

MEMO

TO: Dr. Jesse Bacon, Superintendent

FROM: Thomas Stokes, Director of Facilities *TAS*

DATE: November 14, 2025

RE: NBHS - BG 24-192 - Change Order 25 - Tennis Court Lighting

BCPS Leadership requested the addition of Tennis Court Lighting at all three high schools. Work in this Change Order includes cost of installation by Calhoun Construction and their subcontractors. Purchase of the lighting would be via a Sourcwell COOP agreement with Musco Lighting. A breakout of costs is below:

•	\$302,604.00	GC COR #42 Cost
•	\$86,500.00	Bullitt Central Musco Lights via Sourcwell Quote
•	\$86,500.00	Bullitt East Musco Lights via Sourcwell Quote
•	\$93,500	North Bullitt Musco Lights via Sourcwell Quote
	\$569,104	Total Cost

I recommend approval of this request.

Attached paperwork is listed below with [action items](#) noted for each:

- *G701-2017 - Change Order 25 - Tennis Court Lighting - [for Board Signature](#)*
- *BP-2 - FACPAC - Change Order 25 - Tennis Court Lighting - [for Board Signature](#)*
 - *COR-42 RFP-14 MUSCO Lights at Tennis - [No action – for Board Reference](#)*
 - *Musco - BCPS - Tennis Court Projects Sourcwell Quote – [COOP Proposal – For Board Review and Approval](#)*

OUR MISSION IS TO INSPIRE AND EQUIP OUR STUDENTS TO SUCCEED IN LIFE

BULLITT COUNTY PUBLIC SCHOOLS IS AN EQUAL EDUCATION AND EMPLOYMENT INSTITUTION



AIA® Document G701® – 2017

Change Order

PROJECT: (Name and address)

Phase II Athletics - Bid Package No. 2 -
NB Field House
Bullitt County Public Schools

CONTRACT INFORMATION:

Contract For: Phase II Athletics - Bid
Package No. 2 - NB Field House
Date: 09-09-2024

CHANGE ORDER INFORMATION:

Change Order Number: 025
Date: 11-24-2025

OWNER: (Name and address)

Bullitt County Public Schools Board of
Education
1040 Hwy 44 East
Shepherdsville, KY 40165

ARCHITECT: (Name and address)

Studio Kremer Architects
1231 S Shelby St.
Louisville, KY 40203

CONTRACTOR: (Name and address)

Calhoun Construction Services, Inc.
7707 National Turnpike
Louisville, KY 40218

THE CONTRACT IS CHANGED AS FOLLOWS:

(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

See COR 42 and RFP 14 for the Scope of Work included in this Change Order.

The original Contract Sum was

\$ 16,249,774.40

The net change by previously authorized Change Orders

\$ (968,467.00)

The Contract Sum prior to this Change Order was

\$ 15,281,307.40

The Contract Sum will be increased by this Change Order in the amount of

\$ 302,604.00

The new Contract Sum including this Change Order will be

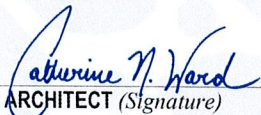
\$ 15,583,911.40

The Contract Time will be unchanged by (0) days.

The new date of Substantial Completion will be

NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.


ARCHITECT (Signature)

BY: Catherine Noble Ward, AIA
(Printed name, title, and license
number if required)

11-13-2025

Date


CONTRACTOR (Signature)

BY: Joel Pittard, Project Manager
(Printed name and title)

11/12/2025

Date

OWNER (Signature)

BY: Dr. Jesse Bacon, Superintendent
(Printed name and title)

Date

Date: October 31, 2025,
 Expiration date: December 5, 2025,
 To: Thomas Stokes, Director of Facilities, Bullitt County Public Schools

Project: Bullitt County Public Schools Tennis Courts
 Shepherdsville & Mount Washington, Kentucky
 Musco Project Number: 246420, 246421, 246422

Sourcewell

Master Project: 199030, Contract Number: 041123-MSL, Expiration: 06/16/2027
 Category: Sports lighting with related supplies and services

All purchase orders should note the following:
 Sourcewell Purchase – Contract Number: 041123-MSL
 Sourcewell Member Number: 118105

Quotation Price – Materials Only Delivered to Job Site

Lighting

Bullitt Central High School – (4) Courts 12' Spacing	\$ 86,500.00
Bullitt East High School – (4) Courts 12' Spacing	\$ 86,500.00
Bullitt North High School – (4) Courts 24' Spacing	\$ 93,500.00

Sales tax, bonding, labor, installation, and unloading of the equipment are not included.

Quote is confidential. Pricing and lead times are effective for 30 days only. Prices are subject to change if the order is not released within 60 days from the date of the purchase.

Light-Structure System™ with Total Light Control – TLC for LED™ technology – Bullitt Central Tennis

Guaranteed Lighting Performance

- Guaranteed light levels of 50fc and uniformity of 2.0:1 to meet KHSAA Standards

System Description

- (12) Factory aimed and assembled luminaires
- (4) 60' Galvanized steel poles
- (4) Pre-cast concrete bases with integrated lightning grounding
- Pole length factory assembled wire harnesses
- Factory wired and tested remote electrical component enclosures
- Disconnects
- UL listed assemblies

Light-Structure System™ with Total Light Control – TLC for LED™ technology – Bullitt East Tennis

Guaranteed Lighting Performance

- Guaranteed light levels of 50fc and uniformity of 2.0:1 to meet KHSAA Standards.

System Description

- (12) Factory aimed and assembled luminaires
- (4) 60' Galvanized steel poles
- (4) Pre-cast concrete bases with integrated lightning grounding
- Pole length factory assembled wire harnesses
- Factory wired and tested remote electrical component enclosures
- Disconnects
- UL listed assemblies

Light-Structure System™ with Total Light Control – TLC for LED™ technology – Bullitt North Tennis

Guaranteed Lighting Performance

- Guaranteed light levels of 50fc and uniformity of 2.0:1 to meet KHSAA Standards.

System Description

- (12) Factory aimed and assembled luminaires
- (4) 70' Galvanized steel poles
- (4) Pre-cast concrete bases with integrated lightning grounding
- Pole length factory assembled wire harnesses
- Factory wired and tested remote electrical component enclosures
- Disconnects
- UL listed assemblies

Environmental Light Control

- Spill light minimized at 150' from courts to 0.0 horizontal and vertical average footcandles
- Off-site glare light minimized at 150' from courts to <500 candela average

Control Systems and Services

- Control-Link® control and monitoring system to provide remote on/off and dimming (high/medium/low) control and performance monitoring with 24/7 customer support

Operation and Warranty Services

- Product assurance and warranty program that covers materials and onsite labor, eliminating 100% of your maintenance costs for 25 years
- Support from Musco's Lighting Services Team – over 200 Team members dedicated to operating and maintaining your lighting system – plus a network of 1800+ contractors

Payment Terms

Final payment terms are subject to approval by Musco credit department. Final payment shall not be withheld by Buyer on account of delays beyond the control of Musco.

Email a copy of the Purchase Order to Musco Sports Lighting, LLC:

Musco Sports Lighting, LLC
Attn: Musco Contracts
Email: musco.contracts@musco.com

All Purchase orders should note the following:

Sourcewell Purchase – Contract Number: 041123-MSL

Sourcewell Member Number: 118105

Delivery Timing

8 - 10 weeks for delivery of materials to the job site from the time of order, submittal approval, and confirmation of order details including voltage, phase, and pole/luminaire locations.

Notes

Quote is based on following conditions:

- Shipment of entire project together to one location.
- Voltage and phase system requirements to be confirmed.
- Structural code and wind speed = 2015 IBC, 115 mi/h, Exposure C, Importance Factor 1.0.
- Due to the built-in custom light control per luminaire, pole or luminaire locations need to be confirmed prior to production. Changes to pole or luminaire locations after the product is sent to production could result in additional charges.
- **Standard soil conditions – rock, bottomless, wet, or unsuitable soil may require additional engineering, special installation methods and additional cost.**

Thank you for considering Musco for your lighting needs. Please contact me with any questions or if you need additional details.

Frank Heys
Sales Representative
Musco Sports Lighting, LLC
211 2nd Avenue West – PO Box 808
Oskaloosa, IA 52577, USA
Phone: 641-660-6377
E-mail: frank.heids@musco.com

FACPAC Contract Change Order

Supplemental Information Form (Ref# 63701)

Form Status: Saved

Tier 1 Project: Phase 2 Athletics and Fieldhouses

BG Number: 24-192

District: Bullitt County (HB678) (071)

Status: Active

Phase: Project Initiation (View Checklist)

Contract: Calhoun Construction Services, 0002, General Construction - North Bullitt Field House

Type: General Contractor

Proposed

Change Order Number 25
 Time Extension Required No
 Date Of Change Order 11/24/2025
 Change Order Amount To Date

Construction Contingency

Calculations below are project wide. Remaining negative Construction Contingency may require the submission of a revised BG1.

Current Approved Amount	\$2,907,023.76
Net Approved COs	\$669,110.08
Remaining After Approved COs	\$2,237,913.68
Net All COs	\$1,199,354.18
Remaining After All COs	\$1,707,669.58

This Requested Change Order Amount \$302,604.00

+/-

Change In A/E Fee This Change Order \$14,015.20

+/-

Change In CM Fee This Change Order \$0.00

+/-

Remaining Construction Contingency \$1,707,669.58

Balance

Contract Change Requested By BCPS Leadership

Contract Change Reason Code Expansion of Scope

Change Order Description And Justification

BCPS Leadership requested the addition of Tennis Court Lighting at all three high schools. Work in this Change Order includes cost of installation by Calhoun Construction and their subcontractors. Purchase of the lighting would be via a Sourcewell COOP agreement with Musco Lighting. A breakout of costs is below:

- \$302,604.00 GC COR #42 Cost

• \$86,500.00	Bullitt Central Musco Lights via Sourcewell Quote
• \$86,500.00	Bullitt East Musco Lights via Sourcewell Quote
• \$93,500	North Bullitt Musco Lights via Sourcewell Quote
\$569,104	Total Cost

Cost Benefit To Owner

Contract unit prices have been utilized No
to support the cost associated with this
change order.

Detailed Cost Breakdown

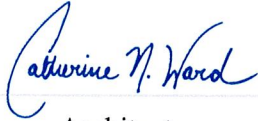
Contract unit prices have not been utilized, provide a detailed cost breakdown which
separates labor, material, profit and overhead.

Detail Item	Amount	Percent of Total
Labor	\$220,822.10	72.97%
Materials	\$42,048.91	13.90%
Profit and Overhead	\$36,736.99	12.14%
Bond Insurance	\$2,996.00	0.99%
Cost Breakdown Total:	\$302,604.00	

Cost for this Change Order supported No
by an alternate bid or competitive price
quote

Explain Why

Change Order Supplemental Information Form Signature Page (Online Form Ref# 63701)



Architect

11-13-2025

Date

N/A

Construction Manager

Date



Finance Officer

11-14-25

Date

Local Board of Education Designee

Date

Change Order Request 42 - PCO #77 - RFP-14 Tennis Court MUSCO Lights (ballfields)

752-- BCPS Phase II Athletics North Bullitt Field House

11/10/2025



Summary of work

RFP-14 Tennis Court MUSCO Lights (ballfields)-pending RFP

Scope - Subcontractor	Description	Cost
		\$278,705.00
o Project Engineer ==>	Project Management (1) for 7 weeks @ \$53/hr ==>	\$14,840.00
o Superintendent ==>	GC Supervision (1) Man for 7 weeks @ \$105/hr ==>	\$29,400.00
o Sanitary Facilities ==>	==>	\$1,680.00
o Construction Waste Management & Disposal ==>	==>	\$1,208.00
o CCS Concrete ==>	RFP-14 Tennis MUSCO Lights ==>	\$2,980.00
o Electrical - KES ==>	RFP-14 NB Tennis MUSCO Lights ==>	\$226,954.00
o Landscaping ==>	Seed/Straw disturbed areas ==>	\$1,530.00
o Calhoun Unit Price ==>		\$113.00
		Sub Total: \$278,705.00
		Bond: \$2,996.00
		Fee: \$20,903.00
		Total \$302,604.00

Approved By: _____

Date: _____

Submitted By: Calhoun _____

Date: 11/10/2025 _____

Proposal

November 10, 2025

Calhoun Construction Services
1703 S. Brook Street
Louisville, KY. 40208

Attention: Mr. Joel Pittard
Project Executive

RE: RFP 14

Mr. Pittard

We propose to provide the additional labor, materials, equipment and supervision to perform the following scope of work required for the added changes at North Bullitt High School depicted in RFP 14:

Sawcut and Demo existing sidewalk (120 SF)
Furnish and compact DGA base
Set forms and WWF
Furnish and place 4" concrete sidewalk
Cleanup

RFP 14 – NBHS

RFP 14 – NBHS.....**\$2,980.00**

Remove

Labor.....\$920.00
Material.....\$400.00

Replace

Unit Price \$87/ SY.....\$1,160.00
Short Load Fee (< 4cy):.....\$500.00

Calhoun Contracted Unit Price:
Unit Price #7 - \$95.50/SY = \$1,273
Difference = \$113.00

Clarifications:

- Work is to take place Monday Thru Friday 7:00 AM To 4:00 PM, during regular working hours.

Should you have any questions, concerns or require additional information, please feel free to contact me.

Very respectfully,

Sarah Vanderside
CCS Concrete – Project Manager
Office Phone 502-493-1332 ext. 1342
Mobile Phone 502-275-9722
Email: sarahvanderside@calhounconstructs.com



UNIT PRICES:

Indicate on the lines below those unit prices to determine any adjustment to the contract price due to changes in work or extra work performed under this contract. The unit prices shall include the furnishing of all labor and materials, cost of all items, and overhead and profit for the Contractor, as well as any subcontractor involved. These unit prices shall be listed in units of work.

A maximum of 40 unit prices will be acceptable with each bid. Do not add supplemental sheets for unit pricing to this document.

The bidder shall submit the list of unit prices 1-hour after the Bid.

	WORK (to be filled out by the Architect)	PRICE / UNIT (to be filled out by the Contractor)	UNIT
1.	Soil excavation below building foundations / Trench excavation	20.00	C.Y.
2.	Mass Soil excavation below slab on grade	32.00	C.Y.
3.	Rock excavation below building foundations / Trench excavation	250.00 - Trench 378.00 - Mass	C.Y.
4.	Engineered soil fill, compacted per specifications	23.00 4. A. FROM SITE - Engineered soil fill, compacted per specifications. B. IMPORTED - Engineered soil fill, compacted per specifications.	23.00 38.50 C.Y.
5.	Engineered crushed stone fill, consolidated and installed per specifications	46.00	C.Y.
6.	Flowable fill concrete fill, with no reinforcing	180.00	C.Y.
7.	Reinforced concrete walks and slabs, 4" thick with compacted sub-base	95.50	S.Y.
8.	Reinforced concrete walks and slabs, 6" thick with compacted sub-base	106.00	S.Y.
9.	8" HDPE Pipe, Installed,	40.00	L.F.
10.	Asphalt Paving, per inch of thickness	8.00	S.Y.
11.	Additional Excavation – General Site	32.00	C.Y.
12.	4" CMU 6" CMU 8" CMU (reinforced) 12" CMU (reinforced)	34.00 35.00 36.00 37.00	S.F. S.F. S.F. S.F.
13.	Structural Steel (weight less than 20 lbs/ft) (weight more than or equal to 20 lbs/ft)	5.00 4.50	LB. LB.
14.	4'-0" High Chain Link Fence 6'-0" High Chain Link Fence	43.00 45.50	L.F. L.F.
15.	4'-0 Wide Chain Link Gate w/ Hardware 8'-0 Wide Chain Link Gate w/ Hardware 13'-0 Wide Chain Link Gate w/ Hardware	1,187.00 1,873.00 2,000.00	EA. EA. EA.
16.	8'-0" Decorative Steel Fence	148.00	L.F.
17.	4'-0 Wide Decorative Steel Gate w/ Hardware 8'-0 Wide Decorative Steel Gate w/ Hardware 13'-0	1,557.00 3,114.00	EA. EA.

North Bullitt Fieldhouse



Change orders report generated by Keith Joseph (Kentuckiana Electrical Services)

Change Order KES-0009 - RFP-14 Tennis Courts Lights

Creator	Keith Joseph (Kentuckiana Electrical Services)	Total cost	226,953.90 USD
Assignee	Keith Joseph (Kentuckiana Electrical Services)	Reason	Owner change
Status	Pending approval	Reference number	—
Due date	—	Schedule impact?	—
Responsible company	Kentuckiana Electrical Services	Company address	—
Description	Addition of Musco Lights at North Bullitt, Bullitt Central, and Bullitt East Tennis Courts.		

Response (rev.1)

Responded by	—	Responded on	—
Notes	—		
Attachments	—		

Cost (rev.1)

Submitted by	Keith Joseph (Kentuckiana Electrical Services)	Submitted on	11/08/2025
Notes	—		
Backup documents	Quote #25RBJ-154 KES BC HS Tennis Court Sports Lighting.pdf , North Bullitt_Q-6466583-PD-001_BOM & Drawings_Total Price.pdf		

Submitter signature Date

Cost summary (USD)	
This change order	226,953.90

Approver signature Date

Cost breakdown (rev.1)

Materials

#	ITEM NAME	QUANTITY	UNIT TYPE	UNIT COST (USD)	ITEM COST (USD)
1	12x12 Quazite Box	12.0	Each	355.74	4,268.88
2	3/4" EMT	80.0	Linear feet	0.97	77.60
3	1" EMT	50.0	Linear feet	1.08	54.00
4	3/4" EMT Conn.	18.0	Each	0.26	4.68
5	1" EMT Conn.	12.0	Each	0.47	5.64
6	1" PVC SCH 40	1100.0	Linear feet	0.54	594.00
7	1" PVC 90	54.0	Each	0.85	45.90
8	1" PVC Coupling	108.0	Each	0.18	19.44
9	#12 THHN	12200.0	Linear feet	0.23	2,806.00
10	#10 THHN	1950.0	Linear feet	0.31	604.50
11	30 AMP Disconnect	4.0	Each	115.95	463.80
12	1 1/2" GRS	60.0	Linear feet	8.24	494.40
13	1 1/2" PVC SCH 40	710.0	Linear feet	0.84	596.40
14	1 1/2" PVC Coupling	56.0	Each	0.38	21.28
15	1 1/2" PVC 90	28.0	Each	1.42	39.76
16	1 1/2" Female Adapter	16.0	Each	0.65	10.40
17	#8 THHN	1000.0	Linear feet	0.67	670.00
18	#3 THHN	620.0	Linear feet	1.74	1,078.80
19	5/8" GR	15.0	Each	24.95	374.25
20	WP GFCI	3.0	Each	80.45	241.35
21	Misc. Hardware	1.0	Lump sum	400.00	400.00
22	2 KVA Xfmr	2.0	Each	574.45	1,148.90
23	Panelboards	1.0	Lump sum	7,343.93	7,343.93
24	Hoffman Enclosures	3.0	Each	6,895.00	20,685.00
MATERIALS					42,048.91

Labor

#	ITEM NAME	QUANTITY	UNIT TYPE	UNIT COST (USD)	ITEM COST (USD)
1	JW S/T	335.0	Hours	95.00	31,825.00
2	App S/T	335.0	Hours	69.00	23,115.00

#	ITEM NAME	QUANTITY	UNIT TYPE	UNIT COST (USD)	ITEM COST (USD)
				LABOR	54,940.00

Equipment

#	ITEM NAME	QUANTITY	UNIT TYPE	UNIT COST (USD)	ITEM COST (USD)
1	Lull Rental	3.0	Weeks	1,627.00	4,881.00
2	Crane Rental	6.0	Days	1,875.00	11,250.00
				EQUIPMENT	16,131.00

Subcontractor

#	ITEM NAME	QUANTITY	UNIT TYPE	UNIT COST (USD)	ITEM COST (USD)
1	Kentuckiana Excavation Services	1.0	Lump sum	98,000.00	98,000.00
				SUBCONTRACTOR	98,000.00

SUBTOTAL				211,119.91	
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Cost breakdown (rev.1) - Continued

Markups

#	ITEM NAME	APPLIED TO (USD)	PERCENTAGE	ITEM COST (USD)
1	Overall- Mark Up	Subtotal: 211,119.91 USD	7.50%	15,833.99
MARKUPS				15,833.99
SUBTOTAL + MARKUPS				226,953.90

THIS CHANGE ORDER	226,953.90
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REQUEST FOR PROPOSAL

PROJECT:	Phase II Athletics - Bid Package No. 2 North Bullitt Field House Bullitt County Public Schools	REQUEST FOR PROPOSAL NO.:	14
OWNER:	Bullitt County Public Schools 1040 Highway 44 East Shepherdsville, KY 40165	DATE:	8-Oct-2025
TO CONTRACTOR:	Calhoun Construction Services, Inc. 7707 National Turnpike Louisville, KY 40218	ARCHITECT:	Studio Kremer Architects 1231 S Shelby Street Louisville, KY 40203
		ARCHITECT'S PROJECT NO.:	2023-50 BG# 24-192

Please submit an itemized quotation for changes in the Contract Sum and/or Time incidental to proposed modifications to the Contract Documents described herein.

THIS IS NOT A CHANGE ORDER NOR A DIRECTION TO PROCEED WITH THE WORK DESCRIBED HEREIN

Description:

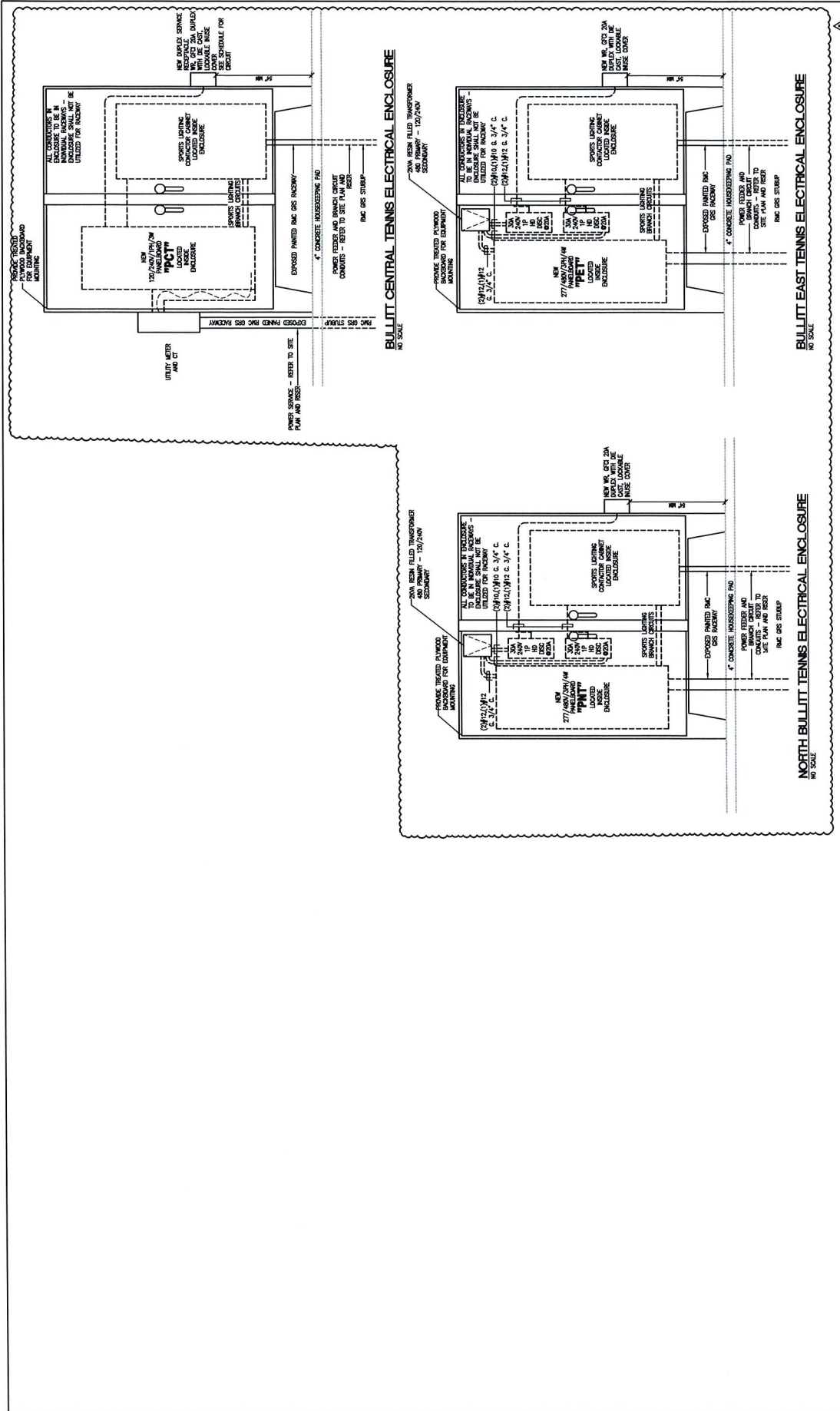
Provide price proposal for the following: Tennis court lighting changes for North, Central and East High Schools

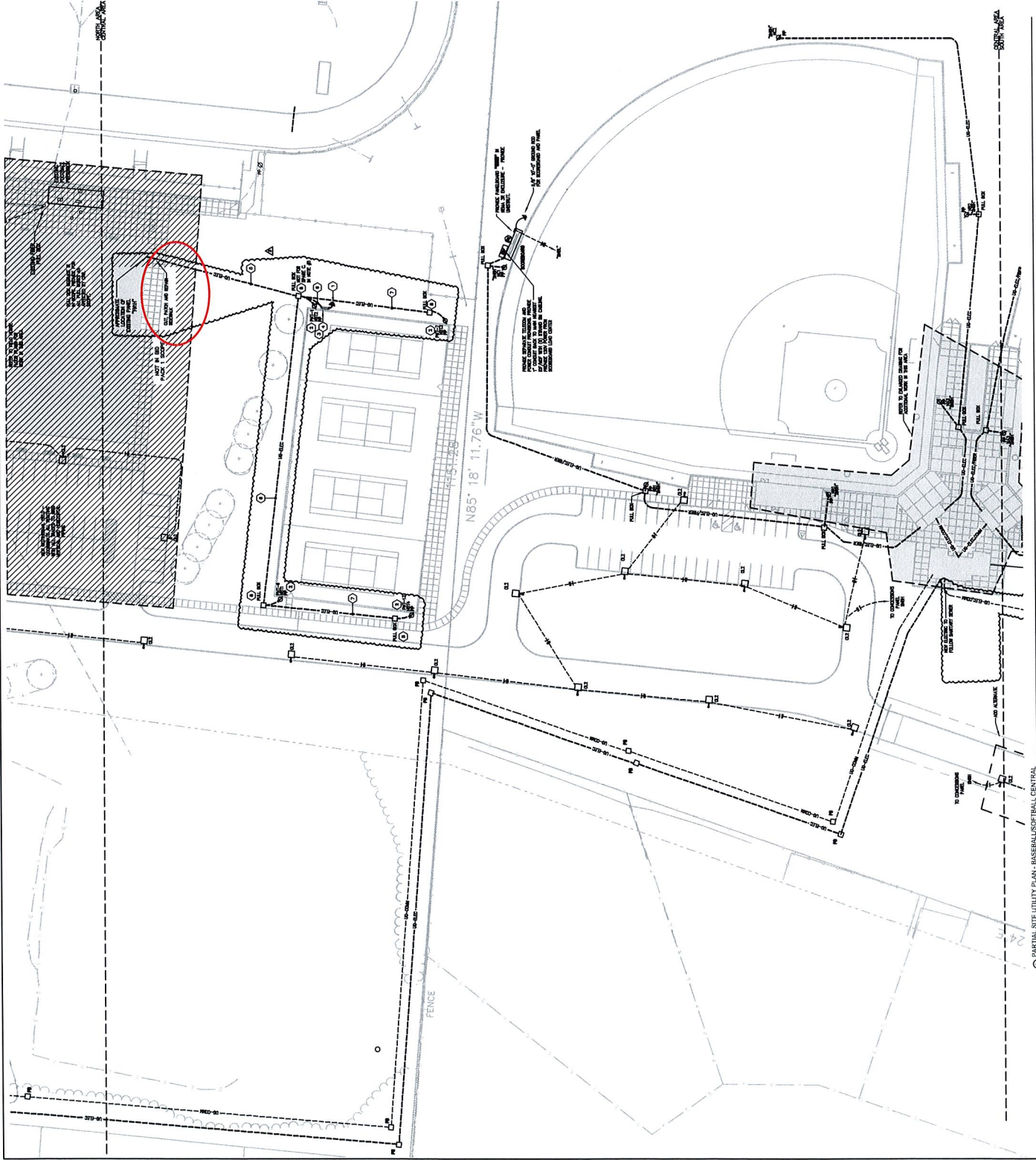
- | | |
|-----------|---|
| Item No.1 | Refer to ES0.2
•Sheet added for Tennis Electrical Enclosure details. |
| Item No.2 | Refer to ES1.2_BCHS
•Refer to clouded area for O.F.C.I Musco tennis court sports lighting and associated electrical service. |
| Item No.3 | Refer to ES2.3_BEHS
•Refer to clouded area for O.F.C.I Musco tennis court sports lighting and associated electrical. |
| Item No.4 | Refer to ES3.3_NBHS
•Refer to clouded area for O.F.C.I Musco tennis court sports lighting and associated electrical. |
| Item No.5 | Refer to E5.4
•Refer to clouded area portion of electrical riser for additions. |
| Item No.6 | Refer to E5.8
•Sheet added for electrical schedules. |
| Item No.7 | Refer to E7.0
•Refer to clouded area portion of electrical riser for additions. |

Attachments:

Revised Drawings:

ISSUED:	8-Oct-2025	ARCHITECT:	studio kremer architects
CONTRACTOR:	Calhoun Construction Services, Inc.	BY:	Cate Noble Ward, AIA





ELECTRICAL TRANSFORMER SCHEDULE BP1

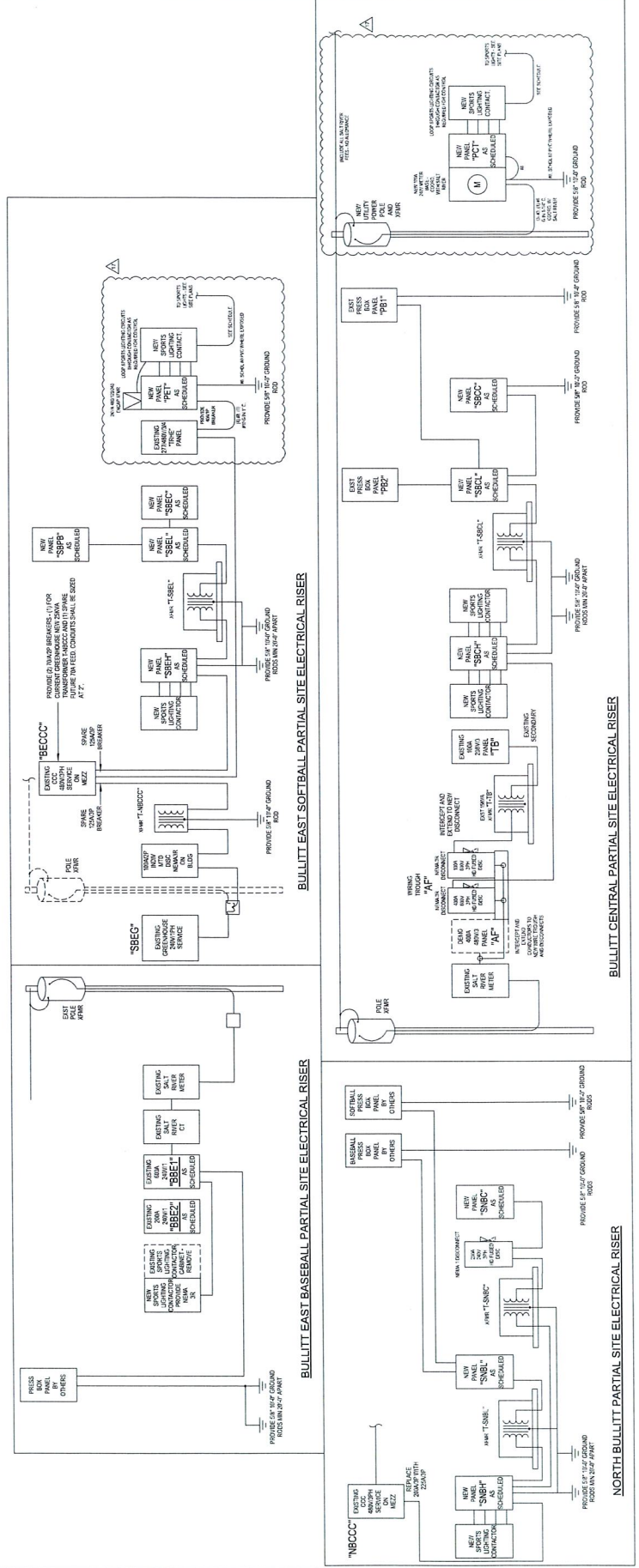
NAME	SIZE (IN)	MOUNT	GEC	Description
T-500L	112.5	FLOOR	#10	
I-500L	25	SINK - SILL	#	
T-500L	112.5	FLOOR	#10	UNCLIP'S LA1LD - JERRY PRIMARY, 1257-86V ST CONARY
I-500L	30	STACKED	#	
T-500L	112.5	FLOOR	#10	

ELECTRICAL FEEDER SCHEDULE BP1

EXPERIMENT NAME	FEED FWD VOLUME	DATA	BITTS	INTERNAL	GAUSSIAN
FF-1	48000	2800	2	3500	2
FF-2	48000	2800	2	3500	2
FF-3	48000	2800	2	3500	2
FF-4	48000	2800	2	3500	2
FF-5	48000	2800	2	3500	2
FF-6	48000	2800	2	3500	2
FF-7	48000	2800	2	3500	2
FF-8	48000	2800	2	3500	2
FF-9	48000	2800	2	3500	2
FF-10	48000	2800	2	3500	2
FF-11	48000	2800	2	3500	2
FF-12	48000	2800	2	3500	2
FF-13	48000	2800	2	3500	2
FF-14	48000	2800	2	3500	2
FF-15	48000	2800	2	3500	2
FF-16	48000	2800	2	3500	2
FF-17	48000	2800	2	3500	2
FF-18	48000	2800	2	3500	2
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FF-21	48000	2800	2	3500	2
FF-22	48000	2800	2	3500	2
FF-23	48000	2800	2	3500	2
FF-24	48000	2800	2	3500	2
FF-25	48000	2800	2	3500	2
FF-26	48000	2800	2	3500	2
FF-27	48000	2800	2	3500	2
FF-28	48000	2800	2	3500	2
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FF-30	48000	2800	2	3500	2
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FF-36	48000	2800	2	3500	2
FF-37	48000	2800	2	3500	2
FF-38	48000	2800	2	3500	2
FF-39	48000	2800	2	3500	2
FF-40	48000	2800	2	3500	2
FF-41	48000	2800	2	3500	2
FF-42	48000	2800	2	3500	2
FF-43	48000	2800	2	3500	2
FF-44	48000	2800	2	3500	2
FF-45	48000	2800	2	3500	2
FF-46	48000	2800	2	3500	2
FF-47	48000	2800	2	3500	2
FF-48	48000	2800	2	3500	2
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FF-54	48000	2800	2	3500	2
FF-55	48000	2800	2	3500	2
FF-56	48000	2800	2	3500	2
FF-57	48000	2800	2	3500	2
FF-58	48000	2800	2	3500	2
FF-59	48000	2800	2	3500	2
FF-60	48000	2800	2	3500	2
FF-61	48000	2800	2	3500	2
FF-62	48000	2800	2	3500	2
FF-63	48000	2800	2	3500	2
FF-64	48000	2800	2	3500	2
FF-65	48000	2800	2	3500	2
FF-66	48000	2800	2	3500	2
FF-67	48000	2800	2	3500	2
FF-68	48000	2800	2	3500	2
FF-69	48000	2800	2	3500	2
FF-70	48000	2800	2	3500	2
FF-71	48000	2800	2	3500	2
FF-72	48000	2800	2	3500	2
FF-73	48000	2800	2	3500	2
FF-74	48000	2800	2	3500	2
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FF-84	48000	2800	2	3500	2
FF-85	48000	2800	2	3500	2
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FF-94	48000	2800	2	3500	2
FF-95	48000	2800	2	3500	2
FF-96					

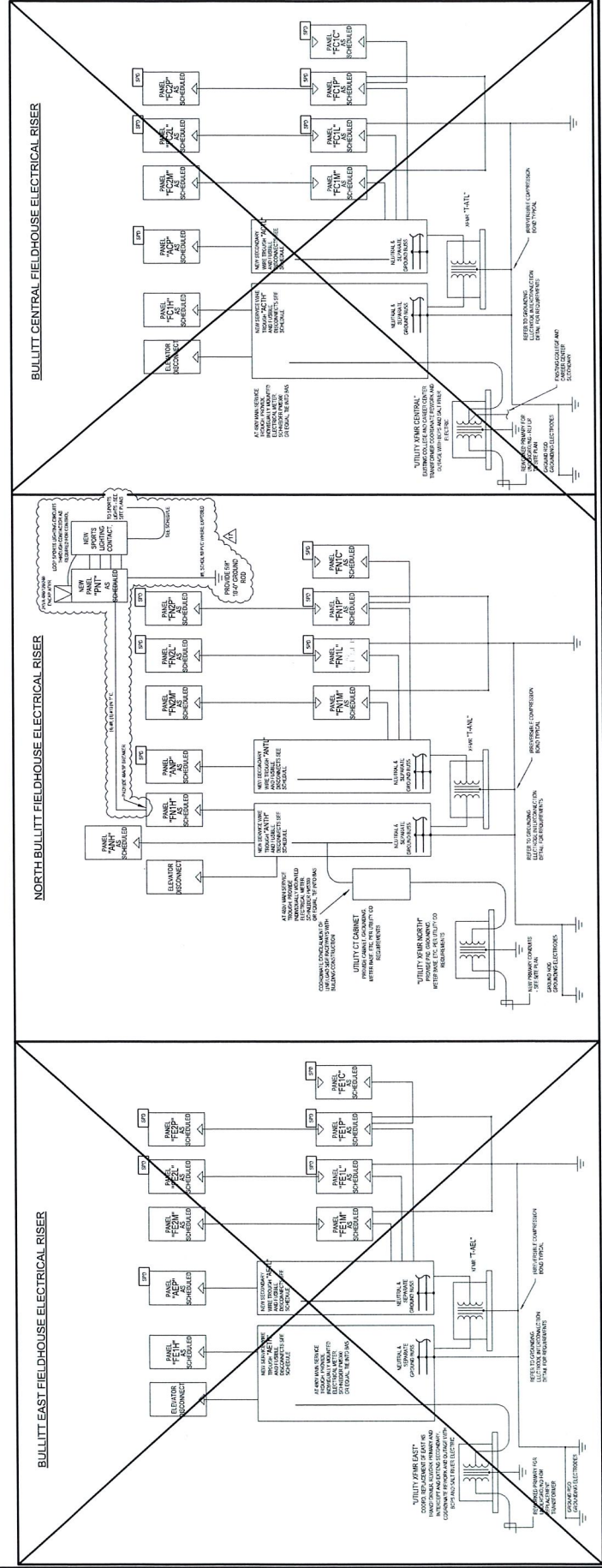
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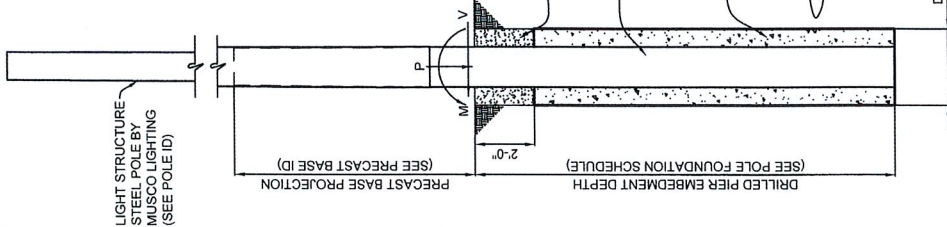
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PANELBOARD AND WIRING SCHEDULE

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POLE FOUNDATION ELEV.

SCALE: NOT TO SCALE

SOIL BACKFILL NOTE:
THE TOP TWO FEET OF ANNULUS SHALL BE BACKFILLED WITH
SOIL WITH A CLASSIFICATION OF CLASS 5 (TABLE 1806.2) OR
BETTER.

POLE FOUNDATION SCHEDULE

POLE DESIGNATION	FORCES (1.)				DRILLED PIER	
	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS	DIAMETER INCHES	EMBEDMENT DEPTH (3.)	CONCRETE BACKFILL YD ³ (2.)
T1 - T4	31,073	833	946	30	10'-0"	1.3

- ASD LOAD COMBINATION D + 0.6W.
VERTICAL FORCE IS WEIGHT OF DRESSED POLE (DOES NOT INCLUDE PRECAST BASE WEIGHT).
- MINIMUM CONCRETE BACKFILL VOLUME, SITE CONDITIONS MAY REQUIRE ADDITIONAL BACKFILL.
- POTENTIAL FOR ENCOUNTERING ROCK BEFORE REACHING EMBEDMENT DEPTH.
ROCK AUGERING EQUIPMENT MAY BE REQUIRED.

PRECAST BASE IDENTIFICATION

PRECAST BASE TYPE	PRECAST BASE WEIGHT	PRECAST BASE LENGTH	PROJECTION ABOVE GRADE	STANDARD EMBEDMENT	OUTSIDE DIAMETER
2B	1,690 LBS	17'-3"	7'-3"	10'-0"	12.00"

POLE IDENTIFICATION

POLE DESIGNATION	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION (FIX. PER XARM)	FIXTURE AND ACCESSORIES EPA (FT ²)
T1 - T4	LS860AA	2B	3 (3)	7.2

DESIGN NOTES

DESIGN PARAMETERS:
WIND $V_{100} = 115$ MPH $V_{60} = 89$ MPH (EXPOSURE C, RISK CATEGORY II) PER
KENTUCKY BUILDING CODE, 2018 EDITION (IBC 2015 / ASCE 7-10).

GEOTECHNICAL PARAMETERS:
ALLOWABLE END BEARING SOIL PRESSURE: 2,000 PSF
ALLOWABLE LATERAL SOIL BEARING PRESSURE: 200 PSF/FT (NEGLECT TO 2'-0")
IN ACCORDANCE WITH THE 2018 KENTUCKY BUILDING CODE, CHAPTER 18, REFERENCE
GEOTECHNICAL EXPLORATION REPORT, PROJECT NO. LX202011, PREPARED BY
CONSULTING SERVICES INCORPORATED (CSI), LEXINGTON, KY.

A GEOTECHNICAL ENGINEER OR REPRESENTATIVE OF IS RECOMMENDED (NOT
REQUIRED) TO BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO
VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY
PROBLEMS ARISE IN FOUNDATION INSTALLATION.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN
CONSIDERATIONS OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS
WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST. IF
ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH
DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY. REVISIONS
WILL BE ANALYZED PER RECOMMENDATIONS DIRECTED BY A REGISTERED ENGINEER.

ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO
FOUNDATION INSTALLATION AND CONCRETE BACKFILL PLACEMENT. CONTRACTOR
SHOULD BE PREPARED FOR THE POSSIBILITY OF GROUND WATER PUMPING AND
EXCAVATION STABILIZATION AS CONDITIONS MAY REQUIRE. CASINGS OR DRILLERS
SLURRY MAY BE USED TO STABILIZE THE EXCAVATION DURING INSTALLATION.
TEMPORARY CASINGS MUST BE REMOVED DURING CONCRETE BACKFILL PLACEMENT.
PERMANENT CASINGS MUST BE SMOOTH-SIDED STEEL PIPE, AND MUST BE INSERTED
INTO PLACE FIRST PRIOR TO CLEANING OUT THE INSIDE SO THAT CONTINUOUS
CONTACT WITH THE SURROUNDING UNDISTURBED SOILS IS MAINTAINED.

CONCRETE BACKFILL MUST BE PLACED WITH A TREMIE WHEN SLURRY OR WATER IS
PRESENT WITHIN THE EXCAVATION. THE MOUTH OF THE TREMIE MUST REMAIN BURIED
IN FRESH CONCRETE SO THAT THE CONCRETE DISPLACES WATER OR SLURRY WITHOUT
MIXING.

CONCRETE:
CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE DESIGN
STRENGTH AT 28 DAYS OF 3,000 PSI. POLE ERECTION MAY TAKE PLACE AFTER
STRENGTH GAIN HAS REACHED 1,000 PSI MINIMUM, OR 24 HOURS HAVE ELAPSED FROM
PLACEMENT. ALL PIERS AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM
UNDISTURBED SOIL, OR PERMANENT CASINGS WHERE UTILIZED.

GENERAL NOTES:
FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE
FROM ANY OBSTRUCTION. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR
ANY RETAINING WALLS OR WITHIN / NEAR ANY SLOPES STEEPER THAN 3H : 1V. POLES,
FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO
LIGHTING.



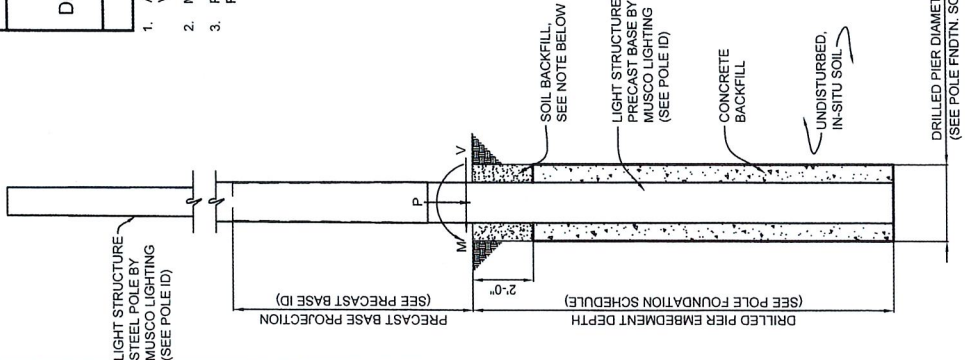
KYLE G. LACINA - NO. 24120

BULLITT CENTRAL HS
TENNIS
ATHLETIC LIGHTING
SHEPHERDSVILLE, KY



STRUCTURAL
ENGINEERS, P.C.
114 NICHOLAS DRIVE
MARSHALLTOWN, IOWA 50156
PHONE NUMBER: 641-752-6334
EMAIL: MSL.INFO@SEPC.BIZ

PROJECT TITLE:
POLE AND FOUNDATION
SCALE: SEE PLAN
NOTES:
SCAN #246420A
PROJECT NUMBER:
246420
DATE:
30 OCTOBER 2025
DRAWING NUMBER:
C1
OF ONE



POLE FOUNDATION SCHEDULE

POLE DESIGNATION	FORCES (1.)			DRILLED PIER		
	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS	DIAMETER INCHES	EMBEDMENT DEPTH (3.)	CONCRETE BACKFILL YD ³ (2.)
T1 - T4	31,073	833	946	30	10'-0"	1.3

- ASD LOAD COMBINATION D + 0.6W. VERTICAL FORCE IS WEIGHT OF DRESSED POLE (DOES NOT INCLUDE PRECAST BASE WEIGHT).
- MINIMUM CONCRETE BACKFILL VOLUME, SITE CONDITIONS MAY REQUIRE ADDITIONAL BACKFILL.
- POTENTIAL FOR ENCOUNTERING ROCK BEFORE REACHING EMBEDMENT DEPTH. ROCK AUGERING EQUIPMENT MAY BE REQUIRED.

PRECAST BASE IDENTIFICATION

PRECAST BASE TYPE	PRECAST BASE WEIGHT	PRECAST BASE LENGTH	PROJECTION ABOVE GRADE	STANDARD EMBEDMENT	OUTSIDE DIAMETER
2B	1,690 LBS	17'-3"	7'-3"	10'-0"	12.00"

POLE IDENTIFICATION

POLE DESIGNATION	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION (FIX. PER XARM)	FIXTURE AND ACCESSORIES EPA (FT ²)
T1 - T4	LSS60AA	2B	3 (3)	7.2

POLE FOUNDATION ELEV.

SCALE: NOT TO SCALE
SOIL BACKFILL NOTE:
THE TOP TWO FEET OF ANNULUS SHALL BE BACKFILLED WITH SOIL WITH A CLASSIFICATION OF CLASS 5 (TABLE 1806.2) OR BETTER.

DESIGN NOTES

DESIGN PARAMETERS:
WIND, $V_w = 115$ MPH, $V_{60} = 89$ MPH (EXPOSURE C, RISK CATEGORY II) PER KENTUCKY BUILDING CODE, 2018 EDITION (IBC 2015 / ASCE 7-10).

GEOTECHNICAL PARAMETERS:
ALLOWABLE END BEARING SOIL PRESSURE: 2,000 PSF
ALLOWABLE LATERAL SOIL BEARING PRESSURE: 200 PSF/FT (NEGLECT TO 2'-0") IN ACCORDANCE WITH THE 2018 KENTUCKY BUILDING CODE, CHAPTER 18, REFERENCE BY GEOTECHNICAL EXPLORATION REPORT, PROJECT NO. LX20208, PREPARED BY CONSULTING SERVICES INCORPORATED (CSI), LEXINGTON, KY.

A GEOTECHNICAL ENGINEER OR REPRESENTATIVE OF IS RECOMMENDED (NOT REQUIRED) TO BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST. IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY. REVISIONS WILL BE ANALYZED PER RECOMMENDATIONS DIRECTED BY A REGISTERED ENGINEER.

ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND CONCRETE BACKFILL PLACEMENT. CONTRACTOR SHOULD BE PREPARED FOR THE POSSIBILITY OF GROUND WATER PUMPING AND EXCAVATION STABILIZATION AS CONDITIONS MAY REQUIRE. CASINGS OR DRILLERS SLURRY MAY BE USED TO STABILIZE THE EXCAVATION DURING INSTALLATION. TEMPORARY CASINGS MUST BE REMOVED DURING CONCRETE BACKFILL PLACEMENT. PERMANENT CASINGS MUST BE SMOOTH-SIDED STEEL PIPE, AND MUST BE INSERTED INTO PLACE FIRST PRIOR TO CLEANING OUT THE INSIDE SO THAT CONTINUOUS CONTACT WITH THE SURROUNDING UNDISTURBED SOILS IS MAINTAINED.

CONCRETE BACKFILL MUST BE PLACED WITH A TREMIE WHEN SLURRY OR WATER IS PRESENT WITHIN THE EXCAVATION. THE MOUTH OF THE TREMIE MUST REMAIN BURIED IN FRESH CONCRETE SO THAT THE CONCRETE DISPLACES WATER OR SLURRY WITHOUT MIXING.

CONCRETE:
CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE DESIGN STRENGTH AT 28 DAYS OF 3,000 PSI. POLE ERECTION MAY TAKE PLACE AFTER STRENGTH GAIN HAS REACHED 1,000 PSI MINIMUM, OR 24 HOURS HAVE ELAPSED FROM PLACEMENT. ALL PIERS AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM UNDISTURBED SOIL, OR PERMANENT CASINGS WHERE UTILIZED.

GENERAL NOTES:
FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR ANY RETAINING WALLS OR WITHIN / NEAR ANY SLOPES STEEPER THAN 3H : 1V. POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.



KYLE G. LAGINA - NO. 24120

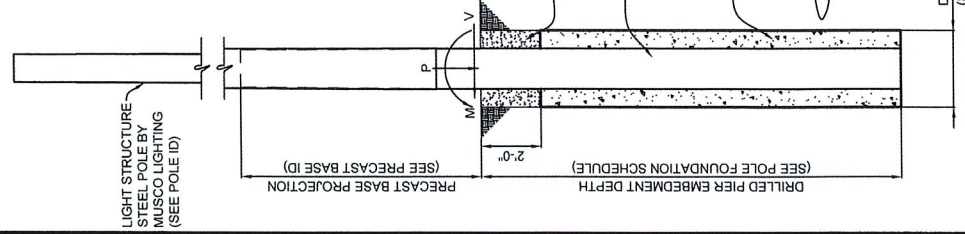
BULLITT EAST HS
TENNIS
ATHLETIC LIGHTING
MOUNT WASHINGTON, KY

MUSCO Lighting
CORPORATE: 100 1st AVE WEST
OSKAHOUSA, IA 52577
(800) 825-8020

STRUCTURAL ENGINEERS, P.C.
114 NICHOLAS DRIVE
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DRAWING TITLE: POLE AND FOUNDATION
SCALE: SEE PLAN
NOTES: SCAN #246422A

PROJECT NUMBER: 246422
DATE: 30 OCTOBER 2025
DRAWING NUMBER: C1
OF ONE



POLE FOUNDATION SCHEDULE

POLE DESIGNATION	FORCES (1.)			DRILLED PIER	
	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS	DIAMETER INCHES	EMBEDMENT DEPTH (3.)
T1 - T4	39,751	931	1,201	36	10'-0"
					CONCRETE BACKFILL YD ³ (2.)
					1.9

- ASD LOAD COMBINATION D + 0.6W. VERTICAL FORCE IS WEIGHT OF DRESSED POLE (DOES NOT INCLUDE PRECAST BASE WEIGHT).
- MINIMUM CONCRETE BACKFILL VOLUME. SITE CONDITIONS MAY REQUIRE ADDITIONAL BACKFILL.
- POTENTIAL FOR ENCOUNTERING ROCK BEFORE REACHING EMBEDMENT DEPTH. ROCK AUGERING EQUIPMENT MAY BE REQUIRED.

PRECAST BASE IDENTIFICATION

PRECAST BASE TYPE	PRECAST BASE WEIGHT	PRECAST BASE LENGTH	PROJECTION ABOVE GRADE	STANDARD EMBEDMENT	OUTSIDE DIAMETER
2B	1,690 LBS	17'-3"	7'-3"	10'-0"	12.00"

POLE IDENTIFICATION

POLE DESIGNATION	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION (FIX. PER XARM)	FIXTURE AND ACCESSORIES EPA (FT)
T1 - T4	LS570AA	2B	3 (3)	6.9

POLE FOUNDATION ELEV.

SCALE: NOT TO SCALE
SOIL BACKFILL NOTE:
THE TOP TWO FEET OF ANNULUS SHALL BE BACKFILLED WITH SOIL WITH A CLASSIFICATION OF CLASS 5 (TABLE 1806.2) OR BETTER.

DESIGN NOTES

DESIGN PARAMETERS:
WIND $V_w = 115$ MPH $V_{50} = 89$ MPH (EXPOSURE C, RISK CATEGORY II) PER KENTUCKY BUILDING CODE, 2018 EDITION (IBC 2015 / ASCE 7-10).

GEOTECHNICAL PARAMETERS:
ALLOWABLE LATERAL SOIL BEARING PRESSURE: 2,000 PSF
NEGLECT TO -2'-0": 100 PSF/FT (TO -4'-6"); 200 PSF/FT (BELOW -4'-6")
IN ACCORDANCE WITH THE 2018 KENTUCKY BUILDING CODE, CHAPTER 18, REFERENCE GEOTECHNICAL EXPLORATION REPORT (REVISED 4/23/2024), PROJECT NO. LX202010, PREPARED BY CONSULTING SERVICES INCORPORATED (CSI), LEXINGTON, KY.

A GEOTECHNICAL ENGINEER OR REPRESENTATIVE OF IS RECOMMENDED (NOT REQUIRED) TO BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST. IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY. REVISIONS WILL BE ANALYZED PER RECOMMENDATIONS DIRECTED BY A REGISTERED ENGINEER.

ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND CONCRETE BACKFILL PLACEMENT. CONTRACTOR SHOULD BE PREPARED FOR THE POSSIBILITY OF GROUND WATER PUMPING AND EXCAVATION STABILIZATION AS CONDITIONS MAY REQUIRE. CASINGS OR DRILLERS SLURRY MAY BE USED TO STABILIZE THE EXCAVATION DURING INSTALLATION. TEMPORARY CASINGS MUST BE REMOVED DURING CONCRETE BACKFILL PLACEMENT. PERMANENT CASINGS MUST BE SMOOTH-SIDED STEEL PIPE, AND MUST BE INSERTED INTO PLACE FIRST PRIOR TO CLEANING OUT THE INSIDE SO THAT CONTINUOUS CONTACT WITH THE SURROUNDING UNDISTURBED SOILS IS MAINTAINED.

CONCRETE BACKFILL MUST BE PLACED WITH A TREMIE WHEN SLURRY OR WATER IS PRESENT WITHIN THE EXCAVATION. THE MOUTH OF THE TREMIE MUST REMAIN BURIED IN FRESH CONCRETE SO THAT THE CONCRETE DISPLACES WATER OR SLURRY WITHOUT MIXING.

CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE DESIGN STRENGTH AT 28 DAYS OF 3,000 PSI. POLE ERECTION MAY TAKE PLACE AFTER STRENGTH GAIN HAS REACHED 1,000 PSI MINIMUM. OR 24 HOURS HAVE ELAPSED FROM PLACEMENT. ALL PIERS AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM UNDISTURBED SOIL, OR PERMANENT CASINGS WHERE UTILIZED.

GENERAL NOTES:
FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR ANY RETAINING WALLS OR WITHIN / NEAR ANY SLOPES STEEPER THAN 3H:1V. POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.



KYLE G. LACINA - NO. 24120

NORTH BULLITT HS
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ATHLETIC LIGHTING
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DRAWING TITLE: POLE AND FOUNDATION
SCALE: SEE PLAN
NOTES: SCAN #246421A
PROJECT NUMBER: 246421
DATE: 30 OCTOBER 2025
DRAWING NUMBER: C1
OF ONE