1.0 GENERAL
1.1 Conformity—conform to the requirements of the general conditions of the Contract.
1.2 Work Included
   .1 Preparation of site
   .2 Supply and place base course
   .3 Supply and place sand leveling course
   .4 Supply and install PaverLock pavers as manufactured in quality, shape, thickness and color as specified. Consult Specification Information for PaverLock Concrete Pavers.

2.0 SITE WORK
2.1 Preparation--Special care should be taken in the preparatory steps to ensure best results. Load factors and soil conditions will determine the extent and depth of excavation.
2.2 Excavation--Unsuitable, unstable, or unconsolidated sub grade material shall be excavated to reach a solid sub-state. The soil engineer, architect, landscape architect or site supervisor shall inspect sub-state prior to compaction and addition of granular base.
   .1 If edge restraint is to be used, the area under such restraint shall be excavated.
   .2 Excavation should exceed the perimeter of the paved area by a minimum of 6" or thickness of the base material—whichever is greater.

3.0 MATERIALS
3.1 Interlocking Concrete Pavers
Paver shapes and colors shall be selected from Reading Rock, Inc.'s extensive stock list. Custom color or non-stock shape is possible. Please contact Reading Rock customer service for details. Only Concourse Series 12 x 12 and 6 x 12 shapes as well as the Oxford Series Titan shape are not recommended for vehicular applications and do not conform to C936.

3.2 Base Course Aggregate
   .1 The base course aggregate shall consist of sound, durable particles, free from clay, organic material or other deleterious matter and shall be 100% crushed with fines, graded within the following limits:

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>% Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>100</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>70-100</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>50-80</td>
</tr>
<tr>
<td>4</td>
<td>35-65</td>
</tr>
<tr>
<td>8</td>
<td>25-50</td>
</tr>
<tr>
<td>16</td>
<td>15-30</td>
</tr>
<tr>
<td>50</td>
<td>10-35</td>
</tr>
<tr>
<td>200</td>
<td>0-5</td>
</tr>
</tbody>
</table>

3.3 Sand Laying Course
   .1 The sand laying course shall consist of clean coarse concrete sand, not mason sand, with the following gradation limits:

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>% Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>100</td>
</tr>
<tr>
<td>4</td>
<td>90-100</td>
</tr>
<tr>
<td>8</td>
<td>80-95</td>
</tr>
<tr>
<td>16</td>
<td>55-85</td>
</tr>
<tr>
<td>50</td>
<td>10-35</td>
</tr>
<tr>
<td>200</td>
<td>0-5</td>
</tr>
</tbody>
</table>

3.4 Edge Restraint
   .1 All edges of the PaverLock installation shall be restrained. The type of edge restraint shall be approved and locations noted on the plans.
   .2 This edge restraint can be:
      .1 Buildings
      .2 Concrete curb or sidewalk
      .3 PVC plastic edging
      .4 Aluminum
      .5 Steel

4.0 EXECUTION
4.1 Layout
   .1 In preparation for excavation, the area to be removed should be marked with stakes.
   .2 Stakes should be 12" - 24" away from area to be removed so they are not moved during excavation.
   .3 Stakes should be marked or have string lines pulled and tied to them to establish grades.
   .4 Slopes should be a minimum of 1.5% or 3/16" per linear foot.

4.2 Construction of the Base Course
   .1 The finished subgrade shall be approved before placement of any base course.
   .2 The base course shall be spread in layers which when compacted will not be less than 6" for non-vehicular purposes.
   .3 The base course shall be compacted with suitable compaction equipment in 3" lifts that will ensure a minimum 95% of the maximum density as determined by ASTM D1557 (Modified Proctor).
   .4 The base course shall be shaped to grade and is not recommended to vary by more than 3/8" when tested with a 10' straight edge at any location on the surface.
   .5 When installing 6 cm PaverLock pavers, the compacted base shall be 3 1/4" below final grade.
   .6 When installing 8 cm PaverLock, the compacted base shall be 4" below final grade.

4.3 Construction of the Sand Laying Course
   .1 The finished base course shall be approved before the placement of the sand laying course.
   .2 The sand laying course shall be spread evenly over the area to be paved and screeded to 1" uniform thickness.
   .3 Once screeded and leveled this sand laying course shall not be compacted or disturbed in any way.
4.4 Laying of PaverLock Concrete Pavers

.1 The paver shall be laid in such a manner that the desired pattern is maintained and the joints between the stones do not exceed 1/8". Pavers shall be pulled from multiple cubes whenever possible in a vertical column format.

.2 It is always recommended that a soldier course with full uncut PaverLock pavers be installed at the outermost edge, up against the edge restraint. The gaps at the edge of the paved surface, inside the soldier course, shall be filled with standard edge pieces or with pavers cut to fit. The pavers shall be cut to a straight even surface without cracks or chips.

.3 Appropriate edge restraint should be installed (see 2.4 Edge Restraint).

.4 PaverLock pavers shall be vibrated to their final level by 4 or 5 passes of a vibrating plate compactor (with neoprene pad if possible).

.5 After 1st vibration pass, apply concrete sand containing at least 30% 1/8" particles shall be brushed over the surface and vibrated into the joints with additional passes of the plate vibrator so as to completely fill the joints.

.6 Surplus material shall then be swept from the surface and the entire site left clean.

STANDARD INSTALLATION ON CRUSHED GRAVEL

EXISTING PAVEMENT INSTALLATION

Note: Drainage should be provided. Drain area should be protected with geotextile fabric.
RD-1  ROOF DECK INSTALLATION

- Sand filled joints not to exceed 1/8"
- PaverLock paver
- Concrete sand laying course 1" thick
- Rigid insulation (omit if not required)
- Waterproofing protective membrane
- Roof deck

RD-2  ROOF DECK INSTALLATION ON SAND AND FABRIC

- Clear joints not to exceed 1/8" for subsurface drainage
- PaverLock paver
- Concrete sand laying course 1" thick
- Roof deck
- Synthetic hydraulic filter (geotextile fabric) over or around surface area drain in roof where applicable

RD-3  ROOF DECK INSTALLATION ON PEDESTAL

- Approved paving stones
- Pedestal
- Waterproofing protective membrane (above or below installation)
- Rigid insulation
- Plaza or roof deck

II-1  INTERIOR INSTALLATION ON CONCRETE

- Sand filled joints not to exceed 1/8"
- Sealed PaverLock paver
- Adhesive
- Concrete

II-2  INTERIOR INSTALLATION ON CRUSHED GRAVEL

- Sand filled joints not to exceed 1/8"
- Sealed PaverLock paver
- Concrete sand laying course 1" thick
- Moisture barrier
- Base course aggregate 100% crushed gravel 1" top size