


FLOW DATA				
NOTE: THE MOST RECENT FLOW TEST DATA FROM THE EXISTING FIRE PUMP INDICATES A PUMP CAPACITY OF 1250 GPM WITH A RATED PRESSURE OF 120 PSI. PUMP TEST PERFORMED ON 1/10/12 BY PALMETTO AUTOMATIC SPRINKLER INDICATES:				
FLOW	SUCTION PRESSURE	DISCHARGE PRESSURE	NET PUMP PRESSURE	ACTUAL FLOW
CHURN	61	176	115	--
100%	61	172	111	1262
150%	55	155	100	1893

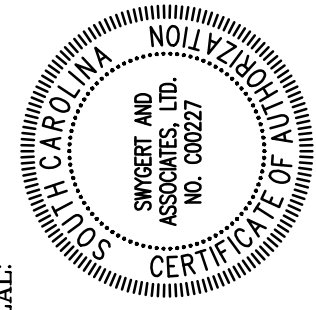
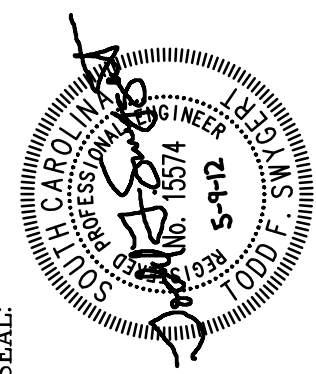
LLR		Fire Protection Sprinkler System Specification Sheet (Per 840-10-250)			
Project Data					
Project name: Williams Brice Stadium - Control Rooms					
Location in South Carolina:		Address (street # & street name): Corner of George Rogers Blvd. & Bluff Road		State project #: N/A	
City: Columbia		County: Richland		State project #: N/A	
Water Supply Information (flow test data must be less than 1 year old per 840-10-250(A)(1))					
Date test conducted: 01/10/12		Static pressure (psig): N/A		Residual pressure (psig): N/A	
Distances of test gauges relative to the base of the riser:		Horizontal (ft): N/A		Vertical (elevation difference in ft): N/A	
Source of water supply:		<input checked="" type="checkbox"/> Municipal feed/main <input type="checkbox"/> Municipal circulation <input type="checkbox"/> Other:		Pipe Size (in.): N/A	
Test data by/for:		Name: Robert A. Davis		Title: Inspector	
Organization: Palmetto Automatic Sprinkler Company		Telephone #: (803)794-1602		Telephone #: (803)794-1602	
Fire pump:		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Pump Capacity (gpm): 1262	
<input checked="" type="checkbox"/> New <input type="checkbox"/> Existing		Rated Pressure (psig): 172		Churn Pressure (psig): 176	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> New <input type="checkbox"/> Existing		Pressure @ 150% flow (psig): 155	
On-site storage tank:		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Tank capacity (gallons): N/A	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> New <input checked="" type="checkbox"/> Existing		Tank capacity (gallons): N/A	
NFPA Hazard Classification (attach continuation page when necessary)					
Area #		Class or Code Reference		Description of Hazard Protected (commodity description, storage height, and arrangement as applicable.)	
1		Light Hazard		X-Ray Room, Hall of Captains	
2		Light Hazard		Rack Room, Control Rooms	
3		Light Hazard		Rack Room	
Design Parameters (attach continuation page when necessary)					
Area #		System Type		Density (gpm/ft ²)	
1		Wet		0.10/1500	
2		Pre-Action		0.10/1500	
3		Clean Agent		Per NFPA 2001 - 2008 Edition	
Seismic Design Data:		S _g = 0.549			
Codes and Standards (attach continuation page when necessary)					
Applicable Codes, Standards & Editions (i.e. "2006 IBC", "2007 NFPA 13", etc.) for the Scope of Work on the Sprinkler System					
NFPA 13 - 2010 Edition, NFPA 20 - 2010 Edition					
NFPA 2001 - 2008 Edition					
International Building Codes - 2009 Edition					
Scope of work (such as sprinkler system A.C. from 1'-0" A.F.F. 1'-0" from top to 5'-0" outside, etc.) and notes (attach continuation page when necessary):					
Above ground work for fire protection of Control Rooms, Rack Room, X-Ray Room and Hall of Captains. Rack Room shall also include a Clean Agent System installed per NFPA 2001 - 2008 Edition, "Clean Agent Fire Extinguishing Systems".					
Specifier's Information					
Name: Todd F. Swygert, P.E.					
Engineering services provided through a firm: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Firm name: Swygert and Associates, Ltd.					
Address: Post Office Box 11686					
City: Columbia					
State: South Carolina					
Zip: 29211					
Phone #: (803)791-9300					
Fax #: (803)791-0830					
E-mail: Todd@swygert-associates.com					
Certificate of Authorization					
Professional Engineer's Seal					
Revision No.: 0					
Page 1 of 1					
Signature: Todd F. Swygert					
Date: 5/8/12					
Form: Fire Sprinkler Specification Sheet (Download latest at: http://www.llr.state.sc.us/ffshtml/index.asp?file=forms.htm)					

GENERAL NOTES

- SUBMIT DRAWINGS INDICATING EXACT LOCATION OF ALL PIPING FOR ENGINEERS REVIEW AND BRING ALL FIELD CONFLICTS AND REQUIRED ADJUSTMENTS TO THE ENGINEERS ATTENTION.
 - SPRINKLER DRAWINGS PROVIDED ARE TO ASSIST THE CONTRACTOR. SUCCESSFUL CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF A COMPLETE SYSTEM PER THESE PLANS AND SPECIFICATIONS AND IN COMPLIANCE WITH ALL APPLICABLE CODES. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMISSION TO THE OFFICE OF THE STATE FIRE MARSHAL.
 - THE DESIGN TEAM, TO INSURE COMPATIBILITY WITH THE BUILDING DESIGN INTENT, WILL CAREFULLY REVIEW SPRINKLER PLANS. CORRECTIONS WILL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
 - SYSTEM DRAINS SHALL BE INSTALLED AS REQUIRED PER NFPA. DRAINS SHALL BE EXTENDED OUTSIDE THE BUILDING. DRAIN LOCATIONS SHALL BE APPROVED BY THE A/E TEAM AND SHALL BE INDICATED ON THE SHOP DRAWINGS.
 - WHERE PIPING IS TO BE RUN EXPOSED CARE SHALL BE TAKEN TO MINIMIZE THE ABILITY OF BUILDING OCCUPANTS TO TOUCH, HANG FROM, OR OTHERWISE VANDALIZE FIRE PROTECTION SYSTEM.
 - SPRINKLER PIPING SHALL BE INSTALLED TO MEET SEISMIC REQUIREMENTS WITH LATERAL SWAY BRACING, LONGITUDINAL SWAY BRACING, AND FOUR-WAY BRACING AS REQUIRED BY NFPA AND THE INTERNATIONAL BUILDING CODES.
 - ALL SPRINKLER HEADS IN CORRIDOR SHALL BE OF THE FLAT PLATE CONCEALED HEAD TYPE AND THE COLOR SHALL BE WHITE. SPRINKLER HEADS IN OTHER SPACES SHALL BE RECESSED PENDANT TYPE.
 - REMOVAL AND REPLACEMENT OF CEILING, AS REQUIRED FOR INSTALLATION OF NEW WORK, SHALL BE DONE BY THIS CONTRACTOR. ANY CEILING GRID OR TILE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE OWNER.
- - POINT OF CONNECTION OF NEW TO EXISTING.

NOTES TO SHEET

- APPROXIMATE LOCATION OF EXISTING 4" FIRE LINE HIGH IN SPACE.
- 4" PIPING TO BE HEAT TAPED AND WRAPPED WITH 1" THICK FIBERGLASS INSULATION AND COVERED WITH METAL JACKETING. ENTIRE ASSEMBLY SHALL BE MARKED WITH IDENTIFICATION TAPE EVERY 20'-0".
- CONNECT TO EXISTING PIPING AT THIS APPROXIMATE LOCATION. MAKE ANY REQUIRED CHANGES IN SIZE.
- RACK ROOM (AND SPACES ABOVE CEILING AND BELOW RAISED FLOOR) SHALL BE PROTECTED WITH A FM200 CLEAN AGENT SYSTEM WITH AUXILIARY CONTACTS FOR CONNECTION TO ALARM SYSTEM BY OTHERS. PIPING SHALL BE ROUTED ABOVE CEILING EXCEPT WHERE SERVING RAISED FLOOR.
- 106 LITER STORAGE TANK WITH FM200 CLEAN AGENT (210 POUNDS OF CLEAN AGENT REQUIRED) LOCATED BEHIND DOOR AND SECURED TO WALL.
- CONTROL PANEL MOUNTED AT 48" ABOVE FINISHED FLOOR.
- FM200 INSTALLER SHALL BE RESPONSIBLE FOR PROVIDING A "FIRE ENCLOSURE INTEGRITY TEST" TO MEET THE REQUIRED RETENTION TIME STANDARDS. COORDINATE WITH GENERAL CONTRACTOR.
- INSTALL HILT, OR APPROVED EQUAL, MODEL CP 653 4" SPEED SLEEVE IN WALL BELOW RAISED FLOORING.
- PRE-ACTION RISER TO BE INSTALLED IN EXISTING CLOSET.
- ROOM TO BE PROTECTED BY A PRE-ACTION SYSTEM.
- WET SPRINKLER SYSTEM SHALL BE CAPPED AT THIS POINT FOR FUTURE SPRINKLER SYSTEM TO BE INSTALLED AT A LATER DATE. CONTRACTOR SHALL HYDRAULICALLY CALCULATE LINE SIZE BASED ON FUTURE AREAS TO BE PROTECTED AS LIGHT HAZARD (SEE FLOOR PLAN). PROVIDE CALCULATIONS TO ENGINEER OF RECORD.
- PROTECT X-RAY ROOM/RESTROOM AND HALL OF CAPTAINS AREAS WITH WET SYSTEM AS LIGHT HAZARD. NOTE ROUTING OF PIPING.
- WITH ADJUSTABLE PRESSURE REGULATING VALVE TO PROTECT SPRINKLER HEADS.



CHECKED BY:	TFS	DATE:	09MAY12
DRAWN BY:	DEM	DATE:	
DATE:	12145-FP1	DESCRIPTION:	
BUILDING:	210	REV:	