

# **INVITATION FOR BIDS**

**SEALED BIDS FOR**

## **MAUDE EDENFIELD PARK TENNIS COURTS RECONSTRUCTION**

Will be accepted until 10:00 AM on THURSDAY, May 31, 2018 at which time all bids will be publicly opened and read in the presence of all those interested.

Bid packets should be hand delivered or sent via courier service to:

City of North Augusta Parks, Recreation and Tourism  
Attention: Karl Waldhauer  
100 Riverview Park Drive  
North Augusta, South Carolina 29841  
803.441.4307

The City of North Augusta reserves the right to waive any formalities and to reject any or all bids.

The City of North Augusta Parks, Recreation and Tourism Department will receive BID proposals for MAUDE EDENFIELD PARK TENNIS COURTS RECONSTRUCTION according to the enclosed specifications.

All formal inquiries relating to this bid should be addressed in writing to:

City of North Augusta Parks, Recreation and Tourism  
Attention: Karl Waldhauer  
100 Riverview Park Drive  
North Augusta, South Carolina 29841

**ADDENDA:**

In the Event that modifications, clarifications, or additions to this bid become necessary, all vendors who expressed interest will be notified in writing by the Superintendent of Parks, Recreation & Tourism.

**SUBMISSION DATE AND LOCATION:**

All bids must be submitted in writing to the office of the Superintendent of Parks, Recreation & Tourism, 100 Riverview Park Drive, North Augusta, SC, 29841, prior to 10:00 AM on THURSDAY, May 31, 2018. All proposals must be in writing in an envelope sealed and clearly marked "Bid for MAUDE EDENFIELD PARK TENNIS COURTS." One original and three copies should be included in this packet. The City of North Augusta will not be responsible for late mail and courier deliveries.

**PROJECT LOCATION**

401 East Buena Vista Avenue  
North Augusta, South Carolina 29841

**REJECTION OF BIDS:**

The City of North Augusta reserves the right to reject or accept any or all bids, or to take exception to these specifications. Vendors may

also be eliminated from consideration for failure to comply fully with these bids specifications.

### **REVIEW AND EVALUATION PROCESS:**

The City of North Augusta will select the vendor on the basis of greatest benefits to the City, not necessarily on the basis of lowest price. The vendor selected must have the necessary resources to provide for complete installation as no advances for payment will be made. The vendor's references, capabilities, commitment, and quality of proposal will be weighted heavily.

### **PRICE QUOTATIONS:**

Price quoted by vendors should be firm prices, not subject to increases during the term of installation.

### **PROPOSAL RESPONSES:**

All proposals submitted shall include a letter of transmittal which bears the signature of an authorized representative of the vendor and which also includes the names of individuals authorized to negotiate with the City of North Augusta.

### **REFERENCES:**

A list of local companies serviced by the vendor must be made an integral part of this proposal.

### **PERMITS & BUSINESS LICENSE**

The selected vendor will be responsible for securing a City of North Augusta Business License in addition to applying for and securing all applicable building & construction permits through the City of North Augusta and the state of South Carolina.

### **QUALIFICATIONS**

The contractor shall have a minimum of five (5) years of experience in construction of tennis courts and shall be approved by the

manufacturer of the materials to be used. Along with documentation, the bidder must present a minimum of ten (10) major tennis projects (four courts and greater) that were completed during the past five (5) years with this bid packet.

**INSURANCE AND BONDS:**

Vendors shall be fully covered by Workers Compensation, Public Liability of \$1,000,000, and property damage insurance. The selected vendor will be required to provide the City a copy of this insurance as well as naming the "City of North Augusta" as an additional insured on the policy.

## **SPECIFICATION FOR TENNIS COURTS RECONSTRUCTION**

### **SCOPE OF WORK:**

Revitalization of two sets of (2) tennis courts each, currently in poor condition, measuring 106' x 120' each to include:

- Reconstruct existing tennis courts within the same footprint according to A.S.B.A. (American Sports Builders Association) standards and installation of amenities as specified below
- Removal of existing fence and installation of new fencing as specified below
- Removal of existing lighting system and installation of new lighting system as specified below
- Project should not take more than 60 days, weather permitting, however, no more than 90 days will be granted before penalties will begin.

### **Specifics of Reconstruction:**

#### **Removal of Existing Tennis Courts**

Grinding/milling to remove all asphalt from the court area down to the base and disposal of all removed asphalt. Upon removal of asphalt, the base shall be rolled to ensure it is compact and level.

#### **Slope Requirement**

All excavating, filling and grading requirements and compacting work of the subbase should be performed so that the finished subgrade is 4"-6" above the surrounding ground and slopes not less than 0.83% (1:120) and not more than 1% (1:100). Each court must slope on a true plane, preferably from side to side (but from end to end or from corner to corner are also acceptable), or in the shortest direction for good drainage and water runoff. The court should never be sloped from the net line to the baseline, from the baseline to the netline, from the sides to the centerline or from the centerline to the sides.

#### **Perimeter Edging**

Construct a concrete apron around the existing tennis courts measuring six inches wide – a total of 880 feet of curb.

## **Aggregate Base Course**

### **A. Material**

A base course of bituminous concrete mixture; crushed aggregate; processed/recycled asphalt or processed/recycled concrete should be installed over the subgrade. The specified material should meet applicable ASTM specifications. Compacted thickness will depend on local soil and climatic conditions, but in no case should the thickness be less than the equivalent of 4" of thoroughly compacted crushed stone.

### **B. Spreading and Compacting**

The material should be spread by methods and in a manner that produces a uniform density and thickness. The material thus spread should be compacted to 95% minimum Proctor Test with equipment that provides uniform density.

### **C. Tolerances**

The modified base should be compacted to provide a smooth, true plane surface, and should not vary more than 1/4" in 10', when measured in any direction. Fine grading of the stone must be done with laser grading equipment, for exact tolerances.

## **Asphaltic Surface Course**

- A. A surface course of a hot plant mix having a maximum aggregate size of 3/8" and a minimum aggregate size of 1/4" should be constructed over the hot mix intermediate course to a compacted thickness of not less than 1"\*.

### **Suggested Mix Design:**

<u>Screen</u>	<u>% Passing</u>
1/2	100
3/8	90-100
#4	55-85
#8	32-67
#50	7-23
#200	2-10

\*The proper type asphalt used for the surface course will vary from state to state if using the standard norm of the Department of Transportation (DOT) or State Highway Department standards. Local soil and climatic conditions also may impact the type of asphalt used.

Thickness: Not less than 1".

Liquid Asphalt Bitumen: Minimum 5.5% by weight.

Aggregate Type: Crushed stone, gravel, shale, limestone, etc. Foreign materials, i.e., pyrite, clay, ferrous compounds, dirt and organic material are not acceptable.

Cure Time: Minimum 14 days before application of playing surface.

Voids Content: Minimum as specified by the Department of Transportation or State Highways Department, but in no case should void content exceed 7%.

**B. Spreading and Compacting**

This hot plant mix should be spread and compacted by methods and in a manner that produces a uniform density and thickness.

**C. Surface Tolerance**

The finished surface of the court should not vary more than 1/8" in 10' when measured in any direction.

## **Acrylic Color Finish System**

### **Objectives**

- A. To provide a surface properly drained, without depressions exceeding acceptable tolerance.
- B. To provide a surface of uniform texture, speed of play and desired playing quality.
- C. To provide a weather-resistant and ultra-violet-resistant, durable, non-glare, protective finish
- D. To provide color, contrast and other aesthetic values.

### **Surface Inspection**

Prior to application of a color finish system, the court surface should be flooded with water and allowed to drain for one hour at 70 degrees Fahrenheit. If there is any remaining water that covers a 5 cent piece (American coin), that area, commonly called a "birdbath", should be patched and leveled in accordance with recommendations of the manufacturer of the color finish system specified. (Note: If the standing water does not cover a 5 cent piece, it is considered within tolerance and will evaporate within a reasonable time.) Reflooding and patching may be necessary until "birdbaths" are properly minimized.

### **Preparation**

Surface course and subsurface materials must have been installed to proper slope requirements (.833% – 1.0%) in accordance with the U.S. Tennis Court and Track Builders Association Construction Guidelines and must be thoroughly

cured (a minimum of 14 days for asphalt and 28 days for concrete), before application of any filler or color finish materials.

Based on pavement conditions, porosity and texture, and upon completion of patching, it may be necessary to install an acrylic and/or asphalt emulsion resurfacer to provide a smooth, dense, uniform texture for subsequent acrylic color coatings.

\*Asphalt emulsion products may be used only if approved by the color system manufacturer. Follow the instructions of the surfacing material manufacturer in the application of any resurfacer.

### **Coating Materials**

Coating materials should be 100% acrylic emulsions, formulated with acrylic resins, mineral fillers, color fast pigments and approved silica sand. Both filler and finish coats should be fully pigmented, assuring the owner a uniform finish and consistent color throughout.

#### **A. Colored Texture Coats**

Once the surface has been properly prepared and has cured, the next step is the application of the texture materials as recommended by the manufacturer of the color finish system to achieve a uniform texture on the court. Application rates should be expressed in undiluted gallons per square yard.

#### **B. Color Finish**

It is recommended that, wherever feasible, the finish coat be applied parallel to the net in the inbounds area. Application rate should be expressed in undiluted gallons per square yard.

### **Application of the Color Materials**

Court color options shall be presented by the selected contractor and approved by City of North Augusta staff prior to project commencing. The coating materials should be installed in multiple applications in the selected and approved colors, so as to form a true, uniform texture and color. Application work should be performed by skilled mechanics in a workman-like manner and in accordance with the manufacturer's standard printed instructions. No work should be performed when rain is imminent. Temperature must be 50 degrees Fahrenheit and rising for application. Surface temperatures in excess of 140 degrees Fahrenheit may not allow proper film formation.

### **Playing Lines**

Base lines should not be more than 3" wide and playing lines not more than 2.25" wide, accurately located and marked in accordance with rules of the United States Tennis Association and painted with a paint recommended or approved by the manufacturer of the color finish material. All measurements shall be to the outer edge of the lines except the center line and the center mark which shall be on the center line of the court. Use of traffic, oil, alkyd, or solvent-vehicle type



paint is prohibited. The painting should be done by skilled mechanics in a workman like manner in accordance with the manufacturer's standard printed instructions.

### **Net Posts & Nets**

Net posts, nets (Doubles Nets with Singles Sticks) and center strap anchors shall be supplied, anchored and installed by the selected vendor. A ratchet type system is preferred.

### **Specifics of Fencing**

Contract will provide the following:

1. Install new black coated 10' fencing and two (2) 7' gates on each court to match. A fence mesh of 11 gauge core wire with a 1 ¾" diamond pattern will be used. 9 gauge core wire with a 2" diamond pattern is also acceptable.
2. All gate and terminal posts will be 3"
3. All line posts will be 2 ½"
4. All posts should be set on 10' centers or less.
5. New fence must have top, middle and bottom post
6. All top, middle and bottom post will be 1 5/8"
7. Post material is schedule 40
8. Install and secure new black windscreens on the entire "backstop" sides of each court.

### **Specifics of Lighting**

1. Remove existing lighting which currently consists of four poles with two metal halide fixtures and two poles with four metal halide fixtures. Fixtures, poles & controls will be neatly disconnected and prepared for owner to pick up from site.
2. Install new lighting fixtures that are equal to or greater than Class III quality lighting as specified by the International Tennis Federation (ITF). Lighting shall be mounted on new metal columns with underground wiring and a centralized timer system. Columns may be shared between courts if deemed applicable. LED lighting (shoebox style fixture) is preferred.

### **Warranty:**

A five (5) year guarantee/warranty against defects in workmanship, to include proper surface runoff, and materials is required. The contractor warrants that, unless otherwise specified, all materials and equipment incorporated in the work under the contract shall be new, in first class condition, and in accordance with the contract documents. The contractor further warrants that all workmanship shall be of the highest quality and in accordance with contract documents and

shall be performed by persons qualified at their respective trades. Defects discovered during the warranty period shall be corrected by the contractor to the City of North Augusta's satisfaction.

**CITY OF NORTH AUGUSTA  
Parks, Recreation and Tourism  
MAUDE EDENFIELD PARK TENNIS COURTS  
RECONSTRUCTION  
BID PROPOSAL**

Perspective Vendor:

The Bidder, having fully examined the specifications with related documents and being very familiar with all of the conditions surrounding the construction of the proposed project including the site conditions and the availability of labor and materials, hereby proposes and agrees that, if this proposal is accepted, bidder will contract with the City of North Augusta to furnish all equipment, materials, insurance and overhead necessary to supply equipment for this project in complete conformance to the project plans and specifications for the following lump sum/unit prices to include 8% South Carolina Use Tax:

\$ \_\_\_\_\_

The bidder further agrees that all WORK shall be completed within 90 calendar days of contract award. Any delay beyond this shall be assessed liquidated damages in the amount of \$200.00 per day.

This bid respectfully submitted by:

\_\_\_\_\_  
Name of Bidder/Company

\_\_\_\_\_  
Signature of Authorized Representative of Bidder

\_\_\_\_\_  
Business Address

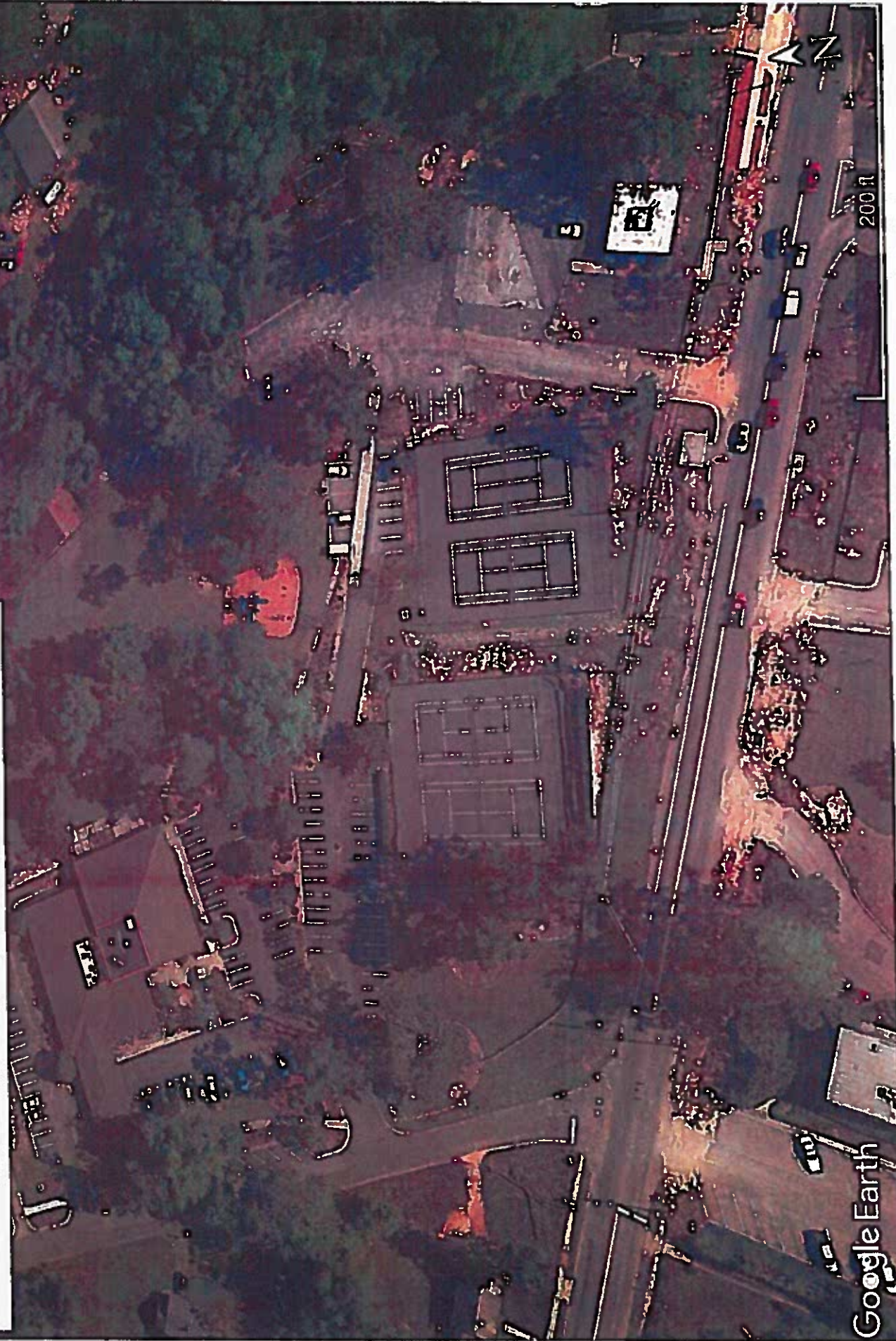
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Phone Number

\_\_\_\_\_  
City, State, and Zip Code

Legend

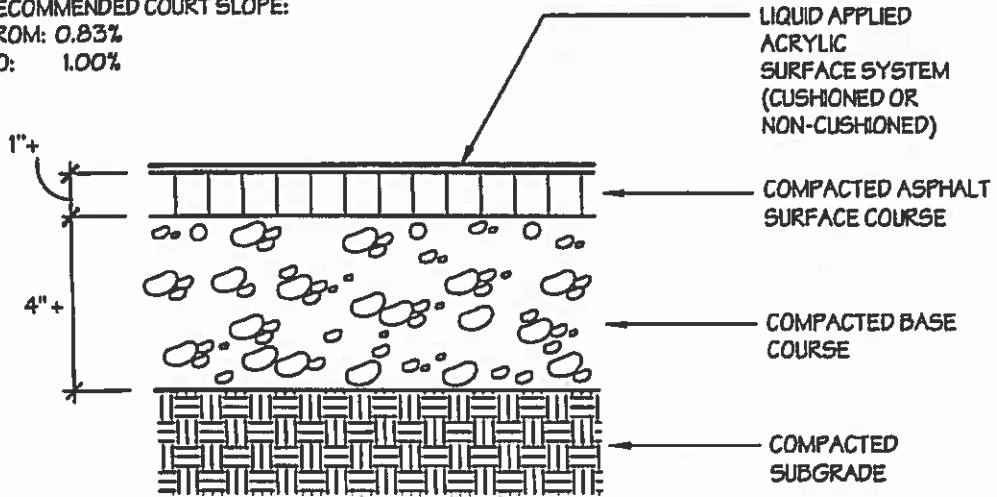
# Maude Edenfield Tennis Court Reconstruction

401 East Buena Vista Avenue  
North Augusta, SC 29841

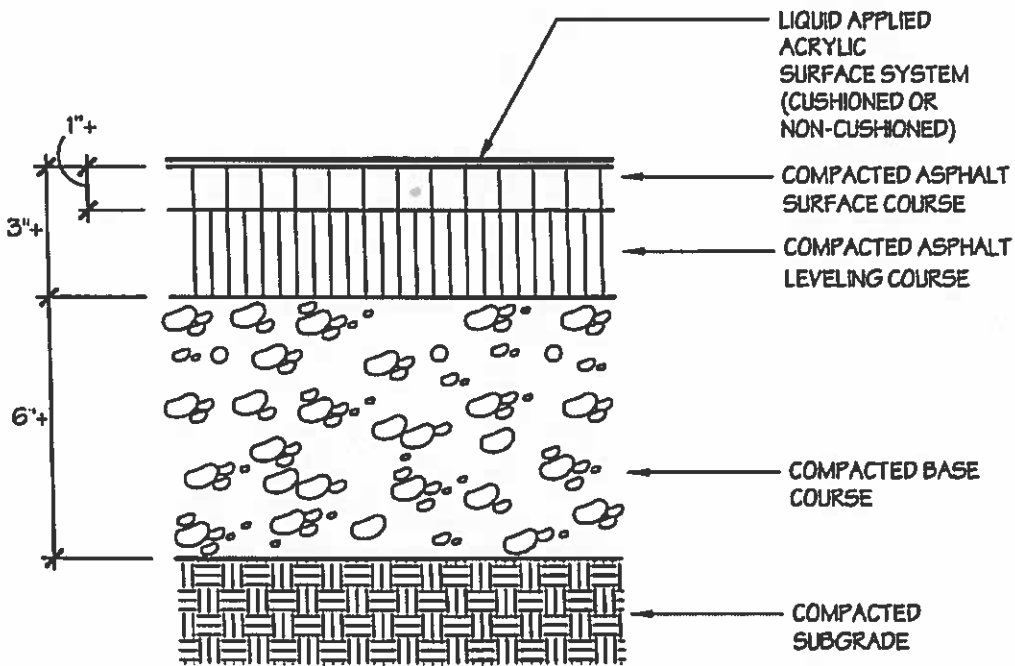


Google Earth

NOTE:  
RECOMMENDED COURT SLOPE:  
FROM: 0.83%  
TO: 1.00%



ASPHALT COURT FOR NON FREEZE/THAW CLIMATE



ASPHALT COURT FOR FREEZE/THAW CLIMATE

## ASPHALT COURT SECTIONS

NOT TO SCALE 1" (Inch)=25.4mm 1'(foot)= 305mm

24ASPHAVL.09



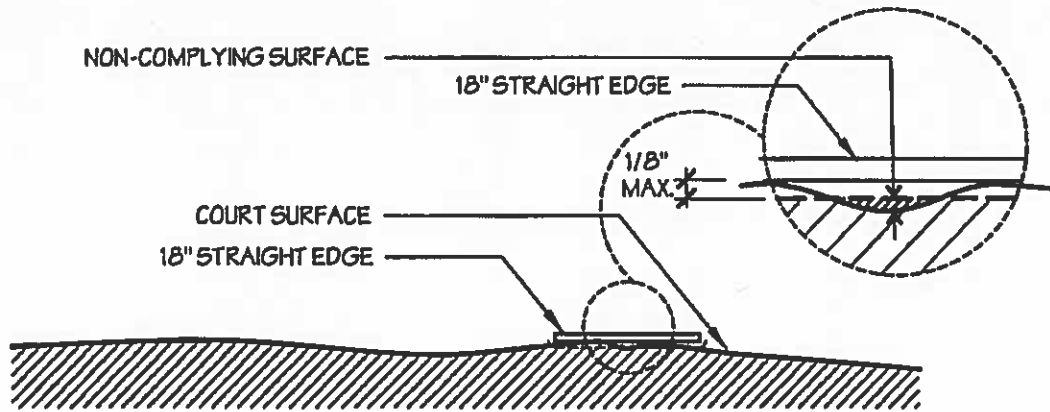
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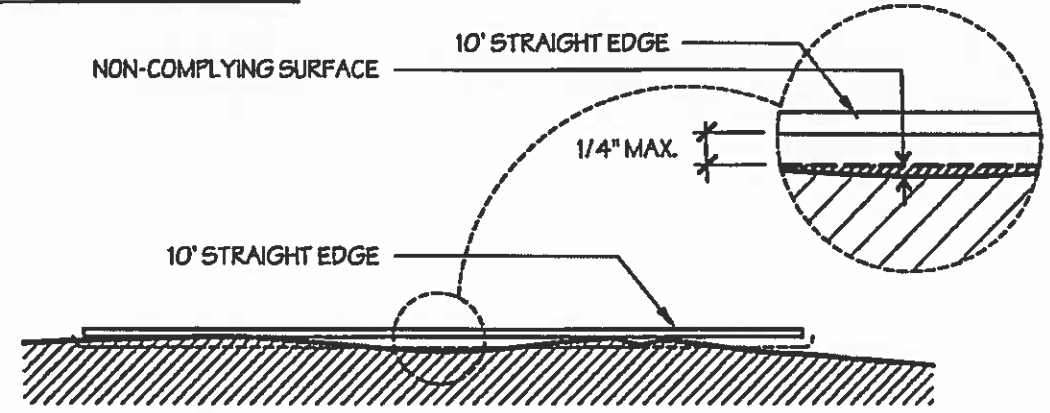
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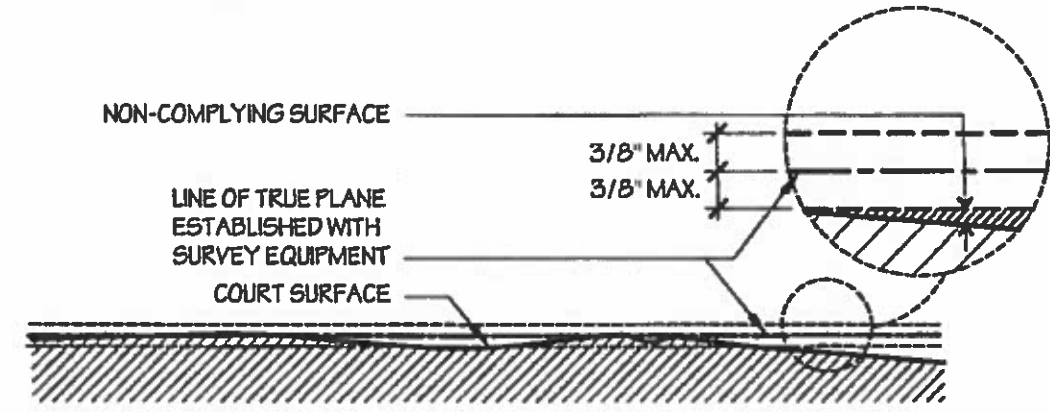




SMALL IRREGULARITIES



CHECKING EVENNESS



CHECKING PLANARITY

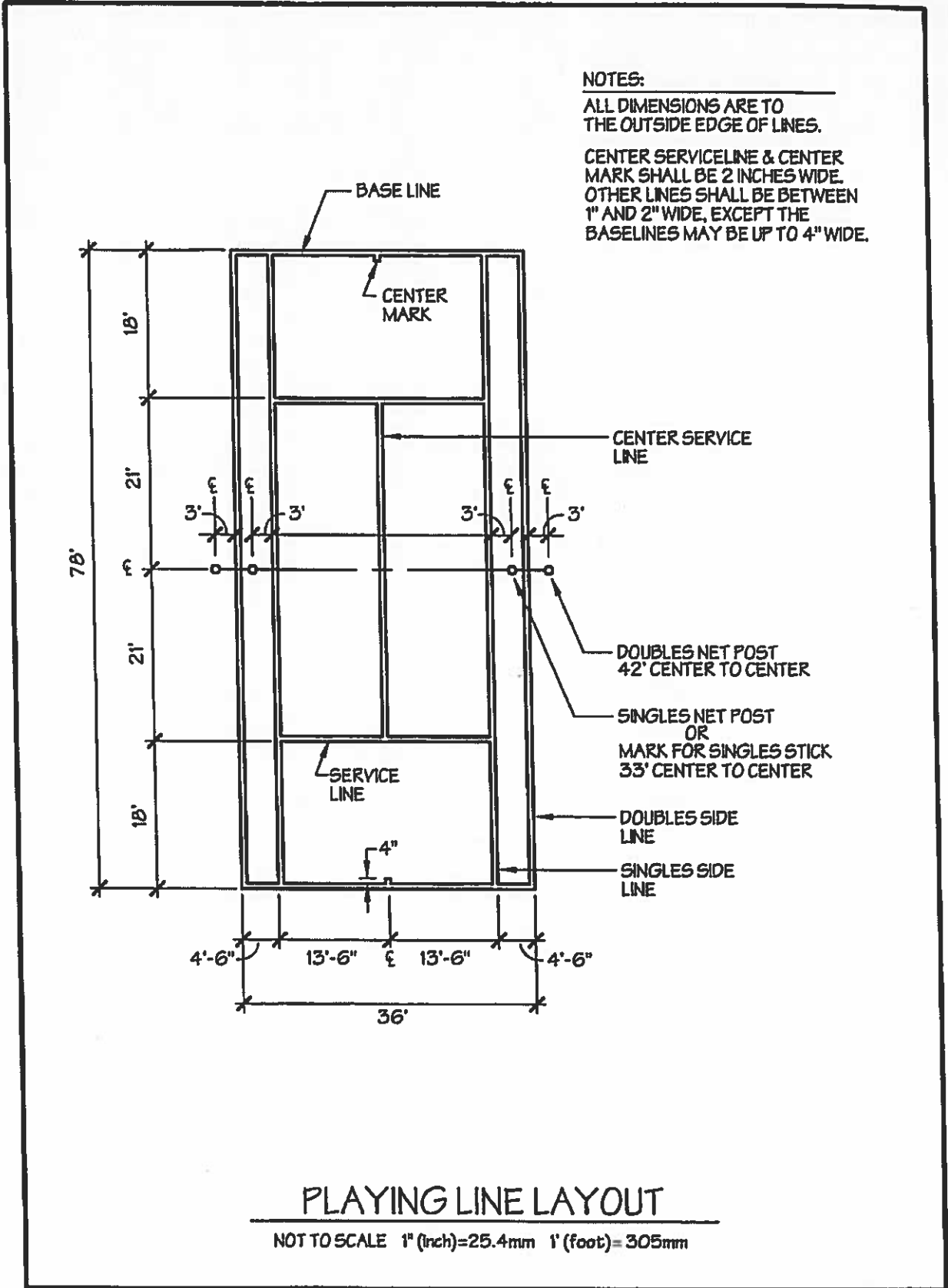
**ILLUSTRATION OF HOW TO CHECK  
PLANARITY, EVENNESS & IRREGULARITIES**

NOT TO SCALE 1" (inch) = 25.4mm 1' (foot) = 305mm

27PELAVL.09



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O1PLINES.AVL.09



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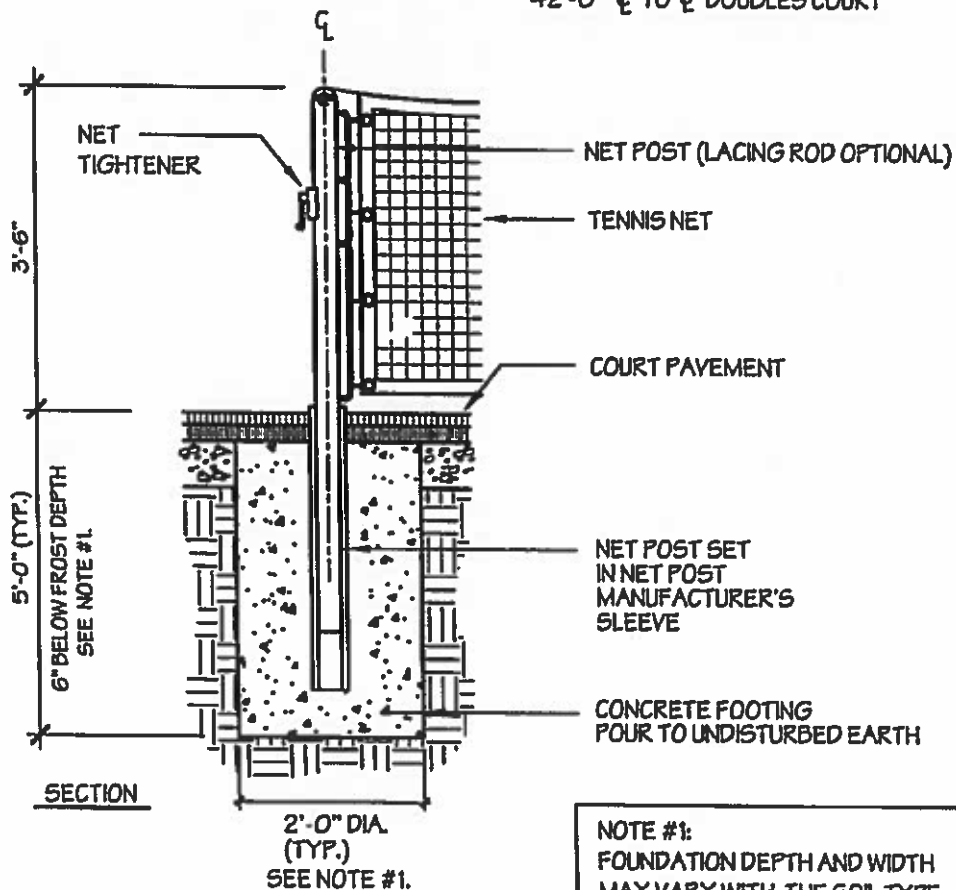


DRAWINGS ARE ILLUSTRATIVE ONLY AND ASBA AND USTA ACCEPT NO RESPONSIBILITY FOR THEIR USE.

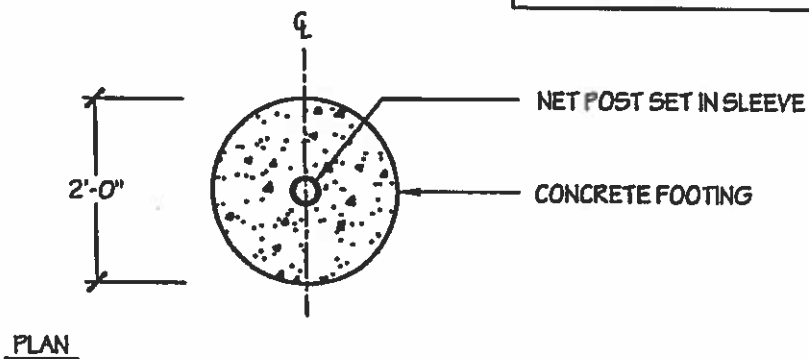
NET POST LOCATIONS:

33'-0"  $\phi$  TO  $\phi$  SINGLES COURT

42'-0"  $\phi$  TO  $\phi$  DOUBLES COURT



NOTE #1:  
FOUNDATION DEPTH AND WIDTH  
MAY VARY WITH THE SOIL TYPE  
AND STRENGTH OF THE NET POST



TENNIS NET POST FOOTING - CYLINDER SHAPE

NOT TO SCALE 1" (inch)=25.4mm 1' (foot)=305mm

3INPOST2.AVL.09



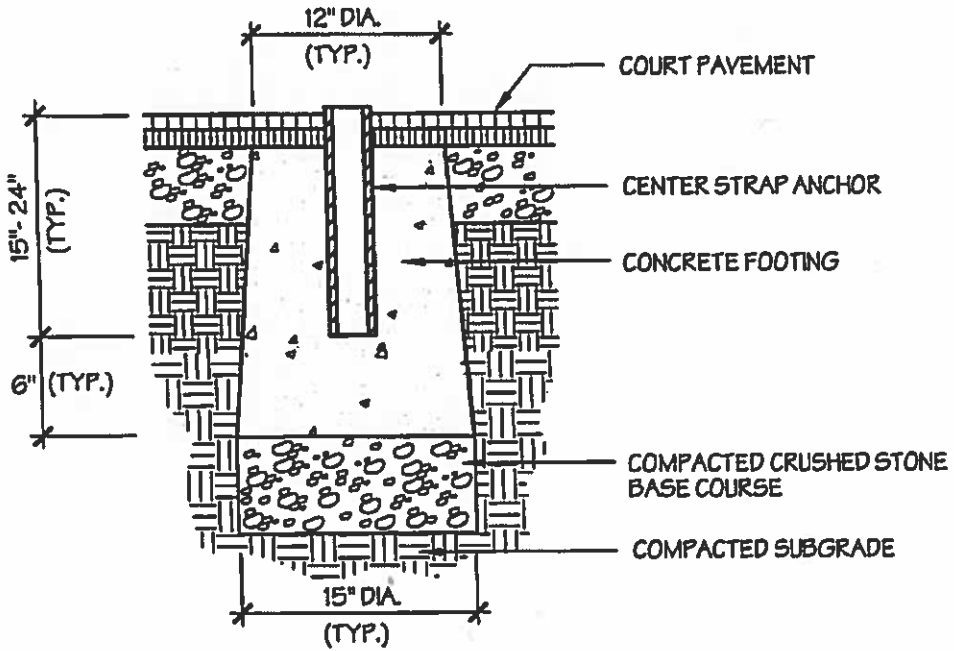
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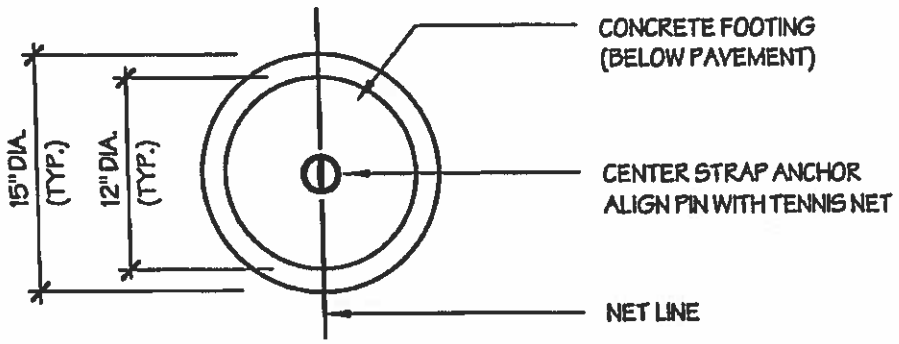
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NOTE:  
 IN AREAS SUSCEPTIBLE TO  
 FROST HEAVING, INCREASE  
 FOOTING DEPTH TO 24"+



SECTION



PLAN

**TENNIS NET CENTER STRAP ANCHOR**

NOT TO SCALE 1" (inch)=25.4mm 1' (foot)= 305mm

33CSTRAP.AVL.09

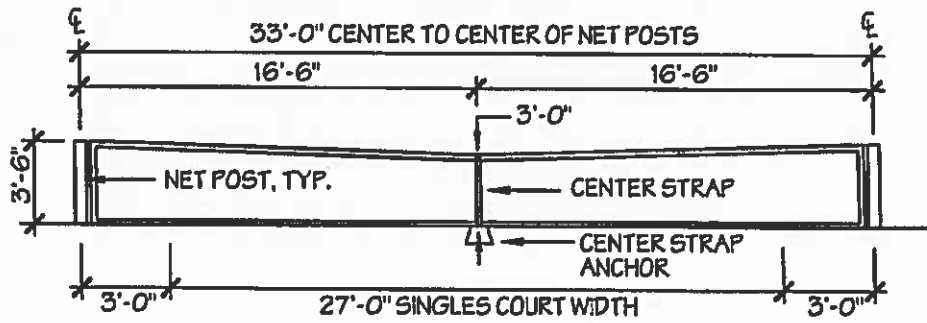


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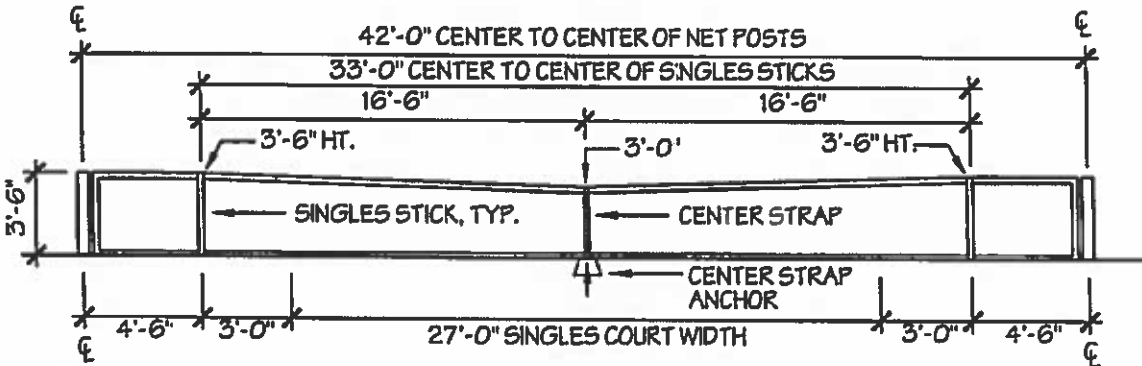


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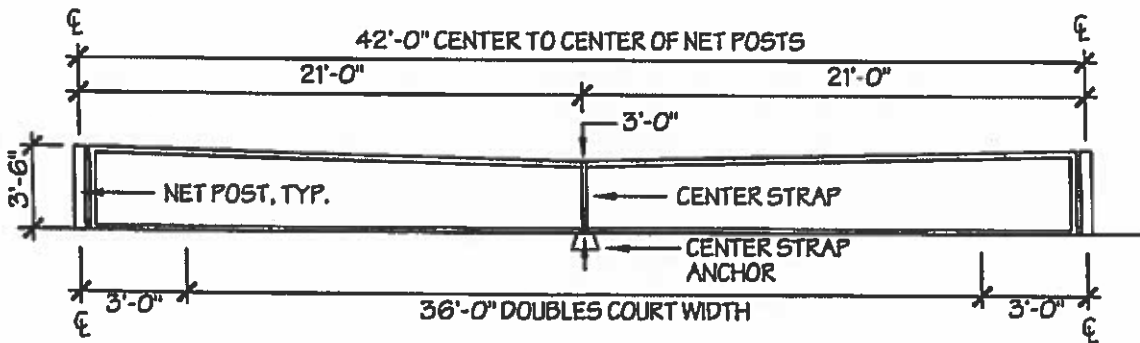
NOTE:  
 THE NET SHOULD BE INSTALLED  
 WITH A RECOMMENDED TENSION OF 400 LBS. - 550 LBS.



SINGLES NET



DOUBLES NET W/ SINGLES STICKS



DOUBLES NET

## TENNIS NET ELEVATIONS

NOT TO SCALE 1" (inch) = 25.4mm 1' (foot) = 305mm

32NETELEV.AVL.09



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## Recommended Illumination for Outdoor Tennis Facilities

Recommended Horizontal Illumination				
Performance Criteria	Class I	Class II	Class III	Class IV
Average Maintained Horizontal Footcandles within PPA (1,2,4)	125+ (1250 lux)	75 (750 lux)	50 (500 lux)	30 (300 lux)
Minimum Maintained Horizontal Footcandles within PPA (2,4)	100 (1000 lux)	60 (600 lux)	40 (400 lux)	20 (200 lux)
Maximum Uniformity Ratio (3)	1.5	1.7	2.0	2.0

Recommended Vertical Illumination				
Performance Criteria	Class I	Class II	Class III	Class IV
Average Maintained Vertical Footcandles within PPA (1,2,4)	50 (500 lux)	30 (300 lux)	20 (200 lux)	NA
Maximum Uniformity Ratio (3)	2.0	3.0	3.0	NA

**Notes:**

1. Maintained footcandles is determined by applying a light loss factor (LLF) to the initial or measured footcandles. LLF is dependent upon lamp characteristics, fixture maintenance, voltage variations, and atmospheric conditions. It normally varies between .6 and .85. Consult the Illuminating Engineering Society handbook and fixture manufacturer's publications for proper LLF values.
2. Average maintained and minimum maintained footcandles should be calculated within the Primary Playing Area (PPA) with the footcandle values multiplied by the appropriate LLF.
3. Uniformity ratio is defined as the ratio of the maximum footcandles divided by the minimum footcandles.
4. Primary Playing Area (PPA) is defined as the area that includes 6' beyond the sidelines and 10' behind the baseline.

Typical Facility Classifications			
Class I (1)	Class II	Class III	Class IV
Professional	Satellite (3)	College (4)	High School
International	Challenger (3)	High School	Tennis Clubs (6)
Satellite	College (2)	Tennis Clubs	Parks/Recreational (6)
Challenger	Parks/Recreational (6)	Residential	College (5)
College	Residential (6)	Parks/Recreational (6)	
	Tennis Clubs (6)		

**Notes:**

1. Class I facilities generally involve broadcast quality television production. These facilities will include permanent spectator accommodations.
2. Facilities which host intercollegiate play, but without broadcast television requirements. These facilities may have permanent or temporary seating.
3. Professional tennis events without broadcast television requirements.
4. Collegiate facilities primarily used for practice or for intramural or recreational play.
5. Collegiate facilities used strictly for recreational play.
6. Please note that some facility types appear in multiple categories. Illumination levels for a specific facility should be chosen based on the highest skill level, or spectator and television requirements that will take place at the facility. See the descriptions for more detailed information about each class. It is recognized that older players require higher light levels. Facilities with older average player ages should be designed for higher levels of light.



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