

**SECTION 11 06 60.63—UNIVERSITY OF ARKANSAS - REYNOLDS RAZORBACK STADIUM
VIDEO, MATRIX AND SCORING SYSTEMS SCHEDULE OF DISPLAYS, LIST OF ALTERNATES,
PERFORMANCE STANDARD FORM**

PART 1 - GENERAL

1.1 TERMS

- A. Unique Identification
 - 1. Facility name
 - 2. SUB—subordinate identification of an element in overall display.
- B. Dimensions
 - 1. HT—Height of Active Display area (excluding, trim, etc.), in feet or pixels
 - 2. WD—Width of Active Display area (excluding, trim, etc.), in feet or pixels
 - 3. TOL—Tolerance, expressed as a percentage of Height or Width (or pixels). Allowable variation to base size.
 - 4. MAX HT—Maximum height of display, including all cabinet, trim, etc. This dimension is generally set by sight lines and cannot be exceeded within base proposal.
- C. TYPE—Technology Type
- D. MIN RES—Absolute Minimum Physical Pixel Resolution expressed in mm (higher resolution products are implicitly allowed; within the available power limitations).
- E. USE—Purpose of display
- F. Position Information; physical location of display.
- G. Drawing
 - 1. Architectural drawing reference (for elevation, section and/or location in plan).
- H. Lighting
 - 1. Lighting Technology type.
- I. Section—Specification Section for this scope of work.
- J. Notes—Special notes

1.2 SCHEDULE OF DISPLAYS

LVL	SUB	HT X WD	TOL	MAX HT	TYPE	MIN RES	Use	Position Information	Drawing	Lighting	Notes
End Zone Video Display	North	38' x 166'	2%; 720 pixel minimum height	40'	Color LED	16 mm	Video, Ads, text, animation	Center of assembly	SB-001	Internal	
North Enclosure Lettering Front	North assembly south (field) side	As existing	1%	As existing	Back-lit, translucent face channel cut letters	Character size same as existing.	Color same as existing	As existing	SB-001	LED	Use "Razorback Font" Alternate for programmable color LED back lighting
North Enclosure Lettering Back	North assembly north (external) side	As existing	1%	As existing	Solid, channel cut letters with LED back lighting	Character size same as existing	Color same as existing	As Existing	n/a	LED	Use "Razorback Font"
South Stadium Exterior Lettering	South Exterior of Stadium	As existing	1%	As existing	Solid, channel cut letters with LED back lighting	Character size same as existing	Color same as existing	As Existing	n/a	LED	Use "Razorback Font"
End Zone Fascia Displays	North	(2) 38" x 57' active area	2%; 48 pixel high	42"	Color LED	20 mm	GIP, Stats, Ads, text, animation	Face of precast riser	SB-002	Internal	
End Zone Fascia Displays	South	(2) 38" x 57' active area	2%; 48 pixel high	42"	Color LED	20 mm	GIP, Stats, Ads, text, animation	Face of precast riser	SB-002	Internal	

VIDEO AND SCORING SYSTEMS SCHEDULE OF DISPLAYS

UNIVERSITY OF ARKANSAS

LVL	SUB	HT X WD	TOL	MAX HT	TYPE	MIN RES	Use	Position Information	Drawing	Lighting	Notes
Play and game clocks	Football south and north	(4 each) 30-32" high digits	1"	42"	Monochrome White LED fixed digit	Fixed digit	Delay of game/Play Clock and separate play clock	Play clock and ad panel to remain in same location. Game clock added on opposite side of ad panel	SB-003	Internal	Includes 4" white boarder around play clock digits at end of display. Displays are separated by a back-lit ad panel.
East Side Line Fascia Display	West	38" x 346' active area	48 pixel high	42"	Color LED	20 mm	Stats, GIP, Text, ads, logos, animation	Centered under bottom of video display	SB-004	Internal	Alternate
West Side Line Fascia Display	East	(2) 38" x 109' active area	48 pixel high	42"	Color LED	20 mm	Stats, GIP, Text, ads, logos, animation	Centered under bottom of video display	SB-004	Internal	Alternate
Locker Room clocks	Interior	Approx 8.5" x 13"	n/a	n/a	LED	Fixed digit	Stats, GIP, Text, ads, logos, animation	In existing locations total of 10.	n/a	Internal	Alternate for network connected displays – see below

VIDEO AND SCORING SYSTEMS SCHEDULE OF DISPLAYS

1.3 OPTIONS AND ALTERNATES

- A. Options 11 06 60.63—A. Service Contract for parts only for Years 3 through 10 for the scope of work covered under 11 63 10. Pricing shall remain in effect until the end of the warranty period or until the Owner accepts or declines this service contract whichever occurs first.
1. Requirements of service contract.
 - a. All costs for US factory parts repair or replacement shall be included.
 - b. Following expiration of warranty period, owner will remove failed components from display (scoring or video) and ship, at owner's expense, to US repair depot.
 - c. Installer (or installer's Supplier) shall repair or replace components and ship to owner, at installer's expense using next-day delivery for Tuesday to Saturday deliveries (at project site). Installer shall ship repair parts, within 24 hours of request of owner, prior to their receipt of failed part.
 - d. Repair and return shipment shall be in a timely fashion to maintain display operation.
 - e. In the event of parts failure of more than 5% of the display(s), the installer shall dispatch to the site, at installer's cost, factory technicians to assess cause, and means of returning to operation. Site visit timing shall be coordinated with owner, and in the event that adequate notice is provided (36-48 hours), shall be provided prior to stadium events where more than 50% of the facilities seating capacity is expected.
- B. Options 11 06 60.63—B. Service Contract for extended warranty (parts and labor) for Years 3 through 10 for the scope of work covered under 11 63 10. Pricing shall remain in effect until the end of the warranty period or until the Owner accepts or declines this service contract whichever occurs first.
1. Requirements of service contract.
 - a. In-season response time for each venue to be the same as for the base warranty
 - b. All costs for US factory parts repair or replacement shall be included.
 - c. Following expiration of warranty period, owner will remove failed components from display (scoring or video) and ship, at owner's expense, to US repair depot.
 - d. Installer (or installer's Supplier) shall repair or replace components and ship to owner, at installer's expense using next-day delivery for Tuesday to Saturday deliveries (at project site). Installer shall ship repair parts, within 24 hours of request of owner, prior to their receipt of failed part.
 - e. Repair and return shipment shall be in a timely fashion to maintain display operation.
 - f. In the event of parts failure of more than 5% of the display(s), the installer shall dispatch to the site, at installer's cost, factory technicians to assess cause, and means of returning to operation. Site visit timing shall be coordinated with owner, and in the event that adequate notice is provided (36-48 hours), shall be provided prior to stadium events where more than 50% of the facilities seating capacity is expected.
- C. Option 11 06 60.63-C. Cost for annual pre-season "health check" for each display. Service to include updating of all software, verification of all control and display functions, repair (from owner spare inventory) of all displays and control equipment. The intent is, to the extent possible, bring the system up to as new operating condition and performance. Provide annual cost for each venue, guaranteed for years 3 through 10.
- D. Option 11 06 60.63-D. Cost to provide, on an annual basis for years 3 through 10, event standby technician, and pre-event check out per the base warranty requirements for up to eight (8) events per year.
1. 11 06 60.63-D1.

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- E. Option E– Cost for Main Video Display alternate resolutions/lamp type:
1. Option E1 – 20 mm
 2. Option E2 - 15/16 mm virtual
 3. Option E3 – 16 mm SMD maximum brightness at least 6500 nit.
- F. Option F – Cost to add (4) 12' x 12' back-lit ad panels to main scoreboard assembly, (2) on each side of new video display. Signs to be positioned to allow access from existing catwalk system for copy replacement and maintenance.
- G. Option G - Cost to remove AC and dispose of existing AC units from main scoreboard assembly (this work need not be completed prior to first game).
- H. Option H. - Cost to replace East and West Sideline Fascia Displays lengths as shown on drawings.
1. Option H1 – Cost to extend length of new East and West Sideline Displays as shown on drawings.
 2. Option H2 – Cost to extend length of side line displays as shown for H1 with back-lit ad panels in lieu of LED
- I. Option I – Cost to remove and dispose of existing main scoreboard assembly video display. Careful removal and turn over to Owner is NOT required.
- J. Option J - Cost to replace existing locker room clocks with network connected, small LCD digital signage displays to show game clock and time of day clock information
- K. Option K - Cost to replace existing locker room clocks with network connected, small fixed digit LED displays to show game clock and time of day clock information.
- L. Option L – Cost to replace monochrome LED lighting for back-lit lettering on south side of main scoreboard assembly with programmable, color LED lighting. Control console/workstation to be located in Scoreboard Control room.
- M. Option M – Cost to wash main scoreboard video display, provide annual cost, guaranteed for eight years.
- N. Unit Cost A – Provide cost of one hard wired, locker room clock (flush or surface mount), installed, exclusive of signal conduit, and AC power to display.
- O. Unit Cost B – Provide cost of one network connected, LCD display locker room clock (exclusive of data cabling, and AC power to display.
- P. Unit Cost C – Provide cost of one network connected, fixed digit locker room clock (flush or surface mount), installed, exclusive of data cabling, and AC power to display.

PART 2 - PERFORMANCE STANDARDS (provide for each display)

Base Proposal or Alternate Number: _____

Location: _____

Manufacturer: _____

Model: _____

Fractional Units (e.g. 18.5')

Overall Display Size (measured from
physical pixel to physical pixel; not
including cabinet)

Vertical _____ Feet _____ Pixels _____

Horizontal _____ Feet _____ Pixels _____

Physical Display Size (including
cabinet)

Vertical _____ Feet _____

Horizontal _____ Feet _____

PHYSICAL Pixel Pitch (not "lines")

Vertical/Vertical _____ millimeters _____

Horizontal/Horizontal _____ millimeters _____

Physical Pixel Density (not "lines")

_____ Pixels/sq ft _____

Virtual Pixel Pitch

"claimed" pixel pitch _____ millimeters _____

Green LED Supplier _____

Red LED _____

Blue LED Supplier _____

Brightness

_____ Nits _____

Brightness Level adjustment _____

Gradation Method _____

Tonal Gradation _____

Color Temperature _____

°K _____

Color Temperature adjustability _____

Viewing Angles

Vertical degrees

Up _____

Dn _____

Horizontal degrees

Up _____

Dn _____

Power Consumption

Average (entire display) _____

Maximum (entire display) _____

Normal Power requirements(Voltage, Service, Ø)

Include any air conditioning requirements for entire Display _____**Entire Display Weight** (Include internal structure) _____

END OF SECTION

VIDEO AND SCORING SYSTEMS SCHEDULE OF DISPLAYS