

MACTON® Turntable Divisible Auditoriums

CONSTRUCTION COST STUDY - Kentlake High School Kent, WA

The auditorium is divisible into three instructional areas by the use of revolving turntables.

BASIS FOR THIS COST COMPARISON STUDY – This data was taken from a study conducted by Burr Lawrence Rising & Bates Architects, P.S. on the 2 TDA's proposed for the 600-seat auditorium at Kentlake High School located in Kent, Washington.

OVERALL CONCLUSION OF STUDY – The study concluded that the installation of the TDAs at this school resulted in a 6% cost reduction in overall construction costs, as a result of the elimination of duplicative auditorium and classroom space. The TDA project at this school is fairly typical, but your actual cost savings may be higher or lower than these amounts, depending on the specifics of your project.

CONVENTIONAL AUDITORIUM

(1) 600-seat auditorium and (2) additional 125-seat lecture areas

Total Square Footage Required for auditorium and two lecture areas: **13,400 SQ. FT.**

Cost for Basic Auditorium:	10,400 sq. ft. x \$165/sq. ft. = \$1,716,000
Cost for 2 Lecture Halls (1,500 sq. ft. each):	3,000 sq. ft. x \$150/sq. ft. = \$450,000
Total Cost:	13,400 sq. ft. x \$162/sq. ft. = \$2,166,000

AUDITORIUM WITH 2 TDAs

(1) 600-seat auditorium and (2) 125-seat lecture areas created by TDA's

Total Square Footage Required: **10,900 SQ. FT.**

Total Cost: 10,900 sq. ft. x \$187/sq. ft. = \$2,038,300

COMPARISON TO THE CONVENTIONAL ALTERNATIVE:

- Less overall square footage required, resulting in less overall construction costs
- Total cost savings of 6%
- Main auditorium adaptable to either 600, 475 or 350 seat capacity with the 350 seat configuration most regularly used
- 3 instructional areas created, consisting of 350 seats, 125 seats and 125 seats
- Small fixed lecture area also created, suitable for small groups of 15-20, which can be used for rehearsal or setup
- Conversion can take place between periods (2-3 minute push-button operation)
- Smaller footprint for this facility (provides more fields, parking or other school space)
- Entrance lobby serves all three spaces for shortened walking distances
- Lower recurring HVAC operating expenses due to elimination of extra space

To learn how you can integrate a TDA into your next educational facility, please email us at: TDA@macton.com, call us at **800-334-TURN** or visit www.macton.com/tda.



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The Macton Corporation
116 Willenbrock Road
Oxford, CT 06478
www.macton.com | 800-334-TURN