

CURB INLET

Not To Scale

DATE: September, 1987 DESIGN BY: M.J. H. PRAWN BY: M.J.H GEORGE BUTLER ASSOCIATES, INC. PROJECT NO.: 4968 Engineers / Architects / Landscape Architects / Planners Kansas City, Mo. / Lenexa, Ks. / O'Fallon, Mo. / Ames, la. / Oklahoma City, Ok. STORM SEWER DETAILS MISC DETAILS BY DATE REVISIONS Note: Toewalls To Be Placed @ All Geraldi Upper & Lower Terminations of The Paved Ditch. Hurlberg

*, V Bottom Swales Are To Be The Same General Type Of Construction (As Per General Notes), But Constructed W/o A Flat Bottom. See Plan & Intersection Details.

GENERAL NOTES.

- 1. Concrete shall develop a minimum compressive strength of 3500 psi at 28-day test. The concrete shall have a minimum of 550 pounds of cement per cubic yard regardless of strength obtained, a maximum of 6.5 gallons of water per 100 pounds of cement, and a slump not to exceed 4".
- 2. Concrete shall be air-entrained with 6% + 1% air entrainment.
- 3. All concrete is reinforced unless specifically noted as unreinforced.
- Reinforcing bars (except ties) shall meet ASTM A615 with Supplementary Requirements (S1), Grade 60.
- 5. Welded wire fabric shall conform to ASTM A-185.
- 6. Welded wire fabric shall have end and edge laps of one full mesh plus 2" between cross wires. Wire all laps securely together.
- Reinforcement shall be free of loose or flaky rust and mill scale, or coating, including ice, and any other substance that would reduce or destroy the bond.
- Reinforcement shall be supported on precast concrete units or chairs spaced at intervals required by size of reinforcement used.
- Concrete shall be handled from mixer to transport vehicle to place of final deposit in a continuous manner, as rapidly as practicable, and without segregation or loss of ingredient until the approved unit of operation is completed.
- 10. Immediately after placing, each layer of concrete shall be shall be compacted by internal concrete vibrators supplemented by handspading, rodding, and tamping. Vibrators shall be applied at uniformly spaced points not farther apart than the visible effectiveness of the machine.
- 11. Surface of all slabs and runners shall be screeded and floated to the required finish level with no coarse aggregate visible. After the surface moisture has disappeared and laitance has been removed, surfaces shall be steel troweled to an even, smooth finish. The troweled surfaces shall be broomed with a fiber-bristle brush in a direction transverse to that of the main traffic. All exterior walking/driving surfaces to receive broom finish.
- 12. Curing: Concrete shall be protected against moisture loss, rapid temperature change, mechanical injury, and injury from rain or flowing water for 7 days by using a membrane forming curing compound. Curing activities shall be started as soon as free water has disappeared from the surface of the concrete after placing and minishing.
- 13. The membrane-forming curing compound shall be applied on damp surfaces as soon as the moisture film has disappeared. The compound shall be applied in a two-coat, continuous operation at a coverage rate as recommended by the manufacturer. When application is made by hand sprayers, the second coat shall be applied in a direction approximately at right angles to the direction of the first coat. The compound shall form a uniform, continuous, adherent film that shall not check, crack or peel, and shall be free from pinholes or other imperfections. Surfaces subjected to rainfall with 3 hours after compound has been applied, or surfaces damaged by subsequent construction operations within the curing period shall be immediately resprayed at the rate specified above. Surfaces coated with curing compound shall be kept free of foot and vehicular traffic, and from other surfaces of abrasion and contamination during the curing
- 14. No exposed concrete shall be placed in air temperatures above 100 degrees F unless approved by the Architect/Engineer. Cover, protect and cool work as required to maintain the temperature of the concrete below 100 work as required to maintain the temperature of the concrete below 100 degrees F. The concrete temperature, after mixing, shall be not greater than 85 degrees F. Spray and/or shade aggregate piles and cool mixing water as required. When air temperatures exceed 90°F, all exposed concrete shall be kept continuously moist by means of fog sprays, wet burlap, cotton mats or other means during the curing period. This water cooling will be in addition to using a membrane curing compound.



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MISC DETAILS NEW IDEAL, INC.

JOB NO 87-4968 DATE Sept, 1987 MISSOURI OF '

O'FALLON DESIGNED BY M. J. H. DRAWN BY M.J. H.

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