

Permit #: 144

Permit Date: 02/27/24

Permit Type: Planning Commission

Case Number: PC 24-12 CUP

PC Meeting Date: c. 1st Tuesday of April

BZA Meeting Date:

Assigned Meeting Date: 04/02/2024

Special Meeting Date:

Applicant Is: Architect

Applicant Name: Chuck Miller

Applicant Address: 508 Houston Street

Applicant City, State, ZIP: Nashville, TN 37203

Applicant Phone Number: 615.254.4100

Applicant Email: cmiller@anecdoteexp.com

Description: Request to add tennis court lighting as approved by the BZA on 10.18.22 in the Master Plan.

Project Cost: 0

Square Feet: 0

Lot Area: 0

Lot Coverage: 0

Heat/cooled area: 0

Proposed Height(ft.): 0

#of stories: 0

Lot Depth/Width Ratio:

Avg. front setback of adjacent homes:

Zoning District: Zone D

Radnor Lake Impact Zone: No

Steep Slope: No

Plat/Subdivison: No

Status: Open

Assigned To: Desiree Lohr

Property

Parcel #	Address	Legal Description	Owner Name	Owner Phone	Zoning
13215004600	4700 FRANKLIN PIKE	PARCEL CONSOLIDATION FRANKLIN ROAD ACADEMY	FRANKLIN ROAD ACADEMY, INC.		

Fees

Fee	Description	Notes	Amount
CUP not including impervious surface (non-variance)			\$1,000.00
Total			\$1,000.00

Payments

Date	Paid By	Description	Payment Type	Accepted By	Amount
02/27/2024	Chuck Miller		107664	Desiree Lohr	\$1,000.00
Outstanding Balance					\$0.00



MEMORANDUM

To: Mr. Stephen Snow
From: Zac Dufour, P.E.
Kimley-Horn and Associates, Inc.
Date: March 1, 2024
Subject: PC Case 24-12, Franklin Road Academy

We have completed our review of the Conditional Use Permit Site Plan for Franklin Road Academy for the addition lighting to the Tennis Courts.

The proposed project is to install 4 light poles at the corners of each tennis court block on the Franklin Road Academy campus. The applicant has submitted a site plan showing the locations of the lights, an electrical plan and a photometric plan showing the photometrics from the lights at the courts and at the nearest property line. They are meeting the City requirements for light spill at the property line. These lights were part of the approved Franklin Road Academy Master Plan that was approved by the Board of Zoning Appeals. They have also provided documentation that the light fixtures are dark sky compliant.

Please see below for engineering comments.

Comments

There are no comments on the site plan package that was submitted.

Recommendation

This project is recommended for approval.

c: File

Franklin Road Academy Tennis

Nashville, TN

Lighting System

Pole/Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
T1-T4	50'	50'	2	TLC-LED-1200	2.34 kW	A
T5-T8	50'	50'	2	TLC-LED-1200	2.34 kW	B
8			16		18.72 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Tennis 1	9.36 kW	8
B	Tennis 2	9.36 kW	8

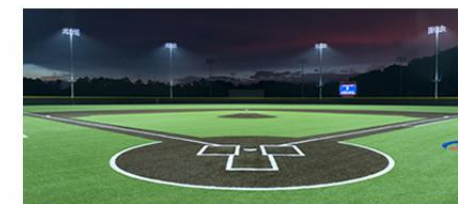
Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	16

Single Luminaire Amperage Draw Chart							
Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
	208	220	240	277	347	380	480
Single Phase Voltage	(60)	(60)	(60)	(60)	(60)	(60)	(60)
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Property Spill	Horizontal Illuminance	0.0138	0.00	0.11	-	-	A,B	16
Property Spill	Max Vertical Illuminance Metric	0.0318	0.00	0.24	-	-	A,B	16
Tennis 1	Horizontal Illuminance	51.03	42	64	1.53	1.21	A	8
Tennis 1 Spill	Horizontal Illuminance	0.0008	0.00	0.00	-	-	A	8
Tennis 1 Spill	Max Vertical Illuminance Metric	0.0034	0.00	0.02	-	-	A	8
Tennis 1 Spill - Candela	Max Candela Metric	90.8775	0.00	633.63	-	-	A	8
Tennis 2	Horizontal Illuminance	51.68	43	64	1.50	1.21	B	8
Tennis 2 Spill	Horizontal Illuminance	0.0003	0.00	0.00	-	-	B	8
Tennis 2 Spill	Max Vertical Illuminance Metric	0.0013	0.00	0.01	-	-	B	8
Tennis 2 Spill - Candela	Max Candela Metric	27.5506	0.00	265.55	-	-	B	8

From Hometown to Professional



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PROJECT SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	T1	50'	-3'	47'	TLC-LED-1200	2	2	0
2	T2 T4	50'	-	50'	TLC-LED-1200	2	2	0
1	T3	50'	-4'	46'	TLC-LED-1200	2	2	0
4	Totals					8	8	0

*Above Grade level relative to the field

Franklin Road Academy Tennis

Nashville, TN

Grid Summary	
Name	Tennis 1
Size	3 Court - 12' Spacing
Spacing	20.0' x 20.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average	50
Scan Average	51.03
Maximum	64
Minimum	42
Avg/Min	1.21
Guaranteed Max/Min	2
Max/Min	1.53
UG (adjacent pts)	0.00
CU	0.75
No. of Points	45
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	8
Total Load	9.36 kW



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 ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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



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ILLUMINATION SUMMARY

Equipment List For Areas Shown				Luminaires				
Pole								
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
4	T5-T8	50'	-	50'	TLC-LED-1200	2	2	0
4	Totals					8	8	0

*Above Grade level relative to the field



Franklin Road Academy Tennis

Nashville, TN

Grid Summary	
Name	Tennis 2
Size	3 Court - 12' Spacing
Spacing	20.0' x 20.0'
Height	3.0' above grade

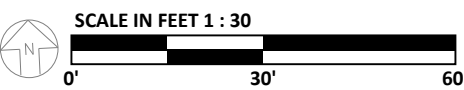
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average	50
Scan Average	51.68
Maximum	64
Minimum	43
Avg/Min	1.21
Guaranteed Max/Min	2
Max/Min	1.50
UG (adjacent pts)	0.00
CU	0.76
No. of Points	45
LUMINAIRE INFORMATION	
Applied Circuits	B
No. of Luminaires	8
Total Load	9.36 kW

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



ENGINEERED DESIGN By: E.Gray • File #177993Cr2 • 01-Mar-24

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



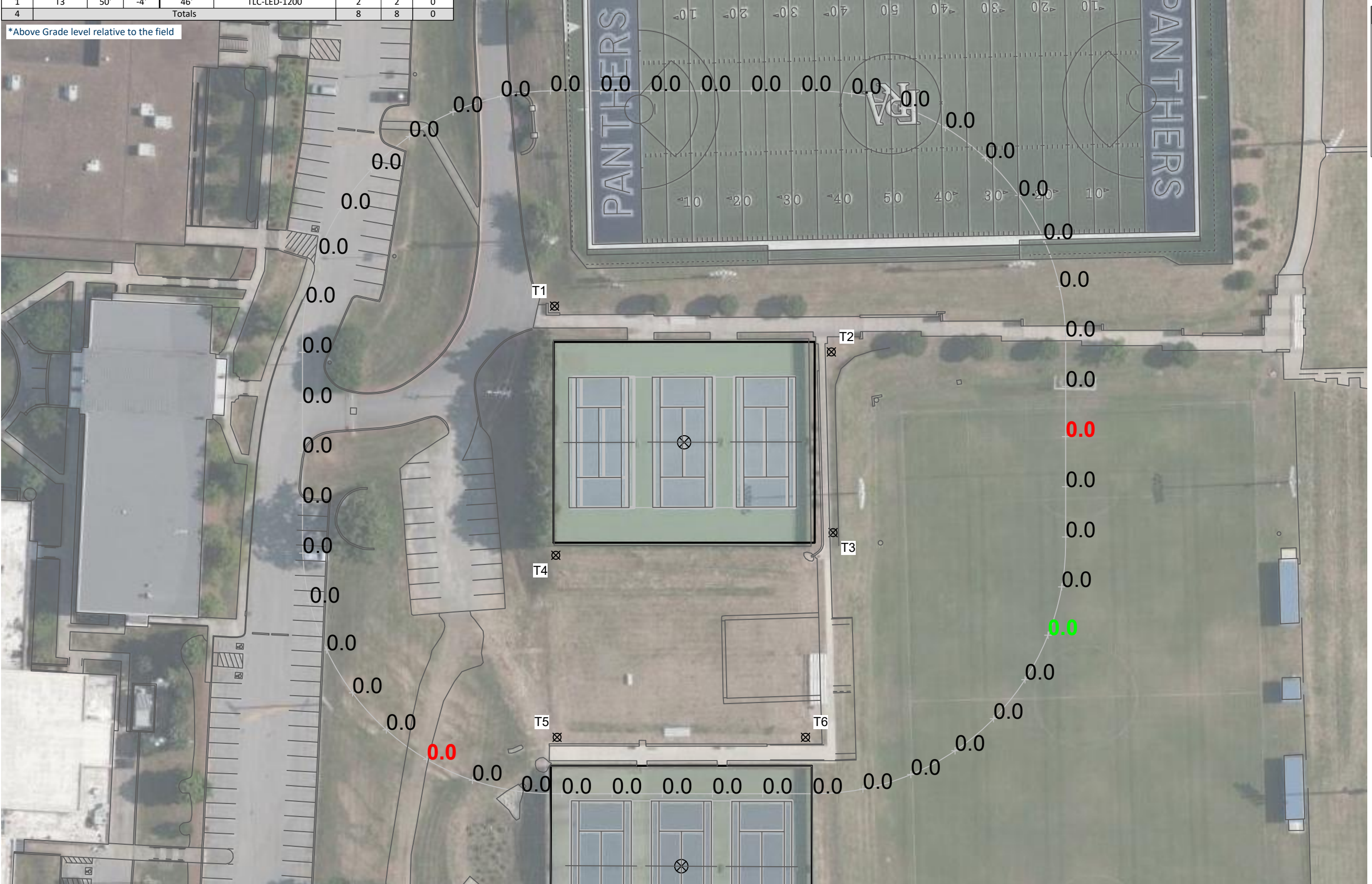
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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	T1	50'	-3'	47'	TLC-LED-1200	2	2	0
2	T2 T4	50'	-	50'	TLC-LED-1200	2	2	0
1	T3	50'	-4'	46'	TLC-LED-1200	2	2	0
4	Totals					8	8	0

*Above Grade level relative to the field



Franklin Road Academy Tennis

Nashville, TN

Grid Summary	
Name	Tennis 1 Spill
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Scan Average	0.0008
Maximum	0.00
Minimum	0.00
CU	0.00
No. of Points	50
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	8
Total Load	9.36 kW

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

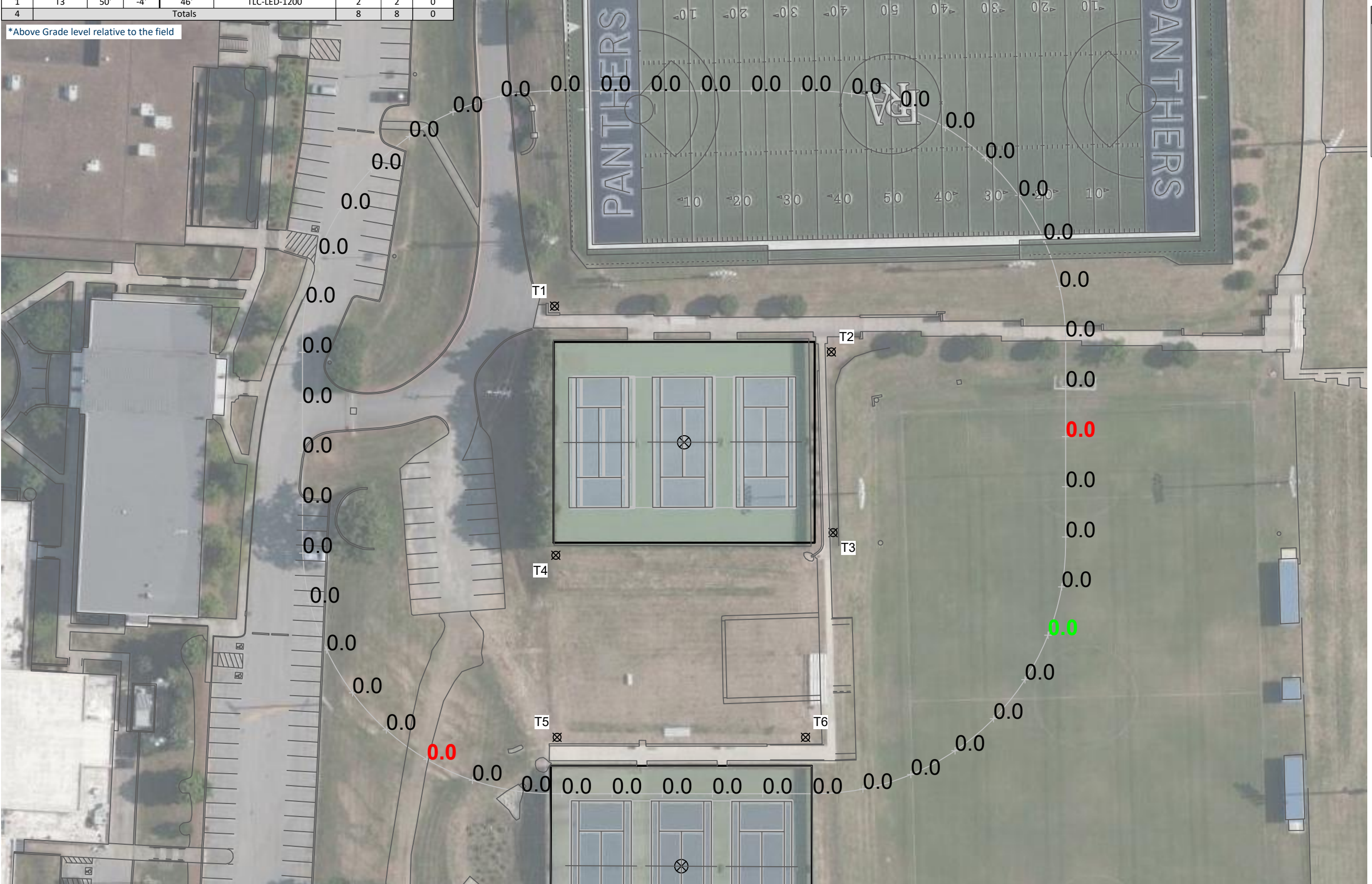


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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	T1	50'	-3'	47'	TLC-LED-1200	2	2	0
2	T2 T4	50'	-	50'	TLC-LED-1200	2	2	0
1	T3	50'	-4'	46'	TLC-LED-1200	2	2	0
4	Totals					8	8	0

*Above Grade level relative to the field



Franklin Road Academy Tennis

Grid Summary	
Name	Tennis 1 Spill
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Scan Average	0.0034
Maximum	0.02
Minimum	0.00
CU	0.00
No. of Points	50
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	8
Total Load	9.36 kW

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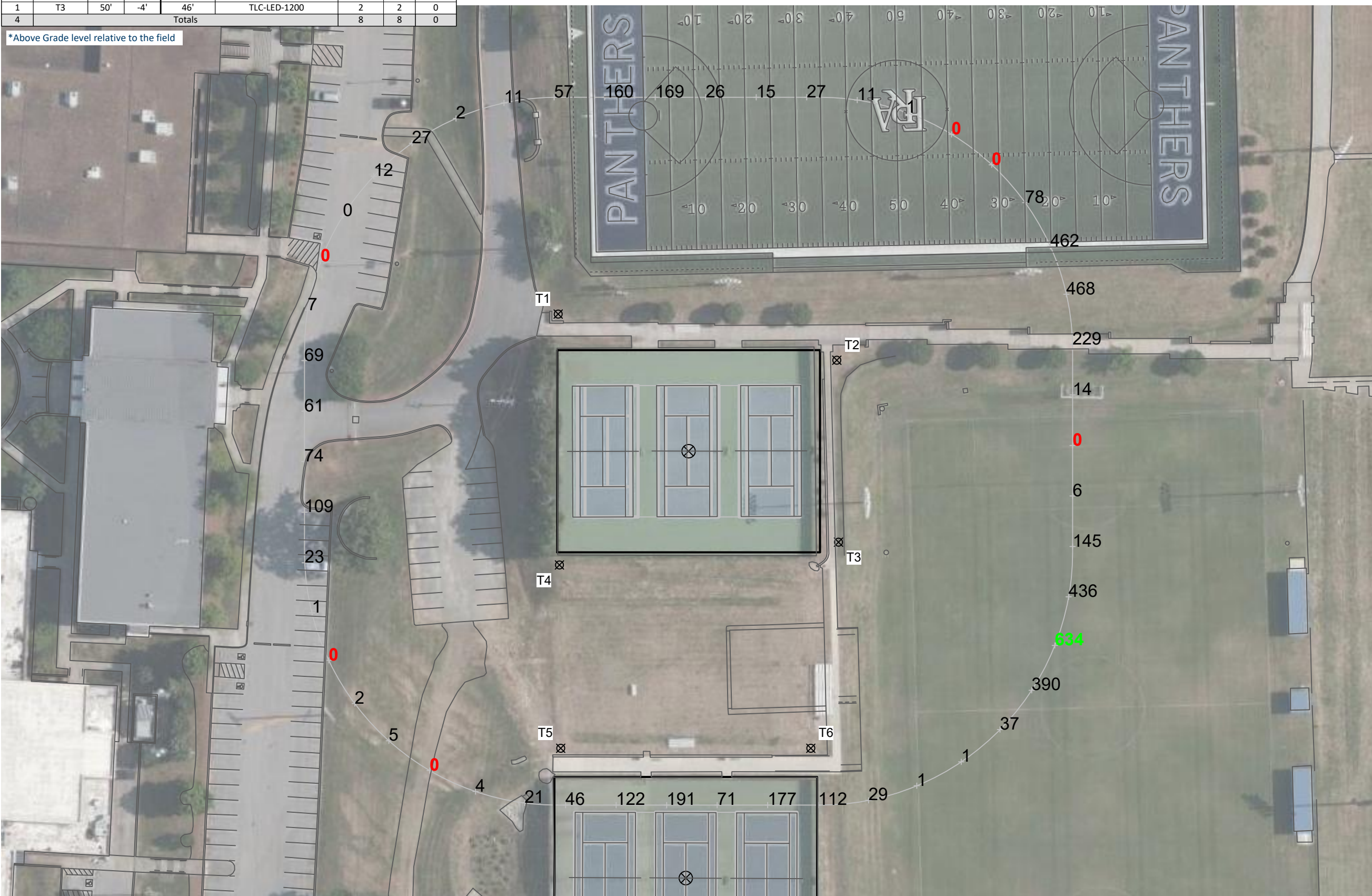


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Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	T1	50'	-3'	47'	TLC-LED-1200	2	2	0
2	T2 T4	50'	-	50'	TLC-LED-1200	2	2	0
1	T3	50'	-4'	46'	TLC-LED-1200	2	2	0
4				Totals		8	8	0

*Above Grade level relative to the field



Franklin Road Academy Tennis

Nashville, TN

Grid Summary	
Name	Tennis 1 Spill - Candela
Spacing	30.0' x 30.0'
Height	5.0' above grade

Illumination Summary	
MAINTAINED CANDELA (PER FIXTURE)	
Scan Average	90.8775
Maximum	633.63
Minimum	0.00
CU	0.00
No. of Points	50
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	8
Total Load	9.36 kW

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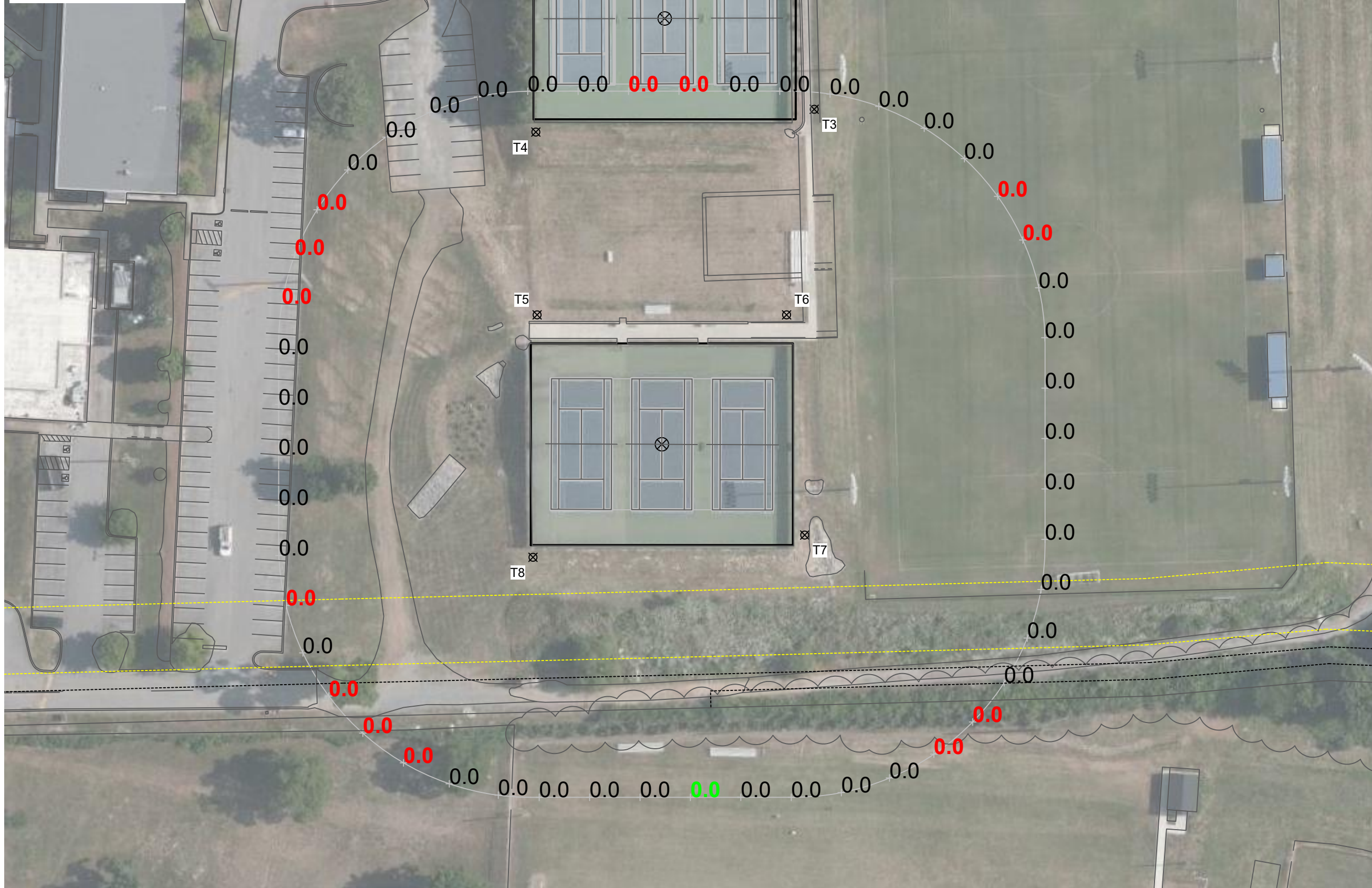


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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
4	T5-T8	50'	-	50'	TLC-LED-1200	2	2	0
4	Totals					8	8	0

*Above Grade level relative to the field



Franklin Road Academy Tennis

Nashville, TN

Grid Summary	
Name	Tennis 2 Spill
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Scan Average	0.0003
Maximum	0.00
Minimum	0.00
CU	0.00
No. of Points	50
LUMINAIRE INFORMATION	
Applied Circuits	B
No. of Luminaires	8
Total Load	9.36 kW

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SCALE IN FEET 1 : 60
 0' 60' 120'
 ENGINEERED DESIGN By: E.Gray • File #177993Cr2 • 01-Mar-24

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

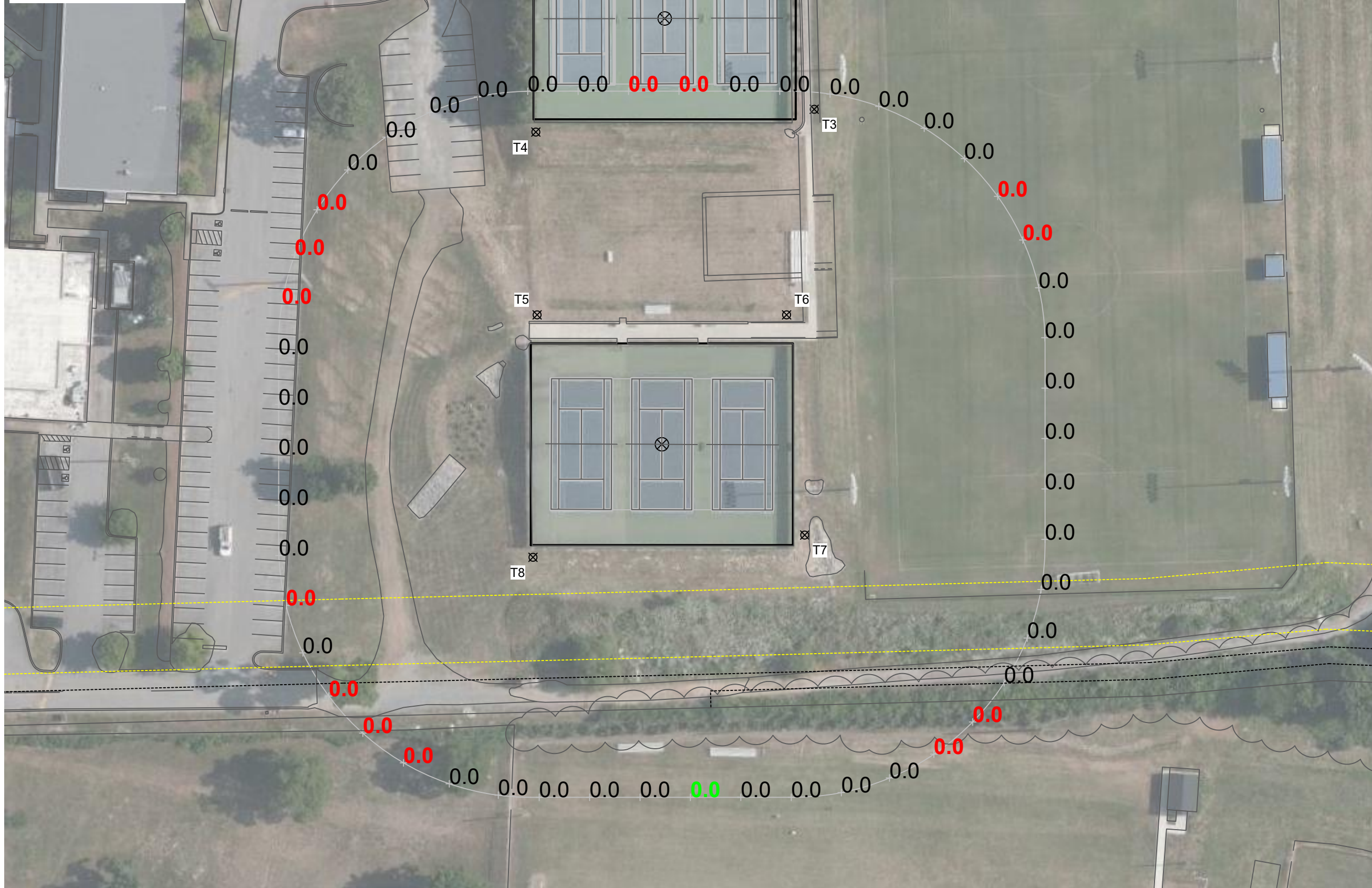


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Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
4	T5-T8	50'	-	50'	TLC-LED-1200	2	2	0
4	Totals					8	8	0

*Above Grade level relative to the field



Franklin Road Academy Tennis

Nashville, TN

Grid Summary	
Name	Tennis 2 Spill
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	0.0013
Scan Average	0.0013
Maximum	0.01
Minimum	0.00
CU	0.00
No. of Points	50
LUMINAIRE INFORMATION	
Applied Circuits	B
No. of Luminaires	8
Total Load	9.36 kW

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 0' 60' 120'
 ENGINEERED DESIGN By: E.Gray • File #177993Cr2 • 01-Mar-24

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

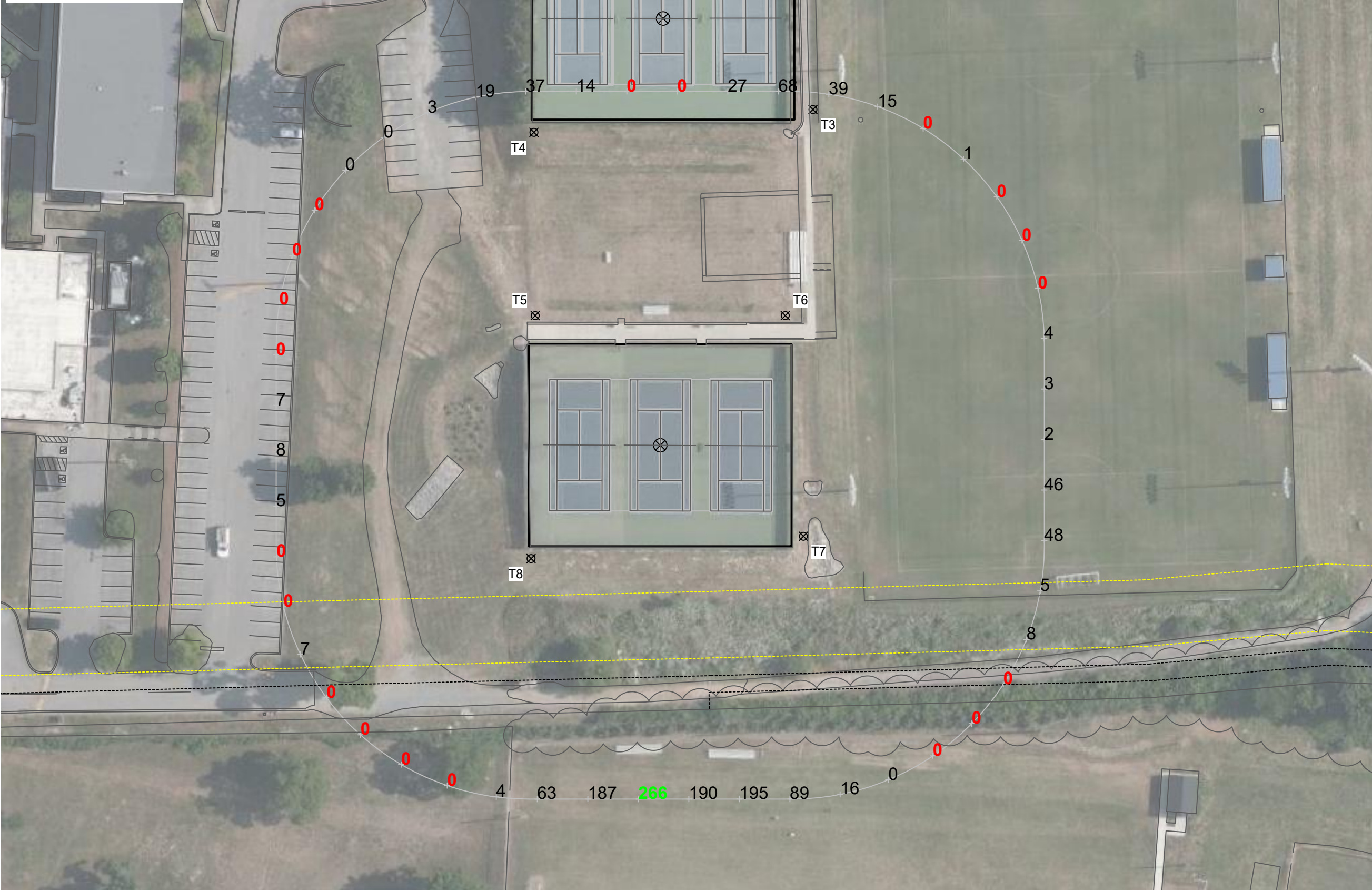


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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
4	T5-T8	50'	-	50'	TLC-LED-1200	2	2	0
4				Totals	8			8
								0

*Above Grade level relative to the field



Franklin Road Academy Tennis

Nashville, TN

Grid Summary	
Name	Tennis 2 Spill - Candela
Spacing	30.0' x 30.0'
Height	5.0' above grade

Illumination Summary	
MAINTAINED CANDELA (PER FIXTURE)	
Entire Grid	27.5506
Scan Average	27.5506
Maximum	265.55
Minimum	0.00
CU	0.00
No. of Points	50
LUMINAIRE INFORMATION	
Applied Circuits	B
No. of Luminaires	8
Total Load	9.36 kW

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SCALE IN FEET 1 : 60
 0' 60' 120'
 ENGINEERED DESIGN By: E.Gray • File #177993Cr2 • 01-Mar-24

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



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Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	T1	50'	-3'	47'	TLC-LED-1200	2	2	0
6	T2 T4-T8	50'	-	50'	TLC-LED-1200	2	2	0
1	T3	50'	-4'	46'	TLC-LED-1200	2	2	0
8				Totals			16	16

*Above Grade level relative to the field



Franklin Road Academy Tennis

Nashville, TN

Grid Summary	
Name	Property Spill
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Scan Average	0.0138
Maximum	0.11
Minimum	0.00
CU	0.00
No. of Points	29
LUMINAIRE INFORMATION	
Applied Circuits	A,B
No. of Luminaires	16
Total Load	18.72 kW

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SCALE IN FEET 1 : 80
 0' 80' 160'
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Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	T1	50'	-3'	47'	TLC-LED-1200	2	2	0
6	T2 T4-T8	50'	-	50'	TLC-LED-1200	2	2	0
1	T3	50'	-4'	46'	TLC-LED-1200	2	2	0
8				Totals			16	16

*Above Grade level relative to the field



Franklin Road Academy Tennis

Nashville, TN

Grid Summary	
Name	Property Spill
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Scan Average	0.0318
Maximum	0.24
Minimum	0.00
CU	0.00
No. of Points	29
LUMINAIRE INFORMATION	
Applied Circuits	A,B
No. of Luminaires	16
Total Load	18.72 kW

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Franklin Road Academy Tennis

Nashville, TN

Equipment Layout

INCLUDES:

- Tennis 1
- Tennis 2

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

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Equipment List For Areas Shown

QTY	LOCATION	Pole		Luminaires		
		SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE
1	T1	50'	-3'	47'	TLC-LED-1200	2
6	T2 T4-T8	50'	-	50'	TLC-LED-1200	2
1	T3	50'	-4'	46'	TLC-LED-1200	2
8	Totals					16

Single Luminaire Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0



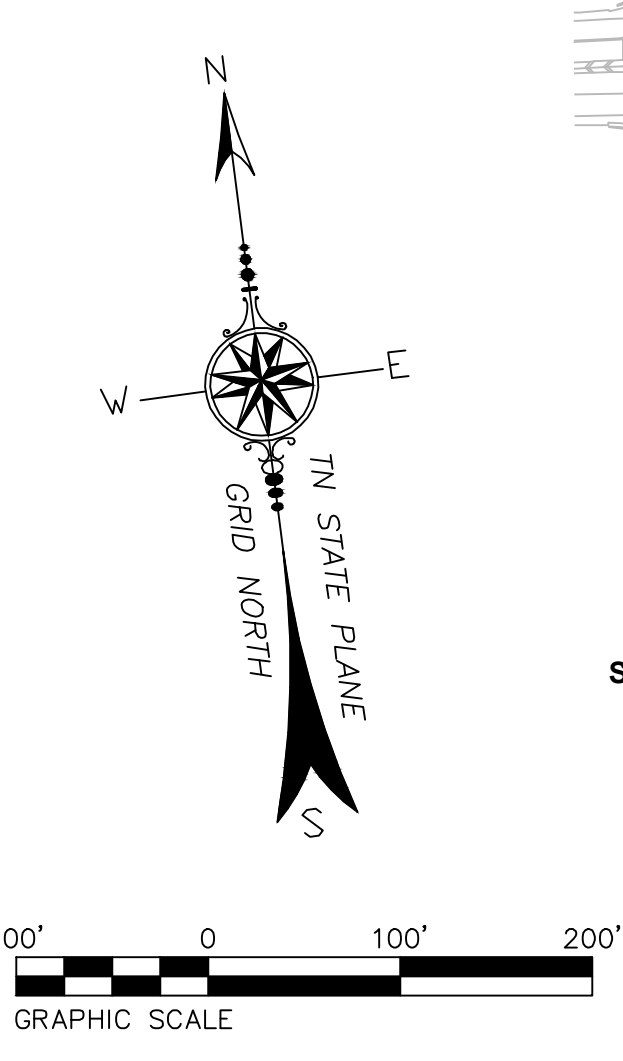
SCALE IN FEET 1 : 60
 0' 60' 120'
 ENGINEERED DESIGN By: E.Gray • File #177993Cr2 • 01-Mar-24

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



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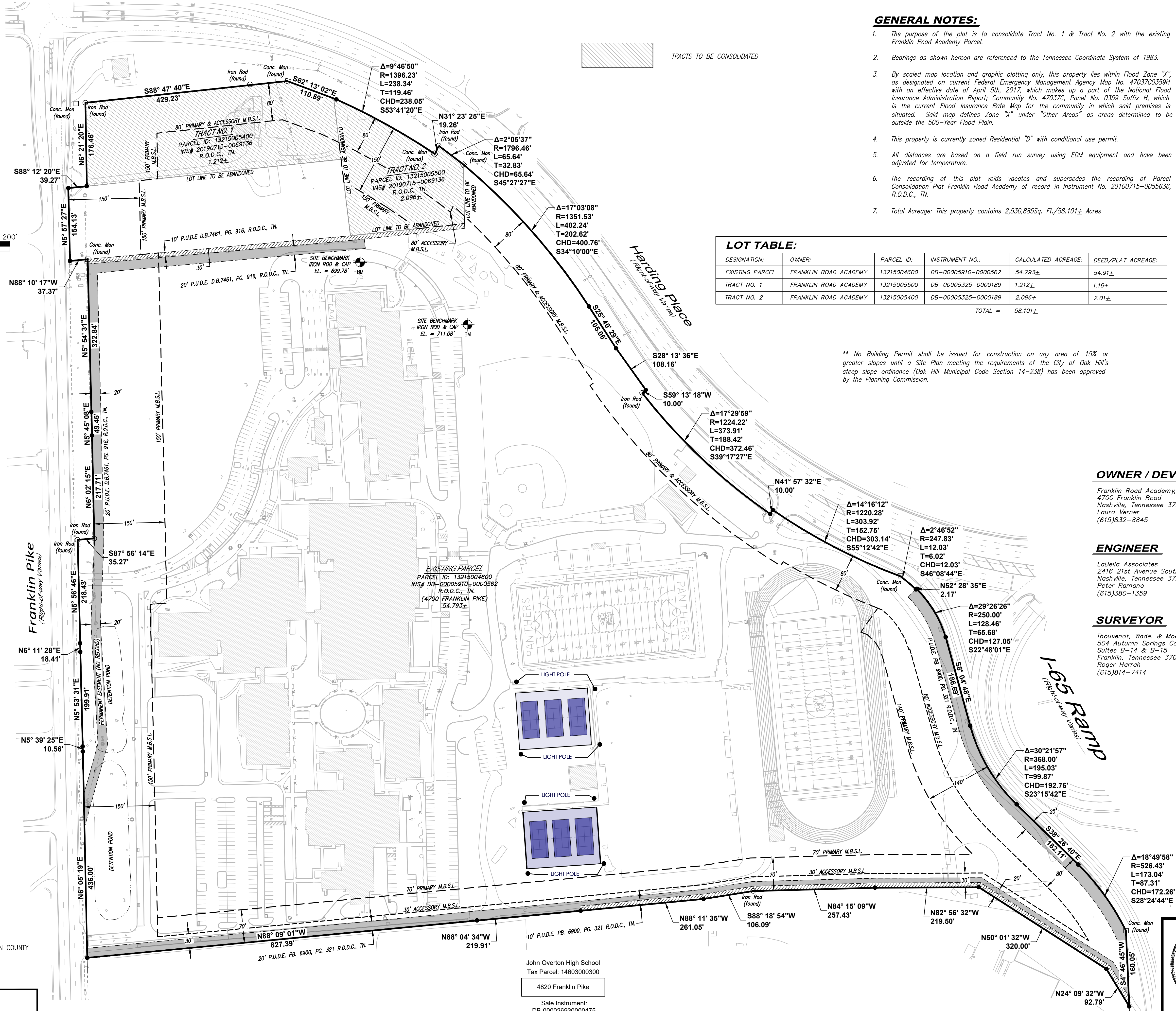
GPS SURVEY NOTES

The Grid Coordinates of the Fixed Station(s) shown were obtained utilizing RTK GPS observations on 03/17/2022 and were derived using the TDDT GNSS Reference Network and are referenced to the Tennessee State Plane Coordinate System of 1983, NAD 83 (2011) (Epoch 2010), Geoid 12B.

Horizontal and Vertical Standard Deviations of the RTK GPS vectors do not exceed:
 H 0.08', V 0.12' at 1-sigma.

GPS Control Point #300
 Northing: 637815.215
 Easting: 1741077.701
 Elevation: 711.80
 Combined Scale Factor: 1.0000717788

- LEGEND**
- IRON PIN (SET) WITH CAP
 - STAMPED "TWM INC"
 - PROPERTY CORNER FOUND AS NOTED
 - WATER METER
 - WATER VALVE
 - FIRE HYDRANT
 - SANITARY SEWER CLEANOUT
 - MANHOLE
 - SANITARY SEWER LIFT STATION
 - STORM DRAINAGE CURB INLET
 - STORM DRAINAGE CATCH BASIN
 - STORM SEWER MANHOLE
 - UTILITY POLE
 - LIGHT POLE
 - ELECTRIC MANHOLE
 - ELECTRIC PANEL
 - COMMUNICATIONS MANHOLE
 - COMMUNICATIONS RISER
 - OHE— OVERHEAD UTILITIES
 - G— GAS LINE
 - W— WATER LINE
 - SAN— SANITARY SEWER LINE
 - STM— STORM SEWER LINE
 - R.O.D.C.— REGISTER'S OFFICE FOR DAVIDSON COUNTY
 - EASEMENT LINE



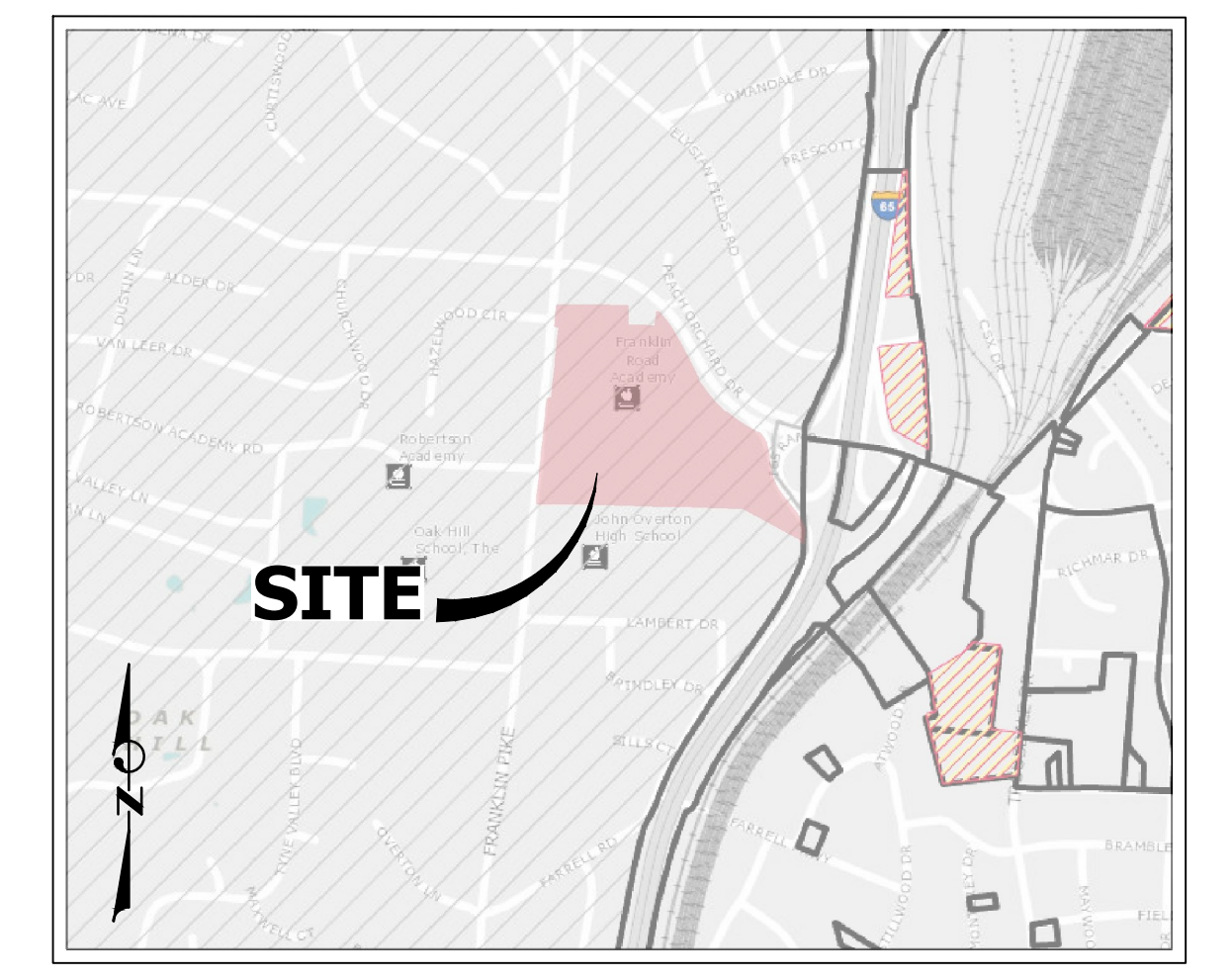
LOT TABLE:

DESIGNATION:	OWNER:	PARCEL ID:	INSTRUMENT NO.:	CALCULATED ACREAGE:	DEED/PLAT ACREAGE:
EXISTING PARCEL	FRANKLIN ROAD ACADEMY	13215004600	DB-00005910-0000562	54.793±	54.91±
TRACT NO. 1	FRANKLIN ROAD ACADEMY	13215005500	DB-00005325-0000189	1.212±	1.16±
TRACT NO. 2	FRANKLIN ROAD ACADEMY	13215005400	DB-00005325-0000189	2.096±	2.01±
				TOTAL =	58.101±

** No Building Permit shall be issued for construction on any area of 15% or greater slopes until a Site Plan meeting the requirements of the City of Oak Hill's steep slope ordinance (Oak Hill Municipal Code Section 14-238) has been approved by the Planning Commission.

GENERAL NOTES:

- The purpose of the plat is to consolidate Tract No. 1 & Tract No. 2 with the existing Franklin Road Academy Parcel.
- Bearings as shown hereon are referenced to the Tennessee Coordinate System of 1983.
- By scaled map location and graphic plotting only, this property lies within Flood Zone "X", as designated on current Federal Emergency Management Agency Map No. 47037C0359H with an effective date of April 5th, 2017, which makes up a part of the National Flood Insurance Administration Report; Community No. 47037C, Panel No. 0359 Suffix H, which is the current Flood Insurance Rate Map for the community in which said premises is situated. Said map defines Zone "X" under "Other Areas" as areas determined to be outside the 500-Year Flood Plain.
- This property is currently zoned Residential "D" with conditional use permit.
- All distances are based on a field run survey using EDM equipment and have been adjusted for temperature.
- The recording of this plat voids vacates and supersedes the recording of Parcel Consolidation Plat Franklin Road Academy of record in Instrument No. 20100715-0055636, R.O.D.C., TN.
- Total Acreage: This property contains 2,530,885 Sq. Ft./58.101± Acres



VICINITY MAP
N.T.S.

DEED REFERENCE

Being the same property conveyed to Meredith Caldwell as recorded in Sale Instrument DB-0002694 0002231; and First Christian Church of Nashville, Inc. as recorded in Sale Instrument DB-00005249 0000580 in the Register's Office for Davidson County, Tennessee; First Christian Church of Nashville, Inc. as recorded in Sale Instrument DB-00005331 0000693; Franklin Road Academy, Inc. as recorded in Sale Instrument DB-00005910 0000562 in the Register's Office for Davidson County Tennessee.

PLAT REFERENCE

Lots 1, 2, 3, 4, & 5, of the Franklin Road Acad & 1st Christian Church as recorded in Plat Book 6900, Page 321 in the Register's Office for Davidson County, Tennessee; Lots 7, 8, & 9, Parcel Consolidation Plat Franklin Road Academy as recorded in Instrument No. PL-20100715 0055636 in the Register's Office for Davidson County, Tennessee

OWNER / DEVELOPER

Franklin Road Academy, Inc.
 4700 Franklin Road
 Nashville, Tennessee 37220
 Laura Verner
 (615)832-8845

ENGINEER

LaBella Associates
 2416 21st Avenue South
 Nashville, Tennessee 37212
 Peter Romano
 (615)380-1359

SURVEYOR

Thouvenot, Wade & Moerchen, Inc.
 504 Autumn Springs Court
 Suites B-14 & B-15
 Franklin, Tennessee 37067
 Roger Harrah
 (615)814-7414

CERTIFICATE OF APPROVAL FOR RECORDING

I hereby certify that the subdivision plat shown hereon has been found to comply with the subdivision regulations of the City of Oak Hill, Davidson County, Tennessee

By: _____ Date: _____
 Oak Hill Planning Commission

CERTIFICATE OF OWNERSHIP

I (We) hereby certify that I am (we are) the owner(s) of the property shown hereon as evidenced in Book 5910, Page 562, R.O.D.C., Tennessee and adopt the plan of subdivision of the property as shown hereon and dedicate all public ways and easements as noted. No lot or lots as shown hereon shall again be subdivided, re-subdivided, altered, or changed so as to produce less area than hereby established until otherwise approved by the City of Oak Hill Planning Commission and under no condition shall such lot or lots be made to produce less area than prescribed by the restrictive covenants as on record in Book _____, Page _____, R.O.D.C., Tennessee, running with the title to the property.

Owner Name: _____
 Title: _____ Date: _____

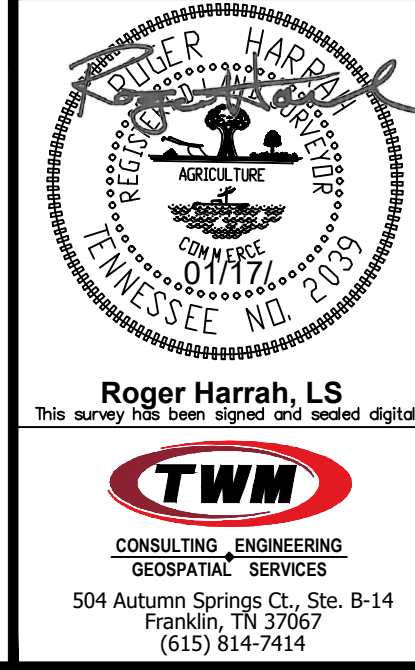
SURVEYOR'S CERTIFICATE

We hereby certify to the best of our knowledge, information and belief and in our professional opinion that the hereon shown subdivision plat represents a true and correct survey having an unadjusted ratio of precision of 1:15,000 or greater, and is true and correct. Approved monuments have been placed as indicated. All side lot lines are at right angles or radial to a street unless otherwise noted.

By: *Roger Harrah* Date: 01/17/23
 Tenn. Registered Surveyor No.: 2039

RECORD

RECORDED _____
 IN BOOK _____ PAGE _____
 OF THE REGISTER'S OFFICE OF DAVIDSON COUNTY, TENNESSEE.



PARCEL CONSOLIDATION PLAT

FRANKLIN ROAD ACADEMY
 4700 FRANKLIN PIKE

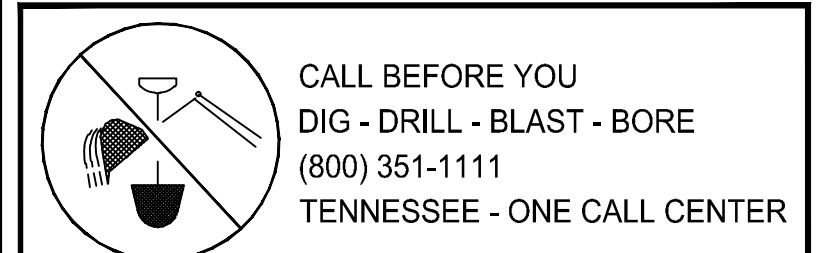
CITY OF OAK HILL
 DAVIDSON COUNTY, TENNESSEE

ACRES OF NEW STREETS: N/A FEET OF NEW STREETS: N/A

PREPARED FOR: _____ PROJECT #: 220331

DATE: December 12, 2022

SCALE: 1" = 100' SHEET 1 of 1



The Location of existing underground utilities are shown at approximate locations only and are based upon the field location of visible utility apparatus and information provided by utility companies.

John Overton High School
 Tax Parcel: 14603000300
 4820 Franklin Pike
 Sale Instrument:
 DB-00026930000475
 R.O.M.C.

2/22/2024 7:00:58 PM \\odchomson\int\share\proj\2024\240124 Franklin Road Academy Sports Field Lighting\CADD\Central Models\240124_FRA_SPORTS_FIELD_LIGHTING_MEP21_CENTRAL_detached.rvt



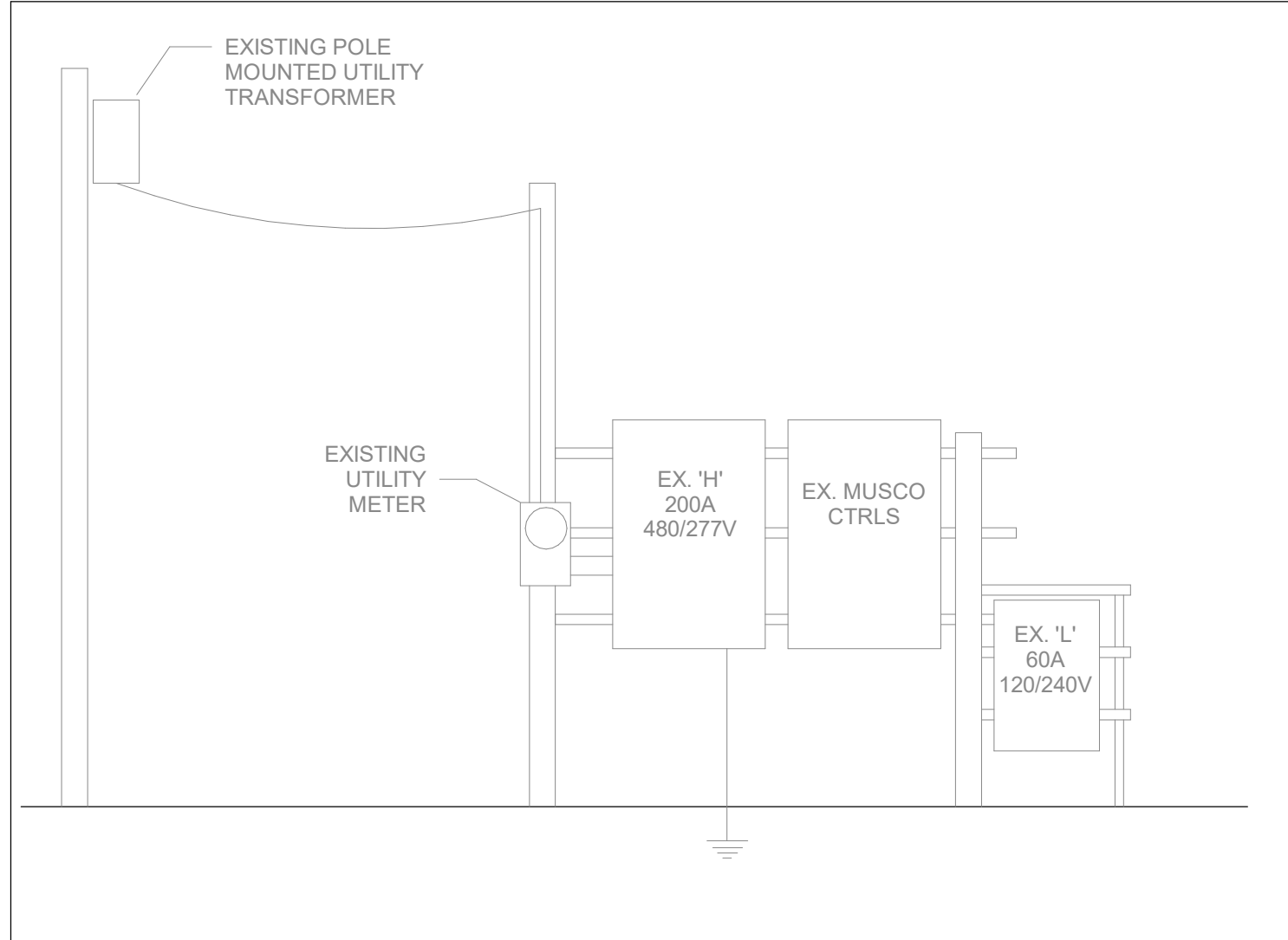
ELECTRICAL RISER

GENERAL NOTES

- A. FIELD LIGHTING AND CONTROLS BY OTHERS. CONTRACTOR SHALL COORDINATE INSTALLATION REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN.

KEYNOTES

- 1. APPROXIMATE LOCATION OF EXISTING PANELS SERVING THE FOOTBALL FIELD. REFER TO RISER DIAGRAM ON THIS SHEET FOR ADDITIONAL DETAILS. EXISTING UNISTRUT SHALL BE EXPANDED TO SUPPORT NEW LIGHTING CONTROL EQUIPMENT. CONTRACTOR SHALL COORDINATE INSTALLATION REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN.
- 2. PROVIDE CONNECTION TO TENNIS LIGHTING CIRCUIT T-1: USE 3#12, #12G, 1" C.
- 3. PROVIDE CONNECTION TO TENNIS LIGHTING CIRCUIT T-2: USE 3#10, #10G, 1" C.
- 4. FIELD LIGHTING AND CONTROLS REQUIREMENTS AT EACH POLE BY OTHERS. CONTRACTOR SHALL COORDINATE INSTALLATION REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN.



PARTIAL ELECTRICAL RISER DIAGRAM 2
 N.T.S.

Panel: H
 Location: Football Field
 Supply From: NES Pole Xlmr
 Mounting: Surface
 Enclosure: Type 3R

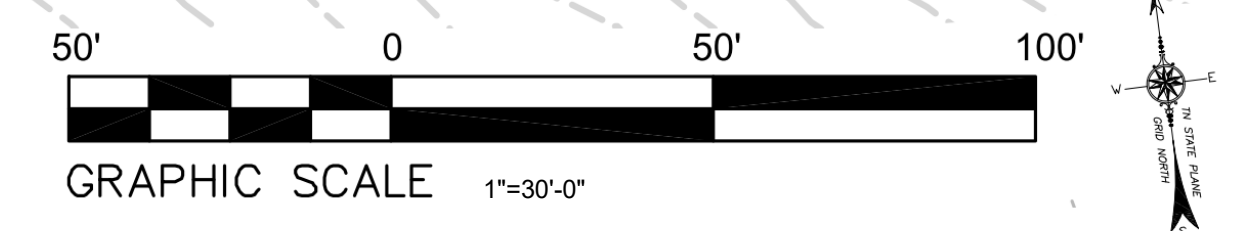
Volts: 480/277 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating: [MATCH M.C.B. AIC RATING]
 Mains Type: M.C.B.
 Mains Rating: 200 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	T-1	Lighting	20 A	3	3.12 kVA	3.12 kVA		0.00 kVA			2	60 A		F-1	2
3															4
5							3.12 kVA							F-2	6
7	T-2	Lighting	20 A	3	3.12 kVA			0.00 kVA		0.00 kVA					8
9							3.12 kVA							F-3	10
11								3.12 kVA							12
13	USABLE SPACE			1				0.00 kVA			2	60 A		F-4	14
15	USABLE SPACE			1						0.00 kVA					16
17	USABLE SPACE			1							1			USABLE SPACE	18
19	USABLE SPACE			1							1			USABLE SPACE	20
21	USABLE SPACE			1							1			USABLE SPACE	22
23	USABLE SPACE			1							1			USABLE SPACE	24
25	USABLE SPACE			1							1			USABLE SPACE	26
27	USABLE SPACE			1							1			USABLE SPACE	28
29	USABLE SPACE			1							1			USABLE SPACE	30
31	USABLE SPACE			1							1			USABLE SPACE	32
33	USABLE SPACE			1							1			USABLE SPACE	34
35	USABLE SPACE			1							1			USABLE SPACE	36
37	USABLE SPACE			1							1			USABLE SPACE	38
39	USABLE SPACE			1							1			USABLE SPACE	40
41	USABLE SPACE			1							1			USABLE SPACE	42

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Existing Load	68000 VA	125.00%	85000 VA	Total Conn. Load: 86.72 kVA
Lighting	18720 VA	100.00%	18720 VA	Total Est. Demand: 103.72 kVA
				Total Est. Design: 103.72 kVA
				Total Conn. Current: 104 A
				Total Est. Demand Current: 125 A
				Total Est. Design Current: 125 A

Notes:
 (02/2024) PEAK METERED LOAD = 68kVA | 68kVA x 125% = 85kVA OF EXISTING LOAD (FOOTBALL FIELD LIGHTING)



ELECTRICAL SITE PLAN 1

FRANKLIN ROAD ACADEMY
 SPORTS FIELD LIGHTING (TENNIS)
 4700 FRANKLIN ROAD, NASHVILLE, TN 37220

CONSTRUCTION DOCUMENTS
 28 FEBRUARY 2024

240124



ELECTRICAL - SITE PLAN

E100