January 10, 2019

To: Plan Commission

From: Township High School District 113

Subject: New Digital Scoreboard

Deerfield High school proposes to install a new digital scoreboard on Adams Field. The current bulb scoreboard is 25+ years old, is in poor condition, is technically obsolete and repairing or replacing parts is no longer a viable option. The current scoreboard is 10’ x 30’ with only light bulb style displays for the quarter, game time, scores and time outs.

The new scoreboard will enhance the spectator experience for all high school and sports contests held on Adams Field. Not only will the new scoreboard show the game score and time clock but can also show instant replays and highlights, it can also show team and players through profile screens, pictures, videos, statistics, animations, and all other relevant game information.

The digital media driving the board will enable graphics to encourage spectator involvement during the games and help to celebrate the success of all boys’ and girls’ teams (Soccer, Lacrosse, Field Hockey, Track & Field, and Football, Band, Warrior Dance Team) in addition to the many service projects done by the sports teams.

Additionally, students interested in sports broadcasting and similar media fields at DHS will have additional educational opportunities enabled by the technology associated with the new board. The DHS Athletic Booster Club's primary mission is to fund a wide variety of projects which foster spirit, sportsmanship, leadership, and tradition for all 31 athletic teams. The new scoreboard will provide the Booster Club with more opportunities to generate significant annual advertising revenue from new sponsors and to increase revenue from existing sponsors, allowing them to further support the DHS athletic program.

The entire DHS community could benefit from the use of the digital scoreboard for events other than sporting events played on Adams Field. To name a few; potential community movie nights and fundraisers, community fundraisers (such as Walk for Life and School Chest 5k), watch parties for state events, Special Olympics or and even allow for watch parties for some DHS away games are just a few ideas. We are estimating 5-6 events a year. The scoreboard will be operated only
(illuminated) during these sporting or community events. The top with the Deerfield Warriors is not illuminated. There will be no “Adams Field” on the scoreboard or as part of this signage.

The reason for moving it to the North endzone is to provide a few enhancements. The first is improved lines of sight for security and safety reasons. If the sign was in the current location in the South Endzone, it would block views to sidewalks and parking areas from the stadium. Teachers and Security Staff are constantly watching as students and visitors are trafficking to and from the stadium. A second reason is to allow the visual of the new board to be seen from the full stadium and viewers coming into the stadium area, further enhancing the spectator experience. The third and final is to open the South end to all for future changes to pedestrian traffic patterns to all the different sporting complexes.

The accompanying sightline documents illustrate the horizontal windows of view to the scoreboard from Waukegan Road and the homes. They also show the southern two-story home is 1,420’ feet from the scoreboard. The documents also show the vertical view from the southern neighbors. A person on the ground would not see over the fence to see the scoreboard. A person in the second story window would have vision of the scoreboard. If there would be a need in the future to provide additional screening, there could be several options. One to increase the tennis court fence with a higher wind screen during the active seasons the scoreboard is used or additional vegetation along the South property line.

A scaled version of the scoreboard can be seen below. The board is from Formetco Co. and is 19’ 11.5” high x 36’ 9” wide (20’ x 37’) TRUE pixel 16mm digital scoreboard. The top of the scoreboard will stand 34.124’ in overall height. There is also a 4’ non-illuminated truss for the school name and mascot. The scoreboard will be mounted on a steel monopole structure.

The board will be operated using a computer system and wireless controllers from the press box. The computer system will be using ProPresenter Software with multi-sport scoring, custom zoning and advertising platforms, along with social media, rss feed and HUDL integration features.

A scaled version of the board can be seen below. Notice that this board displays the truss, scoring section of the board, video display and an advertising column. The board will have multiple views during games featuring full screen to split templates as you see below.
Sound and Lighting

The digital scoreboard will not include sound. We will continue to use the sound system that is currently mounted on the press box. As far as lighting is concerned, the board comes with a scoreboard mounted photo cell for optimized brightness control. During the day, the board will operate at appx 50-60% of it’s max brightness capability, while at night operating between 5-10% of max brightness during operation. The additional purpose of the photo cell is to ensure the board always operates at a proper setting for ambient lighting which will reduce the potential for distractions to residential areas or any traffic. The new location of the digital board is an additional 150 yards further to the North than the current board, so even visibility from a distance by residents will be minimal. In addition, during the Fall and Spring seasons, the tennis courts are wrapped with windscreens up to 10’ which will also provide even less visibility from the south. See photos below.
From South Warrior Way Drive and Waukegan looking North
Back of existing board is visible from 1 resident fence line

From Warrior Way Drive, further East while looking North, the
Scoreboard is no longer visible, obstructed view by the building
From Waukegan Road traveling North
Scoreboard is no longer visible, obstructed view by the building

From Waukegan Road traveling North
Scoreboard is viewable for 1.2 seconds traveling at speed limit
From North side of track looking South
Only 1-2 residents could have partial visibility to the scoreboard dependent on trees and leaves.
When the tennis windscreens are up, there will be even less visibility
February 28, 2019

Plan Commission

Special Use Criteria & Text Amendment Response

Deerfield High School Scoreboard

1. Compatible with Existing Development:

   The proposed digital scoreboard is in line with the prior improvements of the site. Including the new bleachers, artificial turf field, East tennis courts, and facility improvements of the pool and gymnasium spaces. 2019 summer work includes the track resurfacing, the West tennis court will be 100% replaced including fencing, and the varsity baseball field will have an upgrade to the backstop to provide taller and longer coverage to for safety of fans and athletes. The proposed scoreboard is one of the final pieces to the complex needing to be upgraded.

2. Lot of Sufficient Size

   The site is of enough size to handle the proposed scoreboard. It provides sufficient distance from abutting properties to allow minimal to no impact.

3. Traffic:

   Traffic on the High School Property is not impacted by the improvement of the new scoreboard. Visually the scoreboard will have brief visibility along Waukegan Road traveling Northbound. As a vehicle travels through the intersection of Warrior Way and Waukegan Road there is just over 600’ and again past the bleachers for a distance just over 200’.

4. Parking and Access:

   There is no impact to parking with improvement.

5. Effect on Neighborhood:

   The impact on the neighborhood will not be significant or materially detrimental to the health, safety, and welfare of the abutting properties. The proposed scoreboard is 1,420’ (just under ¼ mile) to the nearest neighbor to the South. The scoreboard
will be used for the various sporting events. The scoreboard will not be light up when not in use by students or sporting events.

6. Adequate Facilities

The outside facilities that make up the stadium are in-line and of adequate size to make efficient use of the scoreboard as part of the normal operation of the stadium. The scoreboard will work for any of the events and allow for customizing display based on the sporting event that is taking place.

The power and fiber for the scoreboard will be feed from the new bleachers. There is no impact to other utilities or infrastructure.

7. Adequate Buffering:

Currently there only appears to be one home that would have a direct line of sight to the scoreboard during operation. The District is willing to add vegetation in strategic locations to reduce impacted lines of sight.

TEXT AMENDMENT CRITERIA

In the Public Interest:

The proposed scoreboard is in the public interest as it represents a beacon of technology along with student and community engagement. The ability to showcase the variety of sports and student athletes in a professional image enhances the perception of the High School. The educational production value for non-athletes who wish to build their skills within the technology that helps to present the product on the field.
January 8, 2019

Robert Ruiz
Athletic Director
Deerfield High School
1959 Waukegan Road
Deerfield, Illinois 60015

RE: New Scoreboard Site Plan Review

Dear Mr. Ruiz:

The Fire Prevention Bureau has completed the preliminary site plan review for the new scoreboard located inside the athletic stadium using the International Building and Fire Codes 2012 Editions and adopted local ordinances. The fire department recommends approval of the proposed site plan. The new scoreboard will have no impact on emergency vehicle access.

This letter does not preclude the possibility that corrections or additions may have to be made during the actual construction phase. If you have any questions, or would like to set up a meeting, please do not hesitate to contact us.

Have a safe day,

Brian McCarthy
Fire Marshal

Cc: Village of Deerfield
### MAKE 20 TOTAL ASSEMBLIES

![Diagram of FORMED I-BEAM CLAMP with dimensions and notes]

**FORMED I-BEAM CLAMP**
- **DOUBLE WIDTH**
- **3-1/2" X 1/2" FLAT BAR**
- **PAINT GRAY**
- **QTY = 40 REQUIRED**

### MAKE 24 TOTAL ASSEMBLIES

![Diagram of FORMED I-BEAM CLAMP with dimensions and notes]

**FORMED I-BEAM CLAMP**
- **SINGLE WIDTH**
- **1-3/4" X 1/2" FLAT BAR**
- **PAINT GRAY**
- **QTY = 48 REQUIRED**

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### Table of Parts

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<td>SCREW1/2X13/2.25SERR-DACRO</td>
<td>SCREW, 1/2-13X2.25&quot; SERRATED FLG DACRO COATED</td>
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### Table of Parts

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**UNISTRUT CLAMP BOLT PLATE**
- **1.375" X 9" FLAT**
- **12GA GALVANNEAL**
- **QTY = 128 REQUIRED**

**UNISTRUT CLAMP BOLT PLATE**
- **SINGLE WIDTH**
- **1-3/4" X 1/2" FLAT BAR**
- **PAINT GRAY**
- **QTY = 48 REQUIRED**

---

**Item No.**
- 1
- 2
- 3

---

**Notes:**
- Dimensions are in inches.
- Tolerances are fractional 1/16".
- Angular bends are 2°.

---

**Material:**
- UNSPECIFIED

**Finish:**
- UNSPECIFIED

---

**Important:**
- This information contained in this drawing is the sole property of Formetco. Any reproduction in part or as a whole without the written permission of Formetco is prohibited.

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**Drawing Created:**
- 10/5/2018 11:32:34 AM

**Drawing Updated:**
- Tuesday, November 13, 2018 12:03:25 PM

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**Sheets:**
- SHEET 2 OF 15

**Dimensions:**
- 1224.0 x 792.0
**TOP/BTM SINGLE UNISTRUT SPLICE ASM**

MAKE 2 TOTAL

**MIDDLE DOUBLE UNISTRUT SPLICE ASM**

MAKE 5 TOTAL

---

**ITEM NO.** | **FORMETCO P/N** | **DESCRIPTION** | **QTY.**
--- | --- | --- | ---
1 | FTXPART-MTG-SINGLESPLICE | TOP/BTM UNISTRUT SPLICE, 2"X1"X3/16" BAR CHANNEL | 1
2 | FTXPART-MTG-SPLICE4NUTPLATE | UNISTRUT SPLICE BOLT PLATE, 1.275"X15" FLAT | 1
3 | SCREW 1/2X13X1.5SERR-DACRO | SCREW 1/2-13X1.5" GRADE 5, SERRATED & FLANGED HEX HEAD, MAGNi COAT | 4

**ITEM NO.** | **FORMETCO P/N** | **DESCRIPTION** | **QTY.**
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1 | FTXPART-MTG-DOUBLESPLICE | MID DBL UNISTRUT SPLICE, C4X5.4 CHANNEL | 1
2 | FTXPART-MTG-SPLICE4NUTPLATE | UNISTRUT SPLICE BOLT PLATE, 1.275"X15" FLAT | 2
3 | SCREW 1/2X13X1.5SERR-DACRO | SCREW 1/2-13X1.5" GRADE 5, SERRATED & FLANGED HEX HEAD, MAGNi COAT | 8

---

**UNISTRUT SPLICE BOLT PLATE**

1.375"X15" FLAT

12GA GALVAANNEAL

QTY 12 TOTAL

**MDL DBL UNISTRUT SPLICE**

C4X5.4 CHANNEL

QTY 5 TOTAL

---

**UNLESS OTHERWISE SPECIFIED**

WEIGHT:

DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL 1/16"

ANGULAR BEND 2°
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<td>SCREW 3/8X16X1-1/4&quot; SERR. FLANGE HEAD BOLT</td>
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<td>FTX-2.5MM FRAME MOUNTING STRAP</td>
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1 FTX-1280X1280 CABINET, FTX, 1280X1280 4
2 FTX-16 FTX PANEL 16mm 112
3 FTXA U-STRUT 4 201-9/16"
4 SCREW3/8X16X1-1/4" SERR. FLANGE HEAD BOLT, 3/8"-16 X 1.25" 80
5 NUT-3/8" SERR SERRATED FLANGE NUT, 3/8" 80
6 FTX-1280X960 CABINET, FTX, 1280X960 4

DIMENSIONS ARE IN INCHES

TOLERANCES

FRACTIONAL
1/16"

ANGULAR BEND
2°

UNLESS OTHERWISE SPECIFIED
WEIGHT:

REVISION DRAWING NUMBER

FRACTIONAL
1/16"

PROPRIETARY AND CONFIDENTIAL

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Tuesday, November 13, 2018 12:03:25 PM

2963 Pleasant Hill Road
Duluth, GA 30096

10/5/2018 11:32:34 AM

SHEET 6 OF 15
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DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTIONAL 1/16"
ANGULAR BEND 2°

PROPRIETARY AND CONFIDENTIAL
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<td>SERRATED FLANGE HEAD BOLT, 3/8&quot;-16 X 1.5&quot;</td>
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</table>
16'9"  20'0"

19'11 3/8"

20 GA BLK/BLK STEEL SHEET W/ DOUBLE SIDED TAPE APPLIED

QTY 6 REQUIRED

2"X6-3/8" ANGLE TRIM SPLICE

ITEM NO. QTY. DESCRIPTION LENGTH TOTAL LENGTH

1 2 19'11 3/8" 113'4 3/4"

2 2 20' 113'4 3/4"

3 2 16'9" 113'4 3/4"

MATERIAL: N/A

WEIGHT:

SCALE: 1 : 10

UNLESS OTHERWISE SPECIFIED WEIGHT:

DIMENSIONS ARE IN INCHES

TOLERANCES FRACTIONAL ±1/16" ANGULAR 2°

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2963 Pleasant Hill Road
Duluth, GA 30096

DO NOT SCALE DRAWING

UPDATED Tuesday, November 13, 2018 12:03:25 PM

SHEET 9 OF 15
### TOTAL LINEAR FEET

3X1.5X14GA TUBE = 137'9"
1X1X.125 TUBE = 54'
1 5/8" SQ UNISTRUT = 24'4"

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<td>1 SQ x .125 Wall</td>
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<td>UNISTRUT, 1 5/8&quot; SQUARE</td>
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**POWER CABINET AND BREAKER REQUIREMENTS AND AMPERAGE AND WATTAGE RATINGS SHOWN ARE PER DIGITAL DISPLAY UNLESS OTHERWISE INDICATED**

- **POWER CABINET AND BREAKERS BY FORMETCO**

**POWER REQUIREMENTS PER EACH DIGITAL DISPLAY**

- **FULL BRIGHT, WHITE IMAGE IS 198713 WATTS (MAXIMUM)**
- **OPERATING AVERAGE POWER IS 4161 WATTS**

**TYPICAL SPECIFICATION:**

1. **TYPE 3R ENCLOSURE BOX RATED 125A, MIN 30 CKT, 3 PH**
2. **120/240 20 AMP 2 POLE CIRCUIT BREAKERS**
3. **120/240 20 AMP 1 POLE CIRCUIT BREAKER**
4. **LOAD CENTER EQUIP GROUND BAR**
5. **POWER CABINET AND BREAKERS BY FORMETCO**
6. **POWER REQUIREMENTS PER EACH DIGITAL DISPLAY**
7. **FULL BRIGHT, WHITE IMAGE IS 198713 WATTS (MAXIMUM)**
8. **OPERATING AVERAGE POWER IS 4161 WATTS**

**CONDUIT PROVIDED AND INSTALLED BY OTHERS**

- **208 VOLTS**
- **INTERNAL POWER CABLES PREWIRED BY MANUFACTURER**

**TYPICAL SPECIFICATION:**

1. **TYPE 3R ENCLOSURE BOX RATED 125A, MIN 30 CKT, 3 PH**
2. **120/240 20 AMP 2 POLE CIRCUIT BREAKERS**
3. **120/240 20 AMP 1 POLE CIRCUIT BREAKER**
4. **LOAD CENTER EQUIP GROUND BAR**
5. **POWER CABINET AND BREAKERS BY FORMETCO**
6. **POWER REQUIREMENTS PER EACH DIGITAL DISPLAY**
7. **FULL BRIGHT, WHITE IMAGE IS 198713 WATTS (MAXIMUM)**
8. **OPERATING AVERAGE POWER IS 4161 WATTS**

**OVER CURRENT PROTECTION DEVICE MUST BE MATCHED TO THE FAULT CURRENT THAT IS AVAILABLE IN THE POWER DELIVERY CIRCUIT DUE TO THE INRUSH CURRENT CREATED BY THE DISPLAY ON STARTUP THE OVER CURRENT PROTECTION DEVICE(S) HAVE TO BE OVERSIZED**

**-ALL PRIMARY FEEDER CIRCUITS TO THE DISPLAY MUST BE UL 489 LISTED**
**-ALL SPECIFICATIONS ARE SUBJECT TO CHANGE DUE TO FORMETCO'S CONTINUING PRODUCT IMPROVEMENT**

- **ALL INPUT CIRCUITS ARE ON 240V/20A BREAKERS**

- **ALL SPECIFICATIONS ARE SUBJECT TO CHANGE DUE TO FORMETCO'S CONTINUING PRODUCT IMPROVEMENT**

**NOTE: CABINETS SHOWN AS VIEWED FROM THE REAR**

- **MOUNT BEHIND SCOREBOARD**
- **CONDUIT PROVIDED BY FORMETCO**
- **GROUND ROD BY OTHERS**
- **FIBER FEED BY CUSTOMER**
- **J-BOX**
- **COMPUTER CONTROL BOX**
- **INTERNAL POWER CABLES PREWIRED BY MANUFACTURER**

**MAIN POWER DISTRIBUTION PANEL BY FORMETCO 120V/208-3PH**

**CABLING TO BE PROVIDED BY FORMETCO**

**WEIGHT: N/A**

**MATERIAL FINISH: N/A**

**DIMENSIONS ARE IN INCHES**

**FRACTIONAL**

- **1/16"**

**ANGULAR BEND**

- **2°**

- **Do not scale drawing**

**NOTE: CABINETS SHOWN AS VIEWED FROM THE REAR**
VIEW FROM PROPOSED SCOREBOARD LOCATION A
EXISTING STADIUM LIGHTS

PROPOSED SCOREBOARD
(APPROX. LOCATION & SIZE)

VIEW FROM SOUTH PROPERTY LINE LOCATION B

DEERFIELD HIGH SCHOOL
SCOREBOARD STUDY
DEERFIELD, ILLINOIS

PHOTO EXHIBIT B
VIEW FROM MID PARKLING LOT LOCATION C
VIEW FROM MID PARKLING LOT LOCATION D