



## CITY OF RICHMOND

DEPARTMENT OF  
PLANNING AND DEVELOPMENT REVIEW  
BOARD OF ZONING APPEALS

August 9, 2019

City of Richmond Department of Public Works  
900 East Broad Street, Suite 701  
Richmond, VA 23219

Heywood Harrison  
1209 Admiral Street  
Richmond, Virginia 23219

To Whom It May Concern:

RE: **BZA 39-2019**

You are hereby notified that the Board of Zoning Appeals will hold a public hearing on Wednesday, September 4, 2019 at 1:00 p.m. in the 5th floor conference room, City Hall, 900 East Broad Street, to consider an application for an electrical permit to install site lighting at an existing multipurpose sports field at 3400 BELT BOULEVARD (Tax Parcel Number C009-0612/010), located in an R-4 (Single-Family Residential District).

Please be advised that the applicant or the applicant's representative must be present at the hearing. The Board of Zoning Appeals Rules of Procedure provides that in the case of an application for a variance or a special exception, the applicant, proponents or persons aggrieved under §15.2-2314 of the Code of Virginia, shall be permitted a total of six (6) minutes each to present their case. The Board of Zoning Appeals will withhold questions until the conclusion of the respective presentations.

Finally, when you submitted your application to the zoning office you were given an handout entitled, Suggestions for Presenting Your Case to the Board, which indicated that you should discuss your request with your neighbor(s) and neighborhood

association(s) prior to appearing before the Board of Zoning Appeals. Contact information for civic group(s) can be found by navigating to the Civic Group webpage of the City's website at <http://www.richmondgov.com/PlanningAndDevelopmentReview/civicasassociationgroupinformation.aspx>. Once there, you can search for your property using the interactive map. A dialogue box will provide you with the names of all civic groups within which your property may lie. Once you have those group names, simply scroll down the page to the appropriate group(s) to find the contact information for each.

Please be advised that if you fail to discuss your request with your neighbors and neighborhood association(s), you should anticipate that your case will be continued until the Board's next regularly scheduled meeting. Please note that the Board's Rules of Procedure require payment of a \$150.00 continuance fee if the applicant must request a continuance for the reason that the applicant failed to discuss their case with their neighbors and neighborhood association(s). Please contact your neighborhood association to determine their meeting schedule. Be sure you allow yourself enough time to talk to all concerned parties prior to the hearing before the Board. For your convenience a list of the property owner(s) which have been identified based on the City Assessor's records as being located within a 150' radius of subject property is being provided to you (see attachment).

If you have any questions regarding the Board's procedures or any issue involving presentation of your case, please feel free to contact me.

Very truly yours,



Roy W. Benbow, Secretary  
Phone: (804) 240-2124  
Fax: (804) 646-5789  
E-mail: Roy.Benbow@richmondgov.com

cc: Zoning Administrator

Notice of this meeting is being sent to the persons whom the Board of Zoning Appeals believes to be property owners in the immediate vicinity of the property concerned in this application. This notice is for their information only, and there is no need for them to appear unless they so desire. The Board will, however, welcome such views as any persons care to express during the hearing on this application.

Ardnek Publishing LLC  
Po Box 7741  
Richmond VA 23231

C S X Transportation Inc Tax Department  
J910  
500 Water St  
Jacksonville FL 32202

City Of Richmond Public Works  
900 E Broad St Rm 701  
Richmond VA 23279

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City Of Richmond Recreation & Parks  
1209 Admiral St  
Richmond VA 23220

Epps David A & Lorraine L  
3300 Platinum Rd  
Richmond VA 23234

**Property:** 3400 Belt Blvd **Parcel ID:** C0090612010**Parcel**

**Street Address:** 3400 Belt Blvd Richmond, VA 23234-  
**Owner:** CITY OF RICHMOND PUBLIC WORKS  
**Mailing Address:** 900 E BROAD ST RM 701, RICHMOND, VA 2327900000  
**Subdivision Name :** NONE  
**Parent Parcel ID:**  
**Assessment Area:** 368 - McGuire  
**Property Class:** 101 - R Single Family Vacant (R1-R7)  
**Zoning District:** R-4 - Residential (Single Family)  
**Exemption Code:** 100 - General Government(Inside of Corp. Limits)

**Current Assessment**

**Effective Date:** 01/01/2019  
**Land Value:** \$46,000  
**Improvement Value:**  
**Total Value:** \$46,000  
**Area Tax:** \$0  
**Special Assessment District:** None

**Land Description**

**Parcel Square Feet:** 95832  
**Acreage:** 2.2  
**Property Description 1:** LANDFILL  
**Property Description 2:** 0497.40X0401.00 IRG0002.200 AC  
**State Plane Coords( ?):** X= 11784391.500008 Y= 3699340.297802  
**Latitude:** 37.47862104 , **Longitude:** -77.46068759

**Description**

**Land Type:** Homesite  
**Topology:**  
**Front Size:** 497  
**Rear Size:** 401  
**Parcel Square Feet:** 95832  
**Acreage:** 2.2  
**Property Description 1:** LANDFILL  
**Property Description 2:** 0497.40X0401.00 IRG0002.200 AC  
**Subdivision Name :** NONE  
**State Plane Coords( ?):** X= 11784391.500008 Y= 3699340.297802  
**Latitude:** 37.47862104 , **Longitude:** -77.46068759

**Other**

**Street improvement:**  
**Sidewalk:**

**Assessments**

| Assessment Year | Land Value | Improvement Value | Total Value | Reason        |
|-----------------|------------|-------------------|-------------|---------------|
| 2020            | \$46,000   | \$0               | \$46,000    | Reassessment  |
| 2019            | \$46,000   | \$0               | \$46,000    | Reassessment  |
| 2018            | \$43,000   | \$0               | \$43,000    | Reassessment  |
| 2017            | \$43,000   | \$0               | \$43,000    | Reassessment  |
| 2016            | \$43,000   | \$0               | \$43,000    | Reassessment  |
| 2015            | \$43,000   | \$0               | \$43,000    | Reassessment  |
| 2014            | \$43,000   | \$0               | \$43,000    | Reassessment  |
| 2013            | \$43,000   | \$0               | \$43,000    | Reassessment  |
| 2012            | \$43,000   | \$0               | \$43,000    | Reassessment  |
| 2011            | \$43,000   | \$0               | \$43,000    | CarryOver     |
| 2010            | \$43,000   | \$0               | \$43,000    | Reassessment  |
| 2009            | \$43,000   | \$0               | \$43,000    | Reassessment  |
| 2008            | \$43,000   | \$0               | \$43,000    | Reassessment  |
| 2007            | \$41,300   | \$0               | \$41,300    | Reassessment  |
| 2006            | \$31,700   | \$0               | \$31,700    | Reassessment  |
| 2005            | \$31,700   | \$0               | \$31,700    | Reassessment  |
| 2004            | \$25,600   | \$0               | \$25,600    | Reassessment  |
| 2003            | \$25,600   | \$0               | \$25,600    | Reassessment  |
| 2002            | \$25,100   | \$0               | \$25,100    | Reassessment  |
| 1998            | \$22,000   | \$0               | \$22,000    | Not Available |

**Transfers**

| Transfer Date | Consideration Amount | Grantor Name  | Deed Reference | Verified Market Sale Description |
|---------------|----------------------|---------------|----------------|----------------------------------|
| 04/21/1954    | \$0                  | Not Available | 00440-0393     |                                  |

**Planning**

**Master Plan Future Land Use:** PB-OS  
**Zoning District:** R-4 - Residential (Single Family)  
**Planning District:** Broad Rock  
**Traffic Zone:** 1208  
**City Neighborhood Code:** CHGD  
**City Neighborhood Name:** Cherry Gardens  
**Civic Code:**  
**Civic Association Name:**  
**Subdivision Name:** NONE  
**City Old and Historic District:**  
**National historic District:**  
**Neighborhoods in Bloom:**  
**Redevelopment Conservation Area:**

**Economic Development**

**Care Area:** -  
**Enterprise Zone:**

**Environment**

**100 YEAR Flood Plain Flag:** Contact the Water Resources Division at 646-7586.  
**500 YEAR Flood Plain Flag:** N  
**Resource Protection Flag:** Contact the Water Resources Division at 646-7586.  
**Wetland Flag:** N

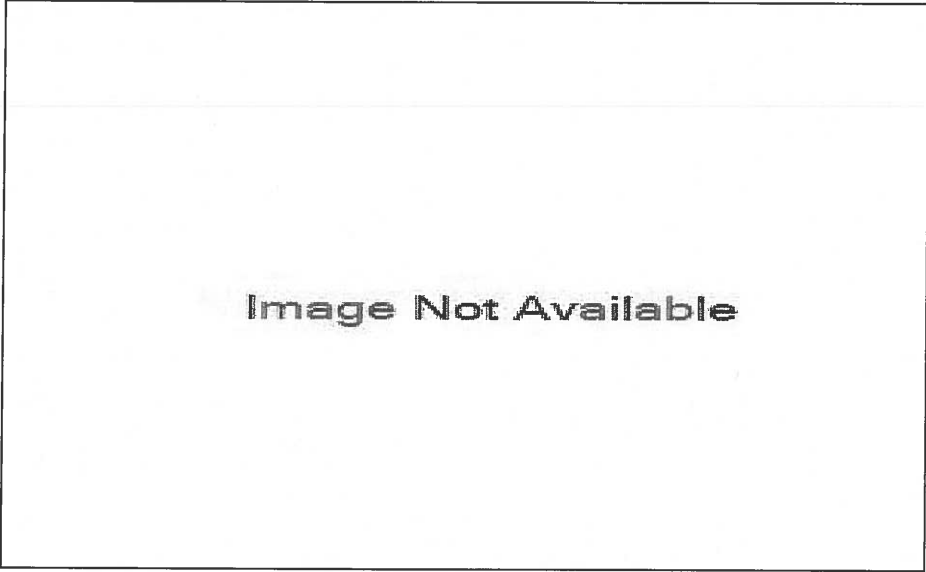
**Census**

| Census Year | Block | Block Group | Tract  |
|-------------|-------|-------------|--------|
| 2000        | 5007  | 0709005     | 070900 |
| 1990        | 906   | 0709989     | 070998 |

**Schools****Elementary School:** Broad Rock**Middle School:** Boushall**High School:** Wythe**Public Safety****Police Precinct:** 2**Police Sector:** 213**Fire District:** 22**Dispatch Zone:** 142B**Public Works Schedules****Street Sweep:** TBD**Leaf Collection:** TBD**Refuse Collection:** Thursday**Bulk Collection:** TBD**Government Districts****Council District:** 8**Voter Precinct:** 806**State House District:** 69**State Senate District:** 16**Congressional District:** 4

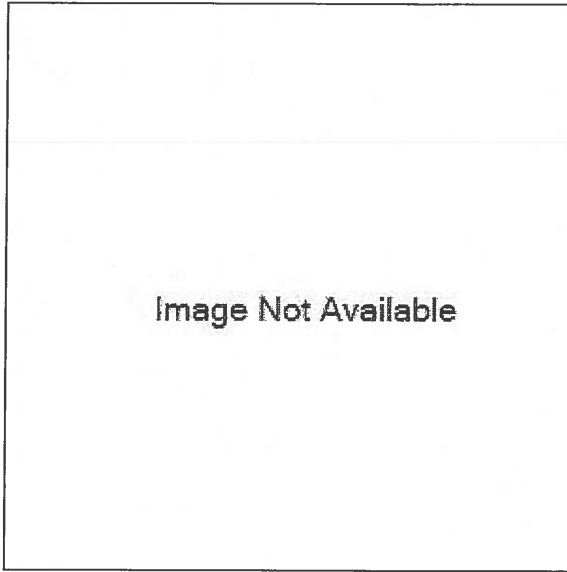
**Property Images**

Name: Desc:

A large rectangular box with a black border, containing the text "Image Not Available" in a bold, black, sans-serif font, centered within the box.[Click here for Larger Image](#)

**Sketch Images**

Name: Desc:





# RICHMOND BOARD OF ZONING APPEALS APPLICATION FORM



**THE RICHMOND ZONING ADMINISTRATION OFFICE**  
**ROOM 110, CITY HALL, 900 EAST BROAD STREET**  
**RICHMOND, VIRGINIA 23219**  
**(804) 646-6340**

## TO BE COMPLETED BY THE APPLICANT

### PROPERTY

**OWNER:** City of Richmond  
**ADDRESS:** Department of Public Works  
906 East Broad Street, Suite 701  
Richmond, Virginia 23219

**PHONE:** (Home) ( ) ( ) (Mobile) ( ) ( )  
**FAX:** ( ) ( ) (Work) ( ) ( )  
**E-mail Address:**

### PROPERTY OWNER'S

**REPRESENTATIVE:** Heywood Harrison  
**(Name/Address)** 1209 Admiral Street  
Richmond, Virginia 23219

**PHONE:** (Home) ( ) ( ) (Mobile) (804) 901-5090  
**FAX:** ( ) ( ) (Work) (804) 646-5608  
**E-mail Address:** Heywood.harrison@richmond.gov

**PROPERTY ADDRESS (ES)** 3400 Belt Boulevard

**TYPE OF APPLICATION:** ☐ VARIANCE ☒ SPECIAL EXCEPTION ☐ OTHER \_\_\_\_\_

**ZONING ORDINANCE SECTION NUMBERS(S):** 30-300, 30-408.7 & 30-650.2

**APPLICATION REQUIRED FOR:** An electrical permit to install site lighting at an existing multipurpose sports field.

**TAX PARCEL NUMBER(S):** C009-0612/010 **ZONING DISTRICT:** R-4 (Single-Family Residential)

**REQUEST DISAPPROVED FOR THE REASON THAT:** The proposed height of accessory structures exceeds the maximum height limit applicable in the zoning district. A maximum height of forty-four feet (44') is permitted for two poles that are proposed to be located 15' off of the western property line; a height of seventy feet (70') is proposed for poles "S1" and "S2".

**DATE REQUEST DISAPPROVED:** July 17, 2019

**FEE WAIVER:** YES ☐ NO: ☒

**DATE FILED:** July 17, 2019 **TIME FILED:** 2:00 p.m. **PREPARED BY:** Josh Young **RECEIPT NO.** BZAC-057738-2019

**AS CERTIFIED BY:** [Signature] (ZONING ADMINSTRATOR)

### I BASE MY APPLICATION ON:

**SECTION 17.20 PARAGRAPH(S)** (C) **OF THE CHARTER OF THE CITY OF RICHMOND**

**SECTION 15.2 -2309.2** ☐ **OF THE CODE OF VIRGINIA** [OR]

**SECTION 1040.3 PARAGRAPH(S)** \_\_\_\_\_ **OF THE ZONING ORDINANCE OF THE CITY OF RICHMOND**

## TO BE COMPLETED BY APPLICANT

**I have received the handouts, *Suggestions for Presenting Your Case to the Board & Excerpts from the City Charter*** ☒

**I have been notified that I, or my representative, must be present at the hearing at which my request will be considered.**

**SIGNATURE OF OWNER OR AUTHORIZED AGENT:** [Signature] **DATE:** 8/1/19

\*\*\* TO BE COMPLETED BY THE SECRETARY TO THE BOARD OF ZONING APPEALS \*\*\*

**CASE NUMBER:** BZA 39-2019 **HEARING DATE:** September 4, 2019 **AT** \_\_\_\_\_ **1:00** **P.M.**



BOARD OF ZONING APPEALS CASE BZA 39-2019  
150' Buffer

APPLICANT(S): City of Richmond Department of Public Works

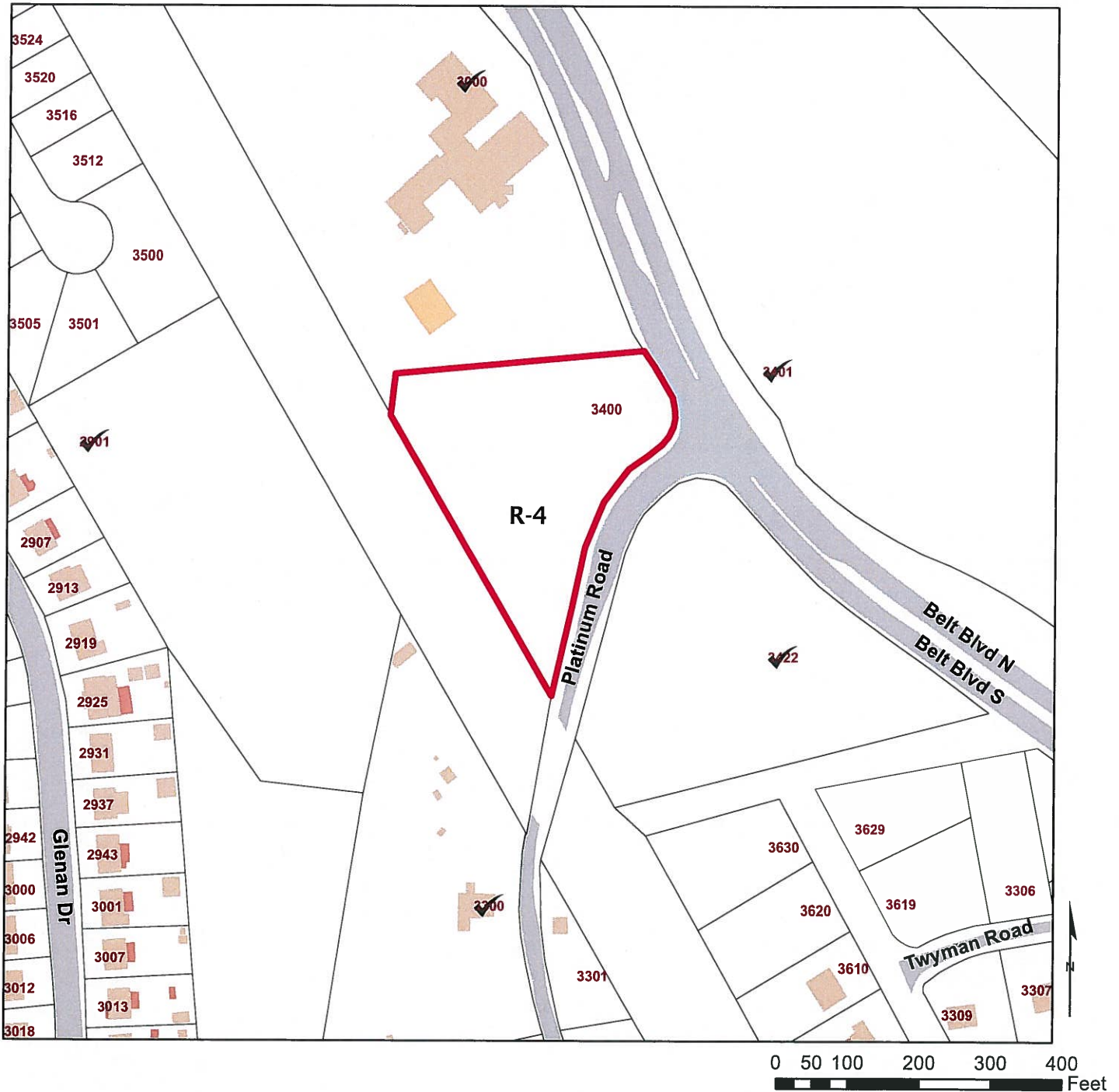
PREMISES: 3400 Belt Boulevard

(Tax Parcel Number C009-0612/010)

SUBJECT: An electrical permit to install site lighting at an existing multipurpose sports field.

REASON FOR THE REQUEST: Based on Sections 30-300, 30-408.7 & 30-650.2  
of the Zoning Ordinance for the reason that:

The proposed height of accessory structures exceeds the maximum height limit applicable in the zoning district.





## BOARD OF ZONING APPEALS PRESENTATION SUGGESTIONS

### CITY OF RICHMOND, VIRGINIA

When presenting your request for a variance or exception to the Board of Zoning Appeals, it is important that you consider the points outlined below. The City Charter requires that every decision of the Board must be based upon a finding of fact that the Board must determine from sworn testimony, together with pertinent evidence, presented at its public hearing. It is essential that the Board receive thorough and complete information in order for it to adequately consider your case and make an informed decision.

1. The powers and duties of the Board of Zoning Appeals are specified in Section 17.20 of the City Charter and Article X, Division 5, of the Zoning Ordinance. The Zoning Office will assist you in identifying how your case should be filed. If you have questions regarding your case filing, please contact the Zoning Administration Office (646-6340/6701). Please review the applicable provisions of the City Charter or the Zoning Ordinance thoroughly and address them when presenting your case to the Board to show that the applicable requirements have been satisfied.
2. The Board of Zoning Appeals is a quasi-judicial board whose decisions are controlled by statutory law and also take into consideration applicable case law that has been handed down by the Richmond Circuit Court and the Virginia Supreme Court. The Board suggests that if you have any legal questions regarding statutory or case law as it may apply to your application, that those legal issues should be discussed with an attorney before you make your final decision to submit an application to the Board.
3. The Board considers it absolutely essential that you discuss your case with your neighbors (notification letters are sent to property owners within a 150-foot radius of your property) as well as your neighborhood association(s). Information regarding your neighborhood association(s) and/or contact person(s) may be obtained from the City's website at <http://www.richmondgov.com/PlanningAndDevelopmentReview/civicasociationgroupinformation.aspx>. Once on the page, you can search for your property using the interactive map. A dialogue box will provide you with the names of all civic groups within which your property may lie. Once you have those group names, scroll down the page to the appropriate group(s) to find the contact information for each.
4. **Please be advised that if you fail to discuss your request with your neighbors and neighborhood association(s), you should anticipate that your case will be continued until the Board's next regularly scheduled meeting.** It is highly recommended that you contact your neighborhood association as soon as possible to determine their meeting schedule in order to be sure you allow yourself enough time to talk to all concerned parties prior to the hearing before the Board. The Board's Rules of Procedure require payment of a \$150.00 continuance fee if the applicant must request a continuance for the reason that the applicant failed to discuss their case with their neighbor(s) or neighborhood association(s).
4. You are also strongly encouraged to discuss your pending case with the Secretary of the Board, Roy Benbow (804-240-2124) well before the hearing. The Secretary can be helpful by explaining the BZA public hearing process.
5. Utilizing photographs, plans, maps, diagrams and such other written or graphic evidence as needed to fully explain your request can be a great help to the Board in understanding your request and thereby improve your chances for success. Remember a picture is worth a thousand words.
6. Note that, although the Board is not authorized to grant a waiver from the zoning regulations based on financial circumstances alone, it may be a factor to be taken into consideration along with other facts in a case. If your case involves such a factor, please provide the Board with complete and relevant financial information for its review.
7. The Board's hearings are informal, although all testimony is taken under oath. You are not required to be represented by an attorney in presenting your case. However, if you choose, you may have legal representation and/or may utilize such technical experts or other persons to testify on your behalf as you feel are needed to adequately explain your request to the Board.

Acknowledgement of Receipt by Applicant or Authorized Agent: Stepwood Harris

(Revised: 4/28/16)



**MY PROJECT**  
 Name: Hickory Hill Community Center Athletic Field  
 Location: Richmond, VA

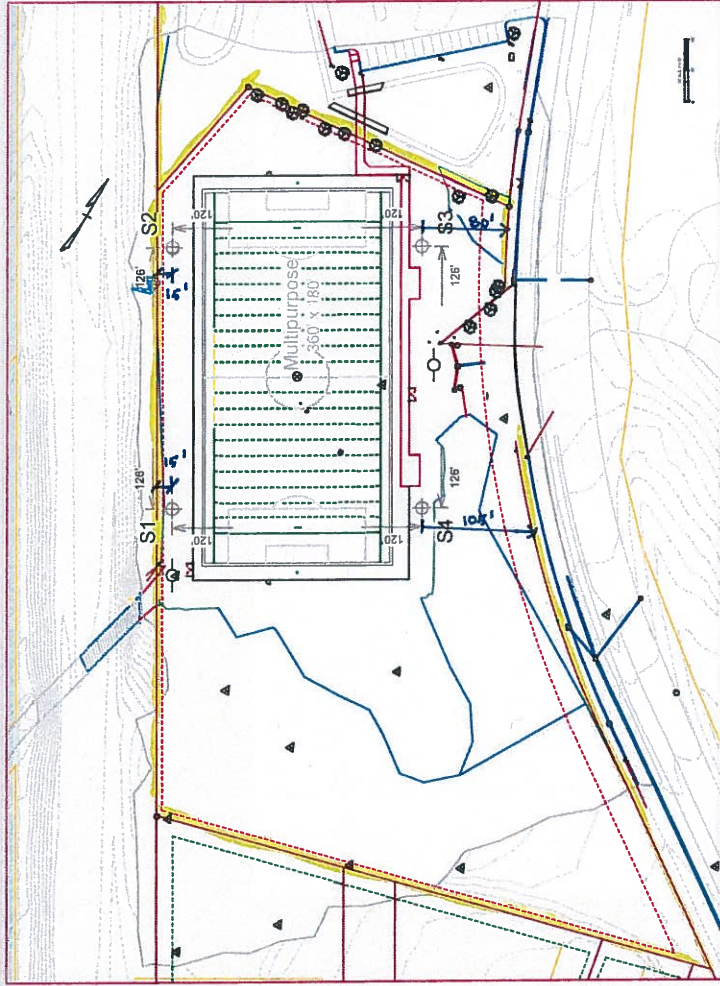
**EQUIPMENT LAYOUT**  
**INCLUDES:**  
 - Multipurpose  
 Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.  
 Installation Requirements: Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.

**EQUIPMENT LIST FOR AREAS SHOWN**

| QTY | LOCATION | SIZE | GRADE ELEVATION | MOUNTING HEIGHT | LUMINAIRE | QTY/LAMP |
|-----|----------|------|-----------------|-----------------|-----------|----------|
| 4   | S1-S4    | 70"  | 70'             | 1500W MZ        |           | 11       |
| 4   |          |      | TOTALS          |                 |           | 44       |

**SINGLE LUMINAIRE AMPERAGE DRAW CHART**  
 (30 min power factor)

| Ballast Specifications | Line Amperage Per Luminaire (max draw) |     |     |     |     |     |
|------------------------|----------------------------------------|-----|-----|-----|-----|-----|
| Single Phase Voltage   | 208                                    | 220 | 240 | 277 | 347 | 380 |
| 1500 watt MZ           | 8.6                                    | 8.3 | 7.5 | 6.5 | 5.1 | 4.7 |



**Light Pole Setback Distances**  
 Pole S1 – 15' to property line  
 Pole S2 – 15' to property line  
 Pole S3 – 80' to property line  
 Pole S1 – 105' to property line

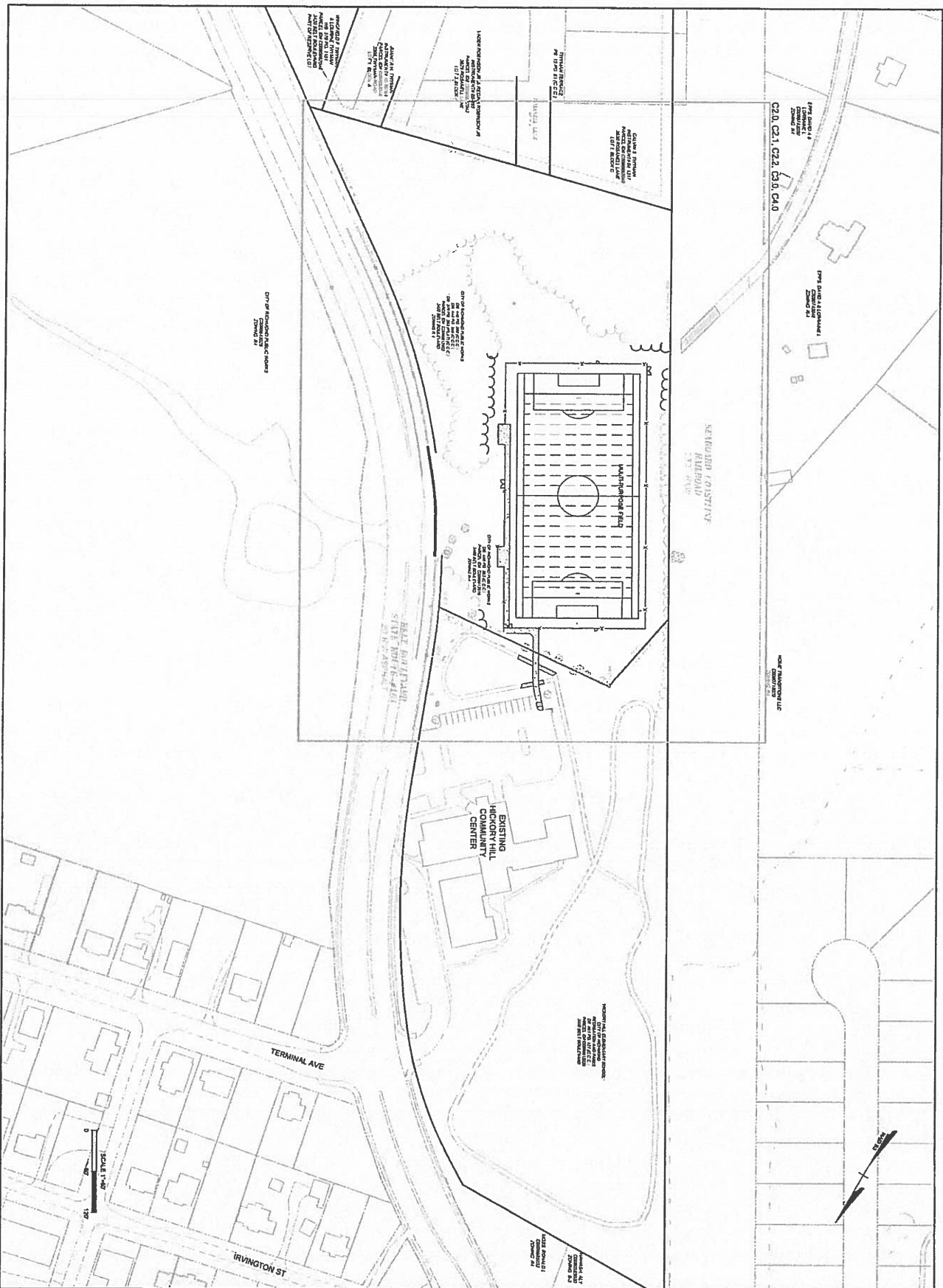
**Property Line**  
**ENGINEERED/DESIGN**  
 By: WJVICE  
 File # / Date: 169204A  
 12-Feb-15

Pole location(s) ⓧ dimensions are relative to 0,0 reference point(s) ⓧ









# TIMMONS GROUP

YOUR VISION ACHIEVED THROUGH OURS.

THIS DRAWING PREPARED AT THE  
CORPORATE OFFICE  
1001 Builders Parkway, Suite 200 | Richmond, VA 23225  
TEL 804-200-6300 FAX 804-261-1116 www.timmons.com

| HICKORY HILL ATHLETIC FIELD<br>CITY OF RICHMOND, VIRGINIA<br>OVERALL PLAN |     | REVISION DESCRIPTION |                   |
|---------------------------------------------------------------------------|-----|----------------------|-------------------|
| DATE                                                                      | BY  | NO.                  | DESCRIPTION       |
| 1/11/2016                                                                 | STW | 1                    | ISSUED FOR PERMIT |
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| 1/11/2016                                                                 | STW | 98                   | ISSUED FOR PERMIT |
| 1/11/2016                                                                 | STW | 99                   | ISSUED FOR PERMIT |
| 1/11/2016                                                                 | STW | 100                  | ISSUED FOR PERMIT |

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EQUIPMENT LIST FOR AREAS SHOWN

| QTY    | LOCATION | Pole<br>SIZE | GRADE<br>ELEVATION | MOUNTING<br>HEIGHT | Luminaires   |            |  | QTY /<br>POLE | THIS<br>GRID | OTHER<br>GRIDS |
|--------|----------|--------------|--------------------|--------------------|--------------|------------|--|---------------|--------------|----------------|
|        |          |              |                    |                    | LAMP<br>TYPE | 1500W / WZ |  |               |              |                |
| 4      | S1-S4    | 70'          |                    | 70'                |              |            |  | 11            | 11           | 0              |
| 4      |          |              |                    |                    |              |            |  | 44            | 44           | 0              |
| TOTALS |          |              |                    |                    |              |            |  |               |              |                |

**MY PROJECT**  
Name: Hickory Hill Community Center Athletic Field  
Location: Richmond, VA

**GRID SUMMARY**  
Name: Multipurpose  
Size: 360' x 180'  
Spacing: 30.0' x 30.0'  
Height: 3.0' above grade

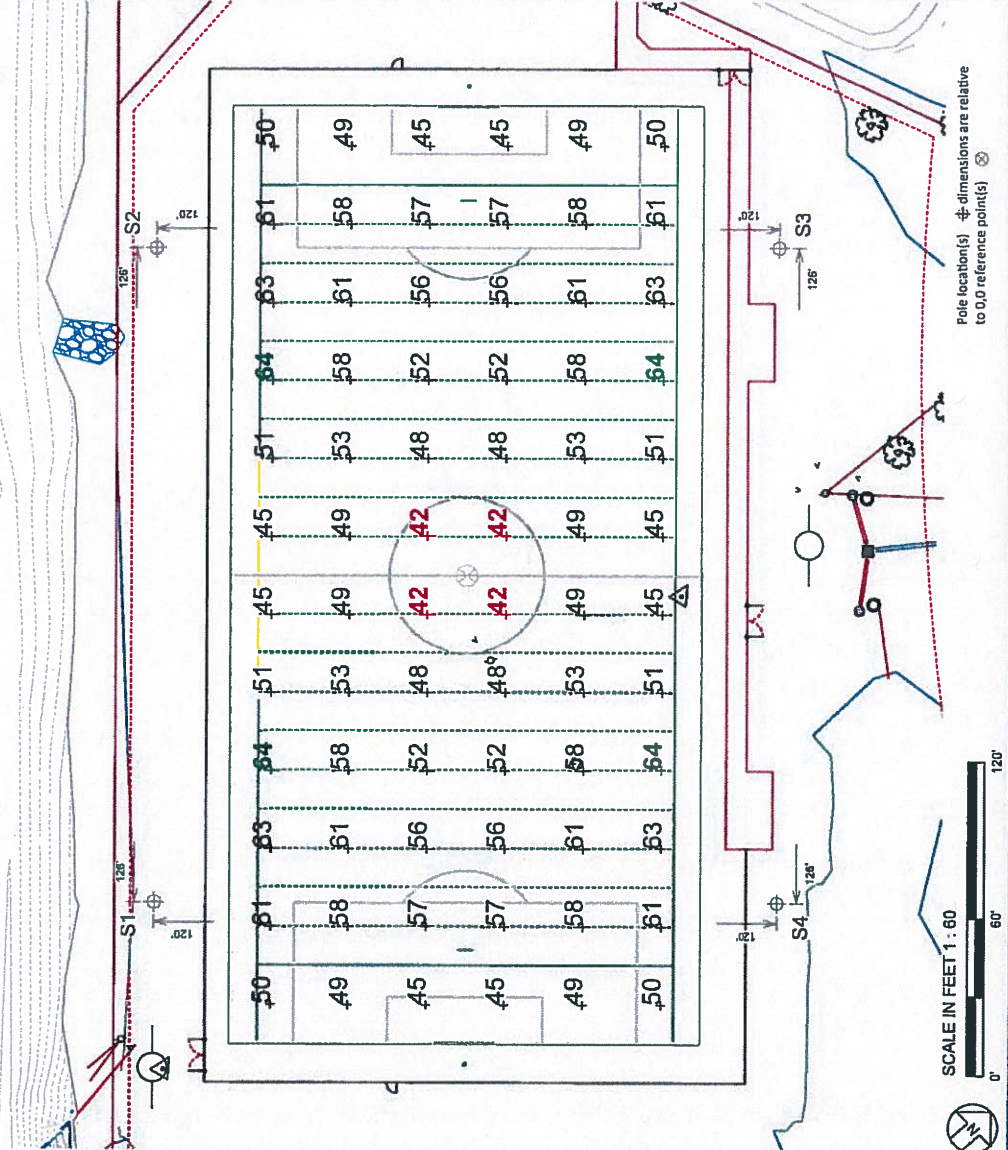
| CONSTANT ILLUMINATION SUMMARY |         | HORIZONTAL FOOTCANDLES |                  |
|-------------------------------|---------|------------------------|------------------|
| Guaranteed Average:           | 50      | Entire Grid            | 50               |
| Scan Average:                 | 53.37   | Maximum:               | 64               |
| Minimum:                      | 42      | Avg / Min:             | 1.26             |
| Guaranteed Max / Min:         | 2       | Max / Min:             | 1.51             |
| UG (adjacent pts):            | 1.26    | CU:                    | 0.59             |
| No. of Points:                | 72      | Luminaire Type:        | Green Generation |
| Luminaire Information:        |         | Design Usage Hours:    | 5,000 hours      |
| Design Lumens:                | 134,000 | Avg Lamp Tilt Factor:  | 1.000            |
| No. of Luminaires:            | 44      | Avg kW:                | 68.82 (74.8 max) |

Guaranteed Performance: The Guaranteed Average CONSTANT ILLUMINATION described above is guaranteed for the design usage hours of the system.  
Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.  
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.  
Installation Requirements: Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.

**ENGINEERED DESIGN**  
By: WNVCE  
File # / Date: 169204A 12-Feb-15

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ILLUMINATION SUMMARY





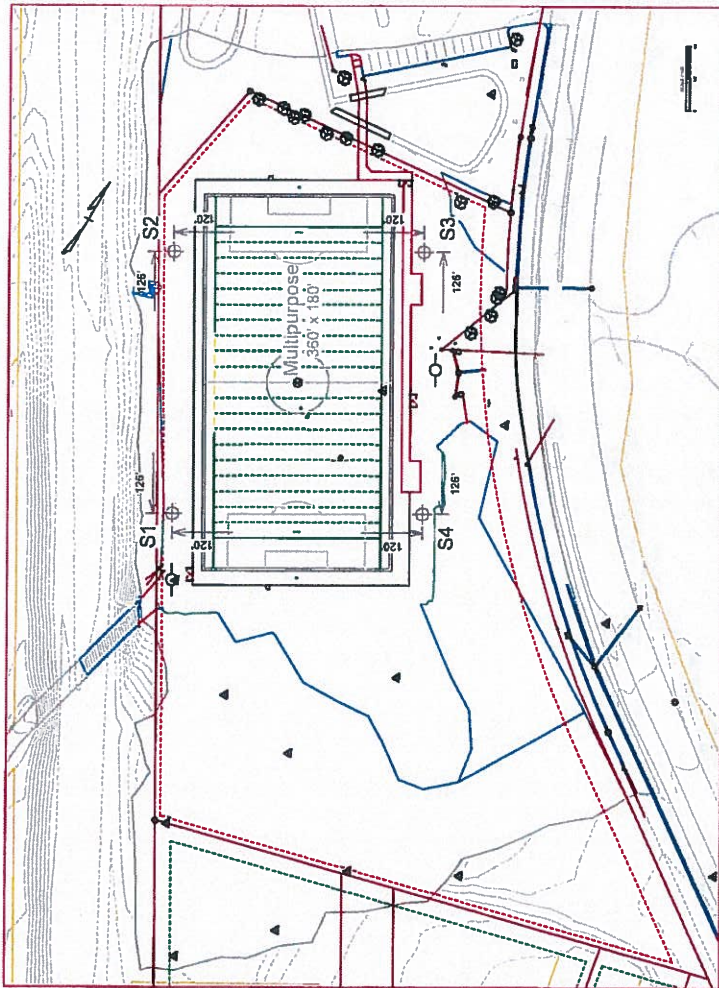


**MY PROJECT**  
Name: Hickory Hill Community Center Athletic Field  
Location: Richmond, VA

**EQUIPMENT LAYOUT**  
**INCLUDES:**  
- Multipurpose  
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.  
Installation Requirements: Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.

| EQUIPMENT LIST FOR AREAS SHOWN |          |      |                 |                 |            |
|--------------------------------|----------|------|-----------------|-----------------|------------|
| QTY                            | LOCATION | SIZE | GRADE ELEVATION | MOUNTING HEIGHT | Luminaires |
|                                |          |      |                 |                 | LAMP TYPE  |
| 4                              | S1-S4    | 7'0" | -               | 7'0"            | 1500W MZ   |
| 4                              |          |      |                 |                 |            |
| TOTALS                         |          |      |                 |                 | 44         |

| SINGLE LUMINAIRE AMPERAGE DRAW CHART |              |                             |     |     |     |
|--------------------------------------|--------------|-----------------------------|-----|-----|-----|
| Ballast Specifications               |              | Line Amperage Per Luminaire |     |     |     |
| (50 min power factor)                |              | (max draw)                  |     |     |     |
| Single Phase Voltage                 | 1500 watt MZ | 208                         | 220 | 240 | 347 |
|                                      |              | 160                         | 169 | 180 | 260 |
|                                      |              | 8.6                         | 8.3 | 7.5 | 6.5 |
|                                      |              |                             |     |     | 5.1 |
|                                      |              |                             |     |     | 4.7 |
|                                      |              |                             |     |     | 3.7 |



SCALE IN FEET 1 : 150



Pole location(s)  $\oplus$  dimensions are relative to 0,0 reference point(s)  $\otimes$

**ENGINEERED DESIGN**  
BY: WAJICE  
File # / Date: 169204A 12-Feb-15

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**EQUIPMENT LAYOUT**



## Control System Summary



| Field/Zone Description | Zones |
|------------------------|-------|
|                        | 1     |

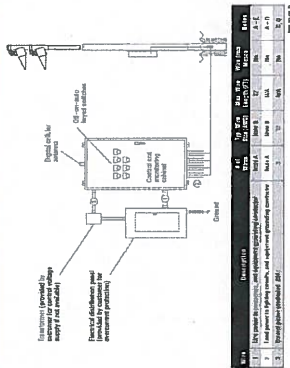
|                           |                   |                |               |
|---------------------------|-------------------|----------------|---------------|
| CONTROL POWER CONSUMPTION | 120V Single Phase | INRUSH: 156B.D | SEALED: 104.B |
|---------------------------|-------------------|----------------|---------------|

| CIRCUIT SUMMARY BY ZONE |                     |                  |                  |                               |                  |      |
|-------------------------|---------------------|------------------|------------------|-------------------------------|------------------|------|
| POLE                    | CIRCUIT DESCRIPTION | # OF<br>PATTERNS | # OF<br>PATTERNS | TOTAL<br>LOAD<br>SIZE (AMP-S) | CONTRACTOR<br>ID | ZONE |
| S1                      | Source              | 10               | 10               | 50.2                          | 60               | C1   |
| S2                      | Source              | 10               | 10               | 50.2                          | 60               | C2   |
| S3                      | Source              | 10               | 10               | 50.2                          | 60               | C3   |
| S4                      | Source              | 10               | 10               | 50.2                          | 60               | C4   |

### Control System Summary



## Control-Link, Control and Monitoring System

[illegible]

## Control System Summary

### Project Information

|                                                     |                                              |
|-----------------------------------------------------|----------------------------------------------|
| Project #:                                          | 18220                                        |
| Project Name:                                       | Hickory Hill Community Center Athletic Field |
| Location:                                           | 027/119                                      |
| Project Engineer:                                   | Steve Wiley                                  |
| Design Engineer:                                    | Control and Monitoring                       |
| General System Type:                                | Digital Cellular                             |
| Communication Type:                                 | 182204P1V1-422116551                         |
| Communication ID:                                   | Services 1                                   |
| Document ID:                                        | 240601                                       |
| Number of Distribution Panel Locations for Project: | 120                                          |
| Design Voltage/Hertz/Phase:                         |                                              |
| Control Voltage:                                    |                                              |

| DESCRIPTION                    | APPROXIMATE SIZE |
|--------------------------------|------------------|
| Control and Monitoring Cabinet | 24 X 48          |

| QTY | SIZE   |
|-----|--------|
| 4   | 60 AMP |
| 1   |        |

Total Connectors  
Total C/M/O/Audio Switches:

### Materials Checklist

- [illegible]

### IMPORTANT NOTES

- [illegible]

**NOTE:** Refer to *Installation Instructions* for more details on

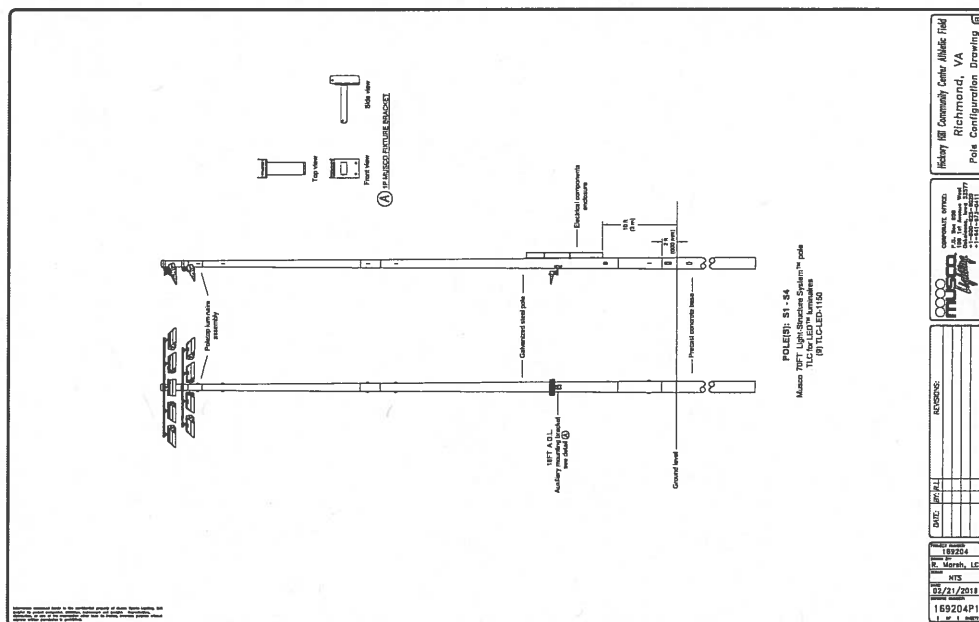
## Control System Summary



## NEI SUMMARY

| Circuit | Description | Full Load Amps | Panel Summary   |                   |
|---------|-------------|----------------|-----------------|-------------------|
|         |             |                | Circuit Breaker | Panel (BT Others) |
| 1       | Panel 1     | 56.18          |                 |                   |
| 1       | Panel 2     | 56.18          |                 |                   |
| 1       | Panel 3     | 56.18          |                 |                   |

| ZONE SCHEDULE |                    |                  |                     |            |
|---------------|--------------------|------------------|---------------------|------------|
| ZONE          | RELATION<br>SWITCH | ZONE DESCRIPTION | CIRCUIT DESCRIPTION |            |
|               |                    |                  | POLE NO             | CONNECTION |
| Zone 1        | 1                  | Soccer           | 31                  | C1         |
|               |                    |                  | 32                  | C2         |
|               |                    |                  | 33                  | C3         |
|               |                    |                  | 34                  | C4         |



# Hickory Hill Community Center Athletic Field

Richmond, VA

## Lighting System

| Pole / Fixture Summary |             |            |             |                |
|------------------------|-------------|------------|-------------|----------------|
| Pole ID                | Pole Height | Mfg Height | Fixture Qty | Luminaire Type |
| S1-S4                  | 70'         | 70'        | 9           | TLC-LED-1150   |
|                        |             | 16'        | 1           | TLC-BT-575     |
| 4                      |             |            | 40          |                |
|                        |             |            |             | 10.35 kW       |
|                        |             |            |             | 0.58 kW        |
|                        |             |            |             | 43.70 kW       |
|                        |             |            |             | A              |

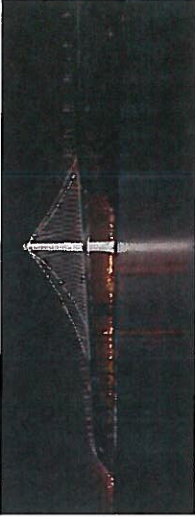
| Circuit Summary |             |         |             |
|-----------------|-------------|---------|-------------|
| Circuit         | Description | Load    | Fixture Qty |
| A               | Soccer      | 43.7 kW | 40          |

| Fixture Type Summary |                    |         |         |         |          |
|----------------------|--------------------|---------|---------|---------|----------|
| Type                 | Source             | Wattage | Lumens  | L90     | Quantity |
| TLC-BT-575           | LED 5700K - 75 CRI | 575W    | 52,000  | >81,000 | 4        |
| TLC-LED-1150         | LED 5700K - 75 CRI | 1150W   | 121,000 | >81,000 | 36       |

## Light Level Summary

| Calculation Grid Summary |                                 |      |     |     |         |          |             |  |  |
|--------------------------|---------------------------------|------|-----|-----|---------|----------|-------------|--|--|
| Grid Name                | Calculation Metric              | Ave  | Min | Max | Ave/Min | Circuits | Fixture Qty |  |  |
| 150' Spill               | Horizontal Illuminance          | 0    | 0   | 0   | 0.00    | A        | 40          |  |  |
| 150' Spill               | Max Candela (by Fixture)        | 25.3 | 0   | 182 | 0.00    | A        | 40          |  |  |
| 150' Spill               | Max Vertical Illuminance Metric | 0    | 0   | 0   | 0.00    | A        | 40          |  |  |
| Soccer                   | Horizontal Illuminance          | 51.6 | 43  | 60  | 1.20    | A        | 40          |  |  |

From Hometown to Professional



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## EQUIPMENT LIST FOR AREAS SHOWN

| QTY | LOCATION | Pole<br>SIZE | GRADE<br>ELEVATION | MOUNTING<br>HEIGHT | Luminaires        |              |              |
|-----|----------|--------------|--------------------|--------------------|-------------------|--------------|--------------|
|     |          |              |                    |                    | LUMINAIRE<br>TYPE | QTY/<br>POLE | THIS<br>GRID |
| 4   | S1-S4    | 70'          | -                  | 15.5'              | TLC-BT-575        | 1            | 1            |
|     |          |              |                    | 70'                | TLC-LED-1150      | 9            | 9            |
| 4   |          |              |                    | TOTALS             |                   | 40           | 40           |

Hickory Hill Community Center Athletic Field  
Richmond, VA

## GRID SUMMARY

Name: Soccer  
Size: 360' x 180'  
Spacing: 30.0' x 30.0'  
Height: 3.0' above grade

## ILLUMINATION SUMMARY

## MAINTAINED HORIZONTAL FOOTCANDLES

## Entire Grid

Guaranteed Average: 50

Scan Average: 51.57

Maximum: 60

Minimum: 43

Avg / Min: 1.20

Guaranteed Max / Min: 2

Max / Min: 1.40

UG (adjacent pts): 1.26

CU: 0.72

No. of Points: 72

## LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI

Luminaire Output: 52,000 / 121,000 lumens

No. of Luminaires: 40

Total Load: 43.7 kW

| Luminaire Type                                              | Lumen Maintenance |         |         |
|-------------------------------------------------------------|-------------------|---------|---------|
|                                                             | L90 hrs           | L80 hrs | L70 hrs |
| TLC-BT-575                                                  | >81,000           | >81,000 | >81,000 |
| TLC-LED-1150                                                | >81,000           | >81,000 | >81,000 |
| Reported per TM-21-11. See luminaire datasheet for details. |                   |         |         |

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

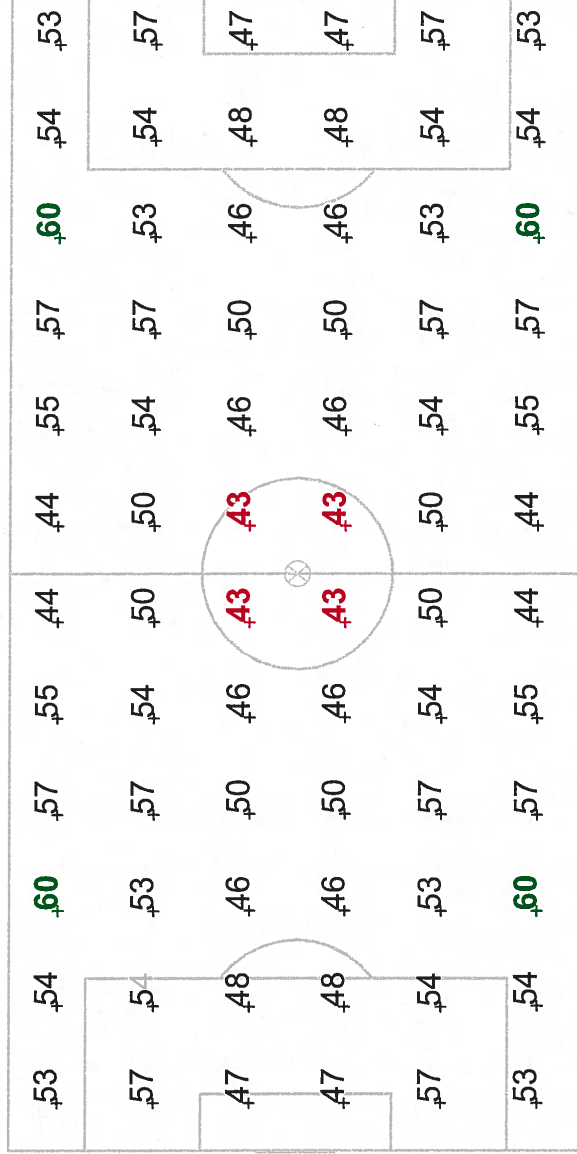
**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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## ILLUMINATION SUMMARY



SCALE IN FEET 1 : 60



Pole location(s)  $\Phi$  dimensions are relative to 0,0 reference point(s)  $\otimes$

ENGINEERED DESIGN By: Ryan A. Marsh, LC • File #1692048 • 21-Feb-19



## EQUIPMENT LIST FOR AREAS SHOWN

| TOTAL |          |      | LUMINAIRIES        |                    |                   |              |              |                |
|-------|----------|------|--------------------|--------------------|-------------------|--------------|--------------|----------------|
| QTY   | LOCATION | SIZE | GRADE<br>ELEVATION | MOUNTING<br>HEIGHT | LUMINAIRE<br>TYPE | QTY/<br>POLE | THIS<br>GRID | OTHER<br>GRIDS |
| 4     | 51-54    | 70'  | -                  | 15.5'              | TLC-BT-575        | 1            | 1            | 0              |
|       |          |      |                    | 70'                | TLC-LED-1150      | 9            | 9            | 0              |
| 4     |          |      | TOTALS             |                    |                   | 40           | 40           | 0              |

|         |                  |
|---------|------------------|
| Name:   | 150' Spill       |
| Pacing: | 30.0'            |
| Height: | 3.0' above grade |

HORIZONTAL FOOTCANDLES:

|                |        |             |
|----------------|--------|-------------|
| Scan Average:  | 0.0001 | Entire Grid |
| Maximum:       | 0.00   |             |
| Minimum:       | 0.00   |             |
| No. of Points: | 68     |             |

Color / CRI: 5700K - 75 CRI

Color / CRI: 5700K - 75 CRI

**Luminaire Output:** 52,000 / 121,000 lumens

No. of Luminaires: 40

**Total Load: 43.7 kW**

| Luminaire Type | L90 hrs | L80 hrs | L70 hrs |
|----------------|---------|---------|---------|
| TLC-BT-575     | >81,000 | >81,000 | >81,000 |
| TLC-LED-1150   | >81,000 | >81,000 | >81,000 |

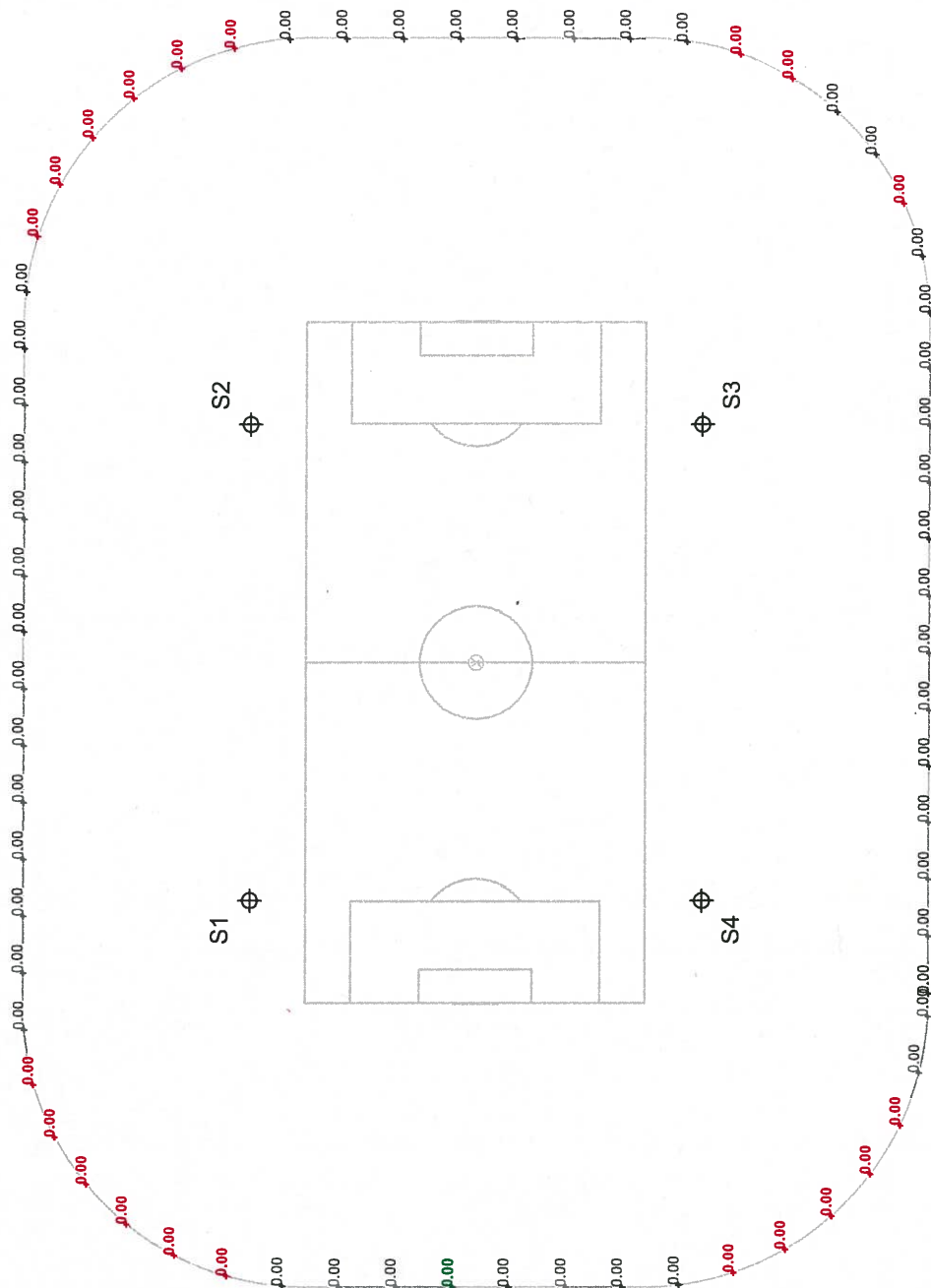
Reported per TM-21-11. See luminaire datasheet for details.

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



SCALE IN FEET 1:100



Pole location(s)  $\oplus$  dimensions are relative to 0,0 reference point(s)  $\otimes$



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ILLUMINATION SUMMARY

**Hickory Hill Community Center Athletic Field**  
**Richmond, VA**

| GRID SUMMARY |                  |
|--------------|------------------|
| Name:        | 150' Spill       |
| Spacing:     | 30.0'            |
| Height:      | 3.0' above grade |

| ILLUMINATION SUMMARY     |                         |
|--------------------------|-------------------------|
| MAX VERTICAL FOOTCANDLES |                         |
| Entire Grid              |                         |
| Scan Average:            | 0.0004                  |
| Maximum:                 | 0.00                    |
| Minimum:                 | 0.00                    |
| No. of Points:           | 68                      |
| LUMINAIRE INFORMATION    |                         |
| Color / CRI:             | 5700K - 75 CRI          |
| Luminaire Output:        | 52,000 / 121,000 lumens |
| No. of Luminaires:       | 40                      |
| Total Load:              | 43.7 kW                 |

| Luminaire Type | L90 hrs | L80 hrs | L70 hrs |
|----------------|---------|---------|---------|
| TLC-BT-575     | >81,000 | >81,000 | >81,000 |
| TLC-LED-1150   | >81,000 | >81,000 | >81,000 |

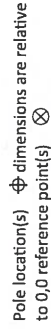
Reported per TM-21-11. See luminaire datasheet for details.

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15

**Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.**

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations



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## ILLUMINATION SUMMARY

**Hickory Hill Community Center Athletic Field**  
**Richmond, VA**

| GRID SUMMARY |                  |
|--------------|------------------|
| Name:        | 150' Spill       |
| Spacing:     | 30.0'            |
| Height:      | 3.0' above grade |

**ILLUMINATION SUMMARY**

CANDELA (PER EXTRE)

|                           |                                |
|---------------------------|--------------------------------|
| Entire Grid               |                                |
| <b>Scan Average:</b>      | <b>25.3108</b>                 |
| <b>Maximum:</b>           | <b>181.93</b>                  |
| <b>Minimum:</b>           | <b>0.00</b>                    |
| <b>No. of Points:</b>     | <b>68</b>                      |
| LUMINAIRE INFORMATION     |                                |
| <b>Color / CRI:</b>       | <b>5700K - 75 CRI</b>          |
| <b>Luminaire Output:</b>  | <b>52,000 / 121,000 lumens</b> |
| <b>No. of Luminaires:</b> | <b>40</b>                      |
| <b>Total Load:</b>        | <b>43.7 kW</b>                 |

| Luminaire Type | L90 hrs | L80 hrs | L70 hrs |
|----------------|---------|---------|---------|
| TLC-BT-575     | >81,000 | >81,000 | >81,000 |
| TLC-LED-1150   | >81,000 | >81,000 | >81,000 |

Reported per TM-21-11. See luminaire datasheet for details.

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Pole location(s)  $\oplus$  dimensions are relative to 0,0 reference point(s)  $\otimes$



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## ILLUMINATION SUMMARY



EQUIPMENT LAYOUT

INCLUDES:

- Soccer

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

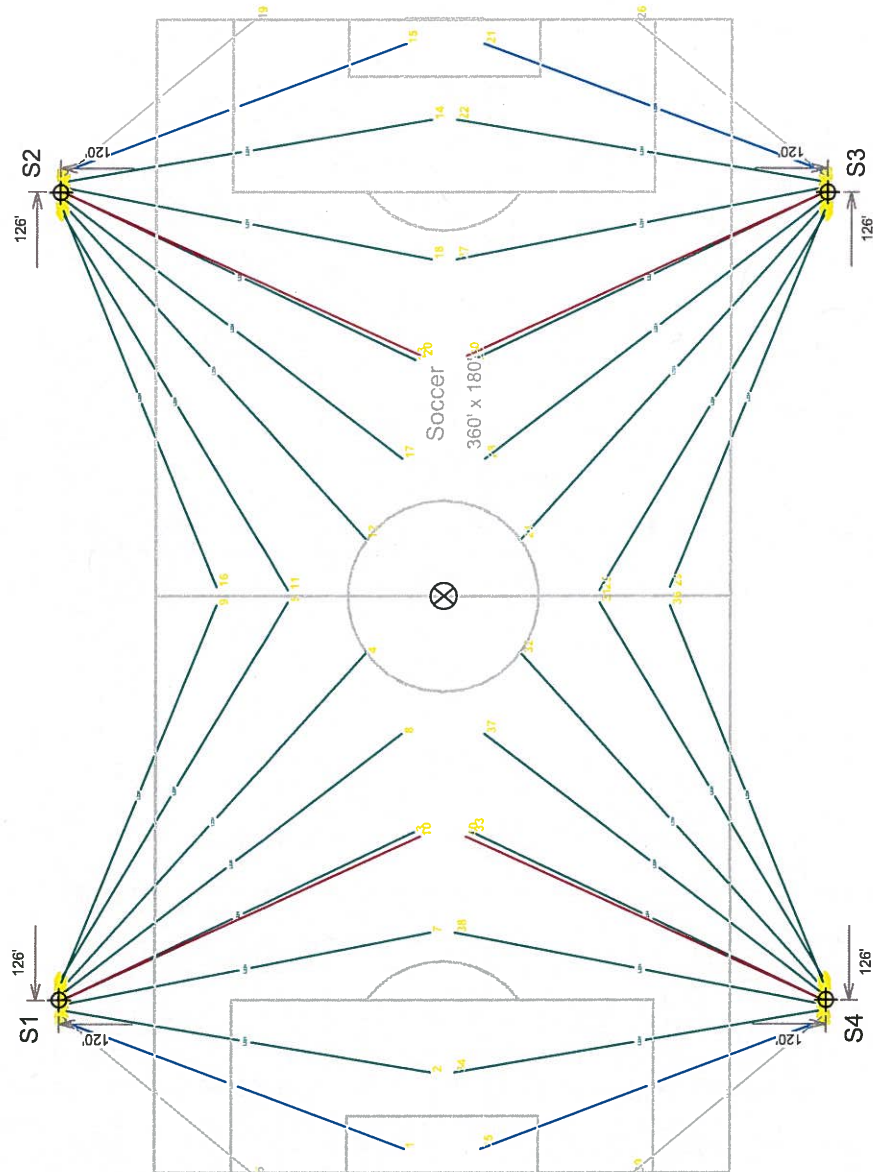
Installation Requirements: Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

| QTY | LOCATION | SIZE | GRADE ELEVATION | MOUNTING HEIGHT | Luminaires     |  | QTY / POLE |
|-----|----------|------|-----------------|-----------------|----------------|--|------------|
|     |          |      |                 |                 | LUMINAIRE TYPE |  |            |
| 4   | S1-S4    | 70'  | -               | 15.5'           | TLC-BT-575     |  | 1          |
|     |          |      |                 | 70'             | TLC-LED-1150   |  | 9          |
| 4   | TOTALS   |      |                 |                 |                |  | 40         |

SINGLE LUMINAIRE AMPERAGE DRAW CHART

| Ballast Specifications<br>(90 min power factor) |  | Line Amperage Per Luminaire<br>(max draw) |     |     |     |     |     |     |     |
|-------------------------------------------------|--|-------------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Single Phase Voltage                            |  | 208                                       | 220 | 240 | 277 | 347 | 380 | 480 |     |
|                                                 |  | (0)                                       | (0) | (0) | (0) | (0) | (0) | (0) | (0) |
| TLC-BT-575                                      |  | 3.4                                       | 3.2 | 2.9 | 2.5 | 2.0 | 1.8 | 1.5 |     |
| TLC-LED-1150                                    |  | 6.8                                       | 6.5 | 5.9 | 5.1 | 4.1 | 3.7 | 3.0 |     |



SCALE IN FEET 1 : 60



Pole location(s)  $\oplus$  dimensions are relative to 0,0 reference point(s)  $\otimes$

