

Controlled Density Fill Provides Form for Concrete Foundation

Value engineering for the covers of two square wastewater treatment clarifiers led to the development of a unique design of space frames. The framing scheme distributes forces in a uniform manner throughout the structure. This allows the use of a constant member depth and simplifies connections. The geometry consists of intersecting trusses in the under-framing that run perpendicular to the supporting walls, and a top surface network of intersecting arches aligned at 45 degrees from the trusses. The juxtaposition of the arches onto the top chords of the trusses results in a triangulated pattern in the top surface. This particular space frame design can cover square or nearly square facilities of all kinds.

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