

**HYDROCOURT CONSTRUCTION SPECIFICATIONS
NEW COURTS
SUBGRADES AS SPECIFIED**

SUBGRADE: The sub-base should be constructed of a suitable, clean, and compactable material. The material should be compacted to a rate of 95% of maximum compaction. The subgrade can either be LEVEL, sloped from SIDE to SIDE, or END to END on a true plane of 0.28% (1" in 30'). When applicable a thin stone screening layer should be laid between the sub-base and the HydroCourt liner material.

Conversion from "HARD" surfaced court to HydroCourt subgrade can be accomplished by the additional placement of fill material. Fill material should be clean, compactable to a rate of 95%, and sloped 0.28%. Fill areas must be able to support a curbing system. Additional reinforcement may be needed to stabilize such a system.

CURB: LEVEL SUBGRADE: Curb at drainage end or side of court must be at least 5.5" in height above subgrade. The top of the curb will reflect a slope of 1" in 30'. Therefore, the curb will be 9.5" above subgrade at the opposite end if drainage is END to END, or the curb will be 7.5" above subgrade on the opposite side if drainage is SIDE to SIDE.

SLOPED SUBGRADE: Curb around entire court area will be height of 6.25" above subgrade in END to END configuration or 7.5" above subgrade in a SIDE to SIDE configuration. In both cases the curb conforms to the 1" in 30' slope of subgrade.

Note: When hand screeding stone screenings and surface, the curb heights should be 1/2" lower than listed above.

CELL CONFIGURATION: Cells (20'x60') may be arranged parallel or perpendicular to the net with three cells on each half court. Channel for access pipes will be provided during placement of rock.

ACCESS PIPES & WATER CONTROLS: Access pipes must be level or planar to a degree of not more than a 0.28% slope to allow free flow of water and prevent airlocks in pipes. Water control boxes will be set below subgrade at the low end of the court on stable surface (concrete, stone, bricks), and connected to an acceptable drainage system. If cells are at different levels the pipes may enter the control boxes at different levels.

LINER: Liners to be 20 mil Hyperplastic or equivalent.

STONE: Ballast stone liners to be clean .05" or .075" crushed rock containing no fines. Note: Stone to be non-soluble (be cautious of some limestone).

Stone screenings to have approximate top size of 0.25” and no more than 10% dust content passing #200 mesh. Screening samples should be approved by manufacturer. Stone screening should be placed to a minimum depth of 2” after compaction.

Ballast stone will be installed in each cell to a minimum height of 2.5” in any cell. With LEVEL subgrade the stone level will be 2.5” below the curb at the drainage end or side of the court. In the END to END configuration the level of the stone in each cell will be slightly (0.67”) lower than the one above it (stairstep effect). In all configuration, the stone will have a minimum height of 2.5” in the cell. Water pipes must be installed through liner using bulkhead fittings with gasketing material on both sides of the cell liner.

After sufficient ballast stone is installed in a cell, the stone must be accurately leveled. This accomplished by filling that cell with water to approximately the stone depth. Stone may then be leveled using the water level as a guide. This water level should be maintained for a period of 24 hours to verify liner integrity. Drain cell when finished. At this time the excess liner may be trimmed to a minimum of 1.5” and corner folds checked to insure no leaks and to prepare for the geotextile.

GEOTEXTILE: Phillips Fiber Supac #4NP or equivalent.

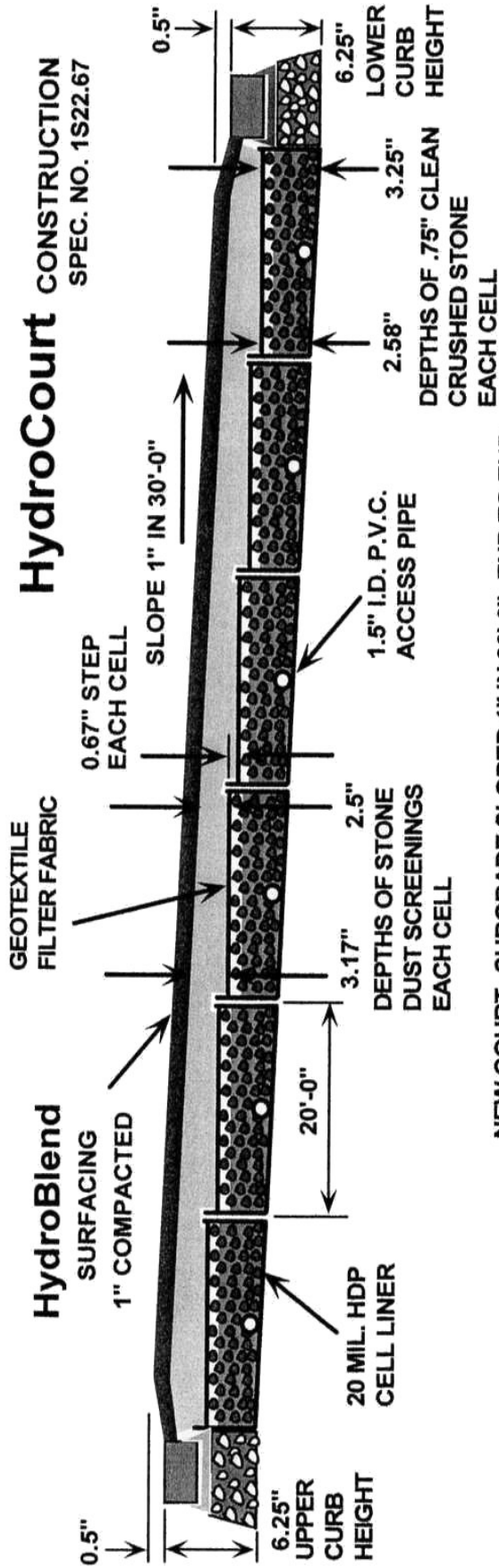
After cells have been leveled and drained, the individual cell areas must be covered with geotextile in order to prevent infiltration of ballast stone from the screening material. Care must be taken at edges to ensure a tight seal. Then screenings may be leveled, compacted, and the surface material installed.

SURFACE MATERIAL: LEE HYDROBLEND surface material to be installed at a depth of 1.25” which compacts to approximately 1”. This material should be placed so that the finished elevation is 0.5” above the elevation of the top of the low side curb.

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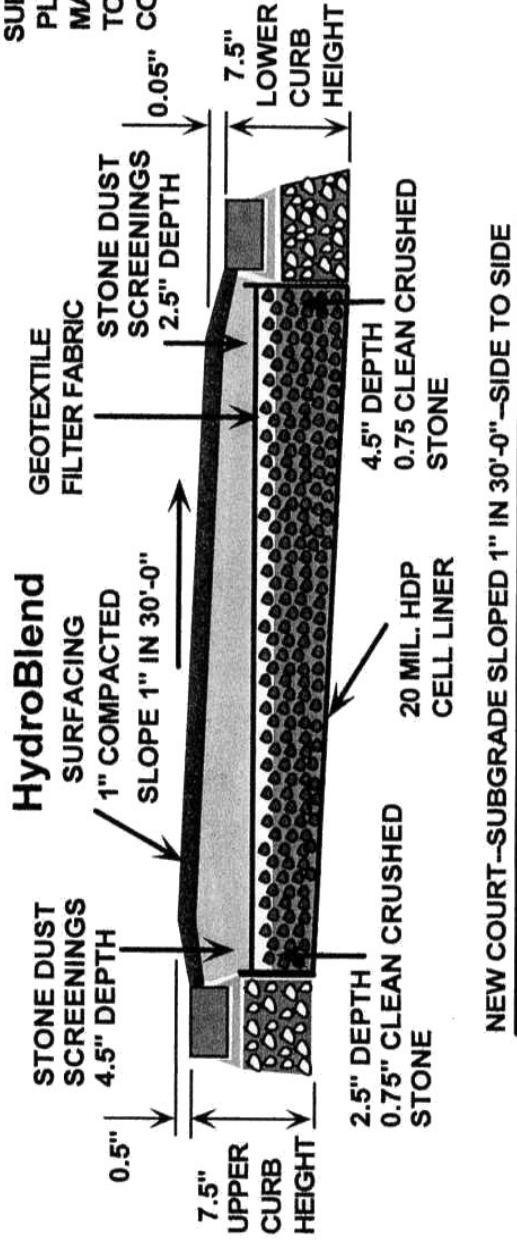
HydroCourt CONSTRUCTION

SPEC. NO. 1S22.67



NEW COURT—SUBGRADE SLOPED 1" IN 30'-0"—END TO END

NOTE:
SUBGRADE TOLERANCE PLUS OR MINUS 1/2" MAXIMUM. MATERIAL TO BE CLEAN AND COMPACTED.



NEW COURT—SUBGRADE SLOPED 1" IN 30'-0"—SIDE TO SIDE