GUIDE SPECIFICATIONS FOR CONSTRUCTION OF AN ASPHALT SUB BASE FOR MATEFLEX TENNIS SURFACE

1. GENERAL REQUIREMENTS

   a. Scope of Work to be Done. The contract work to be performed under these specifications consists of furnishing all of the required labor, materials, equipment, implements, parts and supplies necessary for asphalt surface preparation for Mateflex modules.

   b. Insurance. The Contractor shall provide reasonable and adequate casualty insurance, including employer's liability and public liability insurance and include the cost thereof in the contract sum.

   c. Guarantee. The Contractor and any subcontractors hereunder guarantee their respective work against defective materials and workmanship.

2. SITE INSPECTION AND PREPARATION

   a. Inspection and Selection. The site shall have been inspected by the owner and determined by him to be suitable for construction of the tennis court. Inspection shall include examination of the soil by a soil engineer to establish its suitability as a foundation for the court.

   b. Clearing and Grubbing. Trees and other vegetation including their root systems to a depth of not less than twelve inches (12") shall be removed from the site and the soil treated with a sterilizer that will effectively inhibit future growth of flora.

   c. Excavation. The site shall be excavated to a depth so as to provide finished asphalt level as required.

   d. Fillings. Soil conditions must be stable and have suitable bearing properties, not wet or spongy. Fill material shall be placed in layers not exceeding six inches (6") each in thickness and compacted to 95 percent standard density at optimum moisture.

3. DRAINAGE PROVISIONS

   a. All drains must be interconnected and empty into drain provided by owner.

   b. Interceptor Drainage System. A peripheral drainage system shall be installed as may be necessary so as to intercept and drain either surface or subsurface water that would otherwise drain over or under the court.

Guide Specifications (Cont'd)

4. BASE CONSTRUCTION

a. Cushion. Cushion material under paved areas shall consist of a clean 5" layer of granular A (5/8" road gravel) place-compacted to 100% Standard Proctor Density.

b. Base. The base course should be constructed of hot-laid bituminous asphaltic concrete installed over the sub base a depth of not less than that that is equal to four inches (4") of thoroughly compacted crushed aggregate. This material should be spread and compacted so as to produce a uniform thickness and density. Compaction should be performed with a powered steel wheel roller rated at not less than eight (8) tons or more than ten (10) tons. The surface of the base course should not vary more than one-half inch (1/2") in ten feet (10') measured in any direction.

5. LEVELING COURSE AND SURFACE COURSE

a. A #4 asphalt mix or a suitable asphalt emulsion mix with a maximum aggregate size of three-eighths inch (3/8") in accordance with asphalt institute specifications should be constructed over the base course with a compacted thickness of not less than two inches (2"). The surface should be compacted with a powered steel wheel tandem roller rated at not less than two (2) tons or more than six (6) tons. After compaction, the surface should not vary more than one-eighth inch (1/8") in ten feet (10') when measured in any direction.

6. SLOPE REQUIREMENTS

a. Slope Requirements. All excavating, filling, compacting, grading and leveling work required hereunder shall be performed so that the finished court surface slopes one inch (1") in each ten feet (10') on a true plane from side to side toward the drain. (6" drop on 60' of court width.)

b. Extreme care must be taken in insure a dead level finish in the asphalt with no pockets to trap and hold water.

c. Curb. It is advisable to install a concrete curb around the perimeter of new asphalt courts. This provides a more secure fastening for the Mateflex. The curb should be twelve inches (12") wide and approximately six inches (6") deep and located within the fencing.

Guide Specifications (cont'd)

7. NET AND EQUIPMENT

a. Post Foundations. Post foundations shall be not less than twenty-four inches (24") in diameter at the top, not less than thirty inches (30") in diameter at the bottom, not less than thirty-six inches (36") in depth. Foundations shall be so situated as to provide a clear distance between posts of forty-two feet (42'). Concrete for foundations shall be mixed in ratios of six (6) standard 94 pound sacks of cement per cubic yard of concrete, with one (1) such sack of water, attaining a compressive strength of not less than three thousand five hundred (3,500) pounds per square inch at the twenty-eighth (28^{th}) day after pouring. Foundations shall be so designed and poured and the posts so set as not to cause cracking or other damage to the finished surface.

b. Net Posts. Posts shall be set plumb and true so as to support the net at a height of forty-two and one-half inches (42-1/2") above the court surface at the net posts.

c. Center Strap Anchor. A center strap anchor shall be positioned and set in concrete footings measuring twelve inches by twelve inches by twelve inches (12" x 12" x 12").

NOTE: Due to the modular construction of Mateflex, net posts and fencing should be absolutely square to each other in order to minimize excess trimming of the Mateflex along the fence perimeter.