

REV.	DESCRIPTION	DATE
A	PRELIM. PB SUBMITTAL	05.30.17
B	FINAL PB SUBMITTAL	07.26.17

**SITE IMPROVEMENT DETAILS**

**CPORT CREDIT UNION**

50 INDIA STREET  
PORTLAND MAINE, 04101  
DRAWINGS PREPARED FOR:  
CPORT CREDIT UNION  
50 RIVERSIDE INDUSTRIAL PARKWAY  
PORTLAND MAINE 04101

DRAWING: PROJECT:  
ISSUED DATE: 07.26.17  
DESIGNED BY: KLD  
DRAWN BY: KLD  
CHECKED BY: SG  
PROJECT NUMBER: 010416

**L-102**

**BIKE RACK**

**BIKE HITCH** Specifications and Space Use

**Product:** Dero Bike Hitch  
As manufactured by Dero Bike Racks

**Capacity:** 2 Bikes

**Materials:** Constructed: 2" schedule 40 pipe (3.375" OD)  
Ring: 1.5" OD 11 gauge tube

**Finishes:** An after fabrication hot dipped galvanized finish is standard. 250 TSS powder coat color, a thermoplastic coating and a stainless steel option are also available.

Our powder coat finish assures a high level of adhesion and durability by following these steps:  
1. Sandblast  
2. Iron phosphate pretreatment  
3. Epoxy primer electrostatically applied  
4. Final thick TGIC polyester powder coat

Stainless Steel: 304 grade stainless steel material finishes in either a high polished shine or a satin finish.

A rubbery PVC Dip is also available.

**Installation Methods:** In-ground mount is embedded into concrete base. Surface mount has an 8" x 4" foot which is anchored to the ground with four anchors included with rack.

**Space Use and Setbacks:** Wall Setbacks: for racks set parallel to a wall:  
Minimum: 12"  
Recommended: 24"

For racks set perpendicular to a wall:  
Minimum: 35" (centerline measurement)  
Recommended: 36" (5'4" if aisle is needed between bike and wall)

Distance between racks:  
Minimum: 24"  
Recommended: 36"

Street Setbacks:  
Minimum: 35"

WWW.DERO.COM 800-308-4915

**BIKE RACK DETAILS**

N.T.S.

**ORNAMENTAL ALUMINUM FENCE AND GATE**

ALL JOINTS TYPICALLY INITIATED IN CONCRETE IN ACCORDANCE WITH LOCAL CODES AND STANDARD BUILDING PRACTICES

ITEM NO.	NAME	QTY PER 100'	DESCRIPTION
1	POST	10	4" DIA. ALUMINUM
2	RAIL	10	2" DIA. ALUMINUM
3	BRICK	10	4" DIA. ALUMINUM
4	POST	10	4" DIA. ALUMINUM
5	RAIL	10	2" DIA. ALUMINUM
6	BRICK	10	4" DIA. ALUMINUM
7	POST	10	4" DIA. ALUMINUM
8	RAIL	10	2" DIA. ALUMINUM
9	BRICK	10	4" DIA. ALUMINUM

**ALUMINUM FENCE DETAILS**

N.T.S.

**TREE PIT**

**NOTES:**  
ALL TREE WELLS SHALL COMPLY WITH CITY TECHNICAL STANDARDS AND MUST BE APPROVED BY THE CITY ARBORIST.  
SIDEWALK MATERIAL PER CITY SIDEWALK MATERIAL POLICY.  
GRANITE CURB TREE WELL SHALL BE ...

**NEW CONSTRUCTION:**  
4"x8" PINE HALL PATHWAY PAVER BRICK; MFG. BY PINE HALL BRICK CO., MADISON, NORTH CAROLINA.  
LACHANCE ITEM # 193623, PINE HALL PATHWAY PAVER BRICK.

**REPAIR / MAINTENANCE TO EXISTING BRICK SIDEWALKS:** VERMONT PAVER; SUPPLIED BY GAGNE AND SONS.  
SPECIFICATION NUMBER: "VERMONT BACKER BRICK", ITEM NUMBER # VBBB

GRANITE CURB 7" REVEAL (TYP.)  
EDGE OF PAVED ROAD

RAISED GRANITE 5"x12" CURBING W/THERMAL FINISH, TREE WELL 7" REVEAL (TYP.)

PLAN VIEW  
**TREEWELL IN BRICK SIDEWALK**  
NOT TO SCALE

DATE: FEB. 2013	CITY OF PORTLAND, MAINE TECHNICAL STANDARDS MANUAL	TRANSPORTATION SYSTEMS AND STREET DESIGN SECTION V	FIGURE: V-??D
REVISED:	<b>LARGE GRANITE BORDER TREE WELL IN BRICK SIDEWALK WITH NO ESPLANADE</b>		

**TREE PIT DETAIL AND NOTES**

N.T.S.

**TURFSTONE**

**Turfstone™ Grid Pavers**

**INTRODUCTION**  
Turfstone concrete grid pavers are a "greenspace" pavement with the load capacity and structural performance of high-strength concrete. As a reinforced grass pavement, Turfstone's apertures are filled with topsoil and seeded for stormwater control, stone is used in the openings. Uses include residential, commercial, municipal, and institutional applications, as well as sport and recreational venues.

**DESIGN, CONSTRUCTION & PATTERNS**  
Turfstone parking applications can be designed with a dense-graded base, or for infiltration and storage of stormwater, with an open-graded base. Proper design, material selection, and construction of the base are essential to successful performance. For erosion control, Turfstone may be placed directly on graded and compacted soil. The maximum slope for embankment stabilization is 2:1.

Turfstone can be installed in either a stack bond or a running bond with a 1/4" offset. The false joints face up (see picture in upper left margin) and serve as "rock control joints." Occasional cracks from compaction or flexural loads will not compromise performance. Solid pavers can be placed in pavements where a more comfortable surface is desired for pedestrians and individuals using walkers and wheeled mobility devices.

Please see ICPI's Tech Spec No. 8 for detailed guidance on design and installation.

**COMPOSITION & PERFORMANCE**  
Turfstone is machine-manufactured under controlled factory conditions using a cement-rich concrete molded with extreme pressure and vibration. Turfstone units offer exceptional strength and durability to withstand New England's harsh winter climate. The flat, lattice-style units form a continuous grid pattern, and when properly installed, provide a pavement surface that is "snow plow safe."

Turfstone can be used in the following applications:  
■ Access lanes for emergency and service vehicles  
■ Overflow parking ■ Boat ramps ■ Embankments  
■ Streambank revetment ■ Low-flow channels  
■ Riparian stabilization for stream banks and lakesides  
■ Residential driveways ■ Vegetated trails  
■ Stormwater runoff management ■ Golf cart paths

■ Turfstone can add stability and reduce excavation depth when used as a base for segmental and free-standing walls.  
■ Turfstone is capable of supporting H20 loading over a properly designed and compacted base.

**PHYSICAL CHARACTERISTICS**  
Turfstone meets or exceeds North American industry standards, including the requirements of ASTM C 1319 for Concrete Grid Paving Units. Our strict quality control ensures consistent strength and size.

**Horizontal Size/Coverage:** 22 1/2" x 15 1/2" x 2.54"/pc  
**Open Area:** 40%  
**Thicknesses:** 3 7/8" (9cm)  
4 1/2" (11cm) Special order  
5000 psi minimum  
**Water Absorption:** 30 lbs/c² maximum  
**Freeze Thaw:** No effect as demonstrated through proven field performance

A single slipcast base on a 2" minimum aggregate subgrade will support up to 10,000 psi concrete or masonry pavers. It does not affect the tensile strength and will distribute stress. (See illustration for an application of stone products. For more information, please visit www.turfstone.com/industry.)

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**Stack Bond** **Running Bond 1/4" Offset**

**ALLEY PRECEDENTS/EXAMPLES**

