



stamo.com

South Texas Association of  
School Maintenance Officials

REGULAR MEETING AGENDA  
September 27, 2017 (Wednesday)

To: Registered School Officials and Supporting Vendors  
From: Daniel G. Cantu, President  
Location: Weslaco Partnership Chamber, Weslaco TX

CUSTOD OF YR; Mario Munoz, STCSO  
MAINT " " 1 Concepcion Escamilla, McAAllen

10:30- 10:45 Call to Order/ Business of the Organization

- Reading/Approval of Minutes
- Treasurer's Report
- President's Report
  - Summer Conference Report
- New Business

46 SCHOOL (14 Districts)  
40 VENDORS (24/25 tables)  
- 10 Presenters  
- 96  
- \$\$ Recvd \$19,366  
- Conf Expense 7,979

10:45- 11:00 Introductions

- Welcoming of Presenter
- ✓▪ Self-Introductions & District Summer Work Achievements & Lessons Learned

- Highlight - \$11,387  
2018 - Manachis  
7125  
- TABBO, 18-20 JUN

11:00- 11:30 Presentations:

- 11:00- 11:30 "Bleacher Safety & Inspections" by Noe Olivares of Reno Bleachers
- ~~11:30- 11:45~~ <sup>1</sup>Chair & Membership Announcements, <sup>2</sup>Incentives & Door Prize Give Away
- 12:00- 12:20 "Floor Maintenance Equipment & Battery Technology" by John Svendsen

11:45- 12:30 Lunch

Our Next Regular Meeting will be **Nov 29, 2017**, at the RGV Chamber of Commerce, Weslaco.  
Presenters are Stanley Security Solutions & TBD

- ✓ <sup>1</sup>Announcements from members & vendors should be kept to a minute or less. Please provide/make available handouts as appropriate.
- ✓ <sup>2</sup>Vendors, feel free to bring in an item(s) to give out as a **door prize**. In the event of a plethora of door prizes the Chair (me) reserves the right to holdover the prize to the next meeting.
- ✓ Chamber internet password is, **9683141**

# STASMO MONTHLY FINANCIAL STATEMENT

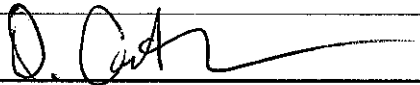
(Capitol One Bank)

**September 26, 2017**

Previous Report Balance, :	\$	20,738.86
Activity Balance below:	\$	(70.85)
<b>Current Actual Balance:</b>	<b>\$</b>	<b>20,668.01</b>

<b>Assets</b>	<b>Amt in Dollars</b>
Current Balance: checking account (2377)/ As Of 8/31/17	<b>\$20,743.01</b>
Certificates of deposit	\$0.00
Notes & contracts receivable	\$0.00
Other assets (specify)	\$0.00
<b>Total Assets</b>	<b>\$ 20,743.01</b>

<b>Liabilities</b>	<b>Amt in Dollars</b>
Current Debt (Credit cards, Accounts)	\$0.00
Notes payable (describe below)	\$0.00
<b>Total Liabilities</b>	<b>\$0.00</b>
<b>Net Worth (total assets - total liabilities)</b>	<b>\$20,743.01</b>

**Signature:**  **Date:** 9/26/17

<b>Date</b>	<b>Activity Description</b>	<b>Revenue</b>	<b>Expenditure</b>
04/04/17	SR Fax		\$6.95
05/02/17	SR Fax		\$6.95
05/12/17	Deposit, Conference fees	\$2,146.00	
05/12/17	Deposit, ACH Conference fees	\$600.00	
05/19/17	Conference, Incentives (x4 to Natl Pen Co)		\$555.60
05/22/17	Deposit, ACH, Conference fees, PP Transfer	\$2,615.33	
05/22/17	Credit, Refund on Boat Tour	\$350.00	
05/24/17	ATM W/D for Incentives Purchase		\$150.00
05/30/17	Academy, Incentives		\$119.02
05/31/17	Scholarship Checks (x3)		\$3,000.00
06/01/17	Cobbleheads, 1/2 Deposit		\$2,140.60
06/02/17	Deposit, Bank	\$2,420.00	
06/02/17	SR Fax		\$6.95
06/02/17	Scholarship Checks (x2)		\$2,000.00
06/05/17	Walgreens, Port Isabel		\$211.90
06/07/17	Team Graphix, Shirts, Plaque, Check		\$136.00
06/07/17	Walmart, Bville		\$160.21

PROVIDED BY RENO Sports Seating 9/27/17  
 LaFeria, TX  
 GRANDSTANDS & TELESCOPIC BLEACHERS

**Report on Proposals** — Copyright NFPA  
 a surfacing not exceeding a thickness of 1/8 in. (3.2 mm) that has a flame spread index not greater than 50; and (2) materials, in the form and thickness used, other than as described in (1), having neither a flame spread index greater than 25 nor evidence of continued progressive combustion, and of such composition that surfaces that would be exposed by cutting through the material on any plane would have neither a flame spread index greater than 25 nor evidence of continued progressive combustion. [220:2.1]

5.3.2 Grandstands and bleachers shall be permitted to be of Type III, Type IV, or Type V construction when designed in accordance with Section 5.7. [5000:32.7.3.2]

**3.3.12\* Means of Egress.** A continuous and unobstructed way of travel from any point in a building or structure to a public way consisting of three separate and distinct parts: (1) the exit access, (2) the exit, and (3) the exit discharge. [5000:3.3]

**5.4 Design.** [5000:32.7.4]  
**5.4.1** Grandstands shall be designed to withstand the structural loading requirements of Chapter 35 of NFPA 5000, *Building Construction and Safety Code* unless otherwise permitted by 5.4.2. [5000:32.7.4.1]  
**5.4.2** The manufacturer shall comply with the requirements of 5.4.2.1 and 5.4.2.2. [5000:32.7.4.2]

**3.3.13 Membrane.** For the purposes of membrane structures, a thin, flexible, water-impervious material capable of being supported by an air pressure of 1.5 in. water column (38 mm water column). [5000:3.3]

**5.4.2.1** Where required by the authority having jurisdiction, the manufacturer shall submit either of the following:  
 (1) Calculations verifying the design analysis prepared by a professional engineer or registered architect  
 (2) Report of load tests conducted by an approved, independent testing laboratory and certified by a professional engineer [5000:32.7.4.2.1]

**3.3.14 Membrane Structure.** A building or portion of a building incorporating an air-inflated, air-supported, tensioned-membrane structure; a membrane roof; or a membrane-covered rigid frame to protect habitable or usable space. [5000:3.3]

**5.4.2.2** Where required by the authority having jurisdiction, the manufacturer shall certify that the equipment supplied is in accordance with the design. [5000:32.7.4.2.2]

**3.3.15 Noncombustible Material.** A material that, in the form in which it is used and under the conditions anticipated, will not ignite, burn, support combustion, or release flammable vapors, when subjected to fire or heat. Materials that are reported as passing ASTM E 136, *Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 Degrees C*, are considered noncombustible materials. [5000:3.3]

**5.5 Seating.** [5000:16.4.8.2]  
**5.5.1** Where grandstand seating without backs is used indoors, rows of seats shall be spaced not less than 22 in. (55.9 cm) back-to-back. [5000:16.4.8.2.1]  
**5.5.2** The depth of footboards and seat boards in grandstands shall be not less than 9 in. (22.9 cm). Where the same level is not used for both seat foundations and footrests, footrests independent of seats shall be provided. [5000:16.4.8.2.2]

**3.3.16 Permanent.** Any object that is intended to remain in place for more than 180 days. (See also 3.3.19.) [5000:3.3]

**5.5.3** Seats and footrests of grandstands shall be supported securely and fastened in such a manner that they cannot be displaced inadvertently. [5000:16.4.8.2.3]  
**5.5.4** Individual seats or chairs shall be permitted only if secured in rows in an approved manner, unless the seats do not exceed 16 in number and are located on level floors and within railed-in enclosures, such as boxes. [5000:16.4.8.2.4]

**3.3.17 Private Party Tent.** A tent erected in the yard of a private residence for entertainment, recreation, dining, a reception, or similar function. [5000:3.3]

**5.5.5** The maximum number of seats permitted between the farthest seat in an aisle in grandstands and bleachers shall not exceed that shown in Table 5.5.6. [5000:16.4.8.2.5]

**3.3.18 Professional Engineer.** A person licensed to practice engineering in a jurisdiction, subject to all laws and limitations imposed by the jurisdiction. [5000:3.3]

**Table 5.5.6 Maximum Number of Seats Permitted Between Farthest Seat and an Aisle**

**3.3.19 Temporary.** Any object that is in place for a period of 180 consecutive days or less. (See also 3.3.16.) [5000:3.3]

Application	Outdoors	Indoors
Grandstands	11	6
Bleachers	20	9

**3.3.20 Tensioned-Membrane Structure.** A membrane structure incorporating a membrane and a structural support system such as arches, columns and cables, or beams wherein the stresses developed in the tensioned membrane interact with those in the structural support so that the entire assembly acts together to resist the applied loads. [5000:3.3]

**5.5.6** Vertical openings between guardrails and footboards or seat boards shall be provided with intermediate construction so that a 4-in. (10.2-cm) diameter sphere cannot pass through the opening. [5000:16.4.8.6.4]  
**5.5.7** An opening between the seat board and footboard located more than 30 in. (76 cm) above grade shall be provided with intermediate construction so that a 4-in. (10.2-cm) diameter sphere cannot pass through the opening. [5000:16.4.8.6.5]

**3.3.21\* Tent.** A temporary structure, the covering of which is made of pliable material that achieves its support by mechanical means such as beams, columns, poles, or arches, or by rope or cables, or both. [5000:3.3]

**5.6 Guards and Railings.** [5000:16.4.8.6]  
**5.6.1** Railings or guards not less than 42 in. (107 cm) above the aisle surface or footrest or (not less than 36 in. (91 cm) vertically above the center of the seat or seat board surface, whichever is adjacent, shall be provided along those portions of the backs and ends of all grandstands where the seats are more than 4 ft (1.2 m) above the floor or ground. [5000:16.4.8.6.1]  
**5.6.2** The requirement of 5.6.1 shall not apply where an adjacent wall or fence affords equivalent safeguard. [5000:16.4.8.6.1]  
**5.6.3** Where the front footrest of any grandstand is more than 2 ft (0.6 m) above the floor, railings or guards not less than 33 in. (84 cm) above such footrests shall be provided. [5000:16.4.8.6.2]  
**5.6.4** The railings required by 5.6.3 shall be permitted to be not less than 26 in. (66 cm) high in grandstands or where the front row of seats includes backrests. [5000:16.4.8.6.2]

**3.3.22 Weathered-Membrane Material.** Membrane material that has been subjected to a minimum of 3000 hours in a weatherometer in accordance with ASTM G 155, *Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials*, or approved equivalent. [5000:3.3]

**Chapter 4 Means of Egress**

**4.1 New Facilities.** New facilities included within the scope of this Standard shall comply with one of the following:

- (1) the means of egress provisions of 101, *Life Safety Code* for the applicable occupancies
- (2) the means of egress provisions of NFPA 5000, *Building Construction and Safety Code* for the applicable occupancies

**4.2 Existing Facilities.** Existing facilities included within the scope of this Standard shall comply with the means of egress provisions of NFPA 101, *Life Safety Code* for the applicable occupancies.

**Chapter 5 Grandstands and Bleachers**

**5.1 General.** Grandstands and bleachers shall comply with the requirements of this chapter. [5000:32.7.1]

**5.2 Location.** Grandstands shall be erected or otherwise located only where load-carrying capacities exist to support the loads. [5000:32.7.2]

**5.3 Minimum Construction Requirements.** [5000:32.7.3]

**5.3.1** Grandstands and bleachers shall be permitted to be of unlimited area when of Type I or Type II construction. [5000:32.7.3.1]

**5.6.5** Cross aisles located within the seating area shall be provided with rails not less than 26 in. (66 cm) high along the front edge of the cross aisle. [5000:16.4.8.6.3]

**5.6.6** The railings specified by 5.6.5 shall not be required where the backs of the seats in front of the cross aisle project 24 in. (61 cm) or more above the surface of the cross aisle. [5000:16.4.8.6.3]

**5.6.7** Vertical openings between guardrails and footboards or seat boards shall be provided with intermediate construction so that a 4-in. (10.2-cm) diameter sphere cannot pass through the opening. [5000:16.4.8.6.4]

**5.6.8** An opening between the seat board and footboard located more than 30 in. (76 cm) above grade shall be provided with intermediate construction so that a 4-in. (10.2-cm) diameter sphere cannot pass through the opening. [5000:16.4.8.6.5]

### 5.7 Special Requirements — Type III, Type IV, and Type V Grandstands. [5000:32.7.5]

**5.7.1** An outdoor grandstand of Type III, Type IV, or Type V construction shall not be erected a distance less than two-thirds of its height from a building, but in no case shall the grandstand be erected less than 10 ft (3.0 m) from a building, unless one of the following criteria is met:

- (1) The exterior wall of the building is of at least 1-hour fire resistance-rated construction with all openings protected.
- (2) A fire wall of at least 1-hour fire resistance-rated construction is provided between the grandstand and the building. [5000:32.7.5.1]

**5.7.2** The following shall apply to outdoor grandstand units of Type III, Type IV, or Type V construction:

- (1) No outdoor grandstand unit shall exceed 10,000 ft<sup>2</sup> (929 m<sup>2</sup>) or 200 ft (61.0 m) in length.
- (2) Grandstand units of the maximum size shall be placed not less than 20 ft (6.1 m) apart or shall be separated by walls with a 1-hour fire resistance rating.
- (3) Not more than three units shall be erected in any one group.
- (4) Each group of less than three units shall be separated from any other group by a wall of 2-hour fire resistance-rated construction extending 2 ft (0.6 m) above the seat platforms or by an open space of not less than 50 ft (15.2 m).
- (5) Where entirely constructed of labeled fire retardant-treated wood that has passed the standard rain test in ASTM D 2898, *Standard Test Methods for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing*, or where constructed of members conforming to dimensions for heavy timber construction [Type IV (2HH)], the area or length specified by 5.7.2(1) shall be permitted to be doubled. [5000:32.7.5.2]

**5.7.3** The highest level of seat platforms above the ground or the surface at the front of the grandstand shall be as follows:

- (1) Grandstands of Type III, Type IV, or Type V construction—not more than 20 ft (6.1 m)
- (2) Portable grandstands of Type III, Type IV, or Type V construction within tents or membrane structures—not more than 12 ft (3.7 m) [5000:32.7.5.3]

**5.7.4** Where entirely constructed of labeled fire retardant-treated wood that has passed the standard rain test in ASTM D 2898 or where constructed of members conforming to dimensions for heavy timber construction [Type IV (2HH)], the heights specified by 5.7.3 shall be permitted to be doubled. [5000:32.7.5.4]

**5.8 Special Requirements—Portable Grandstands.** Portable grandstands shall conform to the requirements of this chapter for grandstands and the special requirements of Section 5.8. [5000:32.7.6]

**5.8.1 General.** Portable grandstands shall comply with the following:

- (1) Portable grandstands shall be self-contained, having within them all necessary parts to withstand and restrain all forces that might be developed during human occupancy.
- (2) Portable grandstands shall be designed and manufactured so that, if any structural members required for the strength and stability of the structure have been omitted during erection, the presence of unused connection fittings shall make the omissions self-evident.
- (3) The construction shall produce the strength required by the design.

- (4) Portable grandstands shall not be used until all parts have been erected, or re-erected, in accordance with the approved design and specifications.
- (5) The seating, walkways, railings, bracing, and supporting members shall be structurally sound. [5000:32.7.6.1]

**5.8.2 Placement.** The following shall apply to the placement of portable grandstands:

- (1) Portable grandstands shall be provided with base plates, sills, floor runners, or sleepers of such area that the allowable bearing capacity of the supporting material is not exceeded.
- (2) Where portable grandstands rest directly on a base where settlement can or does occur beyond that allowed by design, mud sills of suitable material having sufficient area to prevent undue or dangerous settlement shall be installed under base plates, runners, or sleepers.
- (3) All bearing surfaces shall be in full contact with each other. [5000:32.7.6.2]

**5.8.3 Prevention of Displacement.** A-frames or other supports and seat stringers for portable grandstands shall be secured to prevent accidental displacement during occupancy. [5000:32.7.6.3]

**5.8.4 Fasteners.** The following shall apply to fasteners for portable grandstands:

- (1) The use of nails, lag screws, and wood screws shall be permitted for holding wood parts together, provided that the following criteria are met:
  - (a) Nails, lag screws, and wood screws shall not be used for demountable joinings.
  - (b) Nails, lag screws, and wood screws shall not be used where their loosening or splitting of surrounding wood would jeopardize the structure or its occupants.
- (2) Members in tension shall be connected at each end by not less than two bolts, rivets, or lag screws or by approved connectors or other approved devices.
- (3) All ferrous fastenings and fastening devices shall be stainless steel or hot-dipped galvanized in accordance with ASTM A 153, *Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware*. [5000:32.7.6.4]

**5.9 Spaces Underneath Grandstands.** Spaces underneath a grandstand shall be kept free of flammable or combustible materials, unless protected by an approved, supervised automatic sprinkler system in accordance with NFPA 13, *Standard for the Installation of Sprinkler Systems*.]

- (1) This requirement shall not apply to accessory uses of 300 ft<sup>2</sup> (28 m<sup>2</sup>) or less where of noncombustible, limited-combustible, or fire-resistive construction, such as ticket booths, toilet facilities, or concession booths, in otherwise nonsprinklered facilities.
- (2) This requirement shall not apply to rooms enclosed in not less than 1-hour fire resistance-rated construction that are of less than 1000 ft<sup>2</sup> (93 m<sup>2</sup>) in otherwise nonsprinklered facilities. [5000:16.4.8.5]

**5.10 Maintenance.** Maintenance shall be provided as follows:

- (1) The owner shall provide for not less than annual inspection and required maintenance of each grandstand to ensure safe conditions.
- (2) At least biannually, the inspection shall be performed by a professional engineer or registered architect.
- (3) Where required by the authority having jurisdiction, the owner shall provide certification that both inspections have been performed. [5000:32.7.7]

## Chapter 6 Folding and Telescopic Seating

**6.1 Application.** Folding and telescopic seating shall be permitted only if the supporting structure has been designed to handle the loading and has the exit facilities to accommodate the occupants of the seating, as well as all other occupants. [5000:32.7.8.1]

**6.2 Design.** [5000:32.7.8.2]

**6.2.1 Structural Loading.** The design of folding and telescopic seating shall withstand the structural loading requirements of Chapter 35 of NFPA 5000, *Building Construction and Safety Code*. [5000:32.7.8.2.1]

**6.2.2 Load Tests.** Load tests in accordance with accepted engineering practice shall be permitted in lieu of the design analysis for a seating unit or part thereof. [5000:32.7.8.2.2]

**6.2.3 Manufacturer Requirements.** The manufacturer shall comply with the requirements of 6.2.3.1 and 6.2.3.2. [5000:32.7.8.2.3]

**6.2.3.1** Where required by the authority having jurisdiction, the manufacturer shall submit either of the following:

- (1) Calculations verifying the design analysis prepared by a professional engineer or registered architect
- (2) Report of load tests conducted by an approved, independent testing laboratory and certified by a professional engineer [5000:32.7.8.2.3.1]

**6.2.3.2** Where required by the authority having jurisdiction, the manufacturer shall certify that the equipment supplied is in accordance with the design or is essentially identical to the structure tested. [5000:32.7.8.2.3.2]

**6.3 Review and Approval.** [5000:32.7.8.2.4]

**6.3.1** Design and installation drawings shall be approved prior to installation, and seating shall be installed in conformance with such drawings. [5000:32.7.8.2.4.1]

**6.3.2** The drawings shall include the following:

- (1) Conformance with approved designs, which are permitted to refer to approved standard drawings, with any variations applicable to the job noted
- (2) Location of the folding or telescopic seating units and details of attachments, if any
- (3) Location of guards and details thereof [5000:32.7.8.2.4.2]

**6.3.3** The owner, or the owner's duly authorized representative, shall file with the authority having jurisdiction evidence of the following:

- (1) Capability of means of egress to accommodate the occupants of the seating, as well as all other occupants, based on Chapter 11 of NFPA 5000.
- (2) Structural capacity of the site to support the folding and telescopic seating dead loads when closed and also to support the dead loads and live loads when open [5000:32.7.8.2.4.3]

**6.4 Seating.** [5000:16.4.9.2]

**6.4.1** The horizontal distance of seats, measured back-to-back, shall be not less than 22 in. (55.9 cm) for seats without backs, and the following requirements shall also apply:

- (1) There shall be a space of not less than 12 in. (30.5 cm) between the back of each seat and the front of each seat immediately behind it.
- (2) If seats are of the chair type, the 12-in. (30.5-cm) dimension shall be measured to the front edge of the rear seat in its normal, unoccupied position.
- (3) All measurements shall be taken between plumb lines. [5000:16.4.9.2.1]

**6.4.2** The depth of footboards (footrests) and seat boards in folding and telescopic seating shall be not less than 9 in. (22.9 cm). [5000:16.4.9.2.2]

**6.4.3** Where the same level is not used for both seat foundations and footrests, footrests independent of seats shall be provided. [5000:16.4.9.2.2]

**6.4.4** Individual chair-type seats shall be permitted in folding and telescopic seating only if firmly secured in groups of not less than three. [5000:16.4.9.2.3]

**6.4.5** The maximum number of seats permitted between the furthest seat in an aisle in folding and telescopic seating shall not exceed that shown in Table 5.5.6. [5000:16.4.9.2.4]

**6.4.6** An opening between the seat board and footboard located more than 30 in. (76 cm) above grade shall be provided with intermediate construction so that a 4-in. (10.2-cm) diameter sphere cannot pass through the opening. [5000:16.4.9.3.5]

**6.5 Guards and Railings.** [5000:16.4.9.3]

**6.5.1 Guards.** Guards in accordance with Chapter 11 of NFPA 5000 shall be provided at the open sides of means of egress that exceed 30 in. (76 cm) above the floor or grade below, except as otherwise permitted by 6.5.2 through 6.5.9. [5000:11.1.8]

**6.5.2 Railings or guards** not less than 42 in. (107 cm) above the aisle surface or footrest, or not less than 36 in. (91 cm) vertically above the

center of the seat or seat board surface, whichever is adjacent, shall be provided along those portions of the backs and ends of all folding and telescopic seating where the seats are more than 4 ft (1.2 m) above the floor or ground. [5000:16.4.9.3.1]

**6.5.3** The requirement of 6.5.2 shall not apply where an adjacent wall or fence affords equivalent safeguard. [5000:16.4.9.3.1]

**6.5.4** Where the front footrest of folding or telescopic seating is more than 2 ft (0.6 m) above the floor, railings or guards not less than 33 in. (84 cm) above such footrests shall be provided. [5000:16.4.9.3.2]

**6.5.5** The railings required by 6.5.4 shall be permitted to be not less than 26 in. (66 cm) high where the front row of seats includes backrests. [5000:16.4.9.3.2]

**6.5.6** Cross aisles located within the seating area shall be provided with rails not less than 26 in. (66 cm) high along the front edge of the cross aisle. [5000:16.4.9.3.3]

**6.5.7** The railings specified by 6.5.6 shall not be required where the backs of the seats in front of the cross aisle project 24 in. (61 cm) or more above the surface of the cross aisle. [5000:16.4.9.3.3]

**6.5.8** Vertical openings between guardrails and footboards or seat boards shall be provided with intermediate construction so that a 4-in. (10.2-cm) diameter sphere cannot pass through the opening. [5000:16.4.9.3.4]

**6.5.9** An opening between the seat board and footboard located more than 30 in. (76 cm) above grade shall be provided with intermediate construction so that a 4-in. (10.2-cm) diameter sphere cannot pass through the opening. [5000:16.4.9.3.5]

**6.6 Maintenance and Operation of Folding and Telescopic Seating.** [101:12.7.10]

**6.6.1** Instructions in both maintenance and operation shall be transmitted to the owner by the manufacturer of the seating or his or her representative. [101:12.7.10.1]

**6.6.2** Maintenance and operation of folding and telescopic seating shall be the responsibility of the owner or his or her duly authorized representative and shall include the following:

- (1) During operation of the folding and telescopic seats, the opening and closing shall be supervised by responsible personnel who shall ensure that the operation is in accordance with the manufacturer's instructions.
- (2) Only attachments specifically approved by the manufacturer for the specific installation shall be attached to the seating.
- (3) An annual inspection and required maintenance of each grandstand shall be performed to ensure safe conditions. At least biennially, the inspection shall be performed by a professional engineer, registered architect, or individual certified by the manufacturer. [101:12.7.10.2]

## Chapter 7 Membrane Structures

**7.1 General.** [5000:32.2.1]

**7.1.1 Scope.** Chapter 7 shall apply to permanent air-supported, air-inflated, and tensioned-membrane structures, collectively known as membrane structures, that are used as complete buildings and as roofs or other portions of buildings or other types of construction, and the following also shall apply:

- (1) Membrane structures also shall comply with the applicable provisions of NFPA 5000, *Building Construction and Safety Code*.
- (2) Temporary membrane structures shall comply with Section 7.5. [5000:32.2.1.1]

**7.1.1.1 General.** Membrane structures that provide the complete enclosure for the occupied space shall be considered as complete buildings and subject to the requirements of Chapter 7 of NFPA 5000. [5000:32.2.1.1.1]

**7.1.1.2 Height.** Membrane structures shall be limited to one story in height, but height shall not be limited in number of feet. [5000:32.2.1.1.2]

**7.1.1.3 Area.** For determining allowable area, the construction type for a membrane structure shall be based on the support system. [5000:32.2.1.1.3]

**7.1.1.3.1** Air-supported membrane structures shall not exceed the allowable areas listed in Chapter 7 of NFPA 5000 for Type II(000) unprotected construction. [5000:32.2.1.1.3.1]

**7.1.1.3.2** Area increases in accordance with Chapter 7 of NFPA 5000 shall be permitted. [5000:32.2.1.1.3.2]