as illustrated in Figure 1.

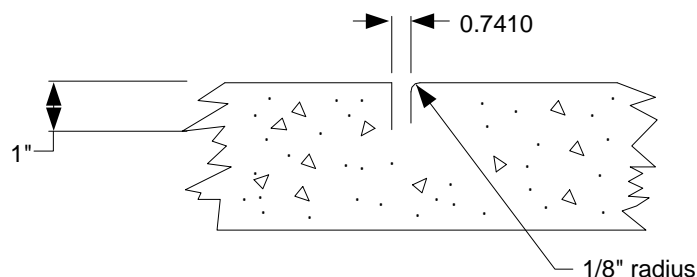


Figure 1 Weakened Plane Joint

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6. Structure

1. The pad must conform to CC Section 502. "Concrete Structures". The top surface of the must be true, even, and finished to final grade.
2. If a gap exists between the sidewalk and the pad, it must be filled in with concrete and finished as specified in Figure 2.

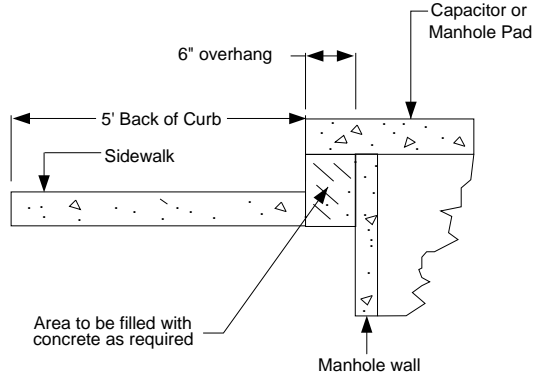


Figure 2 Detail of fill area

7. Finish

Exposed surfaces shall have a uniform steel trowel (or other suitable means) and light broomed finish. All outer edges must have a 1/2" bevel or radius. The finish must meet CC Section 501.03.17, "Ordinary Surface Finish" requirements.

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