



Scope: This specification is intended for use as a guideline for the construction of a new croquet court on a crushed aggregate, laser graded base, finished with a cushioned grass court surface using the unique Nova' Croquet XP system.

SECTION 02542 NOVA' CROQUET SURFACE NEW CONSTRUCTION – CRUSHED ROCK BASE

PART 1 – GENERAL

1.01 SUMMARY

- A. This section includes, and is not limited to:
 - 1. Installation of a croquet surface construction finish consisting of a network of densely tufted ultraviolet resistant polyethylene fibers with select infill.
 - 2. Underpad (Optional)
 - 3. Subgrade Preparation
- B. Related Sections
 - 1. Section {01300 Submittals} {13499 Shop drawings, Product Data and samples.}

1.02 QUALITY ASSURANCE

- A. NovaCroquet Surface shall be installed by an approved dealer or distributor, certified by NGI Sports
- B. Each Roll shall be clearly marked
- C. Material shall not be installed when rain is imminent or the temperature is below 50° F.
 - 1. The installation of the NovaCroquet System shall be done in dry weather.
 - 2. Neither surface nor aggregates can be moist or wet.
 - 3. Fabrication should be done in dry weather with the temperature above 50° F.

1.03 WARRANTY

- A. Materials shall have a five-year limited warranty supplied by the manufacturer.
- B. Contractor to provide {Owner}{Architect}{Landscape Architect}{Engineer} written warranty at completion of project in accordance with Sections {01700}{01740} of the Project Manual.



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3. The crushed stone or gravel shall conform to local specifications for rock base construction and the following:
 - a. Retained on the 2" sieve 0%
 - b. Retained on the 1 1/2" sieve 0-5%
 - c. Retained on the 3/4" sieve 5-30%
 - d. Retained on the No. 4 sieve 35-60%
 - e. Retained on the No. 8 sieve 45-70%
 - f. Retained on the No. 40 sieve 60-84%
 - g. Retained on the No. 200 sieve 80-92%

C. Crushed Aggregate Base Course Construction: If the required compacted depth of the base course exceeds 5" , the base shall be constructed in two or more layers of approximately equal thickness.

PART 3 – EXECUTION

3.01 SUBGRADE AND SURFACE PREPARATION

- A. The area is to be cleared of all trees, stumps, vegetation and topsoil
- B. Prepare subgrade by blading, rolling and lightly scarifying a sound surface within 1/8" in 10' when measured in any direction, with 1% to 2% minimum slope. Small areas of 5% to 15% may be used to form undulation
- C. Contours of the subgrade shall conform to those of the proposed finish grade of +/- 1/2".
- D. Apply construction grade geotextile over subgrade.
- E. Fill and Compaction
 1. When fill is required, it shall be placed in 6" lifts, maximum, with approved material and each lift shall be thoroughly compacted to a density of 95% Protocor.
 2. All unstable or otherwise objectionable material shall be removed from the subgrade and replace with approved material.
 3. All holes, ruts and depressions shall be filled, reshaped, and compacted as required to place the subgrade in acceptable condition to receive base material.
 4. Prior to placing succeeding layers of material, the top of the underlayer shall be significantly moist to ensure uniform moisture between layers.
 5. The edges and edge slopes of the subgrade shall be bladed and otherwise depressed to conform to the lines and dimensions of the finished surface.
 - 6.

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3.02 PLACING OF THE ROCK BASE

- A. The maximum compacted thickness of any one layer shall not exceed 5”.
- B. Immediately after placing, the material shall be compacted at not less than 95% Proctor.
- C. Prior to placing succeeding layers of material, the top of the underlayer shall be significantly moist to ensure uniform moisture between layers.
- D. The surface of the compacted finish base course shall be uniform and smooth, conforming to a 1/4 of 1% sloping requirements for croquet greens.
- E. Crushed Stone Screenings Leveling Course: After the completion of the rock base, a 1” to 2” layer of stone dust screenings or compactable sand shall be applied to make sure the surface is level. The screenings shall be spread thoroughly and compacted. NOTE: it is recommended that 10 bags of stabilizer be mixed into the screenings prior to placement.
- F. Finished surface of the leveling course shall not vary from the specified grade more than 1/8” in 10’ when measured in any direction.

THE FINISHED SURFACE IS LOOSE LAID OVER A STABLE SUBBASE. THE WEIGHT OF THE AGGREGATE FILTERED INTO THE FIBERS PREVENTS MOVEMENT.

3.03 SURFACE PREPARATION

- A. NovaCroquet Surfacing system shall be installed on a sound base surface within surface tolerance not exceeding 1/8” in 10’ when measured in any direction with a slope of 1/4 to 1%.
- B. The entire surface shall be checked for any depressions. Depressions of 1/16” or deeper shall be filled and leveled.
- C. The entire surface shall be thoroughly cleaned to remove dust, dirt and foreign debris.
- D. Set permanent tubes to hold wickets, flags, center stake. Pin and stake placement in sleeves shall be in accordance with guidelines recommended by the American Lawn Croquet Association.

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3.04 NOVACROQUET SURFACING SYSTEM

- A. The surface course shall be installed according to manufacturer's specifications.
- B. Specifically engineered pad shall be placed over subbase (optional) with NovaCroquet turf loose laid on top.
- C. All surface course materials are to be installed after the surface has been inspected and approved by {Owner} {Architect} {Landscape Architect} {Engineer}.
- D. All sections of surface mat are to be laid out so that the grass fibers are laying in the same direction.
- E. All joints shall be attached with a single strength industrial adhesive and a high quality weatherproof tape.
- F. Aggregate Infill: Using a special mechanical mix device to filter the material into the fiber, the material infill shall be filtered into the surface mat in several light layers and shall be brushed in to allow the fibers to stand erect.
- G. Cut in markers colored.
- H. Cut in boundary lines.
- I. Do not allow products to be spilled on the NovaCroquet surface.

3.05 CLEAN UP

- A. Upon completion of the work, the contractor shall remove all containers, surplus materials and debris and have the site in a clean and orderly condition acceptable to the {Owner}{Architect}{Landscape Architect}{Engineer}.
- B. Provide {Owner}{Architect}{Landscape Architect}{Engineer} with NovaCroquet Maintenance Manual at completion of project in accordance with Section {01700}{01730} of the project manual

END OF SECTION

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