

PEARL PLACE 2

SECTION 322000 - SIDEWALKS

PART 1 - GENERAL

1.1 SUMMARY

- A. This work shall consist of providing and installing brick sidewalks on bituminous concrete base in accordance with these specifications and in reasonably close conformity with the lines and grades as shown on the plans.
- B. This work shall consist of providing and installing bituminous concrete sidewalks in accordance with these specifications and in reasonably close conformity to the lines and grades as shown on the plans.
- C. This work shall include the construction of sidewalk ramps at locations as shown on the plans and shall be in accordance with the sidewalk pedestrian ramp typical details and with the current Americans with Disabilities Act requirements.

1.2 REFERENCES

- A. Specification Sections:
 - 1. Earth Moving: Section 31 20 00.
 - 2. Flexible Paving: Section 32 12 00.
 - 3. Curbs and Gutters: Section 32 16 00.
- B. State of Maine Department of Transportation "Standard Specifications – Revision of December 2002"
- C. State of Maine Department of Transportation "Supplemental Specifications – Corrections, Additions & Revisions to Standard Specifications – Revisions of December 2002"

PART 2 - PRODUCTS

2.1 BRICK

- A. New Brick: Conform to the various subsections of the specifications listed below. Brick shall conform to requirements of ASTM Standard Specifications for Building Brick (made of clay or shale) Designation C62-66 for Grade SW with the following modifications:
 - 1. The absorption limits shall be from 8 to 12 percent for the average of 5 bricks.
 - 2. The compressive strength shall not be less than 8000 pounds per square inch (psi)

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3. The modulus of rupture shall not be less than 1000 pounds per square inch (psi).
 4. The bricks shall be No.1, wire cut type for paving. Bricks shall be of standard size (2-1/4" deep x 3-3/4" wide x 8" long) with permissible variations not to exceed 1/16" in depth, 1/8" in width or 1/4" in length. Bricks shall be as manufactured by the Morin Brick Co. of Danville, Maine or an approved equal.
- B. All base courses and joints shall conform to the applicable subsections of Division 700 of the Maine Department of Transportation Standard Specifications.

2.2 BITUMINOUS CONCRETE

- A. MATERIALS: Material for bituminous concrete base courses and surface courses for sidewalks shall be as identified on the Plans and shall conform to the requirements Specification 32 12 00.

2.3 SAND-CEMENT BASE

- A. MATERIALS: Six (6) parts of washed mortar sand to one (1) part Portland Cement.

PART 3 - EXECUTION

3.1 BRICK

- A. Subgrade: The subgrade for the sidewalks shall be shaped parallel to the proposed surface of the walks and shall be thoroughly compacted. All depressions occurring shall be filled with a suitable material and again compacted until the surface is smooth and hard.
- B. Foundation: After the subgrade has been prepared, a foundation of crushed gravel shall be placed upon it. After being thoroughly compacted, the foundation shall have a thickness as shown on the plans and typical details and shall be parallel to the proposed surface of the work.
- C. Bituminous Base: A layer of hot bituminous pavement shall be spread upon the properly prepared crushed gravel, as shown in the typical detail.
- D. Sand-Cement Base: A layer of sand-cement base course material one (1") inch in thickness shall be spread upon the properly prepared bituminous base course. The course shall be thoroughly compacted and present a hard smooth surface parallel to the proposed finished slope and grade of the walks.
- E. Brick Placement: After the sand base course has been properly prepared, the brick shall be placed in the pattern shown on the plans and typical details. The brick shall be placed as closely together as possible and the sand joints between the brick shall be no wider than that allowed by the natural texture of the brick itself. **NO OPEN JOINTS WILL BE ALLOWED.** Brick shall be saw cut to fit spaces requiring less than a whole brick. No cut

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brick shall be less than two (2") inches in length. A journeyman brick mason shall supervise all brick placement.

- F. After the bricks are carefully set upon the properly prepared sand-cement base, a plank or heavy sheet of plywood covering several course of brick shall be placed upon the bricks and carefully rammed with a heavy hammer until the bricks reach a firm, unyielding bed and present a surface of the proper slope and grade. Any divergence from line and grade shall be corrected by taking up and relaying the bricks. After the ramming of the bricks, a sufficient amount of sand-cement shall be spread over the surface and thoroughly swept or raked so as to fill the joints. All surplus sand-cement remaining on the sidewalk after the joints have been properly filled, shall be carefully removed by sweeping. Care shall be taken to avoid raking out the joints during removal of excess sand-cement. A final application of sand only shall be spread on the sidewalk. The application of sand shall then be removed by sweeping while the aforementioned precautions are being exercised.

3.2 BITUMINOUS CONCRETE

- A. Excavation: Excavation shall be made to the required depth and width. The foundation shall be shaped and compacted to a firm even surface conforming to the section shown on the plans and typical details. All soft and yielding material shall be removed and replaced with acceptable material.
- B. Construction: As per Drawings and specification 32 12 00 – Flexible Pavement.

END OF SECTION 322000