

UNIT PAVING

1 General

1.1 RELATED WORK

.1 Coordinate the requirements of this section with all other sections, including but not limited to:

.1 Section 01410 Testing Laboratory Services

.2 Section 01560 Environmental Protection

.3 Section 02210 Rough Grading

.4 Section 02233 Granular Base

1.2 SAMPLES

.1 Supply **City of Saskatoon** with samples of full size unit pavers for each type and colour.

1.3 TESTING

.1 Sieve analysis for base and sub base.

.2 Compaction density of base and sub base surfaces.

1.4 QUALITY CONTROL

.1 **City of Saskatoon, Parks Branch** to approve unit paving construction.

.1 Submit for unit paving before delivery to site:

.1 Name of source and supplier of materials.

.2 Product information sheet for each type of unit paver.

1.5 INSPECTION

.1 Notify **Consultant** for inspection of:

.1 Site and report to the City in writing defects of work prepared by other trades and unsatisfactory site conditions.

.2 Start of work shall imply acceptance of surfaces and conditions, and shall waive grounds for later claims by this section.

.3 Approval of staked unit paving area by Contractor from the City is required before excavating.

.4 Notify the City for inspection and approval after base and sub base placement before proceeding with placement of unit pavers.

UNIT PAVING

2 Products

2.1 MATERIALS

.1 Unit paver requirements; uniform in material, colour, size and from one manufacturer.

.1 Pre-cast concrete paver to conform with CAN3-A231.2, plain or exposed aggregate face, exposed aggregate size, aggregate type. Sizes, shape and colour per drawing specifications and layout.

.2 Interlocking pre-cast concrete paver to conform with CAN3-A231.2. Size, shape and colours per drawing specifications and layout.

.3 Burned Clay brick to conform to ASTM C902. Type I, class SX wire cut face modular. Size and colours per drawing specifications and layout.

.2 Crushed stone or gravel requirements; hard, durable angular particles, free from clay lumps, cementation, organic material, frozen material and other foreign materials.

.1 Gradation within limits specified tested to ASTM C136 and ASTM C117. Sieve sizes to CAN/CGSB-8.1:

SIEVE	% PASSING BY WEIGHT
19 mm	100%
2.52 mm	70 - 100%
4.75 mm	40 - 70%
2.00 mm	23 - 50%
0.425 mm	7 - 25%
0.075 mm	3 - 8%

.3 Levelling course requirements; hard, durable, crushed stone particles, free from clay lumps, cementation, organic material, frozen material and other foreign materials.

.1 Gradation within limits specified tested to ASTM C136 and ASTM C117. Sieve sizes to CAN/CGSB-8.1:

SIEVE	% PASSING BY WEIGHT
9.5 mm	100%
4.75 mm	80 - 100%
2.00 mm	50 - 80%
0.425 mm	10 - 50%
0.075 mm	0 - 10%

.4 Filler sand requirements; CSA A82.56, hard and durable, angular particles, free from clay lumps, cementation, organic material, frozen material and other foreign materials.

.1 Gradation within limits specified tested to ASTM C136 and ASTM C117. Sieve sizes to CAN/CGSB-8.1:

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SIEVE	% PASSING BY WEIGHT
4.75 mm	95 - 100%
1.18 mm	50 - 95%
0.60 mm	25 - 50%
0.30 mm	10 - 30%
0.075 mm	0 - 10%

.5 Edging per drawings.

.1 Material requirements; SnapEdge, PaveEdge or equivalent quality.

3 Execution

3.1 LAYOUT

.1 Establish and maintain line and grade controls using appropriate survey personnel and equipment.

.1 Contractor is responsible for layout accuracy.

.2 Establish the layout and depth of the unit paving required accurately per drawings or specifications.

.1 Contractor is required to stake layout of unit paving areas and obtain approval, before placement start.

3.2 SUB GRADE PREPARATION

.1 Excavate to depths required for installation per details.

.1 Remove all loose material in excavations and compact with equipment suitable for the Work.

3.3 GRANULAR BASE

.1 Approval of granular base course before bedding sand course placement is required.

3.4 PLACEMENT OF EDGING (If Required)

.1 Install edging true to grade.

.1 Edger length min 900mm.

3.5 PLACEMENT OF LEVELLING COURSE

.1 Spread bedding sand to depth per details.

.1 Correction to variations for bedding sand material in sub grade or granular base is not permitted.

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- .2 Screen bedding sand per drawings.
- .3 Access to screened and leveled surface areas is not allowed.

3.6 PLACEMENT OF UNIT PAVER

- .1 Ensure granular laying course is dry (4-8% moisture content) before placement of unit pavers.
- .2 Install unit paving:
 - .1 Lay full units first.
 - .2 Fit partial pieces subsequently.
- .3 Saw cut units accurately without damaging edges. Cut unit dimension less than 1/3 of original dimension is not permitted.
- .4 Pre-cast concrete pavers, interlocking pre-cast concrete pavers.
 - .1 Install pavers with butt joints as specified and not exceeding 3mm.
 - .2 Tamp down and level pavers using mechanical plate vibrator on min. 19mm thick plywood until pavers are true to grade and free of movement. For vehicular traffic surfaces, tamp and level pavers with rubber tired roller.
 - .3 Fill spaces between pavers by sweeping in fill sand as specified.
 - .4 Pass mechanical plate vibrator on sand cushion over surface course to achieve compaction of sand in joints.
 - .5 Surface of finished pavement is required free from depressions exceeding 3mm as measured with 3m straight edge.
 - .6 Sweep surface course clean.
- .5 Burned clay brick, Pre-cast concrete pavers, Flagstone, Granite Pavers.
 - .1 Install pavers with butt joints as specified and not exceed 3mm.
 - .2 Fill joint spaces to full depth by sweeping in fill sand.
 - .3 Sweep surface course clean.

3.7 FINISHING

- .1 Abut concrete unit pavers flush with adjacent materials.

UNIT PAVING

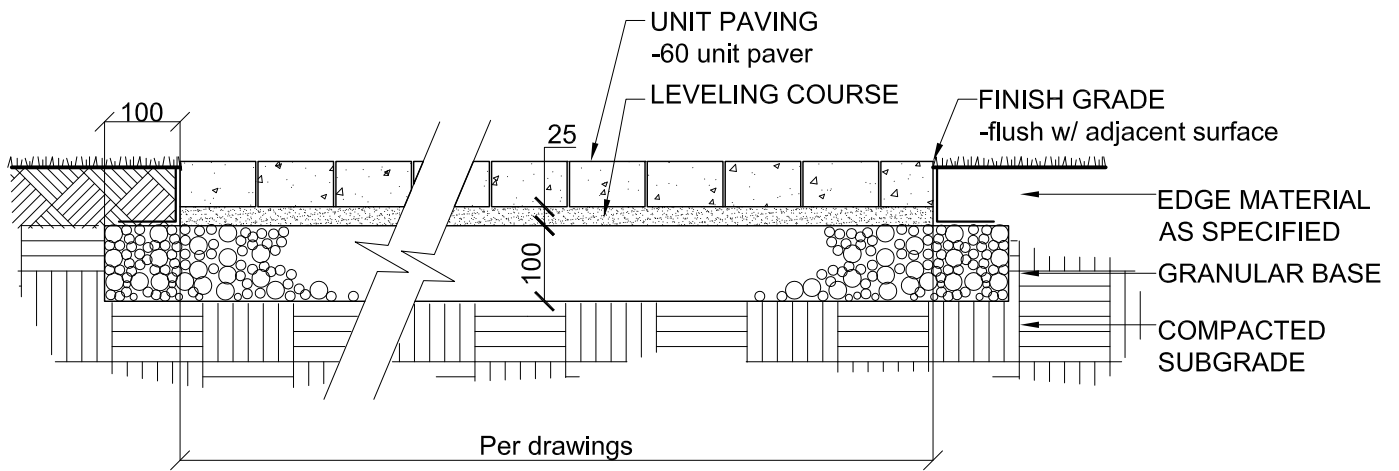
- .2 Foot or vehicular traffic on or adjacent to the concrete unit paver installation area is not permitted until final adjustments are completed.

3.8 CLEAN-UP

- .1 Clean adjacent walks and road surfaces at the end of each working day.
- .2 Remove all remaining construction debris from site.

END OF SECTION

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STANDARD UNIT PAVING CONSTRUCTION

NOTE:

- 1. All units are in millimeters U.N.O.
- 2. Unit paving surface to have 2% crossfall in the direction of surface drainage flow (refer to grading plan).



Drawing Title

Unit Paving

Drawing No.

02515-01

Drawn: HMK

Checked: AO

Date Y/M/D 09/11/24

Scale: 1:10

2012 Standard Detail