

## 5.01 GENERAL

- A. Contractor shall provide all labor, materials and appurtenances for construction of concrete sidewalk, curb and gutter where indicated on the drawings and as specified.
- B. The Contractor shall furnish and install PVC pipe sleeves in sidewalk areas designated by the Owner for street signs.

## 5.02 METHODS AND MATERIALS

- A. All materials and construction methods shall be in accordance with the most recent DelDOT Specifications for Road and Bridge Construction. All curb and gutter shall be as per most recent DelDOT Standard Construction Details.
- B. All concrete shall be according to DelDOT Specifications for Road and Bridge Construction, Section 812, Class B. Minimum ultimate compressive strength of concrete shall be 3,000 pounds per square inch at the end of twenty-eight (28) days. Submit mix design for approval. All concrete shall be air entrained.
- C. Curbs shall be depressed at all existing driveway locations in accordance with DelDOT Standard Construction Details, including proper preparation of subgrade and proper placing and spacing of joints and joint materials.
- D. The Contractor shall permanently repair or relay all curbs, sidewalks and driveways that have been removed, broken, or otherwise injured in executing any of the work under the contract or injured by settlement of any backfilled excavation at any time prior to termination of the contract and guarantee period. The minimum allowable length for replacement of damaged curb shall be ten (10) feet.
- E. New curb and sidewalk or replacement of areas damaged during construction shall be installed in accordance with the most recent DelDOT Specifications for Road and Bridge Construction. Install wheelchair curb ramps at all street corners constructed, as per current DelDOT Standard Construction Details.

## 5.03 SUBBASE

Subbase for concrete sidewalk and integral curb and gutter shall be clean, well graded, select material. Select material shall be well-graded sand or bank-run sand-gravel. Compact to at least 95% of maximum density at minus two (2) to plus two (2) percent of optimum moisture content as determined by the Modified Proctor Test ASTM D1557.

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#### 5.04 RECONSTRUCTION OF PRIVATE DRIVEWAYS

Saw cut existing driveways if sections are acceptable for reuse. Prior to replacement of driveways, the Contractor, Engineer and Owner shall review field conditions. The Owner will designate the extent of additional removal and replacement which shall not entitle the Contractor to additional compensation above the unit price bids. Upon completion of utility construction, the Contractor shall reconstruct private driveways in kind, except as follows:

##### A. Concrete Driveways

- 1) Concrete driveways shall be replaced and reconstructed upon a properly prepared, graded and compacted subgrade and in compliance with the most recent DelDOT Specifications for Road and Bridge Construction.
- 2) Driveways shall be constructed to a minimum thickness of six (6)-inches and shall be reinforced with six (6)-inch by six (6)-inch w1.4 x w1.4 wire mesh.
- 3) Restoration shall provide for a smooth transition from back of sidewalk or driveway construction to undisturbed areas and shall be free of all localized depressions or abrupt changes in grade that may trap or otherwise misdirect surface drainage or represent possible damage to vehicular travel.

##### B. Bituminous Concrete Driveways

- 1) Bituminous driveways and parking areas disturbed through the Contractor's construction operations shall be restored by a minimum of two (2)-inches of hot-mix bituminous concrete pavement placed in a single lift onto a base course consisting of four (4)-inches of properly prepared and compacted crushed stone or quarry waste. Commercial and residential entrances on state maintained streets shall be in accordance with the plan details. Match existing thickness where condition exceeds minimum restoration.
- 2) The hot-mix bituminous concrete surface shall conform to the most recent DelDOT Specifications for Road and Bridge Construction for Type C and shall be constructed in accordance with the applicable Articles of Section 401 "Hot-Mix, Hot Laid Bituminous Concrete Pavement".
- 3) The subgrade shall be properly prepared, graded and compacted in accordance

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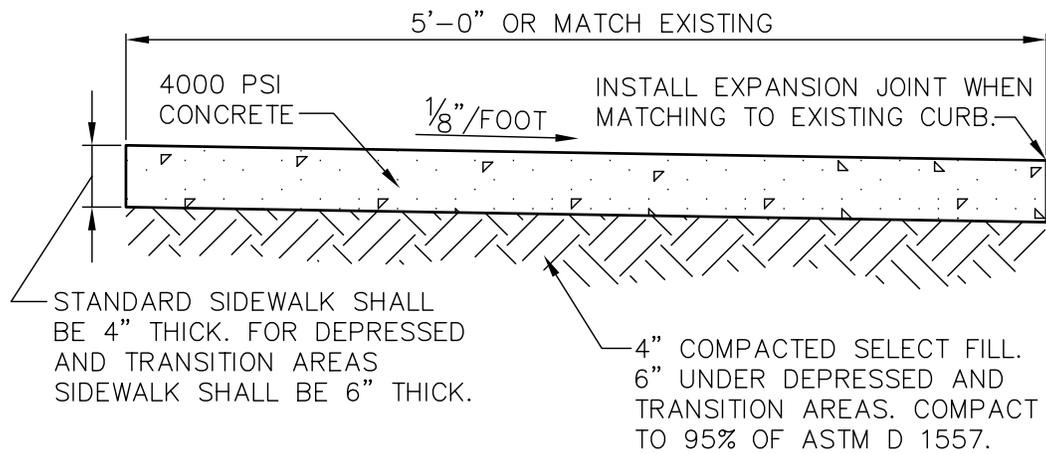
with Section 2 of the specifications noted above.

#### 5.05 SIDEWALK CONSTRUCTION

- A. Concrete sidewalks shall be replaced as required, or as directed, in accordance with Section 705 of the most recent DeIDOT Specifications for Road and Bridge Construction. Handicap ramps shall be installed in all areas defined herein.
- B. Sidewalks in areas not subject to vehicular loading shall have a minimum thickness of four (4)-inches placed upon a properly prepared, graded and compacted subgrade.
- C. Sidewalks in vehicular loading areas shall be a minimum thickness of six (6)-inches reinforced with six (6)-inch by six (6)-inch, w1.4 x w1.4 wire mesh. Subgrade shall be prepared as stated for non-load areas.
- D. Replacement of partial sections of concrete sidewalk, where so directed, shall be extended to the nearest existing joint in each direction.
- E. Sidewalks shall be replaced to a width equal to that existing prior to start of construction and such width shall be maintained throughout the entire length of the block. In no instance shall the constructed width be less than four (4) feet. The width for installation for new sidewalk shall be five feet.
- F. A broom finish shall be applied perpendicular to the direction of traffic.

END OF SECTION

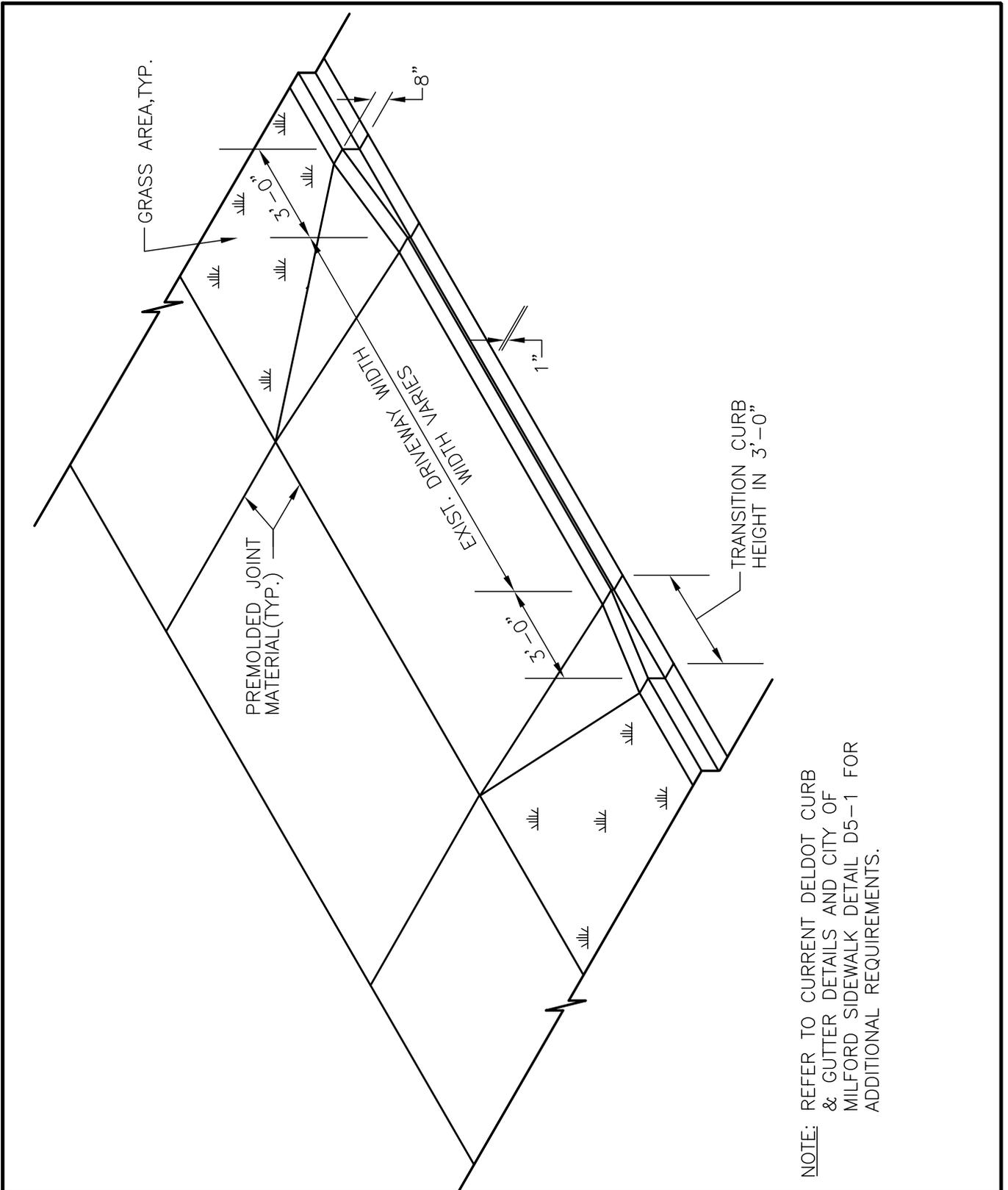
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NOTE: PLACE EXPANSION JOINTS 20' ON CENTER AND CONTROL JOINTS 5' ON CENTER OR MATCH EXISTING PATTERN.

**CONCRETE SIDEWALK DETAIL**  
NO SCALE

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NOTE: REFER TO CURRENT DELDOT CURB & GUTTER DETAILS AND CITY OF MILFORD SIDEWALK DETAIL D5-1 FOR ADDITIONAL REQUIREMENTS.

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		SECTION - 5	DRAWING: D5-2