ADDENDUM NO. 2

September 5, 2023

LOWELL HIGH SCHOOL SITE, BLEACHERS, AND TURF/DRAINAGE
Lowell, IN 46356

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated August 7, 2023 by Gibraltar Design. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 2-1 and attached Addendum No. 2 from Gibraltar Design dated August 31, 2023 and consisting of 4 pages, Specification Section 26 05 73 - Electrical Systems Studies, and 26 drawings.

A. SPECIFICATION SECTION 00 00 20 - TABLE OF CONTENTS

1. **Add:**

Specification Section 26 05 73 - Electrical Systems Studies

B. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

H. BID CATEGORY NO. 2 - ELECTRICAL

1. **Add:**

Specification Section 26 05 73 - Electrical Systems Studies

ADDENDUM TWO

Addendum Two (AD.02) to the drawings and specifications prepared by Gibraltar Design for **Lowell High School Site, Bleachers and Turf/Drainage** for Tri-Creek School Corporation, Lowell, Indiana.

All Contractors bidding on this project shall read all of the items covered below and shall comply with all of the requirements as set forth, including any necessary refinements or additions generated by this Addendum and required by the intent of the original contract documents. All Contractors shall acknowledge on their bid form that they have received this Addendum and include the appropriate content of same within their bid proposal.

SPECIFICATIONS

1. **Specification Section 26 05 73 Electrical Systems Studies**
   A. Add Specification Section 26 05 73, Electrical Systems Studies, included in this Addendum, to the Project Manual.

DRAWINGS

For each sheet listed in this Addendum, refer to attached full size drawing sheet(s) for revisions, unless noted otherwise.

1. **Sheet C-2.2A**
   A. Revise Plan Notes 2 and 10
   B. Remove demoed Long Jump and Pole Vault from plan.
2. **Sheet C-2.2B**
   A. Revise the boarder of artificial turf soccer field.
   B. Revise concrete slab under covered players' bench and aluminum bleacher next to players' bench.
   C. Remove portion of fencing from scope of work at the South end of Soccer Field.
3. **Sheet C-2.2D**
   A. Added notes clarifying fencing and windscreens.
4. **Sheet C-5.3**
   A. Revise Detail 9/C-5.3
   B. Add detail 10/C-5.3
5. **Sheet A-402**
   A. Revise Section 2/A-402

6. Sheet ES101

A. Revised some of the demolition plan notes.

B. Note to relocate some existing panelboards.

C. Note to remove existing feeder to existing incoming electrical service panelboard in the North Star Building.

7. Sheet ES102

A. New location for relocated transformer #3.

B. Replace Existing Panel "DPSH1" with new Panel "DPSH1".

C. New location for some of the panelboards, dry type transformers, lighting relays and timeclocks.

D. New routing for some of the feeders.

E. New Panelboards and transformer for North Star Building.

F. New Panelboards and transformer for North Star Building.

G. New Panelboards and transformer for the Maintenance Storage Building.

8. Sheet ES103

A. Modifications to the lighting for the flagpole.

B. New location for relocated transformer #3.

C. Showing location for New Panel "SDP" and relocated panelboards near relocated transformer #3.

D. Modifications to some of the Feeders.

9. Sheet ES104

A. Modifications to the lighting for the flagpole.

B. Modification to the location of the receptacles for the batting cages.

10. Sheet ES105

A. Modifications to the lighting for the flagpole.

B. Modification to the location of the receptacle for the batting cages.

11. Sheet ES106

A. Modifications to the lighting for the flagpole.

B. Added panelboards and transformer for the Maintenance Storage Building.

C. Added feeder to the Maintenance Storage Building.

12. Sheet ES107

A. Modifications to the location of the power receptacles for the ball machines at the tennis courts.

B. Modified some of the circuiting and feeders.

13. Sheet ES108

A. Revised enlarge plan tags.

B. Revised conduit notes.

14. Sheet ES110

A. Revised existing lights to be removed and relocated.

15. Sheet ES111

A. Revised lighting layout.

B. Revised exterior lighting luminaire schedule.

16. Sheet ES112

A. Revised lighting layout.

17. Sheet ES114

A. Added note for sign feeder size.

18. Sheet ED102

A. Revised sheet notes to new sheets numbers.

B. Revised enlarged plan tags.

C. Revised existing panel to be demolished.

19. Sheet E-101

A. Clarification: Add Plan Note 5, which reads as follows: Intercept existing emergency circuit serving the existing emergency lights in the existing pressbox being replaced and extend to the new emergency lights in the new pressbox. Apply Plan Note 5 to the new press box.

20. Sheet E-103

A. Revised new panel.

21. Sheet E-104

A. See New Sheet E-104, included in this addendum, showing the locations of the new panelboards and transformers to be provided.

22. Sheet E-601

A. Clarification: Relays RL-1 and RL-2 shall be provided in High School in Tech Room TT119 next to the Electrical Room TE121.

23. Sheet E-603

A. Add Panel Schedule for the New Panel "DPHS1", which replaces the Existing Panel "DPHS1".

B. Modifications to some of the Panel Schedules.

24. Sheet E-604

A. Modifications to some of the Panel Schedules.

25. Sheet E-605

A. See New Sheet E-605, included in this addendum, which includes New Panel Schedules.

26. Sheet E-606

A. See New Sheet E-606, included in this addendum, which includes New Panel Schedules.

27. Sheet E-701

A. Noted to replace Existing Panel "DPSH1" with New Panel "DPHS1".

B. Added some Demolition Plan Notes and modified some demolition plan notes shown on diagram.

28. Sheet E-702

A. Adding New Panels for the North Star Building, Community Building and the Maintenance Storage Building.

Pages 1 through 4, inclusive, Specification Section 26 05 73, and twenty-six (26) full-size drawings, constitute the total makeup of **Addendum Two**.

GIBRALTAR DESIGN

Joseph P. Briggs

Y:\23-112 Tri-Creek SC - Lowell HS Site Improvements\Specs\Addendum 2\23-112_AD02.docx

SECTION 26 05 73
ELECTRICAL SYSTEMS STUDIES

1 General

1.1 Summary

A. Provide a Fault Current Study, Protective Device Evaluation Study, Protective Device Coordination Study, Arc-Flash Hazard Analysis and Shock Hazard Analysis for the electrical distribution systems from all power sources rated 50 volts or greater

1.2 Related Sections:

1. Section 26 05 00 - Basic Electrical Requirements.
2. Section 26 05 13 – Medium voltage Cables.
3. Section 26 12 00 - Medium voltage Transfomers.
4. Section 26 22 00 – Transformers.
5. Section 26 24 16 - Panelboards.
6. Section 26 24 17 – Existing Switchboards and Panelboards
7. Section 26 28 13 - Low Voltage Cartridge Fuses.

1.3 Submittals

A. Submit documentation of the analysis with the shop drawing submittals for the switchboards, transformers and panelboards. These shop drawings will not be reviewed without this documentation.

B. Qualification Data: For Electrical System Study specialist.

C. Preliminary Submittal: Submit an electronic copy in PDF format only of the complete Electrical System Study with recommendations to lower the Arc Flash Hazard levels. This submittal shall accompany product data submittals for electrical equipment

D. As-Built Submittal: Submit the following just prior to substantial completion:

1. Four copies of the study in 8-1/2" x 11" hard cover three ring binders with drawings and diagrams folded to fit the format. Sections shall be tabbed and drawings shall be in a clear sleeve folded so that title-block is clearly visible.

2. Compact disk containing report in PDF format and complete set of SKM backup files (project data, libraries and output files) for project. All tables within the report shall also be submitted in MS Excel format. Disk shall be in a sleeve within the bound report.

E. Upon approval of the As-Built Submittal the Arc Flash Hazard Labels shall be printed and installed on the associated equipment

F. Electrical System Study Report contents:

1. Table of Contents

2. Introduction

3. Findings and Recommendations:

a. Identify on a line by line basis all locations with a greater than Category 2 hazard level and include an accompanying recommendation to lower the incident energy to achieve a PPE category 2 or lower.

b. Identify on a line by line basis any Overcurrent Protective Device coordination issue and include an accompanying recommendation to improve coordination.

c. Identify any protective devices that appear to have inadequate interrupting capacity.

4. Table of Calculated Arc Flash Data (Per Contract Documents)

5. Table of Calculated Arc Flash Data (Per implemented Recommendations)

6. Single - Line Drawings (D-Size):

a. Narrative description and schedule of drawings.

b. Accurate detailed Single-Line and shall at a minimum include the following information:

1) Electrical Structure.

2) Voltage at each point.

3) Bolted short circuit current available at each point in the system.

4) Horsepower of major motors. (50 Hp and above.)

5) Plant standard names of all panels and equipment.

6) Room numbers for location of all panels and equipment.

7) Arc Flash Incident Energy Levels at each point in Cal/cm2.

8) Transformer Sizes

9) Show calculated X/R ratios and equipment interrupting rating (1/2 cycle) fault currents.

7. Feeder and Transformer Data

8. Summary of Calculated Fault Currents – "Dapper" Unbalanced Fault Report. Include separate reports for each scenario.

9. Coordination Curves, Device Settings (Per Contract Documents.) – Device Settings and Curves shall be on facing pages.

10. Coordination Curves, Device Settings (Per Implmented Recommendations.) – Device Settings and Curves shall be on facing pages.

1.4 Study Requirements

A. System Data

1. Provide electrical distribution system one-line diagrams, equipment and overcurrent protective device information including catalog numbers, current ratings, voltage ratings, and interrupting ratings, bus numbers, cable sizes and lengths, TCC curves, research data, tabulations, calculations, conclusions, and recommendations summarized in a report format.

B. Fault Current Study and Protective Device Evaluation Study

1. Perform a fault current study for the electrical distribution system. Identify all power sources (normal and alternative). The available fault current shall be calculated based on 3-phase bolted short-circuit current and phase to ground/neutral short-circuit current at all significant points in the electrical system. The fault current analysis will also consider actual utility provided fault current data (or infinite bus if unavailable), power contribution from motors with 50HP or greater and back-up power systems (i.e., power generators and UPS). Provide fault current calculations in accordance with ANSI/IEEE C37 that include system impedances, X/R ratio, asymmetry factor, KVA, asymmetrical and symmetrical fault currents, calculation methods and assumptions. NOTE: The use of Utility provided Minimum, Actual, and Maximum (or infinite bus if unavailable), or approximations of three utility scenarios can be used to calculate available short-circuit current on the secondary side of utility transformers. This is a good method for determining the worst-case short-circuit current through the transformer. The frequency of when the utility provided short-circuit currents are subjected to the electrical system (due to load switching) should also be considered when using the Utility Data.
2. Protective device evaluation study shall be performed to

determine the adequacy of circuit breakers, switches, automatic transfer switches, and fuses by tabulating and comparing the short-circuit ratings of these devices with the calculated fault currents. Appropriate multiplying factors based on system X/R ratios and protective device rating standards shall be applied. Any problem areas or inadequacies in the equipment due to short-current shall be promptly brought to the Engineer's attention.

C. Protective Device Coordination Study

1. Perform a protective device coordination study to insure selective coordination. Provide time current curves which graphically indicate the coordination of devices. Tabulate recommended device manufacturers, ratings, settings, etc. Any devices that are identified as uncoordinated shall be noted and recommendations provided to obtain the required selective coordination. Study should include tabulations of relay and circuit breaker trip settings, fuse selection and commentary regarding it; and recommend size for power fuses and recommended settings for ground fault relays and for all adjustable trip relays.

D. Arc-Flash Hazard Analysis

1. Perform a Shock and Arc-Flash hazard analysis and Arc-Flash energy calculations in accordance with the latest edition of NFPA 70E, Standard for Electrical Safety in the Workplace. The Incident Energy level and Arc-Flash Protection Boundary will be determined using the available fault current (based on provided utility data, and power back-up fault current). The criteria for Arc-Flash Protection Boundary will be determined using the available fault current (based on provided utility data, and power back-up fault current). The criteria for Arc-Flash calculations shall be based on the IEEE 1584 calculation model which has been incorporated into NFPA 70E.
2. The Electrical Hazard Analysis shall include all voltage classes of equipment from the service entrance down to 50 volts as required by NFPA 70E Article 110.8(B)(1), Article 130.3 and OSHA CFR 1910.132.
3. The completed study shall include:
    a. Name or description of each point assessed
    b. Voltage exposure level at each location
    c. Available bolted fault current
    d. Hazard Risk Category
    e. Arc-Flash Protection Boundary
    f. Working Distance
    g. Incident Energy (in cal/cm^2)
    h. Required PPE
    i. Components or equipment that have insufficient AIC for available fault current, or are over-dutied

j. Assessment date
k. Commentary regarding results and how to lower hazards if reasonably attainable

4. Arc-Flash Analysis is NOT required when all of the following conditions exist:
   a. The circuit is rated 240 volts or less
   b. The circuit is supplied by one transformer
   c. The transformer supplying the circuit is rated less than 125 kVA

5. Shock Hazard Analysis
   Perform a Shock Hazard Analysis in accordance with NFPA 70E Article 130.2(A). The completed study will determine:
   a. Voltage exposure at each location
   b. Shock Protection Boundaries
      (1) Limited Approach
      (2) Restricted Approach
      (3) Prohibited Approach
   c. Required PPE

6. Warning Labels
   a. Label all equipment that will be worked on while energized with Warning Labels.
   b. Provide detailed warning labels for each piece of equipment that conform to the approved Arc-Flash Hazard Analysis and meet NEC Article 110.16 and NFPA 70E Article 130.3(C). Components of the warning label should include:
      (1) System Voltage
      (2) Available Fault Current
      (3) Hazard Risk Category
      (4) Incident Energy
      (5) Arc-Flash Protection Boundary
      (6) Shock Approach Boundaries
      (7) Required PPE
      (8) Equipment ID
      (9) Date of Assessment
      (10) Name of company who completed the study
      (11) Calculation method used.
   c. Provide Warning Labels that meet ANSI Z535.4, Product Safety Signs and Labels requirements
      (1) Label Size
      (2) Label Color
      (3) Font Size
      (4) Use appropriate "Signal" words (where required)
         (i) WARNING for HRC 4 or less
         (ii) DANGER for over HRC 4
         (iii) DANGER for components or equipment that have insufficient AIC for available fault

current, or are over-dutied

(5) Label Material

(i) Self Adhesive, capable of adhering to a variety of material:

(a) Stainless
(b) Painted enamel
(c) Powder coated metal
(d) Polypropylene
(e) Textured ABS Plastic

(ii) Glossy polyester material
(iii) Chemical and oil resistant
(iv) Approved for indoor use
(v) Approved for temperature variations (as required)
(vi) UV Protected (as required)
(vii) Approved for outdoor use (as required)

(6) Production of Warning Labels

(i) Commercially available Engineering software generated
(ii) Pre-printed label stock
(iii) Customized label stock

(7) Provide an electronic file of Warning Label data for reference or to re-print labels if one should be damaged during normal day to day operations.

1.5 Quality Assurance And References:

A. The systems analysis shall be performed by an entity experienced in the application of computer software used for studies, having performed successful studies of similar magnitude on electrical distribution systems using similar devices.

B. A Professional Engineer (P.E.) licensed in the State where the Project is located, shall be responsible for the study. All elements of the study shall be performed under the direct supervision and control of the engineer.

C. System studies shall comply with the latest editions of all applicable national and local standards, codes, and laws including but not limited to:

1. IEEE 141 – Recommended Practice for Electric Power Distribution for Industrial Plants (Red Book).

2. IEEE 242 – Recommended Practice for Protection and Coordination of Industrial and Commercial Power Systems (Buff Book)

3. IEEE 399 – Recommended Practice for Power System Analysis (Brown Book)

4. IEEE 620 – Guide for the Presentation of Thermal Limit Curves for Squirrel Cage Induction Machines.

5. IEEE 1015 – Recommended Practice for Applying Low-Voltage Circuit Breakers Used in Industrial and Commercial Power Systems (Blue Book).
6. IEEE 1584 – Guide for Performing Arc-Flash Hazard Calculations
7. IEEE C37.010 – Application Guide for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis (ANSI).
8. IEEE C37.20.1 – IEEE Standard for Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear (ANSI).
9. IEEE C37.46 – American National Standard Specifications for Power Fuses and Fuse Disconnecting (ANSI).
10. IEEE C57.12.00 – General Requirements for Liquid-Immersed Distribution, Power and Regulating Transformers (ANSI).
11. IEEE C57.96 – Guide for Loading Dry-Type Distribution and Power Transformers (ANSI).
12. ICEA P-32-382 - Short-Circuit Characteristics of Insulated Cable.
13. ICEA P-45-482 – Short-Circuit Performance of Metallic Shielding & Sheaths.
14. NEMA MG1 – Motors and Generators
15. OSHA – CFR 1910
16. NFPA 70 – National Electrical Code
17. NFPA 70E – Standard for Electrical Safety in the Workplace
18. ANSI Z535.4 – Product Safety Signs and Labels
19. CSA Z462 – Workplace Electrical Safety Standard

1.6 Scheduling

A. The individual or company performing the studies shall be approved by the design engineer prior to any work being performed.

B. All Preliminary studies shall be completed and submitted with the equipment submittals.

C. Prior to the release of equipment to manufacturing, all studies and equipment submittals must be reviewed and approved.

D. At the time of substantial completion, the As-Built studies shall be completed and incorporate all field changes, conductor lengths, etc. Labels shall not be produced or installed until the final study has been reviewed and approved.

E. Install Arc Flash Hazard labels throughout the faExaminationcility.

2 Products

2.1 Software Program Requirements

A. Calculations shall be prepared using current version of Power Tools software obtained from SKM Systems Analysis, Inc. (No equals.)

B. Shall be capable in complying with applicable codes and standards (NFPA 70, IEEE 399, NFPA 70E, IEEE 1584, Z462, etc.)

C. Shall be capable of plotting time current characteristic curves as part of its output and identify overcurrent protective device settings and ratings.

D. Shall be capable of performing Arc-Flash hazard calculations to NFPA 70E, IEEE 1584, and Z462 calculation models.

3 Execution

3.1 Examination:

A. Examine all project submittals with overcurrent protective devices and field settings for performance with the potential fault current ratings, protective device coordination and lowest Hazard Risk Category.

3.2 Installation:

A. All equipment and protective devices shall be installed by the contractor in accordance with all applicable national and local standards, codes, and laws and the approved fault current study and protective device coordination study.

B. Overcurrent Protection Device (OCPD) Management

1. The calculated Arc-Flash hazard levels in the facility electrical distribution system are dependent on the fault clearing times of the actual fuse types (UL Classifications) and circuit breaker types and their trip settings installed in the system. All maintenance changes to OCPDs must be recorded in writing, i.e., red-lined drawings. In order to maintain the integrity of the Arc-Flash Study, all changes to OCPDs will require future re-calculation of incident energy levels to determine new hazards levels.

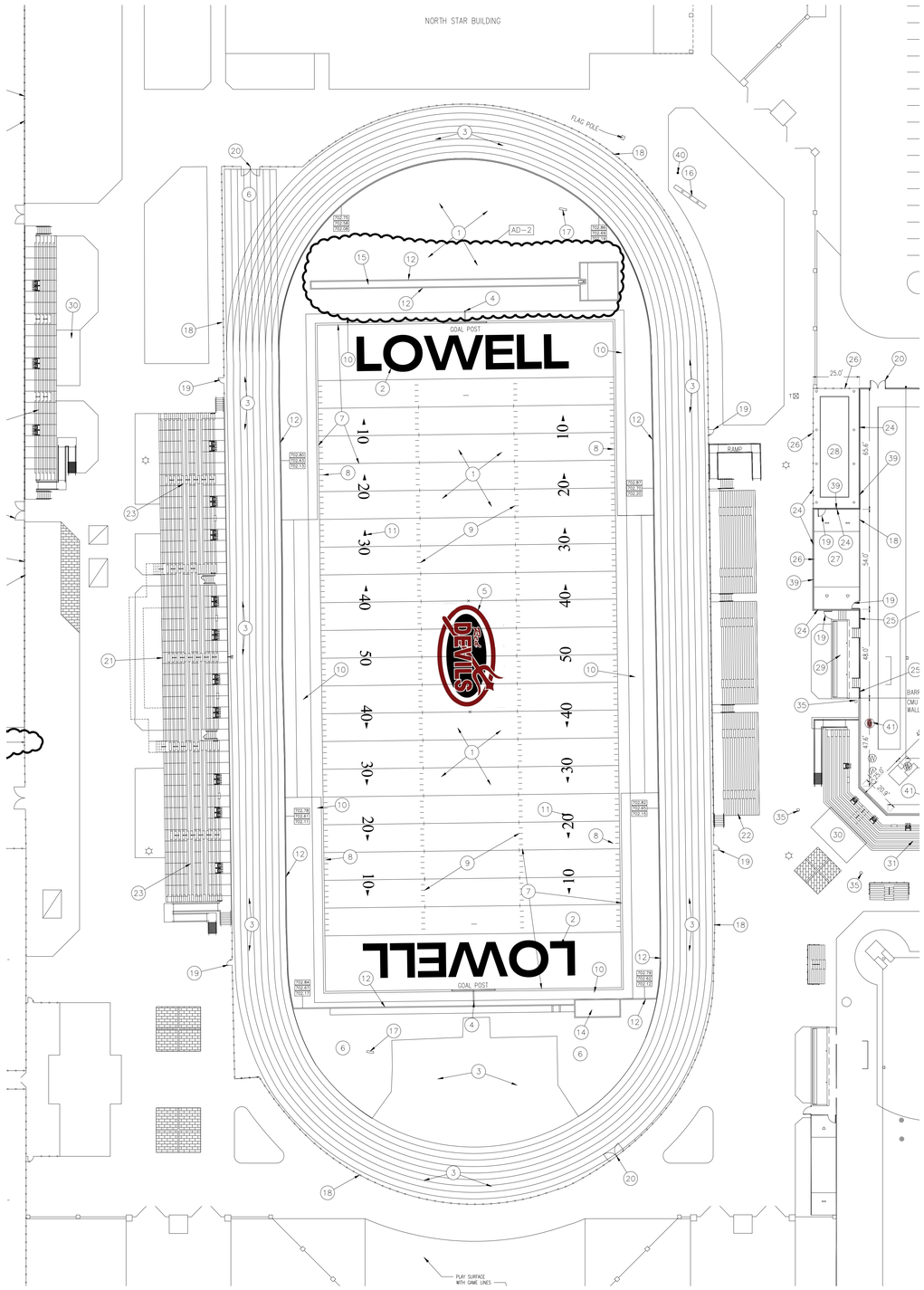
2. OCPD coordination in the electrical distribution system is dependent on the fuses, circuit breakers and trip settings currently installed, and recommended.

3. All future maintenance and replacement of fuses and circuit breakers shall be the same make and model number. OCPD can be upgraded as long as the replacement device has the same or greater current limiting capabilities, and has a short circuit clearing time that is equal-to, or faster than the OCPD being replaced.

C. Equipment shall be field marked with Arc-Flash and Shock hazard analysis data (warning labels) by the contractor in accordance with applicable codes and standards.

1. Warning Labels shall be applied in a location visible to Qualified Workers
2. Warning Labels shall be applied to clean, dry surfaces, free from oil and grease that would cause the label to unintentionally come off.

END OF SECTION



FOOTBALL FIELD TURF LAYOUT PLAN

0 15' 30' 60'

SCALE: 1" = 30'

NORTH

GENERAL PLAN NOTES:

A. CONTRACTOR IS TO PROVIDE TOTAL ARTIFICIAL TURF REPLACEMENT COMPLETE, NEW TURF, NEW INFILL, NEW 2X4, PERIMETER TREATED WOOD BLOCKING, AND NEW LOGOS/TEXT AS INDICATED.

B. CONTRACTOR IS TO MATCH ALL EXISTING LINEWORK, PLAYER BOXES, PERIMETER BAND, ETC.

C. CONTRACTOR IS REQUIRED TO MATCH THE EXISTING GRADES TO THE GREATEST DEGREE POSSIBLE.

D. CONTRACTOR IS TO COORDINATE AND PROVIDE FOR SUB-TURF ACCESS TO ANY EXISTING VALVES, HAND-HOLES OR UTILITY BOXES AS REQUIRED.

PLAN NOTES:

1. PROVIDE NEW SYNTHETIC TURF AND SUB-BASE DRAINAGE SYSTEM AS SPECIFIED. AD-2
2. NEW TURF TEXT, TEXT IS "LOWELL". COLOR TO BE CUSTOM RED WITH 6" WHITE BOARDER.
3. NEW TRACK SURFACE ON EXISTING ASPHALT. - PROTECT AS REQUIRED.
4. NEW FOOTBALL GOALPOST REFER TO DETAILS.
5. NEW INLAID TURF -LOGO- OWNER WILL PROVIDE NEW LOGO, REFER TO SPECIFICATIONS.
6. INFILL EXISTING GRASS AREA WITH NEW ASPHALT AND TRACK SURFACE.
7. END LINES AND SIDELINES - CONTINUOUS LINES 6" WIDE TYPICAL ALL OTHER LINES ARE 4" TYPICAL.
8. STOP ALL YARD LINES INSIDE BOUNDARIES 4" FOR EACH SIDE LINE TYPICAL.
9. INBOUNDS LINES SHALL BE 24" LONG, 4" WIDE, TYPICAL. AD-2
10. 6'-0" WIDE BOARDER AROUND FIELD WITH 12'-0" WIDE PLAYERS AREA ON BOTH SIDES OF FIELD. BOARDER AND PLAYERS BOX TO BE CUSTOM RED COLOR. PLAYERS BOX TO HAVE 6" WHITE BOARDER. THE 6' BOARDER IN FRONT OF THE PLAYERS BOX IS TO BE WHITE IN LIEU OF THE CUSTOM RED.
11. YARD LINE NUMBERING TO BE 24" WIDTH AND MINIMUM 4' WIDE LINES FOR EACH NUMBER AND INCLUDE MATCHING DIRECTIONAL ARROW - TYPICAL.
12. PROVIDE CONCRETE CURB ON FOOTBALL FIELD PERIMETER OF TRACK CONDITION AND AT FIELD EVENTS FOR NEW ARTIFICIAL TURF.
13. CONTRACTOR TO INSTALL/CONNECT TURF DRAINAGE SYSTEM DIRECTLY TO MANHOLE INDICATED. DESIGN OF TIE-IN AND DRAINAGE DESIGN AND LAYOUT TO BE PROVIDED AS REQUIRED PER SPECIFICATIONS.
14. NEW LONG JUMP REFER TO SITE DETAILS AND SPECIFICATIONS.
15. NEW POLE VAULT REFER TO SITE DETAILS AND SPECIFICATIONS.
16. NEW SCOREBOARD IN EXISTING LOCATION.
17. NEW DELAY OF GAME CLOCK IN EXISTING LOCATION.
18. NEW 4' BLACK VINYL COATED FENCE.
19. NEW 3' GATE.
20. NEW 10' DOUBLE GATE.
21. NEW HOME GRANDSTAND AND PRESS BOX, REFER TO ARCHITECTURAL.
22. RELOCATED VISITOR BLEACHERS, REFER TO ARCHITECTURAL.
23. NEW STORAGE BUILDING UNDER GRANDSTANDS REFER TO ARCHITECTURAL.
24. NEW 6' BLACK VINYL COATED FENCE.
25. NEW 2' BLACK VINYL COATED FENCE.
26. WINDSCREEN ON CHAIN LINK FENCE.
27. TURF BULLPEN.
28. BATTING CAGE AND CONCRETE SLAB.
29. SUNKEN DUGOUT REFER TO ARCHITECTURAL.
30. MASONRY PRESS BOX REFER TO ARCHITECTURAL.
31. VARSITY SOFTBALL GRANDSTAND REFER TO ARCHITECTURAL.
32. VARSITY BASEBALL GRANDSTAND REFER TO ARCHITECTURAL.
33. SOCCER GRANDSTAND REFER TO ARCHITECTURAL.
34. NEW SCOREBOARD REFER TO SPECIFICATIONS.
35. BACKSTOP POLE AND NETTING.
36. NEW 10' BLACK VINYL COATED FENCE.
37. NEW COVERED PLAYERS BENCHES WITH NEW CONCRETE SLAB.
38. NEW 20 PERSON BLEACHER WITH CONCRETE PAD.
39. PROVIDE CONCRETE CURB ON FIELD PERIMETER FOR NEW ARTIFICIAL TURF.
40. FLAG POLE, REFER TO ELECTRICAL FOR LIGHTING.
41. NEW INLAID TURF -LOGO- AT NEXT BATTER BOX, OWNER WILL PROVIDE NEW LOGO, REFER TO SPECIFICATIONS.

SYMBOL LEGEND:

XXX.XX —— TOP OF CURB (APPROX. - INTENT IS TO MATCH EXISTING TRACK EDGE)
XXX.XX —— TOP OF STONE (APPROX.)
XXX.XX —— SUBGRADE - MINIMUM (APPROX.)

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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Phone 317.580.5777 Fax 317.580.5778

PROJECT 23-112
DATE 08/04/23
COORDINATED BY DTB JPB
DRAWN BY DTB
CHECKED BY DTB JPB

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

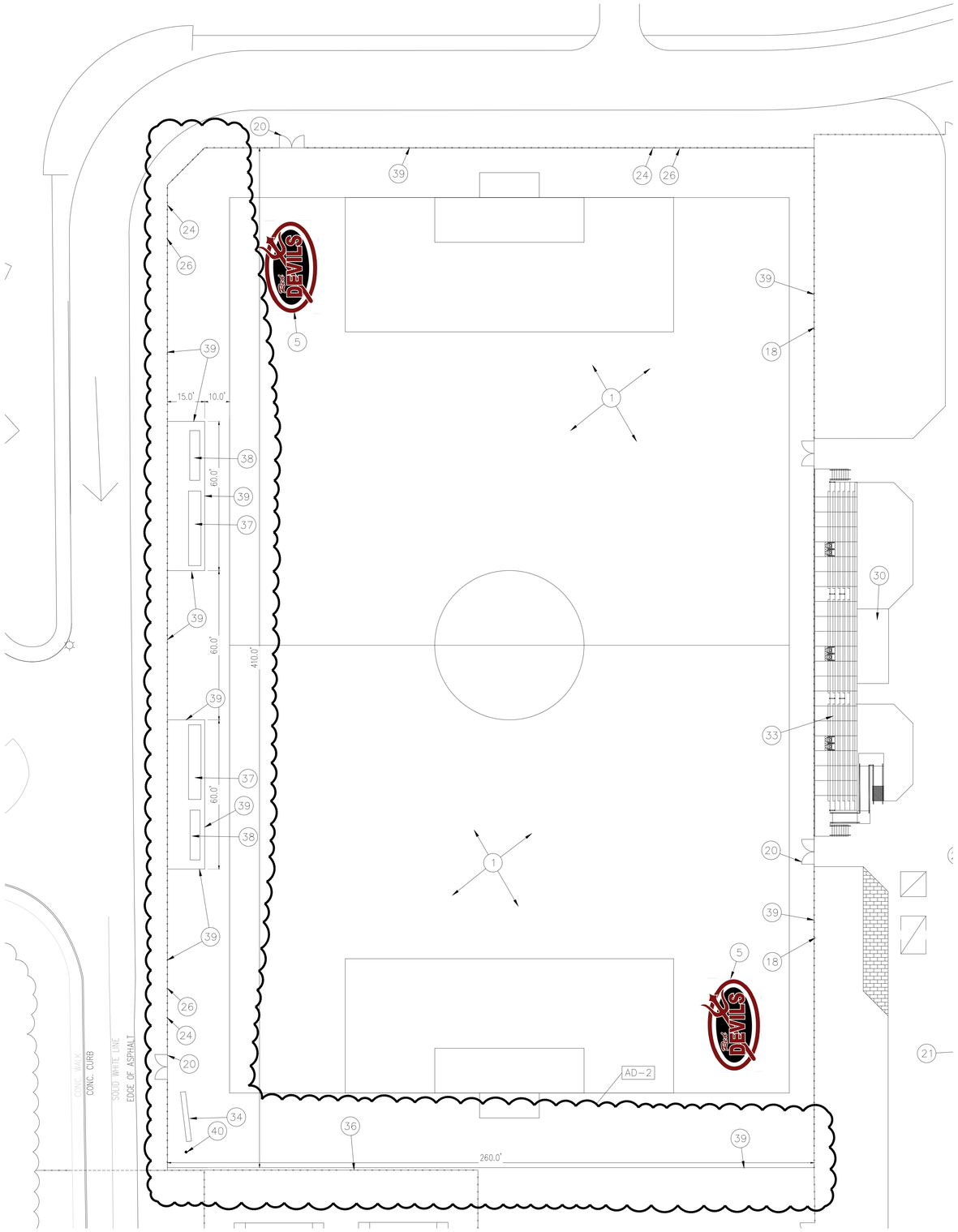
REVISIONS

MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2

DRAWING
FOOTBALL FIELD TURF LAYOUT PLAN

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET C-2.2A



0 10' 20' 40'

SCALE: 1" = 20'

SOCCER FIELD TURF LAYOUT PLAN

NORTH

GENERAL PLAN NOTES:

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11. YARD LINE NUMBERING TO BE 24" WIDTH AND MINIMUM 4" WIDE LINES FOR EACH NUMBER AND INCLUDE MATCHING DIRECTIONAL ARROW - TYPICAL.
12. PROVIDE CONCRETE CURB ON FOOTBALL FIELD PERIMETER OF TRACK CONDITION AND AT FIELD EVENTS FOR NEW ARTIFICIAL TURF.
13. CONTRACTOR TO INSTALL/CONNECT TURF DRAINAGE SYSTEM DIRECTLY TO MANHOLE INDICATED. DESIGN OF TIE-IN AND DRAINAGE DESIGN AND LAYOUT TO BE PROVIDED AS REQUIRED PER SPECIFICATIONS.
14. NEW LONG JUMP REFER TO SITE DETAILS AND SPECIFICATIONS.
15. NEW POLE VAULT REFER TO SITE DETAILS AND SPECIFICATIONS.
16. NEW SCOREBOARD IN EXISTING LOCATION.
17. NEW DELAY OF GAME CLOCK IN EXISTING LOCATION.
18. NEW 4' BLACK VINYL COATED FENCE.
19. NEW 3' GATE.
20. NEW 10' DOUBLE GATE.
21. NEW HOME GRANDSTAND AND PRESS BOX, REFER TO ARCHITECTURAL.
22. RELOCATED VISITOR BLEACHERS, REFER TO ARCHITECTURAL.
23. NEW STORAGE BUILDING UNDER GRANDSTANDS REFER TO ARCHITECTURAL.
24. NEW 6' BLACK VINYL COATED FENCE.
25. NEW 2' BLACK VINYL COATED FENCE.
26. WINDSCREEN ON CHAIN LINK FENCE.
27. TURF BULLPEN.
28. BATTING CAGE AND CONCRETE SLAB.
29. SUNKEN DUGOUT REFER TO ARCHITECTURAL.
30. MASONRY PRESS BOX REFER TO ARCHITECTURAL.
31. VARSITY SOFTBALL GRANDSTAND REFER TO ARCHITECTURAL.
32. VARSITY BASEBALL GRANDSTAND REFER TO ARCHITECTURAL.
33. SOCCER GRANDSTAND REFER TO ARCHITECTURAL.
34. NEW SCOREBOARD REFER TO SPECIFICATIONS.
35. BACKSTOP POLE AND NETTING.
36. NEW 10' BLACK VINYL COATED FENCE.
37. NEW COVERED PLAYERS BENCHES WITH NEW CONCRETE SLAB.
38. NEW 20 PERSON BLEACHER WITH CONCRETE PAD.
39. PROVIDE CONCRETE CURB ON FIELD PERIMETER FOR NEW ARTIFICIAL TURF.
40. FLAG POLE, REFER TO ELECTRICAL FOR LIGHTING.
41. NEW INLAID TURF -LOGO- AT NEXT BATTER BOX, OWNER WILL PROVIDE NEW LOGO, REFER TO SPECIFICATIONS.

SYMBOL LEGEND:

XXX.XX —— TOP OF CURB (APPROX. - INTENT IS TO MATCH EXISTING TRACK EDGE)
XXX.XX —— TOP OF STONE (APPROX.)
XXX.XX —— SUBGRADE - MINIMUM (APPROX.)

GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

GIBRALTAR DESIGN
9102 N. Meridian St., Ste. 300
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Phone 317.580.5777 Fax 317.580.5778

PROJECT 23-112
DATE 08/04/23
COORDINATED BY DTB JPB
DRAWN BY DTB
CHECKED BY DTB JPB

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

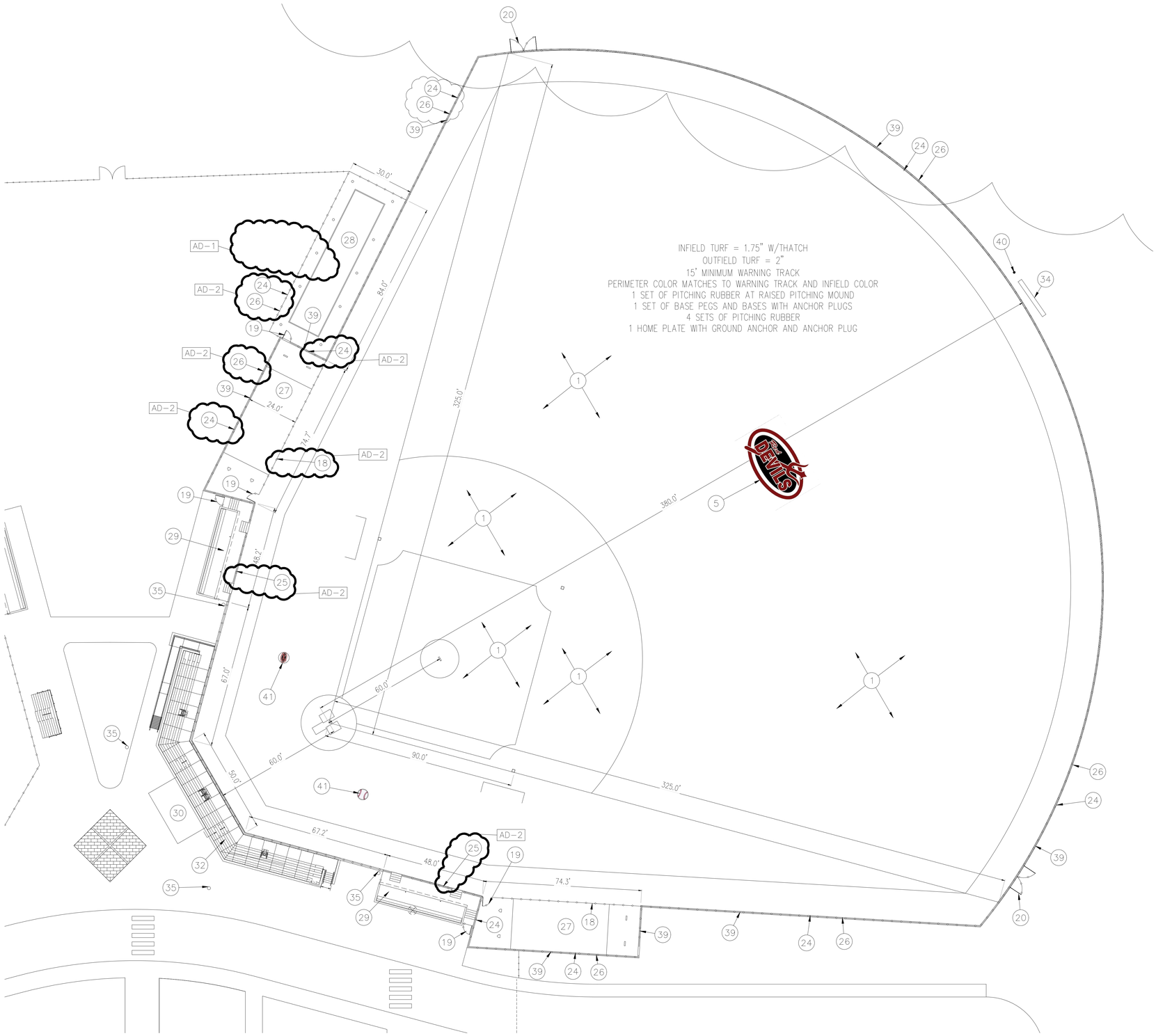
MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2

DRAWING
SOCCER FIELD TURF LAYOUT PLAN

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
C-2.2B

Friday, 9/1/2023 - 3:55 PM - LAST SAVED BY:DBURNS
Y:\23-112 TRI-CREEK SC - LOWELL HS SITE IMPROVEMENTS\2X-XXX DRAWINGS\03 SITE\C-2.2B.DWG



0 10' 20' 40'

SCALE: 1" = 20'

BASEBALL FIELD TURF LAYOUT PLAN

NORTH

GENERAL PLAN NOTES:

A. CONTRACTOR IS TO PROVIDE TOTAL ARTIFICIAL TURF REPLACEMENT COMPLETE, NEW TURF, NEW INFILL, NEW 2X4, PERIMETER TREATED WOOD BLOCKING, AND NEW LOGOS/TEXT AS INDICATED.

B. CONTRACTOR IS TO MATCH ALL EXISTING LINEWORK, PLAYER BOXES, PERIMETER BAND, ETC.

C. CONTRACTOR IS REQUIRED TO MATCH THE EXISTING GRADES TO THE GREATEST DEGREE POSSIBLE.

D. CONTRACTOR IS TO COORDINATE AND PROVIDE FOR SUB-TURF ACCESS TO ANY EXISTING VALVES, HAND-HOLES OR UTILITY BOXES AS REQUIRED.

PLAN NOTES:

1. PROVIDE NEW SYNTHETIC TURF AND SUB-BASE DRAINAGE SYSTEM AS SPECIFIED. AD-2
2. NEW TURF TEXT, TEXT IS "LOWELL", COLOR TO BE CUSTOM RED WITH 6" WHITE BOARDER.
3. NEW TRACK SURFACE ON EXISTING ASPHALT. – PROTECT AS REQUIRED.
4. NEW FOOTBALL GOALPOST REFER TO DETAILS.
5. NEW INLAID TURF –LOGO– OWNER WILL PROVIDE NEW LOGO, REFER TO SPECIFICATIONS.
6. INFILL EXISTING GRASS AREA WITH NEW ASPHALT AND TRACK SURFACE.
7. END LINES AND SIDELINES – CONTINUOUS LINES 6" WIDE TYPICAL ALL OTHER LINES ARE 4" TYPICAL.
8. STOP ALL YARD LINES INSIDE BOUNDARIES 4" FOR EACH SIDE LINE TYPICAL.
9. INBOUNDS LINES SHALL BE 24" LONG, 4" WIDE, TYPICAL. AD-2
10. 6'-0" WIDE BOARDER AROUND FIELD WITH 12'-0" WIDE PLAYERS AREA ON BOTH SIDES OF FIELD. BOARDER AND PLAYERS BOX TO BE CUSTOM RED COLOR. PLAYERS BOX TO HAVE 6" WHITE BOARDER. THE 6' BOARDER IN FRONT OF THE PLAYERS BOX IS TO BE WHITE IN LIEU OF THE CUSTOM RED.
11. YARD LINE NUMBERING TO BE 24" WIDTH AND MINIMUM 4" WIDE LINES FOR EACH NUMBER AND INCLUDE MATCHING DIRECTIONAL ARROW – TYPICAL.
12. PROVIDE CONCRETE CURB ON FOOTBALL FIELD PERIMETER OF TRACK CONDITION AND AT FIELD EVENTS FOR NEW ARTIFICIAL TURF.
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PROJECT 23-112
DATE 08/04/23
COORDINATED BY DTB JPB
DRAWN BY DTB
CHECKED BY DTB JPB

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

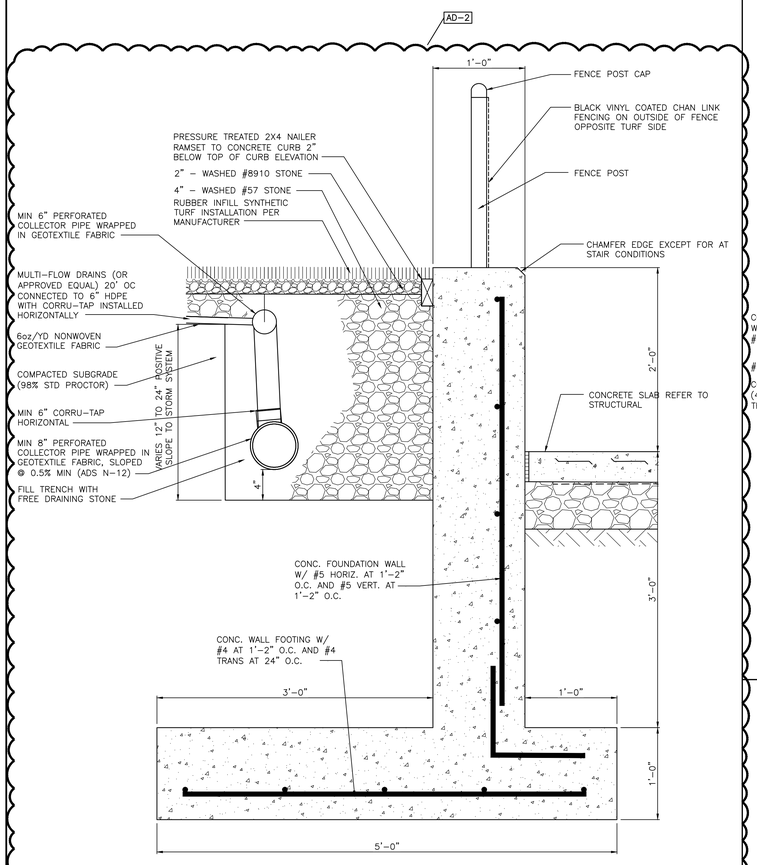
MARK	DATE	ISSUED FOR
AD-1	08/18/23	ADDENDUM NO. 1
AD-2	08/31/23	ADDENDUM NO. 2

DRAWING
BASEBALL FIELD TURF LAYOUT PLAN

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
C-2.2D

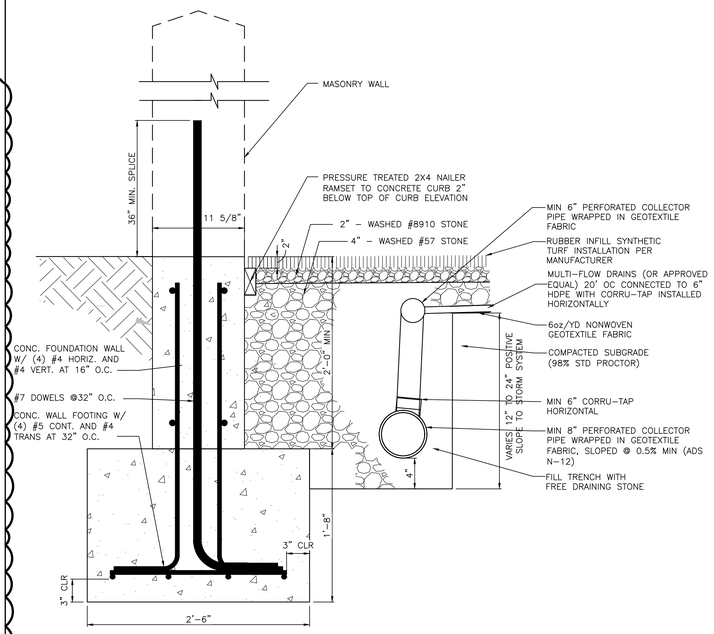
Friday, 9/1/2023 – 1:51 PM – LAST SAVED BY:DBURNS
Y:\23-112 TRI-CREEK SC – LOWELL HS SITE IMPROVEMENTS\2X-XXX DRAWINGS\03 SITE\C-2.2D.DWG



NAILER CURB/RETAINING WALL SECTION AT VARSITY BB & SB DUGOUTS

SCALE: 1 1/2" = 1'-0"

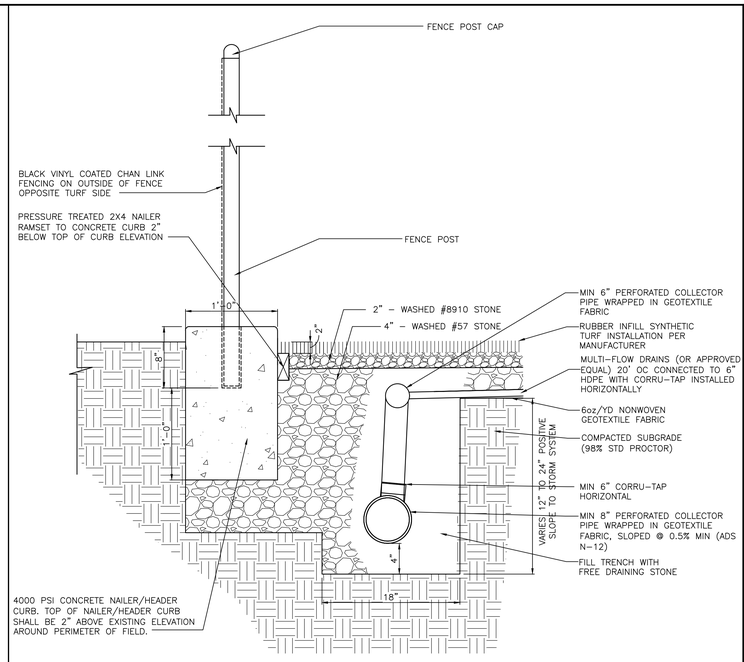
10 / C-5.3



NAILER CURB SECTION AT BB/SB BACKSTOP MASONRY WALL

SCALE: 1 1/2" = 1'-0"

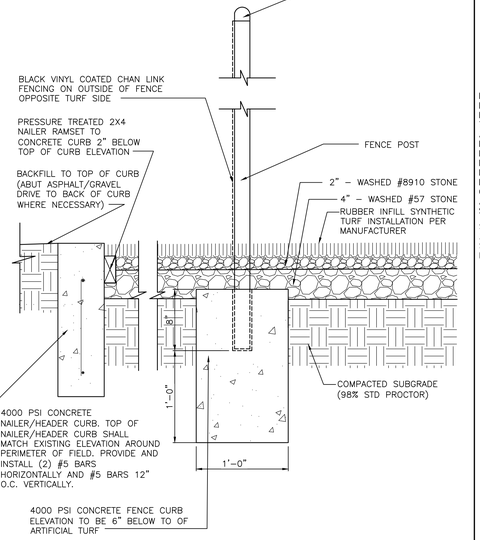
8 / C-5.3



TYPICAL FENCE POST DETAIL

SCALE: 1 1/2" = 1'-0"

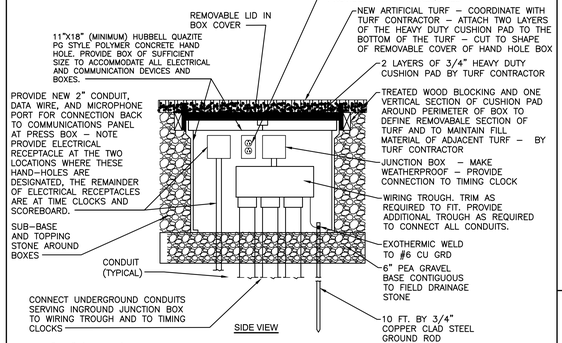
5 / C-5.3



FENCE POST DETAIL AT BULL PEN FENCE

SCALE: 1 1/2" = 1'-0"

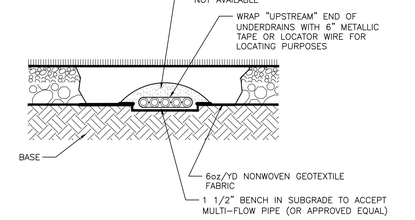
7 / C-5.3



TYPICAL HAND HOLE BOX

SCALE: NTS

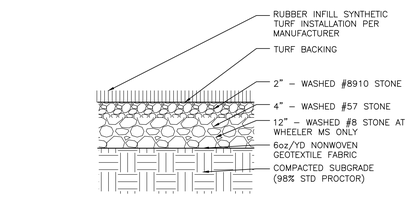
3 / C-5.3



12" MULTI-FLOW PIPE (OR APPROVED EQUAL) HORIZONTAL INSTALLATION (SYNTHETIC TURF)

SCALE: NTS

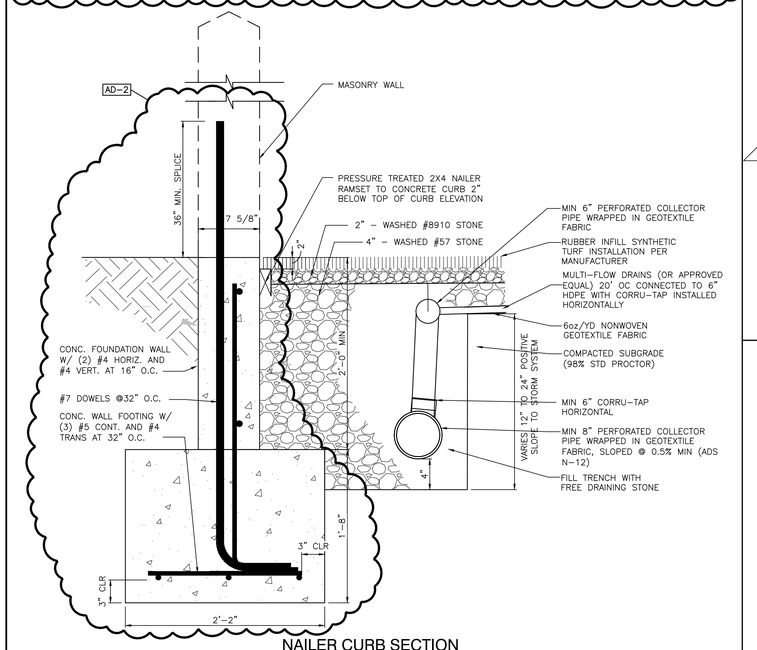
4 / C-5.3



TYPICAL TURF SECTION

SCALE: 1 1/2" = 1'-0"

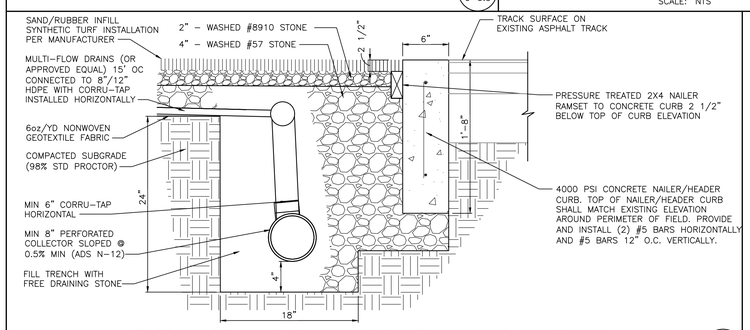
2 / C-5.3



NAILER CURB SECTION AT SOCCER GRANDSTAND MASONRY WALL

SCALE: 1 1/2" = 1'-0"

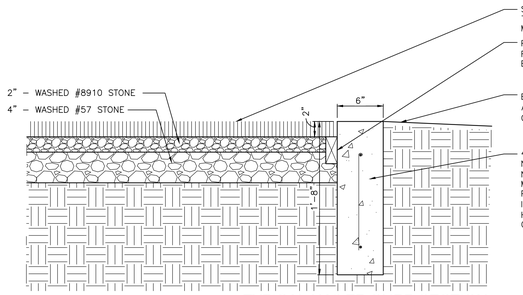
9 / C-5.3



TAFT NAILER CURB SECTION AT FOOTBALL FIELD AND TRACK

SCALE: 1 1/2" = 1'-0"

6 / C-5.3



TYPICAL NAILER CURB SECTION

SCALE: 1 1/2" = 1'-0"

1 / C-5.3

GIBRALTAR DESIGN
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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY DTB JPB
DRAWN BY DTB
CHECKED BY DTB JPB

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2

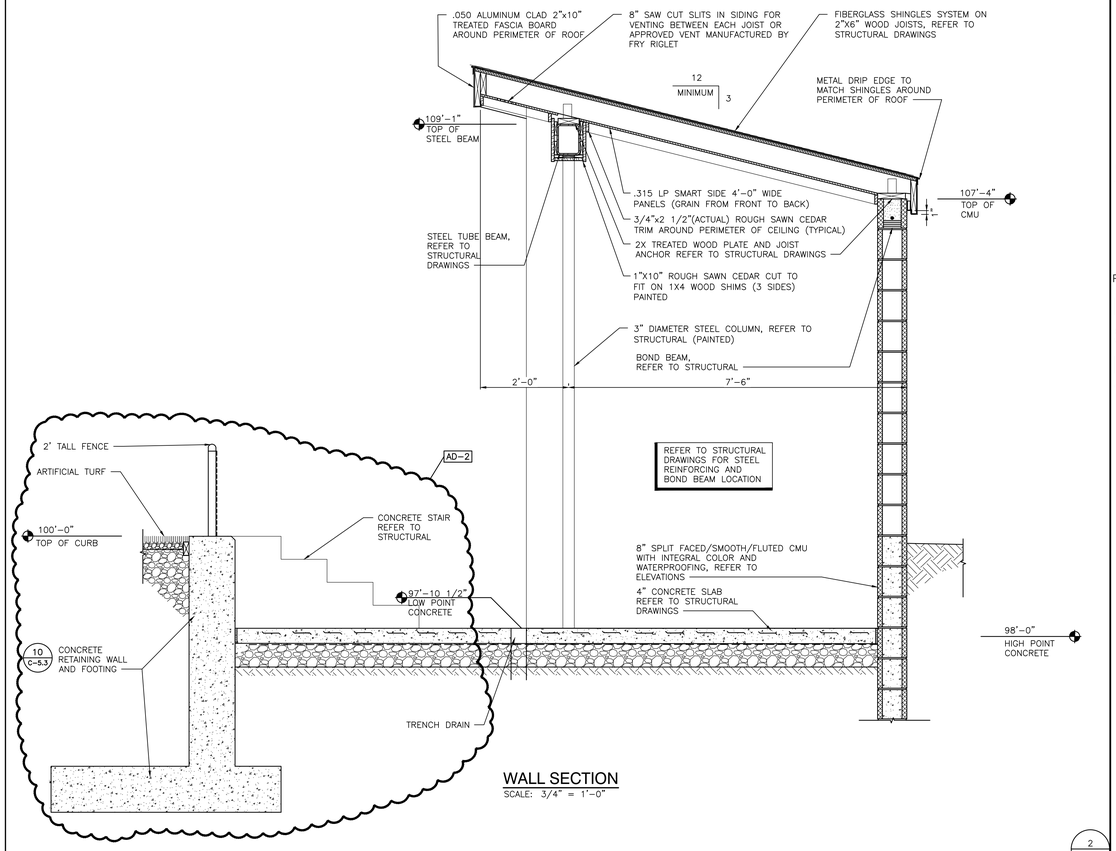
DRAWING

ARTIFICIAL TURF DETAILS

PROJECT

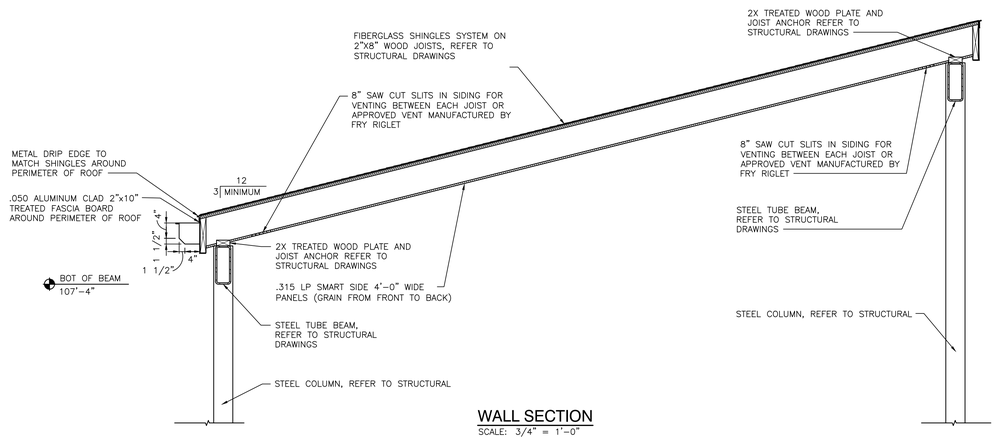
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET C-5.3



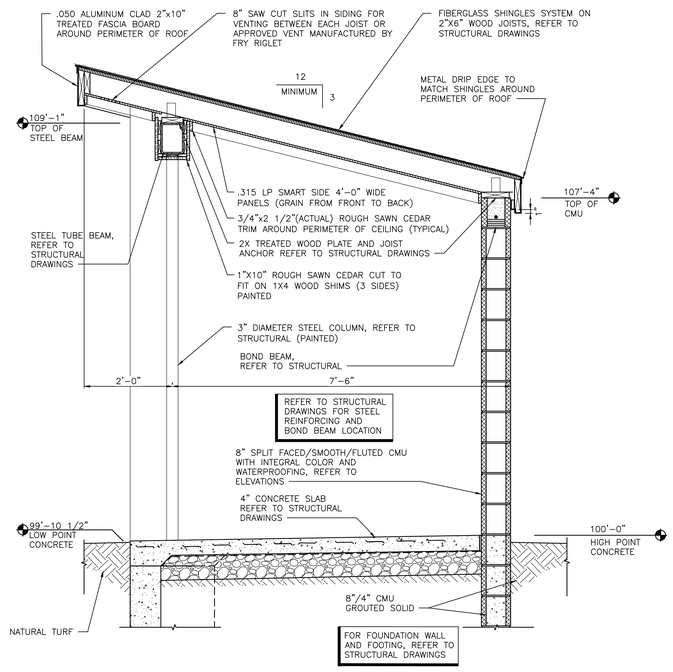
WALL SECTION
SCALE: 3/4" = 1'-0"

2 A-402



WALL SECTION
SCALE: 3/4" = 1'-0"

3 A-402



WALL SECTION
SCALE: 3/4" = 1'-0"

1 A-402

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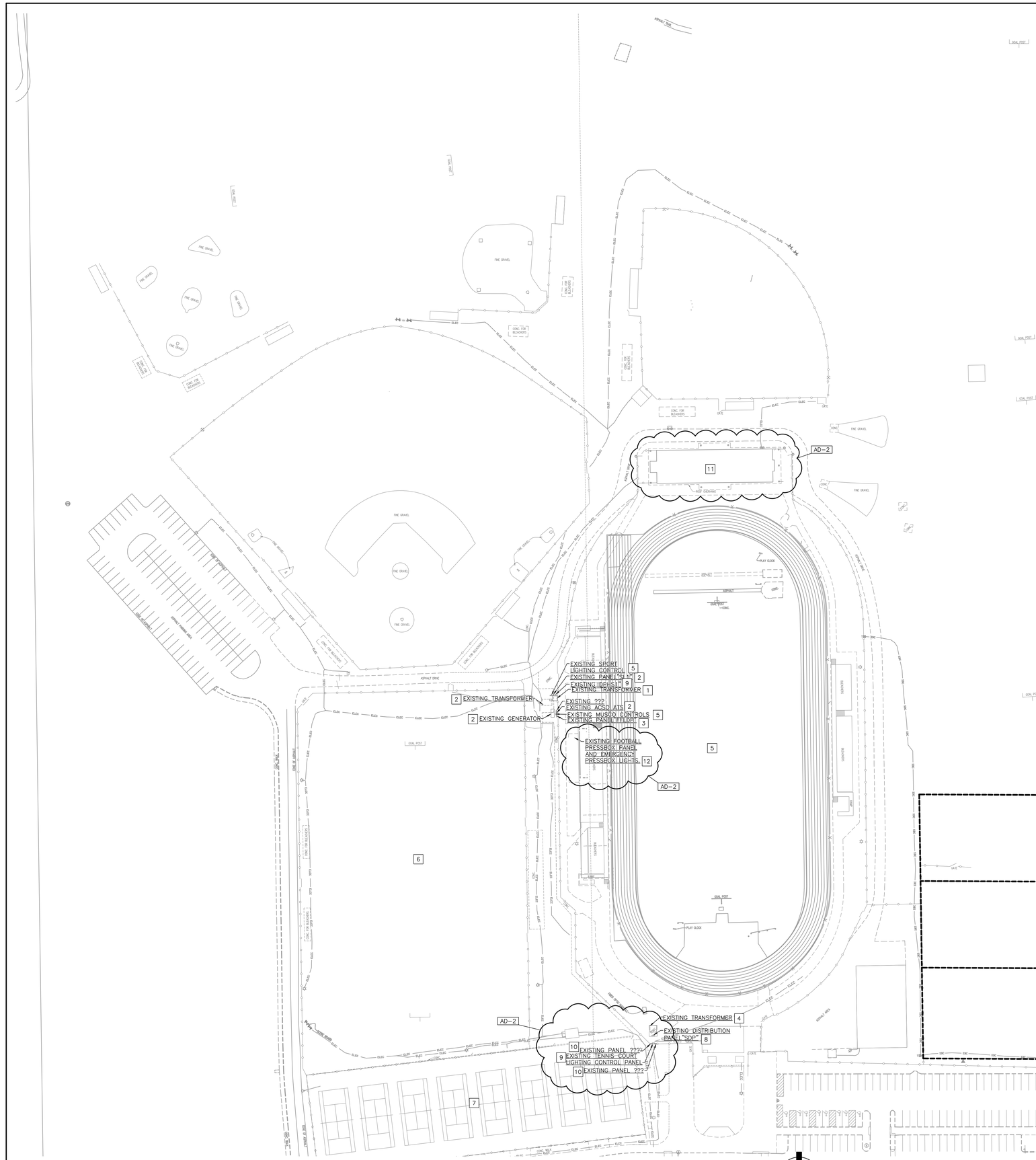
DRAWING
WALL SECTIONS

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
A-402

Friday, 9/1/2023 - 4:37 PM - LAST SAVED BY:DBURNS
Y:\23-112 TRI-CREEK SC - LOWELL HS SITE IMPROVEMENTS\25-XXX DRAWINGS\05 ARCH\A-402.DWG



ELECTRICAL DEMOLITION SITE PLAN

SCALE: 1" = 50'-0"

NORTH

GENERAL NOTES:

1. FOR ADDITIONAL GENERAL ELECTRICAL NOTES, SEE GENERAL ELECTRICAL PROJECT NOTES ON SHEET E-001.
2. SEE E-600 SHEETS FOR ELECTRICAL DETAILS AND SCHEDULES.
3. SEE E-700 SHEETS FOR ELECTRICAL DISTRIBUTION DIAGRAMS.

AD-2

DEMOLITION PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

1. EXISTING PAD MOUNTED TRANSFORMER #4, FOOTBALL FIELD LIGHTING PANEL "FFLDP", ELECTRICAL EQUIPMENT SHALL REMAIN, UNLESS OTHERWISE NOTED.
2. EXISTING EMERGENCY GENERATOR, AUTOMATIC TRANSFER SWITCH AND PANELS SHALL REMAIN, UNLESS OTHERWISE NOTED.
3. REPLACE EXISTING FOOTBALL FIELD PANEL "FFLDP" WITH NEW PANEL "FFLDP".
4. EXISTING PAD MOUNTED TRANSFORMER #3 SHALL BE RELOCATED. SEE SITE PLAN SHEETS ES100 AND ES102. SEE SITE PLAN SHEETS ES100 AND ES102 FOR ADDITIONAL INFORMATION AND FEEDER MODIFICATION INFORMATION.
5. REMOVE EXISTING FOOTBALL FIELD LIGHTING FIXTURES, CROSS ARMS, ETC. AND REMOVE ASSOCIATED FEEDERS BACK TO THE SOURCE, UNLESS OTHERWISE NOTED. EXISTING EMERGENCY LIGHTING FIXTURES, CIRCUITING, ETC. SHALL REMAIN. PREPARE EXISTING FOOTBALL FIELD LIGHTING POLES FOR NEW LIGHTING FIXTURES, CROSS ARMS, CIRCUITING, CONTROLS, ETC. IN ADDITION, REMOVE EXISTING FOOTBALL FIELD LIGHTING CONTROLS AND ALL ASSOCIATED CONDUIT AND WIRE, UNLESS OTHERWISE NOTED.
6. RELOCATE EXISTING SOCCER FIELD LIGHTING POLES AND PREPARE FOR NEW LIGHTING FIXTURES, CROSSARMS, WIRING, ETC. SEE SHEET ES106 FOR NEW LOCATIONS, CIRCUITING AND CONTROLS. REMOVE SOCCER FIELD LIGHTING FIXTURES, CROSSARMS, WIRING, POLE BASES AND CONTROLS. REMOVE ASSOCIATED FEEDERS BACK TO THE SOURCE, UNLESS OTHERWISE NOTED.
7. RELOCATE EXISTING TENNIS COURT LIGHTING POLES AND PREPARE FOR NEW LIGHTING FIXTURES, CROSSARMS, WIRING, ETC. SEE SHEET ES107 FOR NEW LOCATIONS, CIRCUITING AND CONTROLS. REMOVE TENNIS COURT LIGHTING POLE BASES AND CONTROLS. REMOVE ASSOCIATED FEEDERS BACK TO THE SOURCE, UNLESS OTHERWISE NOTED.
8. REMOVE EXISTING DISTRIBUTION PANELBOARD "SDP" AND ASSOCIATED FEEDER FROM EXISTING PAD MOUNTED TRANSFORMER #3. REMOVE EXISTING BRANCH CIRCUIT FEEDERS, INCLUDING FEEDER TO THE EXISTING RED BARN BEING REMOVED. INTERCEPT ANY EXISTING FEEDER SERVING EXISTING EQUIPMENT THAT MAY REMAIN AND EXTEND TO NEW PANEL "SDP".
9. REMOVE TENNIS COURT LIGHTING CONTROLS AND REMOVE ASSOCIATED WIRING.
10. RELOCATE EXISTING PANELBOARDS AND EXTEND ALL BRANCH CIRCUITS SERVING LIGHTS, EQUIPMENT, ETC THAT REMAINS TO THE RELOCATED PANELS.
11. REMOVE EXISTING FEEDER TO THE EXISTING INCOMING ELECTRICAL SERVICE PANELBOARD IN THE NORTH STAR BUILDING, UNLESS OTHERWISE NOTED.
12. DISCONNECT ELECTRICAL SERVICE TO THE EXISTING FOOTBALL FIELD PRESSBOX BEING REMOVED AND REMOVE EXISTING FEEDER BACK TO THE SOURCE. INTERCEPT EXISTING EMERGENCY LIGHTING CIRCUIT SERVING THE EXISTING FOOTBALL FIELD PRESSBOX AND EXTEND TO THE NEW FOOTBALL FIELD PRESSBOX.

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DATE 08/04/23
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JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

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MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2

DRAWING

ELECTRICAL DEMOLITION SITE PLAN

PROJECT

LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET

ES101

Thursday, 8/31/2023 - 3:00 PM - LAST SAVED BY:JCHAMBERS
Y:\23-112 TRI-CREEK SC - LOWELL HS SITE IMPROVEMENTS\2X-XXX DRAWINGS\09 ELEC\ES101.DWG

SITE PLAN NOTES - GENERAL

1. ALL WORK SHOWN ON THIS SHEET IS NEW AND BY THE ELECTRICAL TRADES, UNLESS OTHERWISE INDICATED.
2. COORDINATE LOCATIONS OF UNDERGROUND CONDUITS, HANDHOLES AND MANHOLES WITH OTHER SITE UTILITIES, UNDERGROUND DRAINS, SERVICES, STRUCTURES AND FINAL GRADING.
3. NOT ALL UTILITIES HAVE BEEN SHOWN. VERIFY LOCATIONS AND ROUTING OF ALL NEW AND EXISTING UTILITIES PRIOR TO ANY NEW WORK.
4. FOR ADDITIONAL GENERAL ELECTRICAL NOTES, SEE GENERAL ELECTRICAL PROJECT NOTES ON SHEET E-001.
5. SEE E-600 SHEETS FOR ELECTRICAL DETAILS AND SCHEDULES.
6. SEE E-700 SHEETS FOR ELECTRICAL DISTRIBUTION DIAGRAMS.

ELECTRICAL SITE PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

(1) PROVIDE THE APPROPRIATE GALVANIZED STRUCTURAL STEEL CHANNELS SUPPORT FOR THE ELECTRICAL EQUIPMENT SHOWN. VERIFY EXACT LOCATION OF ALL EQUIPMENT WITH ARCHITECT AND CONSTRUCTION MANAGER PRIOR TO ROUGHING-IN.

SEE SHEET ES104 FOR ENLARGED PLAN OF BASEBALL FIELD AREA

PANELS "BBH1" AND "BBL1", LIGHTING RELAYS, TIMECLOCK AND XFMR FOR PRESS BOX AND BASEBALL FIELD LIGHTING AND PARKING LOT LIGHTING

FEEDER FOR PANEL "BBH1" – SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER SIZES

PULL BOX FOR FEEDER TO PANEL "TBL3"

AD-2

FEEDER FOR PANEL "SFH1" – SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER SIZES

PANEL "NSH1")

PULL BOX FOR FEEDER TO NORTH STAR BUILDING

FEEDER FOR FUTURE PANEL "NSH1" – SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER SIZES

PANEL "TBL3"

SEE SHEET ES110 FOR NEW PARKING LOT LIGHTING

SEE SHEET ES106 FOR ENLARGED PLAN OF SOCCER FIELD AREA

PANELS "MSH1" AND "MSL1" AND XFMR FOR MAINTENANCE STORAGE BUILDING

PANELS "SFH1" AND "SFL1" AND XFMR FOR PRESS BOX AND SOCCER FIELD LIGHTING

FEEDER FOR PANEL "SFH1" – SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER SIZES

EXISTING SPORT LIGHTING CONTROL

EXISTING PANEL "SL1"

NEW PANEL "DPHS1"

EXISTING TRANSFORMER

EXISTING TRANSFORMER #4

EXISTING ???

EXISTING ASSOCIATS

EXISTING WARCO CONTROLS

NEW PANEL "FLDP"

EXISTING GENERATOR

SEE SHEET ES103 FOR ENLARGED PLAN OF FOOTBALL FIELD AREA

SEE SHEET ES105 FOR ENLARGED PLAN OF SOFTBALL FIELD AREA

PULL BOX FOR FEEDER TO PANEL "TCH1"

RELOCATED TRANSFORMER #3

FEEDER TO PANEL "SBH1" SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER INFORMATION

NEW PANEL "SDP" AND RELOCATED PANELBOARDS

FEEDER TO PANEL "CBH1" SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER INFORMATION

PANELS "CBH1" AND "CBL1" AND TRANSFORMERS

PANELS "SBH1" AND "SBL1" AND XFMR FOR PRESS BOX AND SOFTBALL FIELD LIGHTING

SEE SHEET ES107 FOR ENLARGED PLAN OF TENNIS COURT AREA

PANELS "TCH1" AND "TCL1" AND XFMR FOR TENNIS COURT PLATFORM AND TENNIS COURT LIGHTING

PANELS "SLH1", SITE LIGHTING RELAYS AND TIMECLOCKS

AD-2

PULL BOX FOR FEEDER TO PANELS "TBL1"/"TBL2"

PANEL "TBL1"

PANEL "TBL1"

PULL BOX FOR FEEDER TO PANEL "SBH1"

FEEDER TO PANEL "SBH1" SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER INFORMATION

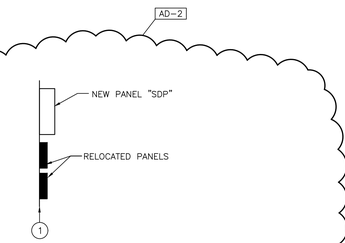
FEEDER TO PANEL "TBL2" SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER INFORMATION

PULL BOX FOR FEEDER TO PANEL "SBH1"

LOT 19 LOT 20 LOT 21 LOT 22 LOT 23 LOT 24

ELECTRICAL SITE PLAN

SCALE: 1" = 50'-0"



ENLARGED PLAN OF ELECTRICAL EQUIPMENT NEAR RELOCATED TRANSFORMER #3

SCALE: 1/4" = 1'-0"

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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

PROJECT 23-112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB JVC
CHECKED BY JPB

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

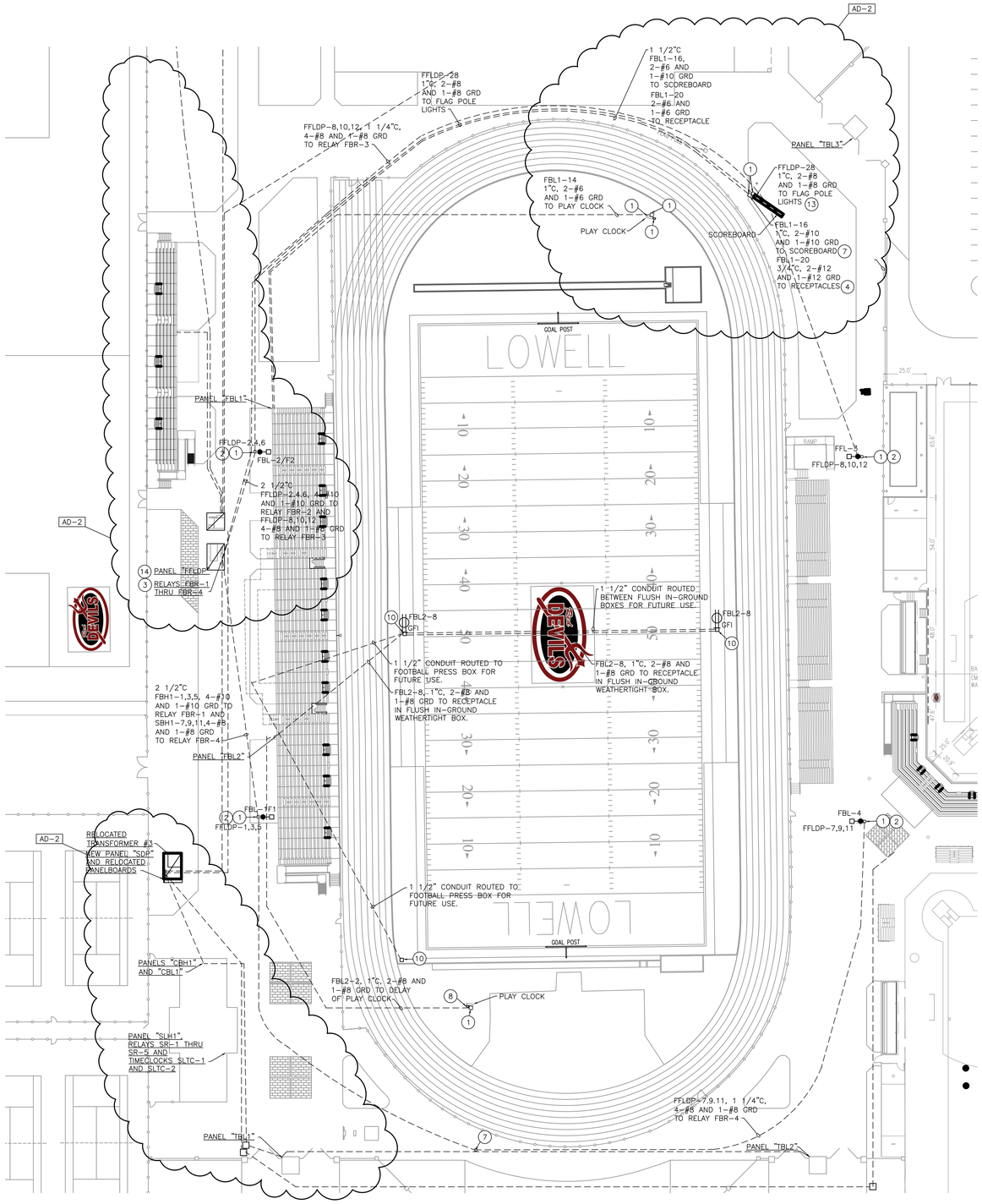
REVISIONS

MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2

DRAWING
ELECTRICAL SITE PLAN

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
ES102



ENLARGED ELECTRICAL PLAN OF FOOTBALL FIELD

SCALE: 1" = 30'-0"

SITE PLAN NOTES - GENERAL

1. ALL WORK SHOWN ON THIS SHEET IS NEW AND BY THE ELECTRICAL TRADES, UNLESS OTHERWISE INDICATED.
2. RELOCATE OR REMOVE ANY OR ALL EXISTING SERVICES, POLES, ETC., AS MAY BE REQUIRED TO ACCOMMODATE NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED.
3. COORDINATE WITH DUKE ENERGY AND ALL FEES AND OTHER COSTS NOT BORNE BY THE POWER COMPANY TO PROVIDE ADDITIONAL WORK THAT IS NOT SHOWN ON THE DRAWINGS OR ADDRESSED IN THE SPECIFICATIONS TO PROVIDE THE NEW INCOMING PRIMARY ELECTRICAL SERVICES NOTED WILL BE COVERED AN ALLOWANCE.
4. COORDINATE LOCATIONS OF UNDERGROUND CONDUITS, HANDHOLES AND MANHOLES WITH OTHER SITE UTILITIES, UNDERGROUND DRAINS, SERVICES, STRUCTURES AND FINAL GRADING.
5. NOT ALL UTILITIES HAVE BEEN SHOWN. VERIFY LOCATIONS AND ROUTING OF ALL NEW AND EXISTING UTILITIES PRIOR TO ANY NEW WORK.
6. FOR ADDITIONAL GENERAL ELECTRICAL NOTES, SEE GENERAL ELECTRICAL PROJECT NOTES ON SHEET E-001.
7. SEE E-600 SHEETS FOR ELECTRICAL DETAILS AND SCHEDULES.
8. SEE E-700 SHEETS FOR ELECTRICAL DISTRIBUTION DIAGRAMS.

ELECTRICAL SITE PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

(1) FLUSH IN-GROUND JUNCTION BOX.

(2) EXISTING FOOTBALL LIGHTING POLE AND EXISTING EMERGENCY LIGHTING FIXTURES SHALL REMAIN. MODIFY EXISTING FOOTBALL LIGHTING POLE AS NECESSARY TO PROVIDE THE NEW FOOTBALL FIELD LIGHTS, CROSSARMS, WIRING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL LIGHTING SYSTEM. CONNECT NEW FOOTBALL LIGHTS TO THE NEW FOOTBALL FIELD LIGHTING CONTROLS WITH THE NEW CIRCUITS INDICATED.

(3) REMOVE THE EXISTING CONTROLS AND ALL ASSOCIATED WIRING. PROVIDE NEW FOOTBALL FIELD LIGHTING CONTROLS AS SHOWN.

(4) PROVIDE A GFI TYPE DUPLEX RECEPTACLE WITH "WEATHERPROOF-IN-USE" COVER AT THE BASE OF THE FOOTBALL SCOREBOARD AND CONNECT TO CIRCUIT INDICATED.

(5) FLUSH IN-GROUND PULL BOX.

(6) PROVIDE A 1P-30 AMP NEMA 3R DISCONNECT FOR THE SCOREBOARD CONNECT IT TO THE SCOREBOARD AND CIRCUIT INDICATED (FBL1-6) VERIFY EXACT REQUIREMENTS WITH ARCHITECT AND SCOREBOARD INSTALLER/ SUPPLIER PRIOR TO ROUGHING IN OR PROVIDING ANY CONDUITS AND WIRES. PROVIDE A GROUND ROD AND THE APPROPRIATE GROUNDING FOR SCOREBOARD.

(7) PROVIDE A 1P-30 AMP NEMA 3R DISCONNECT FOR THE GAME CLOCK AND CONNECT TO CIRCUIT INDICATED (FBL1-6). VERIFY EXACT REQUIREMENTS WITH ARCHITECT AND DELAY-OF-GAME TIMER INSTALLER/ SUPPLIER PRIOR TO ROUGHING IN OR PROVIDING ANY CONDUITS AND WIRES. PROVIDE A GROUND ROD AND THE APPROPRIATE GROUNDING FOR DELAY-OF-GAME TIMER.

(8) PROVIDE A 1P-30 AMP NEMA 3R DISCONNECT FOR THE GAME CLOCK AND CONNECT TO CIRCUIT INDICATED (FBL2-6). VERIFY EXACT REQUIREMENTS WITH ARCHITECT AND DELAY-OF-GAME TIMER INSTALLER/ SUPPLIER PRIOR TO ROUGHING IN OR PROVIDING ANY CONDUITS AND WIRES. PROVIDE A GROUND ROD AND THE APPROPRIATE GROUNDING FOR DELAY-OF-GAME TIMER.

(9) PROVIDE THE APPROPRIATE GALVANIZED STRUCTURAL STEEL CHANNEL SUPPORTS AND CONCRETE PAD FOR THE NEW PANELBOARDS, DISCONNECTS AND TRANSFORMERS LOCATED NEAR THE FOOTBALL FIELD BLEACHERS. VERIFY EXACT LOCATION WITH THE ARCHITECT AND OWNER PRIOR TO ROUGHING-IN.

(10) PROVIDE A FLUSH IN-GROUND BOX FOR POWER, COMMUNICATIONS AND TECHNOLOGY DEVICES AND EQUIPMENT. SEE DETAIL ON SHEET E-501.

(11) PROVIDE A DUPLEX POWER RECEPTACLE IN THE FLUSH IN-GROUND WEATHERTIGHT BOX.

(12) PROVIDE A 1 1/2" CONDUIT AND A 1" CONDUIT ROUTED FROM THE IN-GROUND WEATHERTIGHT BOX TO THE FOOTBALL PRESS BOX FOR FUTURE USE.

(13) TYPE SL-1 LIGHTING FIXTURE MOUNTED ON TOP OF SCOREBOARD FRAME TO ILLUMINATE THE FLAG.

(14) REPLACE EXISTING PANEL "FFLDP" WITH NEW PANEL "FFLDP" WITH NEW PANEL "FFLDP". INTERCEPT EXISTING CIRCUITS SERVING EQUIPMENT THAT REMAIN AND EXTEND TO NEW PANEL "FFLDP".

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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB JVC
CHECKED BY JPB

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

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AD-2	08/31/23	ADDENDUM NO. 2

DRAWING
ENLARGED ELECTRICAL PLAN OF FOOTBALL FIELD

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
ES103

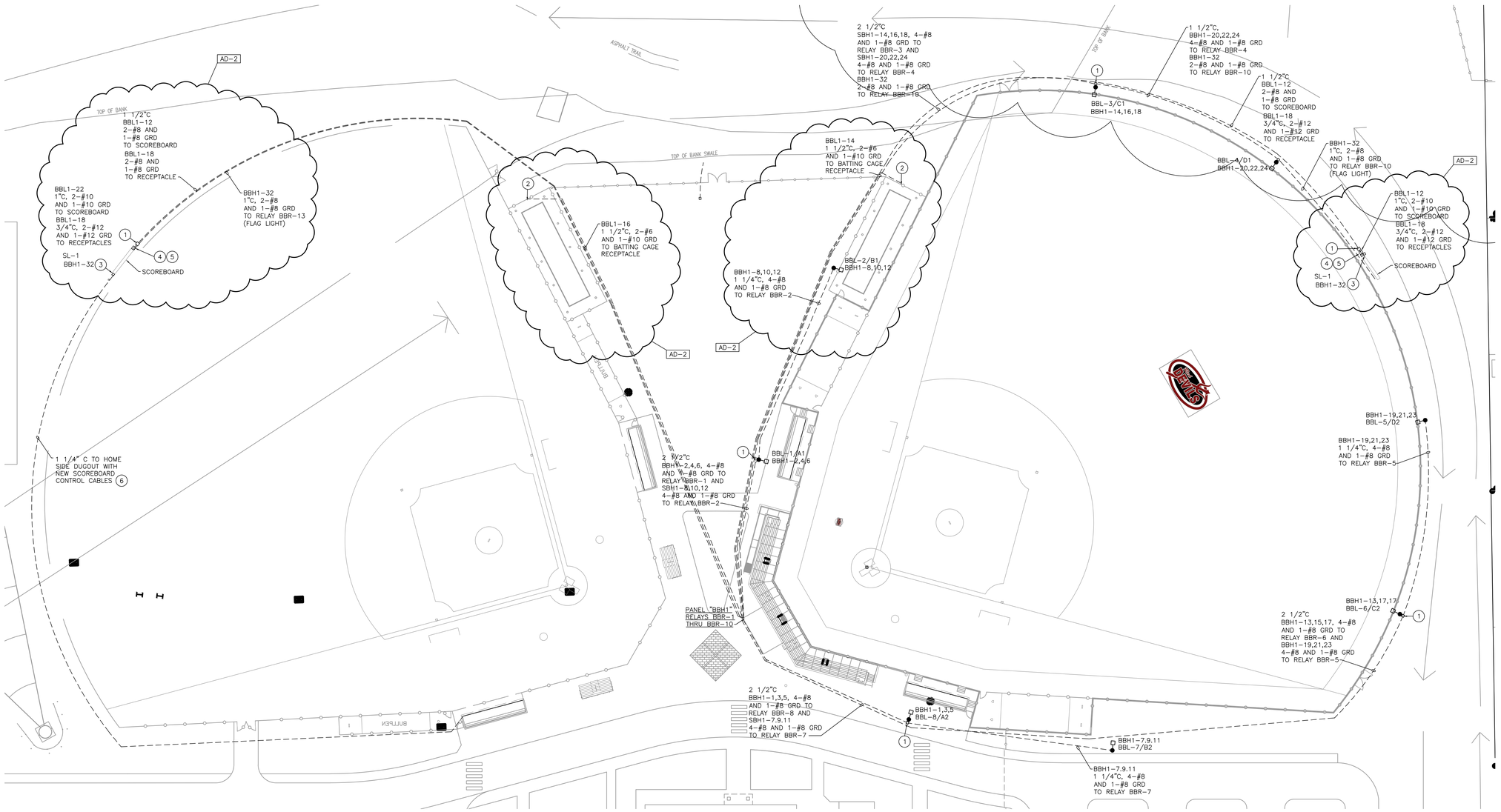
ELECTRICAL SITE PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

1. FLUSH IN-GROUND JUNCTION BOX.
2. PEDOC (1P18HT SERIES)18" HIGH PEDESTAL WITH BASE, HINGED TOP (WEATHERPROOF-IN-USE) AND WEATHERPROOF 20 AMP GFI TYPE RECEPTACLE. VERIFY EXACT LOCATION WITH OWNER, ARCHITECT AND CONSTRUCTION MANAGER PRIOR TO ROUGHING-IN.
3. TYPE SL-1 LIGHTING FIXTURE MOUNTED ON TOP OF SCOREBOARD FRAME TO ILLUMINATE THE FLAG.
4. PROVIDE A 3P-30 AMP WEATHERPROOF DISCONNECT AND CONNECT CIRCUIT INDICATED TO THE SCOREBOARD.
5. PROVIDE A GFI TYPE DUPLEX RECEPTACLE WITH "WEATHERPROOF-IN-USE" COVER AT THE BASE OF THE FOOTBALL SCOREBOARD AND CONNECT TO CIRCUIT INDICATED.
6. 1 1/4"C WITH SCOREBOARD CONTROL CABLES ROUTED TO HOME TEAM DUGOUT. VERIFY WITH SCOREBOARD MANUFACTURER AND OWNER THE TYPE OF CABLE AND ELECTRICAL REQUIREMENTS REQUIRED BEFORE ROUGHING-IN.

SITE PLAN NOTES - GENERAL

1. ALL WORK SHOWN ON THIS SHEET IS NEW AND BY THE ELECTRICAL TRADES, UNLESS OTHERWISE INDICATED.
2. COORDINATE LOCATIONS OF UNDERGROUND CONDUITS, HANDHOLES AND MANHOLES WITH OTHER SITE UTILITIES, UNDERGROUND DRAINS, SERVICES, STRUCTURES AND FINAL GRADING.
3. NOT ALL UTILITIES HAVE BEEN SHOWN. VERIFY LOCATIONS AND ROUTING OF ALL NEW AND EXISTING UTILITIES PRIOR TO ANY NEW WORK.
4. FOR ADDITIONAL GENERAL ELECTRICAL NOTES, SEE GENERAL ELECTRICAL PROJECT NOTES ON SHEET E-001.
5. SEE E-600 SHEETS FOR ELECTRICAL DETAILS AND SCHEDULES.
6. SEE E-700 SHEETS FOR ELECTRICAL DISTRIBUTION DIAGRAMS.
7. COORDINATE EXACT SPORT LIGHTING POLE LOCATIONS WITH SPORTS LIGHTING CONTRACTOR, CONSTRUCTION MANAGER AND ALL UNDERGROUND UTILITIES PRIOR TO ROUGHING-IN. SEE CIVIL DRAWINGS.



ENLARGED ELECTRICAL PLAN OF BASEBALL FIELDS

SCALE: 1" = 30'-0"

NORTH

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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB JVC
CHECKED BY JPB

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

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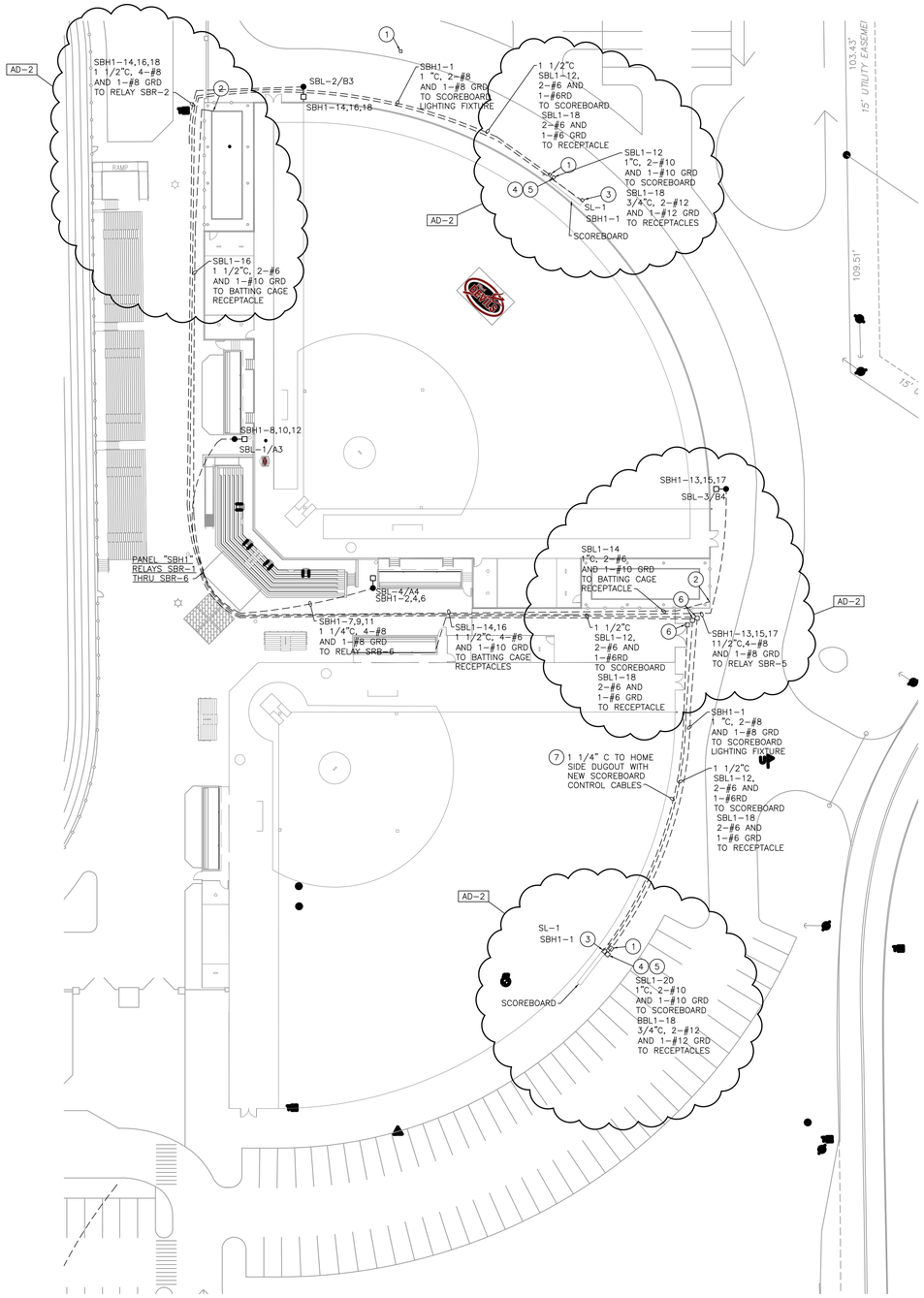
AD-2	08/31/23	ADDENDUM NO. 2

DRAWING
ENLARGED ELECTRICAL PLAN OF BASEBALL FIELDS

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
ES104

Thursday, 8/31/2023 - 3:00 PM - LAST SAVED BY:JCHAMBERS
Y:\23-112 TRI-CREEK SC - LOWELL HS SITE IMPROVEMENTS\23<->XXX DRAWINGS\09 ELEC\ES104.DWG



ENLARGED ELECTRICAL PLAN OF SOFTBALL FIELDS

SCALE: 1" = 30'-0"

SITE PLAN NOTES - GENERAL

1. ALL WORK SHOWN ON THIS SHEET IS NEW AND BY THE ELECTRICAL TRADES, UNLESS OTHERWISE INDICATED.
2. COORDINATE LOCATIONS OF UNDERGROUND CONDUITS, HANDHOLES AND MANHOLES WITH OTHER SITE UTILITIES, UNDERGROUND DRAINS, SERVICES, STRUCTURES AND FINAL GRADING.
3. NOT ALL UTILITIES HAVE BEEN SHOWN. VERIFY LOCATIONS AND ROUTING OF ALL NEW AND EXISTING UTILITIES PRIOR TO ANY NEW WORK.
4. FOR ADDITIONAL GENERAL ELECTRICAL NOTES, SEE GENERAL ELECTRICAL PROJECT NOTES ON SHEET E-001.
5. SEE E-600 SHEETS FOR ELECTRICAL DETAILS AND SCHEDULES.
6. SEE E-700 SHEETS FOR ELECTRICAL DISTRIBUTION DIAGRAMS.
7. COORDINATE EXACT SPORT LIGHTING POLE LOCATIONS WITH SPORTS LIGHTING CONTRACTOR, CONSTRUCTION MANAGER AND ALL UNDERGROUND UTILITIES PRIOR TO ROUGHING-IN. SEE CIVIL DRAWINGS.

ELECTRICAL SITE PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

1. FLUSH IN-GROUND JUNCTION BOX.
2. PEDOC (1P18HT SERIES)18" HIGH PEDESTAL WITH BASE, HINGED TOP (WEATHERPROOF-IN-USE) AND WEATHERPROOF 20 AMP GFI TYPE RECEPTACLE. VERIFY EXACT LOCATION WITH OWNER, ARCHITECT AND CONSTRUCTION MANAGER PRIOR TO ROUGHING-IN.
3. TYPE SL-1 LIGHTIG FIXTURE MOUNTED ON TOP OF SCOREBOARD FRAME TO ILLUMINATE THE FLAG.
4. PROVIDE A 3P-30 AMP WEATHERPROOF DISCONNECT AND CONNECT CIRCUIT INDICATED TO THE SCOREBOARD.
5. PROVIDE A GFI TYPE DUPLEX RECEPTACLE WITH "WEATHERPROOF-IN-USE" COVER AT THE BASE OF THE FOOTBALL SCOREBOARD AND CONNECT TO CIRCUIT INDICATED.
6. FLUSH IN-GROUND PULL BOX.
7. 1 1/4"C WITH SCOREBOARD CONTROL CABLES ROUTED TO HOME TEAM DUGOUT. VERIFY WITH SCOREBOARD MANUFACTURER AND OWNER THE TYPE OF CABLE AND ELECTRICAL REQUIREMENTS REQUIRED BEFORE ROUGHING-IN.

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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

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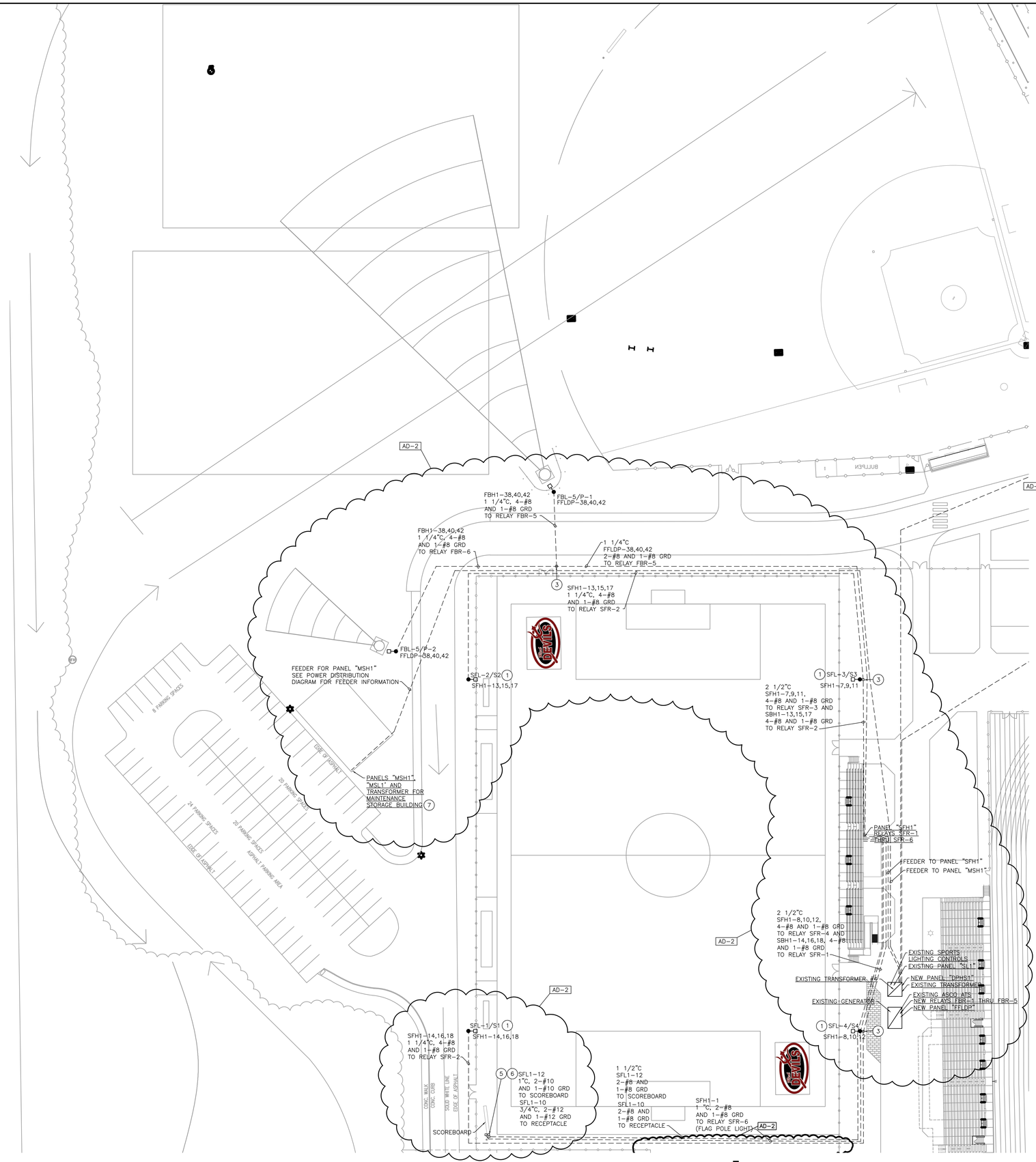
DRAWING
ENLARGED ELECTRICAL PLAN OF SOFTBALL FIELDS

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
ES105

Thursday, 8/31/2023 - 3:00 PM - LAST SAVED BY:JCHAMBERS
Y:\23-112 TRI-CREEK SC - LOWELL HS SITE IMPROVEMENTS\2X-XXX DRAWINGS\09 ELEC\ES105.DWG



ENLARGED ELECTRICAL PLAN OF SOCCER FIELD

SCALE: 1" = 30'-0"

SITE PLAN NOTES - GENERAL

1. ALL WORK SHOWN ON THIS SHEET IS NEW AND BY THE ELECTRICAL TRADES, UNLESS OTHERWISE INDICATED.
2. COORDINATE LOCATIONS OF UNDERGROUND CONDUITS, HANDHOLES AND MANHOLES WITH OTHER SITE UTILITIES, UNDERGROUND DRAINS, SERVICES, STRUCTURES AND FINAL GRADING.
3. NOT ALL UTILITIES HAVE BEEN SHOWN. VERIFY LOCATIONS AND ROUTING OF ALL NEW AND EXISTING UTILITIES PRIOR TO ANY NEW WORK.
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5. SEE E-600 SHEETS FOR ELECTRICAL DETAILS AND SCHEDULES.
6. SEE E-700 SHEETS FOR ELECTRICAL DISTRIBUTION DIAGRAMS.
7. COORDINATE EXACT SPORT LIGHTING POLE LOCATIONS WITH SPORTS LIGHTING CONTRACTOR, CONSTRUCTION MANAGER AND ALL UNDERGROUND UTILITIES PRIOR TO ROUGHING-IN. SEE CIVIL DRAWINGS.

ELECTRICAL SITE PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

1. RELOCATED SOCCER FIELD LIGHTING POLE WITH NEW LIGHTING FIXTURES, CROSS ARMS, WIRING AND POLES. PROVIDE NEW CONCRETE BASES FOR THE RELOCATED SOCCER FIELD LIGHTING POLES. CONNECT NEW LIGHTING FIXTURES TO NEW CIRCUITS AND CONTROLS AS SHOWN.
2. PROVIDE NEW PANELS "SFH1" AND "SFL1", TRANSFORMER AND SOCCER FIELD LIGHTING CONTROL RELAY CABINET "SFRC1".
3. FLUSH IN-GROUND JUNCTION BOX.
4. TYPE SL-1 LIGHTIG FIXTURE MOUNTED ON TOP OF SCOREBOARD FRAME TO ILLUMINATE THE FLAG.
5. PROVIDE A 3P-30 AMP WEATHERPROOF DISCONNECT AND CONNECT CIRCUIT INDICATED TO THE SCOREBOARD.
6. PROVIDE A GFI TYPE DUPLEX RECEPTACLE WITH "WEATHERPROOF-IN-USE" COVER AT THE BASE OF THE FOOTBALL SCOREBOARD AND CONNECT TO CIRCUIT INDICATED.
7. VERIFY EXACT LOCATION WITH THE ARCHITECT AND CONSTRUCTION MANAGER PRIOR TO ROUGH-IN. AD-2

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PROJECT
23-112
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COORDINATED BY
PCB
DRAWN BY
PCB JVC
CHECKED BY
JPB

JOSEPH P. BRIGGS
REGISTERED
NO.
11600109
STATE OF
INDIANA
ARCHITECT

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DRAWING
ENLARGED ELECTRICAL PLAN OF SOCCER FIELD

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
ES106

Thursday, 8/31/2023 - 3:01 PM - LAST SAVED BY:JCHAMBERS
Y:\23-112 TRI-CREEK SC - LOWELL HS SITE IMPROVEMENTS\2X-XXX DRAWINGS\09 ELEC\ES106.DWG

SITE PLAN NOTES - GENERAL

1. ALL WORK SHOWN ON THIS SHEET IS NEW AND BY THE ELECTRICAL TRADES, UNLESS OTHERWISE INDICATED.
2. RELOCATE OR REMOVE ANY OR ALL EXISTING SERVICES, POLES, ETC., AS MAY BE REQUIRED TO ACCOMMODATE NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED.
3. COORDINATE WITH DUKE ENERGY AND ALL FEES AND OTHER COSTS NOT BORNE BY THE POWER COMPANY TO PROVIDE ADDITIONAL WORK THAT IS NOT SHOWN ON THE DRAWINGS OR ADDRESSED IN THE SPECIFICATIONS TO PROVIDE THE NEW INCOMING PRIMARY ELECTRICAL SERVICES NOTED WILL BE COVERED AN ALLOWANCE.
4. COORDINATE LOCATIONS OF UNDERGROUND CONDUITS, HANDHOLES AND MANHOLES WITH OTHER SITE UTILITIES, UNDERGROUND DRAINS, SERVICES, STRUCTURES AND FINAL GRADING.
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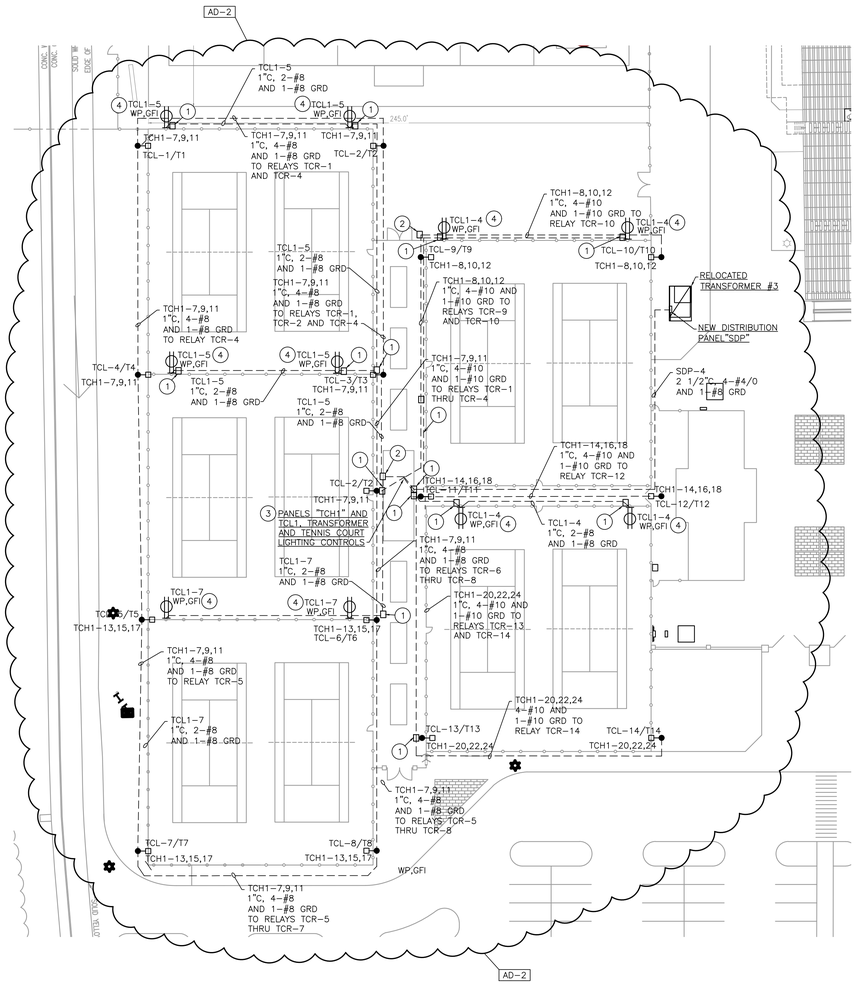
7. SEE E-600 SHEETS FOR ELECTRICAL DETAILS AND SCHEDULES.
8. SEE E-700 SHEETS FOR ELECTRICAL DISTRIBUTION DIAGRAMS.
9. COORDINATE EXACT SPORT LIGHTING POLE LOCATIONS WITH ARCHITECT AND UNDERGROUND UTILITIES. SEE CIVIL DRAWINGS.

ELECTRICAL SITE PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

(1) FLUSH IN-GROUND JUNCTION BOX.
(2) FLUSH IN-GROUND PULL BOX.
(3) PROVIDE THE APPROPRIATE GALVANIZED STRUCTURAL STEEL CHANNEL SUPPORTS FOR THE ELECTRICAL PANELS, DISCONNECTS, TRNASFORMERS, LIGHTING RELAY PANELS, TIMECLOCKS, ETC.
(4) VERIFY EXACT LOCATION OF RECEPTACLES FOR THE BALL MACHINES WITH THE OWNER AND CONSTRUCTION MANAGER PRIOR TO ROUGHING-IN.



ENLARGED ELECTRICAL PLAN OF TENNIS COURTS

SCALE: 1" = 30'-0"

NORTH

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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB JVC
CHECKED BY JPB

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

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AD-2	08/31/23	ADDENDUM NO. 2

DRAWING
ENLARGED ELECTRICAL PLAN OF TENNIS COURTS

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
ES107

GENERAL NOTES

1. SITE SHALL BE PROVIDED WITH HANDHOLES AS REQUIRED.
2. VERIFY NEW AND EXISTING SITE CONDITIONS IN FIELD, AND WITH NEW SITE PLANS. MODIFY CONDUIT ROUTING AS REQUIRED.
3. REFER TO TRENCH DETAIL FOR UNDERGROUND CONDUIT INSTALLATION REQUIREMENTS.
4. REFER TO TECHNOLOGY PLANS FOR ADDITIONAL RACEWAY REQUIREMENTS.

EXISTING TRANSFORMER 'T4' TO REMAIN

EXISTING (2) 5"C. PRIMARY FEEDERS TO REMAIN

EXISTING (2) 5"C. PRIMARY FEEDER CONDUCTORS AND RACEWAYS TO BE REMOVED AD-2

EXISTING TRANSFORMER 'T3' TO BE RELOCATED

EXISTING ELECTRICAL QUAZITE BOX TO BE REMOVED

EXISTING (2) 5"C. PRIMARY FEEDER CONDUCTORS AND RACEWAYS TO BE REMOVED AD-2

APPROXIMATE LOCATION OF EXISTING UTILITY POLE. REMOVE AND RELOCATE AS REQUIRE FOR NEW SITE WORK. COORDINATE EXACT REQUIREMENTS WITH UTILITY COMPANY, COMPLETE AS REQUIRED. AD-1

EXISTING ELECTRICAL QUAZITE BOX TO BE REMOVED

EXISTING ELECTRICAL QUAZITE BOX TO BE RELOCATED

EXISTING (3) 5"C. PRIMARY FEEDER CONDUCTORS AND RACEWAYS TO BE REMOVED

EXISTING (3) 5"C. PRIMARY FEEDER CONDUCTORS AND RACEWAYS TO BE REMOVED AD-2

EXISTING TRANSFORMER 'T2' TO REMAIN

EXISTING (3) 5"C. PRIMARY FEEDERS TO REMAIN

EXISTING SWITCHGEAR TO REMAIN

EXISTING HIGH SCHOOL TRANSFORMER TO REMAIN

EXISTING (2) 5"C. PRIMARY FEEDERS TO REMAIN

EXISTING UTILITY RISER POLE

EXISTING PRIMARY UTILITY METER TO REMAIN

ELECTRICAL DEMOLITION SITE PLAN - OVERALL

1" = 60'-0"

NORTH

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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY DJ
DRAWN BY JC,AG
CHECKED BY SM

REGISTERED DAVID G. JANNEY NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

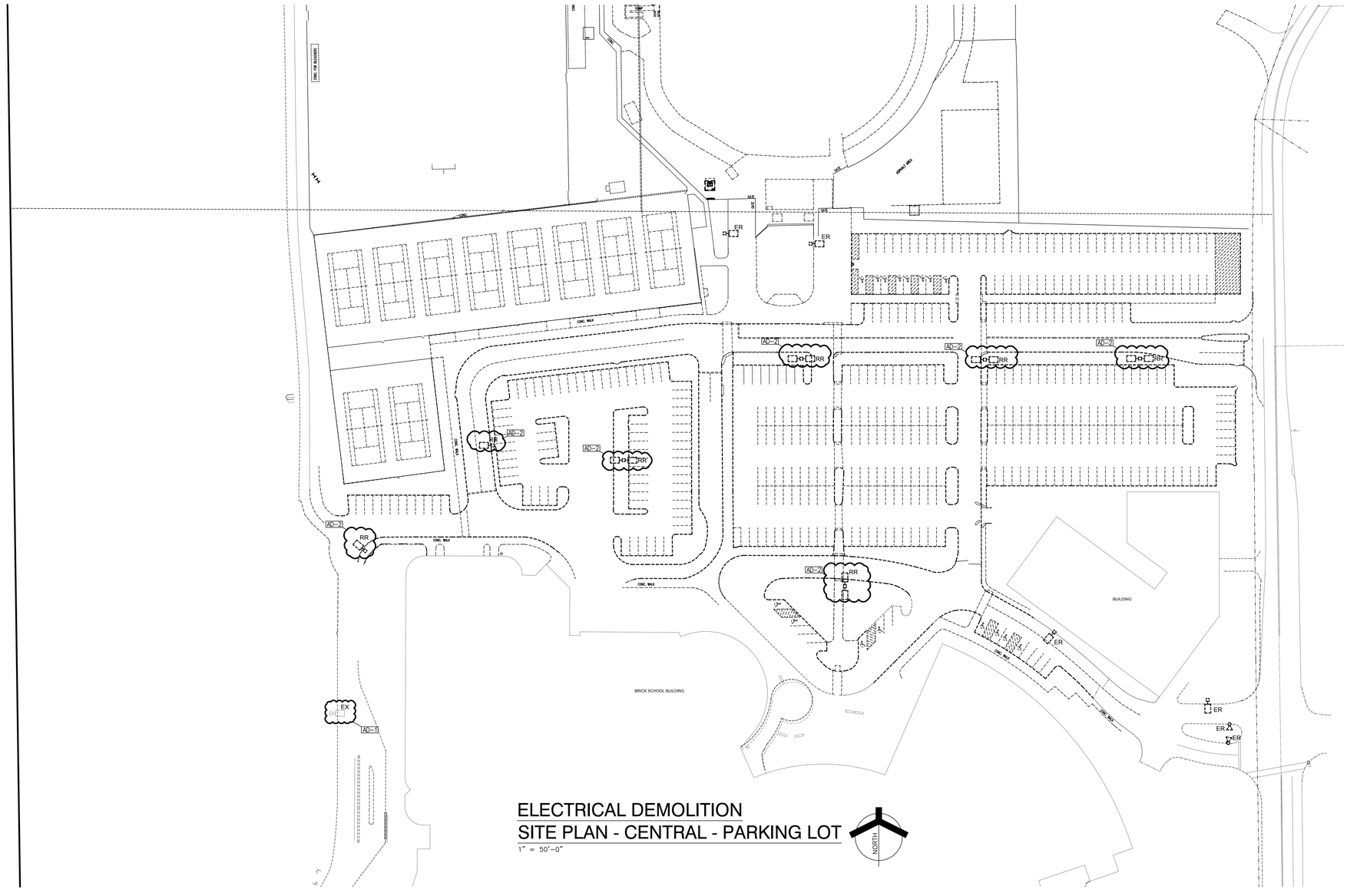
REVISIONS

MARK	DATE	ISSUED FOR
AD-1	08/18/23	ADDENDUM NO. 01
AD-2	08/31/23	ADDENDUM NO. 02

DRAWING
ELECTRICAL DEMOLITION SITE PLAN - OVERALL

PROJECT
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

SHEET
ES108



ELECTRICAL DEMOLITION
SITE PLAN - CENTRAL - PARKING LOT

1" = 50'-0"

NORTH

GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

MILLIES
ENGINEERING GROUP
(219) 924-8400
www.milliesengineeringgroup.com

PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

GIBRALTAR DESIGN
9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
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Email info@GibraltarDesign.com
Phone 317.580.5777 Fax 317.580.5778

PROJECT 23-112
DATE 08/04/23
COORDINATED BY DJ
DRAWN BY JC,AG
CHECKED BY SM

DAVID G. JANNEY
REGISTERED
NO. 10302590
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS

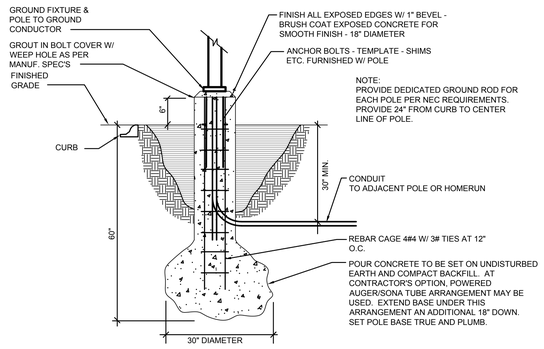
MARK	DATE	ISSUED FOR
AD-1	08/18/23	ADDENDUM NO. 01
AD-2	08/31/23	ADDENDUM NO. 02

DRAWING
ELECTRICAL DEMOLITION SITE PLAN - SOUTH - PARKING LOT

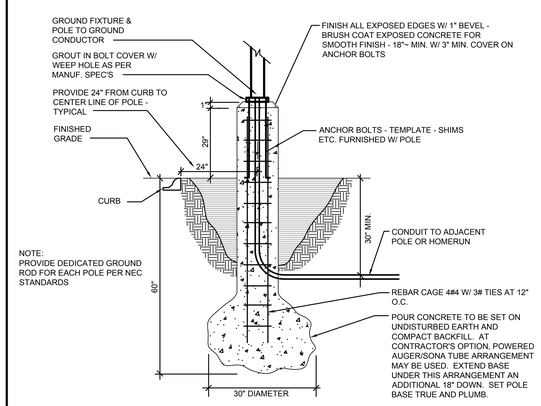
PROJECT
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

SHEET
ES110

6" POLE BASE DETAIL - GRASSY AREAS



TYPICAL 30" CONCRETE POLE BASE DETAIL - PARKING LOT AREAS



EXTERIOR LIGHTING LUMINAIRE SCHEDULE

AD-2

TAG	SYMBOL	DESCRIPTION	MANUFACTURER SERIES OR CATALOG NUMBER	VOLTAGE/ BALLAST	LAMPS/CROSS SECTION	MOUNTING	REMARKS
EA		EXTERIOR LED DUAL-HEAD FIXTURE MOUNTED ON A ROUND, TAPERED STEEL POLE	LITHONIA #DSX2 LED P6 40K 80CRI T3M XVOLT XXX MCGRAW-EDISON #GALN SERIES HUBBELL #VP-2 SERIES GARDCO #P34 SERIES	480 VOLT	LED 4000K MIN 40000 LM MAX 341 W	POLE MTD 30'-0" AFG	-COORD. FINISH WITH ARCHITECT
EB		EXTERIOR LED FIXTURE MOUNTED ON A ROUND, TAPERED STEEL POLE	LITHONIA #DSX2 LED P6 40K 80CRI T3M XVOLT XXX MCGRAW-EDISON #GALN SERIES HUBBELL #VP-2 SERIES GARDCO #P34 SERIES	480 VOLT	LED 4000K MIN 22000 LM MAX 341 W	POLE MTD 30'-0" AFG	-COORD. FINISH WITH ARCHITECT
EC		EXTERIOR LED FIXTURE MOUNTED ON A STRAIGHT, ROUND STEEL POLE	LITHONIA #DSX0 LED P6 40K 80CRI T3M XVOLT MCGRAW-EDISON #GALN SERIES HUBBELL #VP-1 SERIES GARDCO #P26 SERIES	480 VOLT	LED 4000K MIN 1500 LM MAX 137 W	POLE MTD 25'-0" AFG	-COORD. FINISH WITH ARCHITECT
ED		EXTERIOR LED WALL MOUNTED SCONCE	VISA #WPX1 LED 20NW MVOLT XXX OR APPROVED EQUAL	120/277 VOLT	LED 4000K MIN 900 LM MAX 10 W	WALL MTD 6'-0" AFG TO CENTER	-COORD. FINISH WITH ARCHITECT
EF		EXTERIOR SIGNAGE LED FLOOD FIXTURE	LITHONIA #DSXF1 LED P2 40K HMF MVOLT THK UBV XXX OR APPROVED EQUAL	120/277 VOLT	LED 4000K MIN 5000 LM MAX 42 W	IN-GRADE	-COORD. FINISH WITH ARCHITECT
EG		EXTERIOR LED DUAL-HEAD FIXTURE MOUNTED ON A ROUND, TAPERED STEEL POLE	LITHONIA #DSX0 LED P6 40K 80CRI T3M XVOLT XXX MCGRAW-EDISON #GALN SERIES HUBBELL #VP-2 SERIES GARDCO #P34 SERIES	480 VOLT	LED 4000K MIN 15000 LM MAX 137 W	POLE MTD 25'-0" AFG	-COORD. FINISH WITH ARCHITECT

AD-2

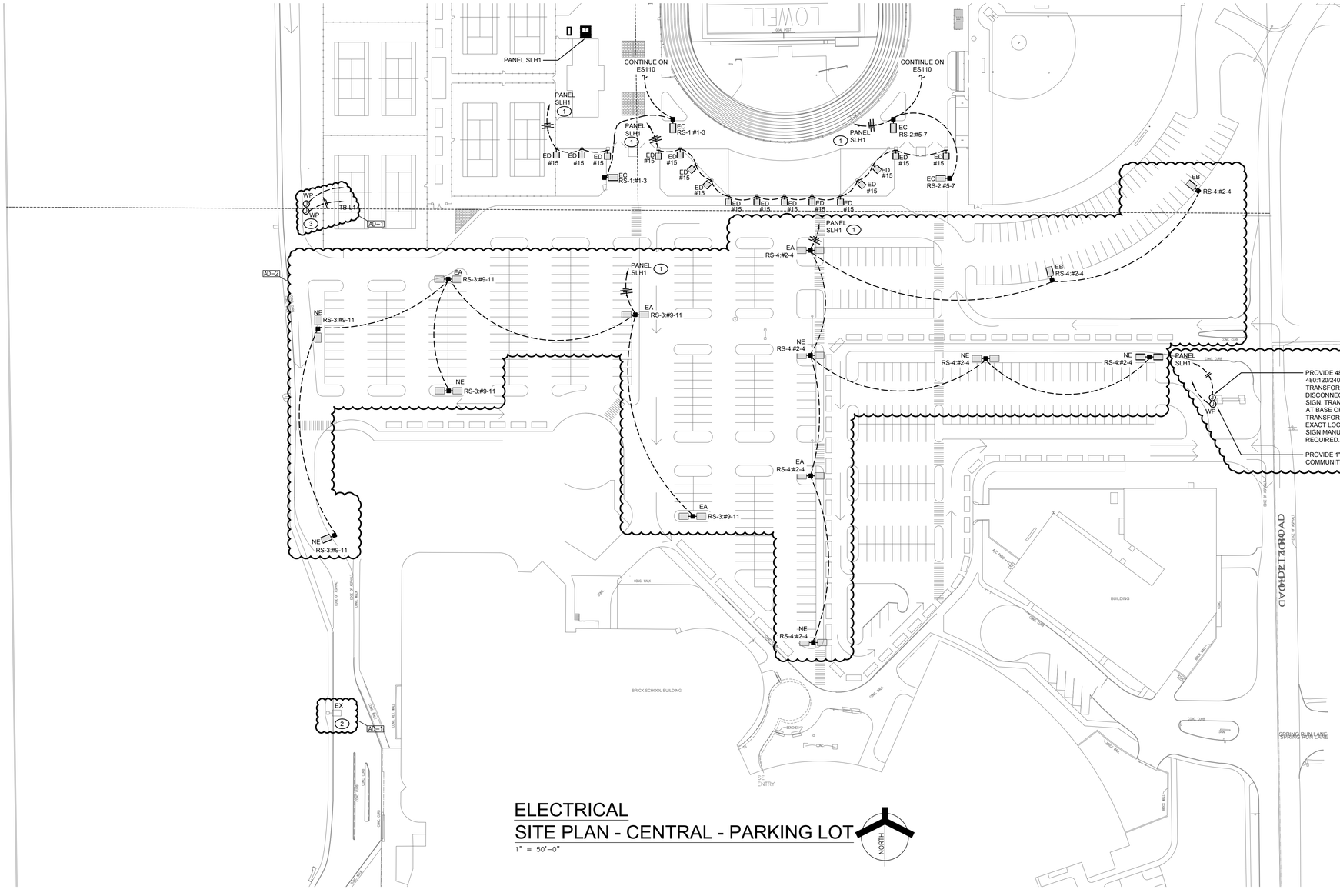
SHEET NOTES

1. CIRCUIT NEW SITE LIGHTING TO PANEL INDICATED VIA NEW LIGHTING CONTROL RELAYS. COORDINATE EXACT REQUIREMENTS IN FIELD.
2. RECONNECT EXISTING SITE LIGHTING CIRCUITRY AS REQUIRED DUE TO DEMOLITION OF EXISTING SITE LIGHTING FIXTURES. VERIFY EXACT CONDITIONS IN FIELD.
3. NEW MOTORIZED GATE. PROVIDE 120V POWER CONNECTION AND CIRCUIT TO PANEL INDICATED VIA 2 #8 & 1 #10 GRD. - 3/4"C. PROVIDE ADDITIONAL 1"C. WITH PULL STRING TO COMMUNITY BUILDING IT CLOSET FOR ACCESS CONTROL WIRING BY OTHERS.

AD-1

GENERAL NOTES

1. SITE LIGHTING CONDUCTORS SHALL BE #8 AWG MINIMUM AND SIZED TO MEET NEC VOLTAGE DROP REQUIREMENTS.
2. SITE SHALL BE PROVIDED WITH HANDHOLES AS REQUIRED.
3. VERIFY NEW AND EXISTING SITE CONDITIONS IN FIELD, AND WITH NEW SITE PLANS. MODIFY CONDUIT ROUTING AS REQUIRED.
4. REFER TO TRENCH DETAIL FOR UNDERGROUND CONDUIT INSTALLATION REQUIREMENTS.
5. REFER TO TECHNOLOGY PLANS FOR LOCATIONS OF POLE MOUNTED CAMERAS AND WIRELESS ACCESS EQUIPMENT. COORDINATE LOADING REQUIREMENTS WITH FINAL POLE SELECTION PRIOR TO ORDERING.



ELECTRICAL
SITE PLAN - CENTRAL - PARKING LOT

1" = 50'-0"

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

MILLIES ENGINEERING GROUP (219) 924-8400 www.milliesengineeringgroup.com

PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY DJ
DRAWN BY JC,AG
CHECKED BY SM

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	08/18/23	ADDENDUM NO. 01
AD-2	08/31/23	ADDENDUM NO. 02

DRAWING
ELECTRICAL SITE PLAN - CENTER - PARKING LOT

PROJECT
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

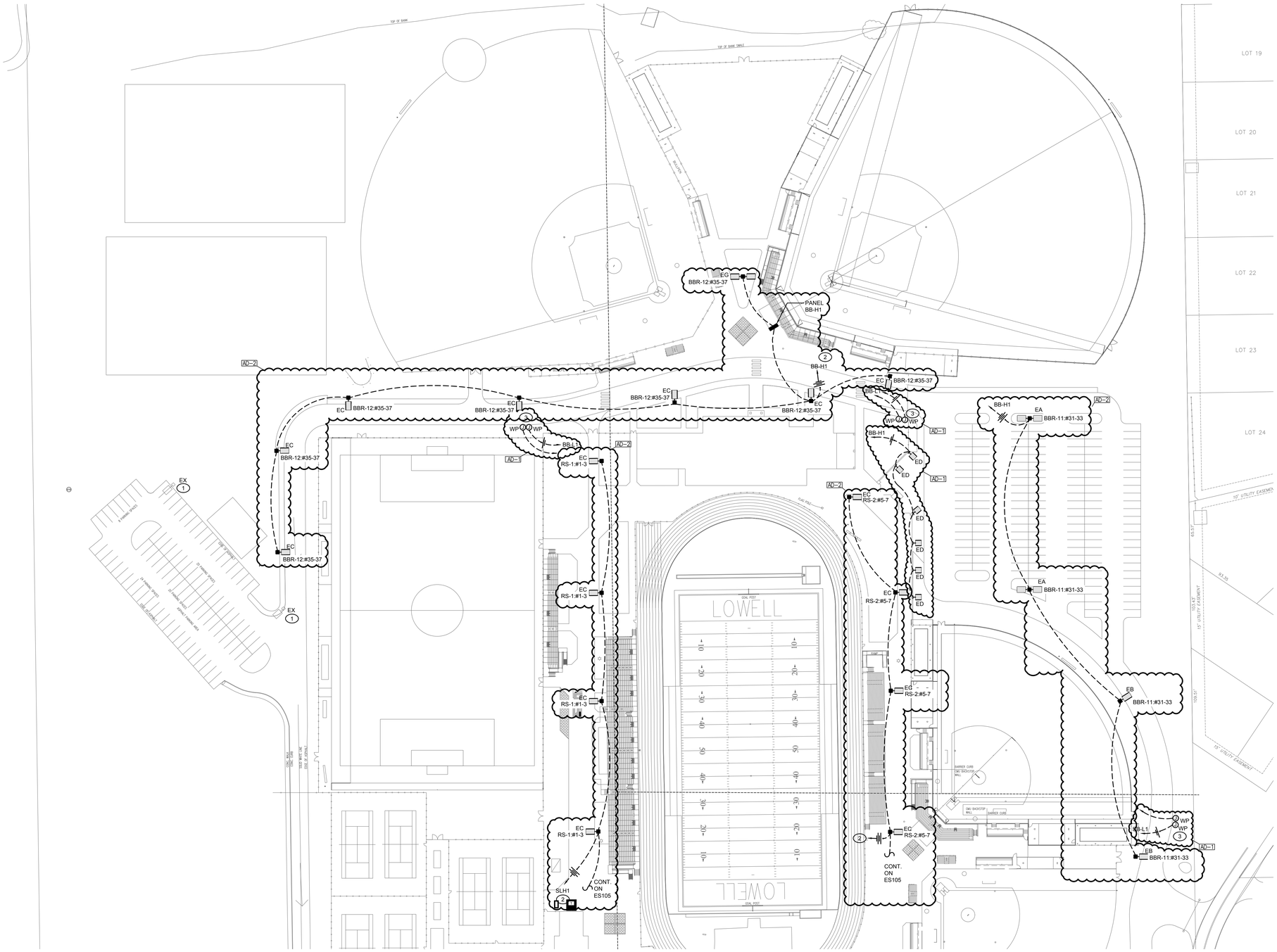
SHEET
ES111

SHEET NOTES

1. EXISTING SITE LIGHTING TO REMAIN. INTERCEPT EXISTING CIRCUITRY, AND EXTEND TO NEW BREAKER IN NEW PANEL SFH1.
2. CIRCUIT NEW SITE LIGHTING TO PANEL INDICATED VIA NEW LIGHTING CONTROL RELAYS. COORDINATE EXACT REQUIREMENTS IN FIELD.
3. NEW MOTORIZED GATE. PROVIDE 120V POWER CONNECTION AND CIRCUIT TO PANEL INDICATED VIA 2 #8 & 1 #10 GRD. - 3/4"C. PROVIDE ADDITIONAL 1"C. WITH PULL STRING TO NORTHSTAR BUILDING IT CLOSET FOR ACCESS CONTROL WIRING BY OTHERS. AD-1

GENERAL NOTES

1. SITE LIGHTING CONDUCTORS SHALL BE #8 AWG MINIMUM AND SIZED TO MEET NEC VOLTAGE DROP REQUIREMENTS.
2. SITE SHALL BE PROVIDED WITH HANDHOLES AS REQUIRED.
3. VERIFY NEW AND EXISTING SITE CONDITIONS IN FIELD, AND WITH NEW SITE PLANS. MODIFY CONDUIT ROUTING AS REQUIRED.
4. REFER TO TRENCH DETAIL FOR UNDERGROUND CONDUIT INSTALLATION REQUIREMENTS.
5. REFER TO TECHNOLOGY PLANS FOR LOCATIONS OF POLE MOUNTED CAMERAS AND WIRELESS ACCESS EQUIPMENT. COORDINATE LOADING REQUIREMENTS WITH FINAL POLE SELECTION PRIOR TO ORDERING.



ELECTRICAL
SITE PLAN - NORTH - PARKING LOT

1" = 50'-0"

NORTH

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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

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DATE 08/04/23
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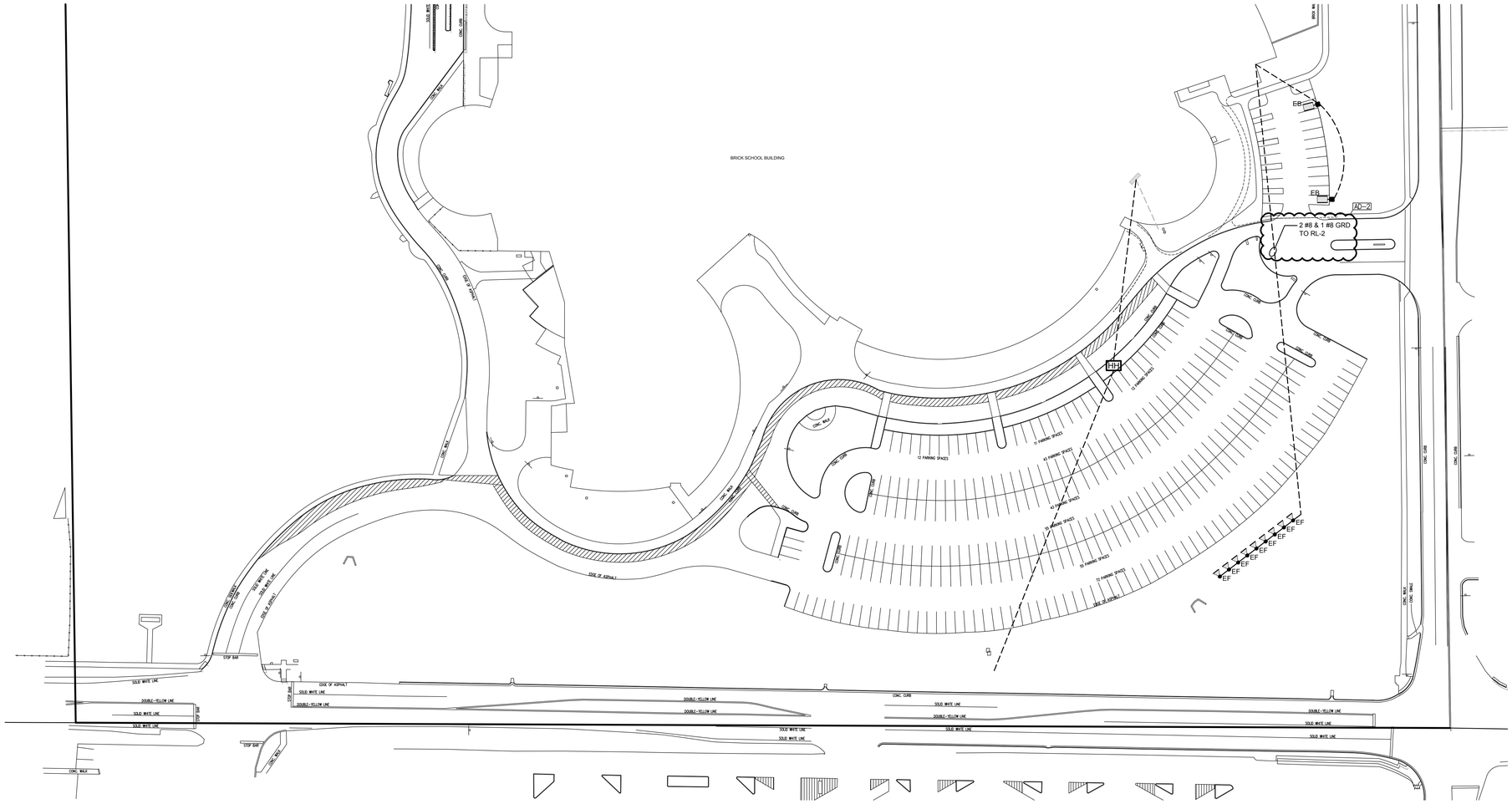
DRAWING
ELECTRICAL SITE PLAN - NORTH - PARKING LOT

PROJECT
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

SHEET
ES112



ELECTRICAL
SITE PLAN - SOUTH - PARKING LOT

1" = 50'-0"

NORTH

GIBRALTAR
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PROJECT
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE
TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY DJ
DRAWN BY JC,AG
CHECKED BY SM

DAVID G. JANNEY
REGISTERED
NO. 10302590
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS

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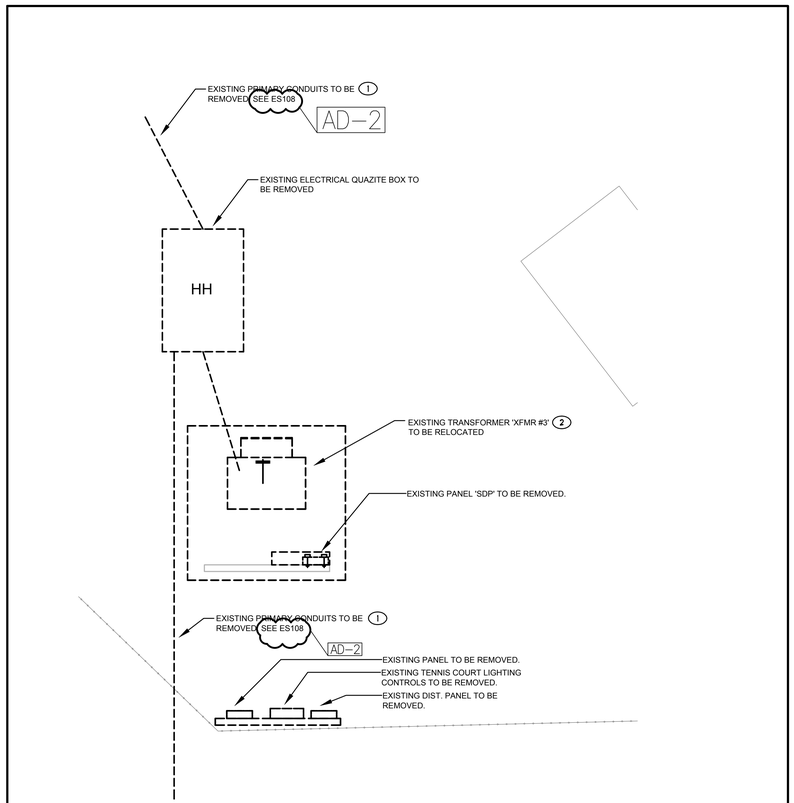
DRAWING
ELECTRICAL SITE PLAN - SOUTH - PARKING LOT

PROJECT
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

SHEET
ES114

SHEET NOTES

1. VERIFY EXISTING ROUTING IN FIELD PRIOR TO SITE DEMOLITON WORK.
2. DISCONNECT AND REMOVE EXISTING TRANSFORMER. TRANSFORMER SHALL BE STORED FOR REUSE AT NEW LOCATION. VERIFY EXACT REQUIREMENTS IN FIELD.

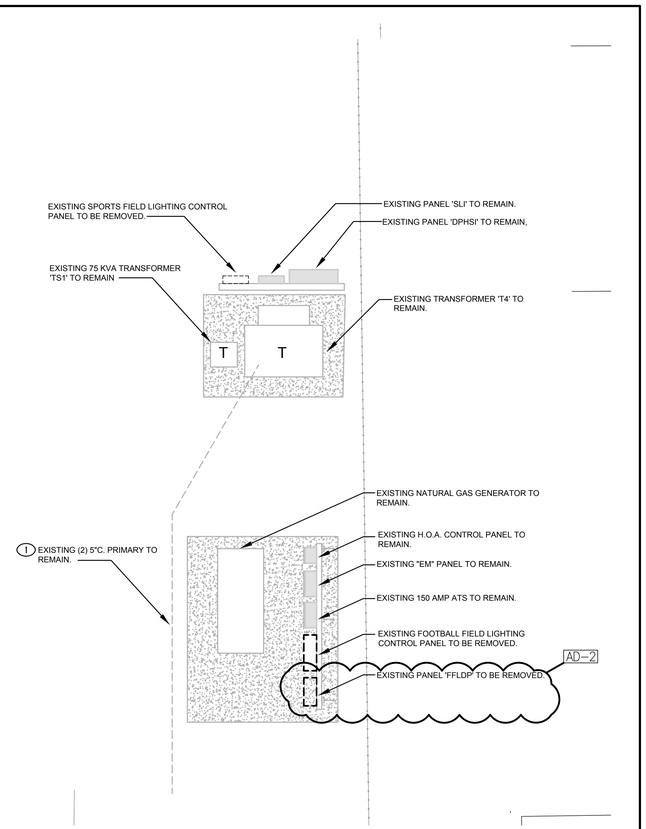


2 ED102 TRANSFORMER T3 DEMOLITION PLAN

1/4" = 1'-0"

AD-2

NORTH



1 ED102 TRANSFORMER T4 DEMOLITION PLAN

1/4" = 1'-0"

AD-2

NORTH

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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112

DATE 08/04/23

COORDINATED BY DJ

DRAWN BY JC,AG

CHECKED BY SM

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 02

DRAWING

TRANSFORMER ENLARGED DEMOLITION PLAN

PROJECT

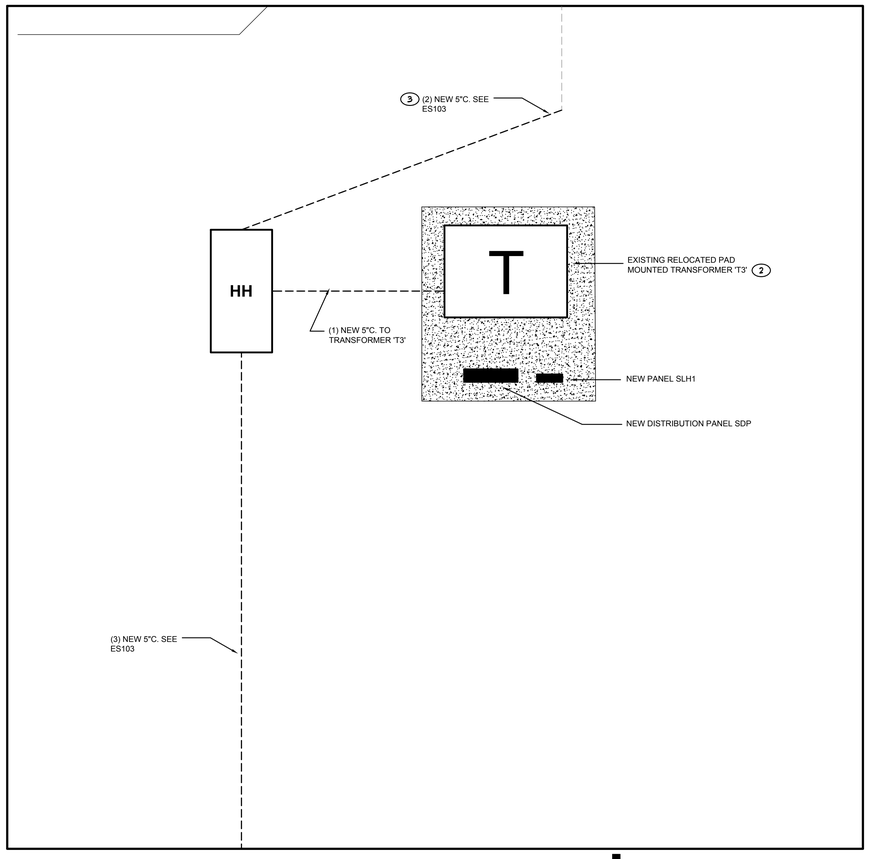
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

SHEET

ED102

SHEET NOTES

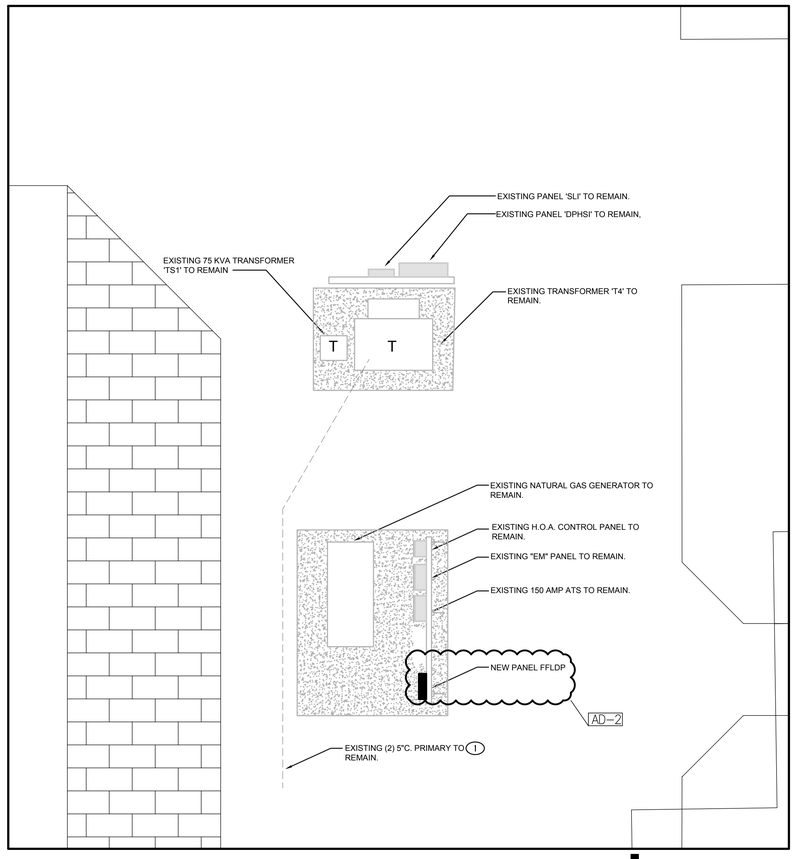
1. VERIFY EXISTING ROUTING IN FIELD PRIOR TO SITE DEMOLITON WORK.
2. REINSTALL RELOCATED TRANSFORMER. PROVIDE NEW CONRETE PAD AND TRANSFORMER GROUNDING PER SPECIFICATION REQUIREMENTS.
3. INTERCEPT EXISTING UNDERGROUND PRIMARY FEEDERS AND MODIFY AS REQUIRED. EXTEND AS INDICATED TO NEW HAND HOLE LOCATION. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.



2 E-103 TRANSFORMER T3 PLAN

1/4" = 1'-0"

NORTH



1 E-103 TRANSFORMER T4 PLAN

1/4" = 1'-0"

NORTH

GIBRALTAR DESIGN

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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112

DATE 08/04/23

COORDINATED BY DJ

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DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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DRAWING

TRANSFORMER PLAN

PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

SHEET E-103

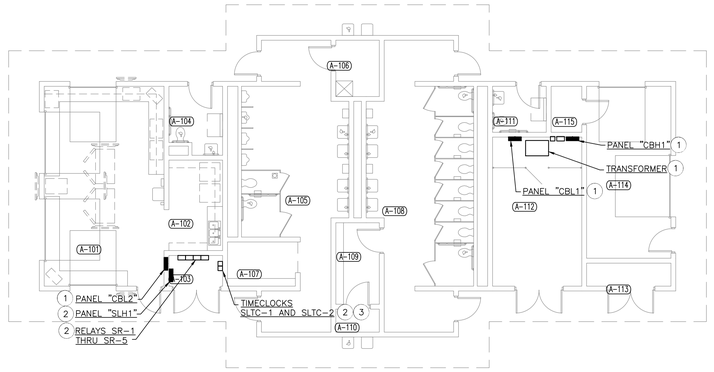
GENERAL NOTES:

1. FOR ADDITIONAL GENERAL ELECTRICAL NOTES, SEE GENERAL ELECTRICAL PROJECT NOTES ON SHEET E-001.
2. SEE E-600 SHEETS FOR ELECTRICAL DETAILS AND SCHEDULES.
3. SEE E-700 SHEETS FOR ELECTRICAL DISTRIBUTION DIAGRAMS.
4. PANELBOARDS PROVIDED IN SITE DEVELOPMENT PROJECT. BRANCH CIRCUIT WIRING, OTHER EQUIPMENT AND OTHER ELECTRICAL CONNECTIONS SHALL BE PROVIDED IN STADIUM PROJECT.

ELECTRICAL PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

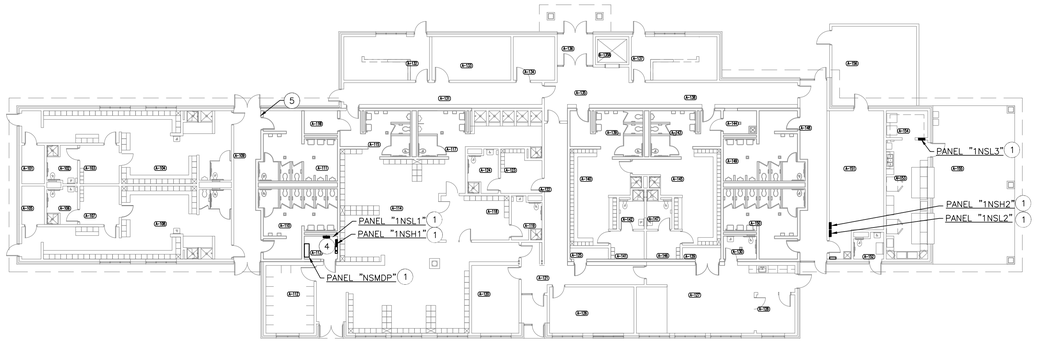
1. PROVIDE ELECTRICAL PANELS AND TRANSFORMER AS SHOWN. VERIFY EXACT LOCATION WITH ARCHITECT AND CONSTRUCTION MANAGER PRIOR TO ROUGHING-IN.
2. PROVIDE SITE LIGHTING PANELBOARDS, RELAYS AND TIMECLOCKS AS SHOWN, AS WELL AS ALL OF THE BRANCH CIRCUITING.
3. TORK DZS400BP FOUR CHANNEL TIMECLOCK SLTC-1. CHANNEL ONE CONTROLS RELAY SR-1 (WEST WALKWAY LIGHTS), CHANNEL TWO CONTROLS SR-2 (EAST WALKWAY LIGHTS), CHANNEL THREE CONTROLS RELAY SR-3 (SOUTHWEST PARKING LOT LIGHTS) AND CHANNEL FOUR CONTROLS RELAY SR-4 (SOUTHEAST PARKING LOT LIGHTS). (CIRCUIT SLH1-13).
   TORK DZS200BP TWO CHANNEL TIMECLOCK SLTC-2. CHANNEL ONE CONTROLS RELAY SR-5 (ATHLETIC FIELD ENTRANCE SIGN) AND CHANNEL TWO IS A SPARE. (CIRCUIT SLH1-15).
4. REMOVE EXISTNG ELECTRICAL EQUIPMENT IN THIS ROOM. REMOVE EXISTING FEEDERS TO EXISTING PANELBOARDS AND TRANSFORMER IN THIS ROOM. BRANCH CIRCUIT WIRING SHALL BE REMOVED IN STADIUM PROJECT.
5. REMOVE EXISTING PANEL "AL2" AND REMOVE ASSOCIATED FEEDER. BRANCH CIRCUIT WIRING SHALL BE REMOVED IN STADIUM PROJECT.



COMMUNITY BUILDING FIRST FLOOR ELECTRICAL POWER PLAN

SCALE: 1/8" = 1'-0"

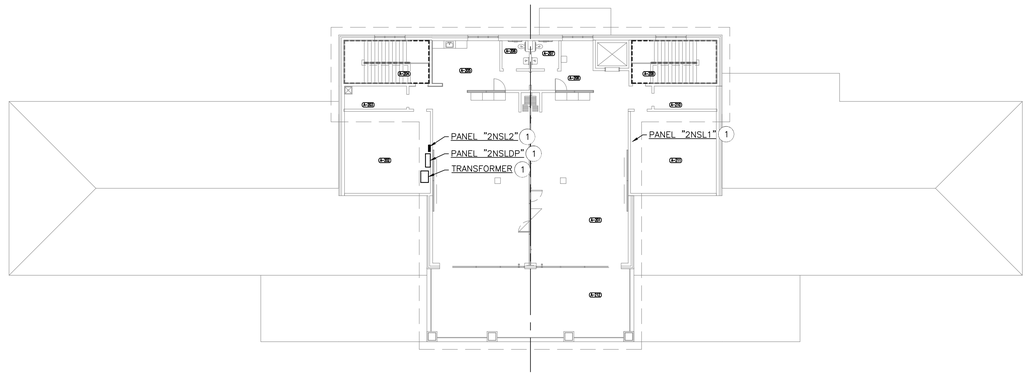
NORTH



NORTH STAR BUILDING FIRST FLOOR ELECTRICAL POWER PLAN

SCALE: 1/16" = 1'-0"

NORTH



NORTH STAR BUILDING SECOND FLOOR ELECTRICAL POWER PLAN

SCALE: 1/16" = 1'-0"

NORTH

GIBRALTAR DESIGN
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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB
CHECKED BY JPB

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2
		(ENTIRE SHEET)

DRAWING

COMMUNITY BUILDING AND NORTH STAR BUILDING ELECTRICAL POWER PLANS

PROJECT

LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET E-104

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"DPHS1"
TYPE: EXISTING
277/480V, 3 PH, 4W
800 AMP MAIN BREAKER
NEMA 3R
SURFACE MOUNTED

REMARKS
EXISTING
MODIFY AND PROVIDE THE CIRCUIT BREAKERS AND SPACES SHOWN BELOW AS WELL AS RELOCATING THE 3P-125 AMP CIRCUIT BREAKER SERVING THE EXISTING TRANSFORMER XFMR T-S1.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
PANEL "NSH1" (NORTH STAR BLDG)	1	3	600	8.00	12.42	73.03	93.45									
													3	600	2	SPACE
				8.00	12.83	73.64		94.47								
				8.00	10.94	74.94			93.88							
PANEL "BBH1"	3	3	200	21.93	2.76	4.00	28.69									
													3	200	4	SPACE
				21.93	2.58	3.00		27.51								
				21.68	3.90	2.00			27.58							
SPACE	5	3	100													
													3	200	6	SPACE
SPACE	7	3	100													
													3	125	8	EXISTING TRANSFORMER T-S1
SPACE	9	3	200													
													3	200	10	SPACE
TOTAL CONNECTED LOAD (kVA)				89.54	45.43	230.61	122.14	121.98	121.46							
TOTAL DEMAND LOAD (kVA)				89.54	27.72	230.61										

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"SDP"
TYPE: SQ D I-LINE OF APPROVED EQ
277/480V, 3 PH, 4W
1200 AMP MAIN BREAKER
NEMA 4X
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
PANELBOARD AND CIRCUITS SHALL HAVE MINIMUM 100,000 AMP INTERRUPTING CAPACITY.
PANEL SHALL BE RATED FOR SERVIC ENTRANCE.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
TRANSFORMER (PANEL "PBL1")	1	3	70													
																SPARE (COMMUNITY BUILDING)
	3												3	100	2	
	5														4	
															6	
PANEL "SBH1"	7	3	200													
													4	200	8	PANEL "TCLH1"
	9														10	
	11														12	
PANEL "SFH1"	13	3	200													
													3	200	14	PANEL "SLH1"
	15														16	
	17														18	
PANEL "FFLDP"	19	3	400													
													3	400	20	SPACE
	21														22	
	23														24	
SPACE	25	3	400													
													3	20	26	SPACE
	27														28	
	29														30	
TOTAL CONNECTED LOAD (kVA)																
TOTAL DEMAND LOAD (kVA)																

AD-2

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"SBH1"
TYPE: SQ D NF OR APPROVED EQ
277/480V, 3 PH, 4W
225 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUITS SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.
PANEL SHALL BE RATED FOR SERVICE ENTRANCE.
LOCATED IN LOWER LEVEL OF SOFTBALL FIELD PRESS BOX.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
PRESS BOX EXTERIOR LIGHTS/ RELAY SBR-5 FLAG POLE LIGHT/ RELAY SBR-6	1	1	20	1.00			1.00									
													1	20	2	SPARE
SPARE	3	1	20													
													1	20	4	SPARE
SPARE	5	1	20													
													1	20	6	SPARE
SOFTBALL FIELD LIGHTS POLE (SBL-4/A4) (RELAY SBR-4/C4)	7	3	20	1.17			1.17									
																SOFTBALL FIELD LIGHTS POLE (SBL-1/A3) (RELAY SBR-1/C1)
	9			1.17			1.17						3	20	8	
				1.17			1.17									
	11			1.17				1.17							10	
				1.17				1.17								
SOFTBALL FIELD LIGHTS POLE (SBL-3/B4) (RELAY SBR-3/C3)	13	3	20	2.39			2.39								12	
																SOFTBALL FIELD LIGHTS POLE (SBL-2/B3) (RELAY SBR-2/C2)
	15			2.39			2.39						3	20	14	
				2.39				2.39								
	17			2.39				2.39							16	
				2.39					2.39							
SPARE	19	1	20												18	
													1	20	20	SPARE
SPARE	21	1	20													
													1	20	22	SPARE
SPARE	23	1	20													
													1	20	24	SPARE
SPACE	25	1														
													1		26	SPACE
SPACE	27	1														
													1		28	SPACE
SPACE	29	1														
													1		30	SPACE
SPACE	31	1														
						6.29	6.29						3	70	32	30 KVA XFMR (PANEL "SFL1")
SPACE	33	1														
						6.29		6.29							34	
SPACE	35	1														
						7.29			7.29						36	
SPACE	37	1														
													1		38	SPACE
SPACE	39	1											1		40	SPACE
SPACE	41	1											1		42	SPACE
TOTAL CONNECTED LOAD (kVA)				22.36		19.87	14.41	13.41	14.41							
TOTAL DEMAND LOAD (kVA)				22.36		19.87										

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"SBL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
PRESSBOX STORAGE LIGHTS	1	1	20	0.24			0.24									
					0.72		0.72						1	20	2	PRESSBOX RECPS
RELAYS SBR-1 THRU SBR-4	3	1	20			1.00		1.00								
					0.54			0.54					1	20	4	PRESSBOX RECPS
SOUND EQUIPMENT	5	1	20		1.50				1.50							
					0.72				0.72				1	20	6	PRESSBOX RECPS
HOME DUGOUT RECPS	7	1	20		0.54		0.54									
													1	20	8	SPARE
VISITOR DUGOUT RECPS	9	1	20		0.54			0.54								
													1	20	10	SPARE
STORAGE RECPS	11	1	20		0.18				0.18							
						1.50			1.50				1	20	12	VARSITY SCOREBOARD
SPARE	13	1	20													
					1.50		1.50						1	20	14	BATTING CAGE RECEPTACLE
SPARE	15	1	20													
					1.50			1.50					1	20	16	BATTING CAGE RECEPTACLE
SPARE	17	1	20													
					0.18				0.18				1	20	18	RECP AT SCOREBOARD
ECH-3 (3 KW)	19	2	20			1.50				1.50						
						1.50				1.50			1	20	20	JV SCOREBOARD
	21															
SPARE	23	1	20						2.00	2.00			1	20	22	SPARE
						1.00			1.00							
SPARE	25	1	20										2	20	24	PTAC-1
						1.00	1.00								26	
SPARE	27	1	20													
													1	20	28	SPARE
SPARE	29	1	20													
													1	20	30	SPARE
TOTAL CONNECTED LOAD (kVA)				0.24	7.92	6.00	7.00	5.08	7.08	5.00						
TOTAL DEMAND LOAD (kVA)				0.24	7.92	6.00				5.00						

LOWELL HIGH SCHOOL ATHLETIC FIELDSPANELBOARD SCHEDULE

MARK & TYPE
"FFLDP"
TYPE: SQ D NF OR APPROVED EQUAL
277/480V, 3 PH, 4W
400 AMP MAIN BREAKER
NEMA 4X
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 65,000 AMP INTERRUPTING CAPACITY.
NEW PANEL "FFLDP" REPLACES EXISTING PANEL "FFLDP". INTERCEPT EXISTING CIRCUITS SERVING EXISTING LIGHTS, EQUIPMENT, ETC. THAT REMAIN AND EXTEND TO NEW PANEL "FFLDP"

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
FOOTBALL FIELD LIGHTS POLE FBL-1/F-1 (RELAY FBR-1/C1)	1	3	30	5.02			5.02									
													3	30	2	FOOTBALL FIELD LIGHTS POLE FBL-2/F-2 (RELAY FBR-2/C2)
	3			5.02				5.02								
				5.02				5.02							4	
	5			5.02					5.02							
				5.02					5.02						6	
FOOTBALL FIELD LIGHTS POLE FBL-4/F-4 RELAY FBR-4/C4)	7	3	30	5.02			5.02									
													4	30	8	FOOTBALL FIELD LIGHTS POLE FBL-3/F-3 (RELAY FBR-3/C3)
	9			5.02				5.02								
				5.02				5.02							10	
	11			5.02					5.02							
															12	
??	13	3	50													
													3	40	14	??
	15														16	
	17														18	
	19	3	20													
													3	20	20	
	21														22	
	23														24	
??	25	1	20										1	20	26	?
SPARE	27	1	20													
				1.00				1.00					1	20	28	FLAG POLE LIGHTS/RELAY FFBR-9/TIMECLOCK
SPARE	29	1	20													
													1	20	30	SPARE
SPARE	31	1	20													
													1	20	32	SPARE
SPARE	33	1	20													
													1	20	34	SPARE
SPARE	35	1	20													
													1	20	36	SPARE
30 KVA XFMR (PANEL "PBL1")	37	3	70													
													3	20	38	SHOT PUT/ DISCUS AREA LIGHTS (RELAY FBR-5)
	39														40	
	41														42	
TOTAL CONNECTED LOAD (kVA)				56.22			20.08	21.08	15.06							
TOTAL DEMAND LOAD (kVA)				56.22												

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"BBL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
PRESSBOX STORAGE LIGHTS	1	1	20	0.24			0.24									
					0.72		0.72						1	20	2	PRESSBOX RECPS
SPARE	3	1	20													
					0.54			0.54					1	20	4	PRESSBOX RECPS
SOUND EQUIPMENT	5	1	20		1.50				1.50							
					0.72				0.72				1	20	6	PRESSBOX RECPS
DUGOUT RECPS	7	1	20		0.54		0.54									
													1	20	8	RELAYS BBR-1 THRU BBR-4
DUGOUT RECPS	9	1	20		0.54			0.54								
													1	20	10	RELAY S BBR-5 THRU BBR-8
STORAGE RECPS	11	1	20		0.18				0.18							
						1.50			1.50				1	20	12	SCOREBOARD
RELAYS BBR-1 THRU BBR-4	13	1	20													
					1.50		1.50						1	20	14	BATTING CAGE RECEPTACLE
RELAYS BBR-5 THRU BBR-8	15	1	20													
					1.50			1.50					1	20	16	BATTING CAGE RECEPTACLE
SPARE	17	1	20													
						1.50			1.50				1	20	18	RECP NEAR VARSITY AND JV SCOREBOARD
ECH-1 (3 KW)	19	2	20													
					1.50				1.50				1	20	20	RECP NEAR JV SCOREBOARD
	21	1	20													
					1.00		2.50		1.50				1	20	22	MOTORIZED GATE
SPARE	23	1	20		1.00			1.00								
													2	20	24	PTAC-1
SPARE	25	1	20													
					1.00		1.00								26	
SPARE	27	1	20													
													1	20	28	SPARE
SPARE	29	1	20													
													1	20	30	SPARE
SPARE	31	1	20													
													1	20	32	SPARE
SPARE	33	1	20													
													1	20	34	SPARE
SPARE	35	1	20													
													1	20	36	SPARE
30 KVA XFMR (PANEL "PBL1")	37	3	70													
													3	20	38	SHOT PUT/ DISCUS AREA LIGHTS (RELAY FBR-5)
	39														40	
	41														42	
TOTAL CONNECTED LOAD (kVA)				1.24	9.60	9.50	7.50	9.08	6.76	3.00						
TOTAL DEMAND LOAD (kVA)				1.24	9.60	9.50				3.00						

GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT
23-112
DATE
08/04/23
COORDINATED BY
PCB
DRAWN BY
PCB/JVC
CHECKED BY
JPB

JOSEPH P. BRIGGS
REGISTERED
NO.
11600109
STATE OF
INDIANA
ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2

DRAWING
ELECTRICAL SCHEDULES

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
E-603

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"TCH1"
TYPE: SQ D NF OR APPROVED EQ
277/480V, 3 PH, 4W
225 AMP MAIN BREAKER
NEMA 4X
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUITS SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.
PANEL SHALL BE RATED FOR SERVICE ENTRANCE.

LOCATED IN LOWER LEVEL OF TENNIS PLATFORM AREA

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
SPARE	1	1	20													
						1.00	1.00						1	20	2	RELAY TCR-1 THRU TCR-8 CONTROL
SPARE	3	1	20													
						1.00		1.00					1	20	4	RELAY TCR-9 THRU TCR-14 CONTROL
SPARE	5	1	20													
													1	20	6	SPARE
TENNIS COURT LIGHTS (RELAYS TCR-1 THRU TCR-4)	7	3	20	3.10			3.10									
				3.10				3.10					3	20	8	TENNIS COURT LIGHTS (RELAYS TCR-9 THRU TCR-10)
	9			3.10				3.10								
				3.10					3.10						10	
	11			3.10					3.10							
				3.10					3.10						12	
TENNIS COURT LIGHTS (RELAYS TCR-5 THRU TCR-8)	13	3	20	3.10			3.10									
																TENNIS COURT LIGHTS (RELAYS TCR-11 THRU TCR-12)
	15			3.10				3.10					3	20	14	
															16	
	17			3.10					3.10							
															18	
SPARE	19	3	20													
																TENNIS COURT LIGHTS (RELAYS TCR-13 THRU TCR-14)
	21			3.10			3.10						3	20	20	
				3.10				3.10							22	
	23			3.10					3.10						24	
SPACE	25	3														
													3		26	SPACE
	27														28	
	29														30	
SPACE	31	3														
				0.32	2.22		2.54						3	70	32	30 kVA XFMR (PANEL "TCL1")
	33				4.50			4.50							34	
	35				1.68	1.50			3.18						36	
SPACE	37	1											1		38	
SPACE	39	1														
													1		40	
SPACE	41	1														
													1		42	
TOTAL CONNECTED LOAD (kVA)				37.52	8.40	3.50	15.94	17.90	15.58							
TOTAL DEMAND LOAD (kVA)				37.52	8.40	3.50										

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"TCL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN BREAKER
NEMA 4X
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

LOCATED AT LOWER LEVEL OF TENNS PLATFORM AREA

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
TENNIS PLATFORM AREA LIGHTS	1	1	20	0.24			0.24									
													1	20	2	TENNIS PLATFORM AREA RECPS
TENNIS COURT RECPS (BALL MACHINES)	3	1	20			0.72	0.72									
						1.50			1.50							
													1	20	4	TENNIS COURT RECPS (BALL MACHINES)
TENNIS COURT RECPS (BALL MACHINES)	5	1	20			1.50			1.50							
						0.72			0.72							
													1	20	6	SPARE
TENNIS COURT RECPS (BALL MACHINES)	7	1	20			1.50			1.50							
													1	20	8	SPARE
DUGOUT RECPS	9	1	20			1.50										
							1.50						1	20	10	SPARE
STORAGE RECPS	11	1	20			0.18			0.18							
													1	20	12	SPARE
SPARE	13	1	20													
													1	20	14	SPARE
SPARE	15	1	20													
													1	20	16	SPARE
SPARE	17	1	20													
													1	20	18	SPARE
TOTAL CONNECTED LOAD (kVA)				0.32	8.40	1.50	2.54	4.50	3.18							
TOTAL DEMAND LOAD (kVA)				0.32	8.40	1.50										

LOWELL HIGH SCHOOL SITE DEVELOPMENT PANELBOARD SCHEDULE

MARK & TYPE
"SLH1"
TYPE: SQ D NF OR APPROVED EQUAL
277/480V, 3 PH, 4W
100 AMP MAIN LUGS
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
WEST WALKWAYS LIGHTS (RELAY RS-1)	1	2	20	0.35			0.35									
																SOUTHEAST PARKING LOT LIGHTS (RELAY RS-4)
				2.05			2.05						2	20	2	
	3			0.35				0.35								
				2.05				2.05							4	
EAST WALKWAYS LIGHTS (RELAY RS-2)	5	2	20	0.35				0.35								
				1.50				1.50					2	20	6	SCHOOL SIGN (3 KW)
	7			0.35			0.35									
				1.50			1.50								8	
SOUTHWEST PARKING LOT LIGHTS (RELAY RS-3)	9	2	20	1.85				1.85								
													2	20	10	SPARE
	11			1.85					1.85						12	
SITE LIGHTING RELAYS CONTROL CIRCUIT/TIMECLOCK	13	1	20				1.00	1.00								
													1	20	14	SPARE
ATHLETIC FIELD ENTRY LIGHTS/TIMECLOCK	15	1	20	1.00					1.00							
													1	20	16	SPARE
SPACE	17	1	20													
													1	20	18	SPARE
SPARE	19	1	20													
													1	20	20	SPARE
SPARE	21	1	20													
													1	20	22	SPARE
SPARE	23	1	20													
													1	20	24	SPARE
SPARE	25	1	20													
													1	20	26	SPARE
SPARE		1	20													
													1	20	28	SPARE
SPARE		1	20													
													1	20	30	SPARE
TOTAL CONNECTED LOAD (kVA)				13.20			1.00	5.25	5.25	3.70						
TOTAL DEMAND LOAD (kVA)				13.20			1.00									

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"TBL1"
TYPE: SQ D NQ OR APPROVED EQUAL.
120/208V, 1 PH, 3W
100 AMP MAIN BREAKER
NEMA 1
FLUSH MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-VH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
LIGHTS	1	1	20	0.50			0.50								
						0.50	0.50					1	20	2	TIMECLOCK
RECEPTACLE	3	1	20		0.72			0.72							
						0.50	0.50					1	20	4	PLAY CLOCK
CEILING FAN	5	1	20			0.16	0.16								
						1.50	1.50					1	20	6	MOTORIZED GATE
SPARE	7	1	20												
												1	20	8	SPARE
PANEL "TBL2"	9	2	60	0.50		0.66	1.16								
					0.72		0.72					1	20	10	SPARE
	11														
												1	20	12	SPARE
TOTAL CONNECTED LOAD (kVA)				1.00	1.44	3.32	4.54	1.22							
TOTAL DEMAND LOAD (kVA)				1.00	1.44	3.32									

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"TBL2"
TYPE: SQ D NQ OR APPROVED EQUAL.
120/208V, 1 PH, 3W
60 AMP MAIN BREAKER
NEMA 1
FLUSH MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-VH.

IN ADDITION TO SPECIFIED ENGRAVED PANEL LABELING INCLUDE ENGRAVE LABELING ON PANEL "FED FROM PANEL "TBL1" IN EAST TICKET BOOTH".

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
LIGHTS	1	1	20	0.50			0.50								
						0.50	0.50					1	20	2	TIMECLOCK
RECEPTACLE	3	1	20		0.72			0.72							
												1	20	4	SPARE
CEILING FAN	5	1	20			0.16	0.16								
												1	20	6	SPARE
SPACE	7	1	20												
												1	20	8	SPARE
SPACE	9	1	20												
												1	20	10	SPACE
SPACE	11	1	20												
												1	20	12	SPACE
TOTAL CONNECTED LOAD (kVA)				0.50	0.72	0.66	1.16	0.72							
TOTAL DEMAND LOAD (kVA)				0.50	0.72	0.66									

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"TBL3"
TYPE: SQ D NQ OR APPROVED EQUAL.
120/240V, 1 PH, 3W
60 AMP MAIN BREAKER
NEMA 1
FLUSH MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-VH.

IN ADDITION TO SPECIFIED ENGRAVED PANEL LABELING INCLUDE ENGRAVE LABELING ON PANEL "FED FROM PANEL "BBL1" IN BASEBALL PRESSBOX".

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
LIGHTS	1	1	20												
												1	20	2	TIMECLOCK
RECEPTACLE	3	1	20												
												1	20	4	SPARE
SPARE	5	1	20												
												1	20	6	SPARE
SPARE	7	1	20												
												1	20	8	SPARE
SPACE	9	1	20												
												1	20	10	SPACE
SPACE	11	1	20												
												1	20	12	SPACE
TOTAL CONNECTED LOAD (kVA)															
TOTAL DEMAND LOAD (kVA)															

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"SFH1"
TYPE: SQ D NF OR APPROVED EQ
277/480V, 3 PH, 4W
225 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUITS SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.
PANEL SHALL BE RATED FOR SERVICE ENTRANCE.

LOCATED IN LOWER LEVEL OF PRESS BOX.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
PRESS BOX LIGHTS/ RELAY SFR-5 FLAG POLE LIGHT/ RELAY SFR-6 RELAY SFR-7/TIMECLOCK	1	1	20	1.00				1.00								
													1	20	2	SPARE
SPARE	3	1	20													
													1	20	4	SPARE
SPARE	5	1	20													
													1	20	6	SPARE
SOCCER FIELD LIGHTS POLE (SFL-3/S3) (RELAY SFR-3/C3)	7	3	20	2.35			2.35									
																SOCCER FIELD LIGHTS POLE (SFL-4/F4) (RELAY SFR-4/C4)
				2.35				2.35					3	20	8	
	9			2.35			2.35									
				2.35				2.35							10	
	11			2.35					2.35							
				2.35					2.35						12	
SOCCER FIELD LIGHTS POLE (SFL-2/S2) (RELAY SFR-2/C2)	13	3	20	2.35			2.35									
																SOCCER FIELD LIGHTS POLE (SFL-1/F1) (RELAY SFR-1/C1)
				2.35				2.35					3	20	14	
	15			2.35			2.35									
				2.35					2.35						16	
	17			2.35					2.35							
				2.35					2.35						18	
WEST SOCCER FIELD PARKING LOT LIGHTS (RELAY SFR-7)	19	2	20	1.00				1.00								
													1	20	20	SPARE
	21			1.00					1.00							
													1	20	22	SPARE
SPARE	23	1	20													
													1	20	24	SPARE
SPARE	25	1	20													
													1	20	26	SPARE
SPARE	27	1	20													
													1	20	28	SPARE
SPARE	29	1	20													
													1	20	30	SPARE
SPACE	31	1														
				0.24	0.72	2.00	2.96						3	70	32	30 kVA XFMR (PANEL "SFL1")
SPACE	33	1			0.07	0.54	2.00		2.61						34	
SPACE	35	1				2.40	2.00			4.40					36	
SPACE	37	1											1		38	
SPACE	39	1														
													1		40	SPACE
SPACE	41	1														
													1		42	SPACE
TOTAL CONNECTED LOAD (kVA)				31.51	3.66	6.00	14.36	13.01	13.80							
TOTAL DEMAND LOAD (kVA)				31.51	3.66	6.00										

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"SFL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
PRESSBOX/ STORAGE LIGHTS	1	1	20	0.24			0.24									
						0.72	0.72						1	20	2	PRESSBOX RECPS
EXTERIOR LIGHTS (SFR-5), RELAYS SFR-5 CONTROL AND TIMECLOCK	3	1	20	0.07		1.00		1.07								
						0.54		0.54					1	20	4	PRESSBOX RECPS
SOUND EQUIPMENT	5	1	20			1.50			1.50							
						0.72			0.72				1	20	6	PRESSBOX RECPS
RELAYS SFR-1 THRU SFR-4	7	1	20			1.00	1.00									
													1	20	8	SPARE
SPARE	9	1	20													
						0.18		0.18					1	20	10	RECP AT SCOREBOARD
STORAGE RECPS	11	1	20			0.18			0.18							
									1.50				1	20	12	SCOREBOARD
SPARE	13	1	20													
													1	20	14	SPARE
SPARE	15	1	20													
													1	20	16	SPARE
SPARE	17	1	20													
							2.00						1	20	18	SPARE
ECH-3 (4 KW)	19	2	20						2.00							
													1	20	20	SPARE
SPARE	21						2.00		2.00							
													1	20	22	SPARE
SPARE	23	1	20													
						1.00		1.00					2	20	24	PTAC-1
SPARE	25	1	20													
						1.00	1.00								26	
SPARE	27	1	20													
						1.00		1.00					1	20	28	SPARE
SPARE	29	1	20													
													1	20	30	SPARE
TOTAL CONNECTED LOAD (kVA)				0.31	3.84	6.50	4.96	4.79	4.90	4.00						
TOTAL DEMAND LOAD (kVA)				0.31	3.84	6.50				4.00						

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"FBL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN BREAKER
NEMA 4X
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.
PROVIDE SUB FEED LUGS TO FEED PANEL "FBL2"

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
STORAGE ROOM LIGHTS	1	1	20	1.00				1.00								
													1	20	2	STORAGE ROOM LIGHTS
STORAGE ROOM RECPS	3	1	20		0.54			0.54								
													1	20	4	STORAGE ROOM RECPS
STORAGE ROOM RECPS	5	1	20		0.54			0.54								
													1	20	6	STORAGE ROOM RECPS
STORAGE ROOM EXTERIOR LIGHTS AND TIMECLOCK	7	1	20	1.00					1.00							
							1.13	1.13					1	20	8	MOTORIZED OVERHEAD DOOR
MOTORIZED OVERHEAD DOOR	9	1	20					1.13								
							1.13						1	20	10	MOTORIZED OVERHEAD DOOR
MOTORIZED OVERHEAD DOOR	11	1	20					1.13								
									1.13				1	20	12	SPARE
FLAG POLE LIGHT (RELAY FBR-12	13	1	20													
								1.00	1.00				1	20	14	PLAY CLOCK
SPARE	15	1	20													
								1.50					1	20	16	FOOTBALL SCOREBOARD
STORAGE ROOM EXTERIOR LIGHTS AND TIMECLOCK	17	1	20	1.00					1.00							
													1	20	18	RELAYS FBR-1 THRU FBR-4 CONTROL
SPARE	19	1	20													
													1	20	20	SPARE
SPARE	21	1	20													
													1	20	22	SPARE
SPARE	23	1	20													
													1	20	24	SPARE
SPACE	25	3														
													1		26	SPACE
	27															
													1		28	SPACE
	29															
													1		30	SPACE
TOTAL CONNECTED LOAD (kVA)				3.00	2.16	7.02	4.13	4.84	3.21							
TOTAL DEMAND LOAD (kVA)				3.00	2.16	7.02										

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"FBL2"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.
FED FROM SUB FEED LUGS I PANEL"FBL1".

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
STORAGE ROOM LIGHTS	1	1	20	1.00			1.00									
						1.00	1.00						1	20	2	PLAY CLOCK
STORAGE ROOM RECPS	3	1	20		0.54			0.54								
						1.13		1.13					1	20	4	MOTORIZED OVERHEAD DOOR
STORAGE ROOM RECPS	5	1	20		0.54			0.54								
						1.13		1.13					1	20	6	MOTORIZED OVERHEAD DOOR
STORAGE ROOM EXTERIOR LIGHTS AND TIMECLOCK	7	1	20	1.00			1.00									
					0.36		0.36						1	20	8	FOOTBALL FIELD RECPS
SPARE	9	1	20													
													1	20	10	SPARE
SPARE	11	1	20													
													1	20	12	SPARE
SPARE	13	1	20													
													1	20	14	SPARE
SPARE	15	1	20													
													1	20	16	SPARE
SPARE	17	1	20													
													1	20	18	SPARE
SPARE	19	1	20													
													1	20	20	SPARE
SPARE	21	1	20													
													1	20	22	SPARE
SPARE	23	1	20													
													1	20	24	SPARE
SPACE	25	3														
													1		26	SPACE
	27															
													1		28	SPACE
	29															
													1		30	SPACE
TOTAL CONNECTED LOAD (kVA)				2.00	1.44	3.26	3.36	1.67	1.67							
TOTAL DEMAND LOAD (kVA)				2.00	1.44	3.26										

AD-2

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

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PROJECT
23-112
DATE
08/04/23
COORDINATED BY
PCB
DRAWN BY
PCB/JVC
CHECKED BY
JPB

JOSEPH P. BRIGGS REGISTERED ND. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2

DRAWING
ELECTRICAL SCHEDULES

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
E-604

PROJECT
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE
TRI-CREEK SCHOOL CORPORATION

LOWELL HIGH SCHOOL NORTH STAR BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"NSMDP"
TYPE: SQ D I-LINE OR APPROVED EQUA
277/480V, 3 PH, 4W
600 AMP MAIN LUGS
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 65,000 AMP INTERRUPTING CAPACITY.
RATED FOR SERVICE ENTRANCE.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
PANEL "1NSH1"	1	3	200	8.00		6.10	14.10									
						18.10	18.10						3	200	2	PANEL "1NSH2"
				8.00		6.10		14.10								
						18.10		18.10								
				6.00		6.10			12.10							
						18.10			18.10							
CHILLER	3	3	200			34.00	34.00									
				0.10	36.78	6.40	43.28						3	225	4	150 KVA TRANSFORMER (PANEL "2NSLDP"
						34.00		34.00								
					32.58	4.20		36.78								
						34.00			34.00							
					42.24	9.00			51.24							
SPARE	5	3	70			9.42	9.42									
						7.48	7.48						3	100	6	ELEVATOR
						9.42		9.42								
						7.48		7.48								
						9.42			9.42							
						7.48			7.48							
SPARE	7	3	200													
													3	100	8	SPARE
TOTAL CONNECTED LOAD (kVA)				22.10	111.60	244.90	126.38	119.88	132.34							
TOTAL DEMAND LOAD (kVA)				22.10	60.80	244.90										

LOWELL HIGH SCHOOL NORTH STAR BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"1NSH1"
TYPE: SQ D NF OR APPROVED EQUAL
277/480V, 3 PH, 4W
225 AMP MAIN LUGS
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
LIGHTS	1	1	20	2.00			2.00									
				2.00			2.00						1	20	2	LIGHTS
LIGHTS	3	1	20	2.00				2.00								
				2.00				2.00					1	20	4	LIGHTS
LIGHTS	5	1	20	2.00					2.00							
				2.00					2.00				1	20	6	LIGHTS
LIGHTS	7	1	20	2.00			2.00									
				2.00			2.00						1	20	8	LIGHTS
LIGHTS	9	1	20	2.00				2.00								
				2.00				2.00					1	20	10	LIGHTS
LIGHTS	11	1	20	2.00					2.00							
													1	20	12	LIGHTS
SPARE	13	1	20													
													1	20	14	SPARE
SPARE	15	1	20													
													1	20	16	SPARE
SPARE	17	1	20													
													1	20	18	SPARE
SPARE	19	1	20													
													1	20	20	SPARE
SPARE	21	1	20													
													1	20	22	SPARE
SPARE	23	1	20													
													1	20	24	SPARE
SPARE	25	1	20													
													1	20	26	SPARE
SPARE	27	1	20													
													1	20	28	SPARE
SPARE	29	1	20													
													1	20	30	SPARE
SPARE	31	1	20													
													1	20	32	SPARE
SPARE	33	1	20													
													1	20	34	SPARE
SPARE	35	1	20													
						6.00			6.00				1	20	36	SPARE
AHU-NS4 (3 HP)	37	3	15			1.32	1.32									
						0.94	0.94						3	15	38	AHU-NS3 (5 HP)
	39					1.32		1.32								
						0.94		0.94							40	
	41					1.32			1.32							
						0.94			0.94						42	
TOTAL CONNECTED LOAD (kVA)				22.00		12.78	10.26	10.26	14.26							
TOTAL DEMAND LOAD (kVA)				22.00		12.78										

LOWELL HIGH SCHOOL NORTH STAR BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"1NSH2"
TYPE: SQ D NF OR APPROVED EQUAL
277/480V, 3 PH, 4W
225 AMP MAIN LUGS
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
CHILLED WATER CIRCULATING PUMPCHP-NS1 (5 HP)	1	3	20			2.10	2.10									
						2.10	2.10						3	20	2	CHILLED WATER CIRCULATING PUMP CHP-NS2 (5 HP)
	3					2.10		2.10								
						2.10		2.10							4	
	5					2.10			2.10							
						2.10			2.10						6	
HEATING SYSTEM CIRCULATING PUMP CP-NS1 (5 HP)	7	3	20			2.10	2.10									
						2.10	2.10						3	20	8	HEATING SYSTEM CIRCULATING PUMP CP-NS2 (5 HP)
	9					2.10		2.10								
						2.10		2.10							10	
	11					2.10			2.10							
						2.10			2.10						12	
AHU-NS1 (7 1/2 HP)	13	3	20			3.05	3.05									
						3.05	3.05						3	20	14	AHU-NS2 (3 HP)
	15					3.05		3.05								
						3.05		3.05							16	
	17					3.05			3.05							
						3.05			3.05						18	
SPARE	19	3	20													
													1	20	20	SPARE
	21															
													1	20	22	SPARE
	23															
													1	20	24	SPARE
SPARE	25	1	20													
							3.00			3.00			1	20	26	EH-NS1 (3 KW)
SPARE	27	1	20													
								3.00		3.00			1	20	28	EH-NS2 (3 KW)
SPARE	29	1	20													
									3.00	3.00			1	20	30	EH-NS3 (3 KW)
SPARE	31	1	20													
													1	20	32	SPARE
SPARE	33	1	20													
													1	20	34	SPARE
SPARE	35	1	20													
													1	20	36	SPARE
SPARE	37	1	20													
													1	20	38	SPARE
SPARE	39	1	20													
													1	20	40	SPARE
SPARE	41	1	20													
													1	20	42	SPARE
TOTAL CONNECTED LOAD (kVA)						43.50	17.50	17.50	17.50	9.00						
TOTAL DEMAND LOAD (kVA)						43.50				9.00						

LOWELL HIGH SCHOOL NORTH STAR BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"2NSLDP"
TYPE: SQ D I-LINE OR APPROVED EQ
120/208V, 3 PH, 4W
600 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
PANEL "1NSL2"	1	3	200		19.80	4.40	24.20									
				0.10	10.38	1.82	12.30						3	200	2	PANEL "2NSL1"
					18.24	6.23		24.47								
					8.58	1.12		9.70								
					12.30	5.20			17.50							
					7.02	0.83			7.85							
PANEL "1NSL1"	3	3	200		4.38	7.40	11.78									
													3	200	4	SPARE
					3.96	4.40		8.36								
					4.56	3.80			8.36							
SPACE	5	3	200													
													3	200	6	SPACE
STACKED WASHER	7	3	20													
													3	20	8	STACKED WASHER
STACKED DRYER	9	3	20													
													3	20	10	STACKED DRYER
TOTAL CONNECTED LOAD (kVA)				0.10	89.22	35.20	48.28	42.53	33.71							
TOTAL DEMAND LOAD (kVA)				0.10	49.61	35.20										

LOWELL HIGH SCHOOL NORTH STAR BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"1NSL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
225 AMP MAIN LUGS
NEMA 1
SURFACE MOUNT

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-VH.

DESCRIPTION	CKT	P	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	MOTOR	P	TRIP	CKT	DESCRIPTION
A110,111 RECPS	1	1	20		0.72		0.72									
					0.90		0.90						1	20	2	A112,114 RECPS
A108 RECPS	3	1	20		0.72			0.72								
					0.90			0.90					1	20	4	A118 RECPS
A107 RECPS	5	1	20		0.72				0.72							
					0.90				0.90				1	20	6	A120 RECPS
A102,106 RECPS	7	1	20		0.36		0.36									
					0.54		0.54						1	20	8	A119,123,124 RECPS
A104 RECPS	9	1	20		0.72			0.72								
					1.26			1.26					1	20	10	A123 RECP (REFRIGERATOR)
A103 RECPS	11	1	20		0.72				0.72							
					1.50				1.50				1	20	12	A133 (OZONE)
A109 RECPS	13	1	20		0.36		0.36									
					1.50		1.50						1	20	14	A133 (OZONE)
A131 RECPS	15	1	20		0.36			0.36								
													1	20	16	SPARE
A133,134 RECPS	17	1	20		0.72				0.72							
													1	20	18	SPARE
SPARE	19	1	20													
													1	20	20	SPARE
SPARE	21	1	20													
													1	20	22	SPARE
SPARE	23	1	20													
													1	20	24	SPARE
SPARE	25	1	20													
													1	20	26	SPARE
SPARE	27	1	20													
													1	20	28	SPARE
SPARE	29	1	20													
													1	20	30	SPARE
A110 HAND DRYER	31	1	20			1.50	1.50									
						1.50	1.50						1	20	32	A117 HAND DRYER
A110 HAND DRYER	33	1	20			1.50		1.50								
						1.50		1.50					1	20	34	A117 HAND DRYER
A111 HAND DRYER	35	1	20			1.50			1.50							
						1.50			1.50				1	20	36	A115 HAND DRYER
A111 HAND DRYER	37	1	20			1.50	1.50									
						1.50	1.50						1	20	38	A115 HAND DRYER
SPARE	39	1	20													
													1	20	40	SPARE
SPARE	41	1	20													
													1	20	42	SPARE
FCU-NS13	43	1	20			0.70	0.70									
						0.70	0.70						1	20	44	FCU-NS12
FCU-NS14	45	1	20			0.70		0.70								
						0.70		0.70					1	20	46	FCU-NS4
FCU-NS15	47	1	20			0.70			0.70							
						0.10			0.10				1	20	48	FCU-NS2
CONNECTED LOAD (KVA)					12.90	15.60	11.78	8.36	8.36							
DEMAND LOAD (KVA)					11.45	15.60	11.26	8.05	7.75							
DEMAND AMPS							93.8	67.1	64.6							
		TOTAL DEMAND KVA: 27.05								TOTAL DEMAND AMPS: 94						

LOWELL HIGH SCHOOL NORTH STAR BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"1NSL2"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
225 AMP MAIN LUGS
NEMA 1
SURFACE MOUNT

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-VH.

DESCRIPTION	CKT	P	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	MOTOR	P	TRIP	CKT	DESCRIPTION
A152 RECP	1	1	1		0.18		0.18									
													1	20	2	A151 RECPS
EXTERIOR RECPS	3	1	20		0.36			0.36								
						0.83		0.83					1	20	4	UH-NS1, CP-1 (1/6 HP), CUH-NS1
FIRE ALARM CONTROL PANEL	5	1	20			1.00			1.00							
					0.72				0.72				1	20	6	A138,148 RECPS
WATER SOFTENER	7	1	20		1.50		1.50									
					0.54		0.54						1	20	8	A149,150,152 RECPS
A127 RECP	9	1	20		1.50			1.50								
					1.50			1.50					1	20	10	DWH-1 (5 AMPS) DWH-2 (5 AMPS)
A127 RECP	11	1	20		1.50				1.50							
													1	20	12	EF-NS4
A127 RECP	13	1	20		1.50		1.50									
					1.50		1.50						1	20	14	A149 HAND DRYER
A127 RECPS	15	1	20		0.90			0.90								
					1.50			1.50					1	20	16	A149 HAND DRYER
A127 RECP (WHIRLPOOL)	17	1	20		1.50				1.50							
					1.50				1.50				1	20	18	A150 HAND DRYER
A127 RECPS (WHIRLPOOL)	19	1	20		1.50		1.50									
					1.50		1.50						1	20	20	A150 HAND DRYER
A128 RECPS	21	1	20		0.90			0.90								
					1.50			1.50					1	20	22	A149 HAND DRYER
SPARE	23	1	20													
					1.50				1.50				1	20	24	A149 HAND DRYER
A139,140,143,145 RECPS	25	1	20		1.08		1.08									
					1.50		1.50						1	20	26	A143 HAND DRYER
A141,146 RECPS	27	1	20		1.08			1.08								
					1.50			1.50					1	20	28	A143 HAND DRYER
A142,147 RECPS	29	1	20		0.36				0.36							
													1	20	30	SPARE
A139 HAND DRYER	31	1	20			1.50	1.50									
													1	20	32	SPARE
A139 HAND DRYER	33	1	20			1.50		1.50								
						1.50		1.50					1	20	34	CHILLER PIPING HEAT TRACE
A143 HAND DRYER	35	1	20			1.50			1.50							
													1	20	36	SPARE
A143 HAND DRYER	37	1	20			1.50	1.50									
													1	20	38	SPARE
SPARE	39	1	20													
													1	20	40	SPARE
SPARE	41	1	20													
													1	20	42	SPARE
FCU-NS6	43	1	20			0.70	0.70									
						0.70	0.70						1	20	44	FCU-NS5
FCU-NS7	45	1	20			0.70		0.70								
						0.70		0.70					1	20	46	FCU-NS1
SPARE	47	1	20													
						0.70			0.70				1	20	48	FCU-NS3
SPARE	49	1	20													
					9.00		9.00						3	100	50	PANEL "1NSL3"
SPARE	51	1	20													
					7.50	1.00		8.50							52	
SPARE	53	1	20													
					5.22	2.00			7.22						54	
CONNECTED LOAD (KVA)					50.34	15.83	24.20	24.47	17.50							
DEMAND LOAD (KVA)					30.17	15.83	15.97	17.02	13.02							
DEMAND AMPS							133.1	141.8	108.5							
		TOTAL DEMAND KVA: 46.00								TOTAL DEMAND AMPS: 142						

LOWELL HIGH SCHOOL COMMUNITY BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"1NSL3"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN LUGS
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
A154 RECPS	1	1	20		1.50		1.50									
					1.50		1.50						1	20	2	A153 RECPS
A153 RECP (FREEZER)	3	1	20		1.50			1.50								
					1.50			1.50					1	20	4	A153 RECP (MICROWAVE)
A153 RECP (REFRIGERATOR)	5	1	20		1.50				1.50							
					1.50				1.50				1	20	6	A153 RECP (GRIDDLE)
A153 RECP	7	1	20		1.50		1.50									
					1.50		1.50						1	20	8	A153 RECP (GRIDDLE)
A153 RECP (POP COOLER)	9	1	20		1.50			1.50								
					1.50			1.50					1	20	10	A153 RECP
A153 RECPS	11	1	20		0.72				0.72							
					1.50				1.50				1	20	12	A153 RECP (MICROWAVE)
A153 RECP (WARMER)	13	1	20		1.50		1.50									
					1.50		1.50						1	20	14	A153 RECP
SPARE	15	1	20													
					1.50			1.50					1	20	16	A153 RECP (POP COOLER)
SPARE	17	1	20													
						1.00			1.00				1	20	18	A153 CEILING FANS
SPARE	19	1	20													
													1	20	20	SPARE
SPARE	21	1	20													
													1	20	22	SPARE
SPARE	23	1	20													
													1	20	24	SPARE
SPARE	25	1	20													
													1	20	26	SPARE
SPARE	27	1	20													
						1.00		1.00					2	20	28	A153 208V RECP (POP CORN POPPER)
SPARE	29	1	20													
						1.00			1.00						30	
TOTAL CONNECTED LOAD (kVA)					21.72	3.00	9.00	8.50	7.22							
TOTAL DEMAND LOAD (kVA)					15.86	3.00										

LOWELL HIGH SCHOOL NORTH STAR BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"2NSL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
225 AMP MAIN LUGS
NEMA 1
SURFACE MOUNT

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-VH.

DESCRIPTION	CKT	P	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	MOTOR	P	TRIP	CKT	DESCRIPTION
A202 RECPS	1	1	20		0.72		0.72									
					0.90		0.90						1	20	2	A201 RECPS
A203 RECP	3	1	20		0.18			0.18								
					0.90			0.90					1	20	4	A201 RECP
A203 RECP (ICE MAKER)	5	1	20		1.50				1.50							
					0.90				0.90				1	20	6	A201 RECP
A201 RECP (DATA EQUIPMENT)	7	1	20		1.50		1.50									
					1.50		1.50						1	20	8	A201 RECP
A205 RECP (REFRIGERATOR)	9	1	20		1.50			1.50								
													1	20	10	A201 RECP
A205 RECP (PORTABLE OVEN)	11	1	20		1.50				1.50							
													1	20	12	A201 RECP
A205 RECP	13	1	20		1.50		1.50									
													1	20	14	BALCONY RECP
A205 RECP	15	1	20		1.50			1.50								
													1	20	16	BALCONY RECP
A205,206,207 RECPS	17	1	20		0.54				0.54							
													1	20	18	BALCONY RECP
A201 RECP (POP COOLER)	19	1	20		1.50		1.50									
					0.72		0.72						1	20	20	A211 RECPS
A201 RECP (POP COOLER)	21	1	20		1.50			1.50								
					1.50			1.50					1	20	22	A201 RECP
A208 RECP (WC)	23	1	20		0.18				0.18							
					1.50				1.50				1	20	24	A201 RECP
A208,210 RECPS	25	1	20		0.54		0.54									
					1.50		1.50						1	20	26	A201 RECP
ELEVATOR CAB LIGHTS	27	1	20	0.10				0.10								
					1.50			1.50					1	20	28	A201 RECP
ELEVATOR SHAFT RECP	29	1	20		0.18				0.18							
					0.72				0.72				1	20	30	A211 RECPS
A201 PROJECTION SCREEN MOTOR	31	1	20			1.12	1.12									
													1	20	32	BBR-NS2
A201 PROJECTION SCREEN MOTOR	33	1	20			1.12		1.12								
													1	20	34	BBR-NS1
EF-NS2 (1/6 HP) EF-NS3 (1/12 HP)	35	1	20			0.83			0.83							
													1	20	36	SPARE
UH-NS2 (1/8 HP) UH-NS3 (1/8 HP)	37	1	20			0.70	0.70									
													1	20	38	SPARE
EF-NS1 (1/8 HP)	39	1	20													
													1	20	40	SPARE
SPARE	41	1	20													
													1	20	42	SPARE
SPARE	43	1	20													
													1	20	44	SPARE
SPARE	45	1	20													
													1	20	46	SPARE
SPARE	47	1	20													
													1	20	48	SPARE
SPARE	49	1	20													
													1	20	50	SPARE
SPARE	51	1	20													
													1	20	52	SPARE
SPARE	53	1	20													
													1	20	54	SPARE
CONNECTED LOAD (KVA)				0.10	25.98	3.77	12.20	9.80	7.85							
DEMAND LOAD (KVA)				0.10	17.99	3.77	8.68	7.18	6.01							
DEMAND AMPS							72.3	59.8	50.1							
			TOTAL DEMAND KVA: 21.86							TOTAL DEMAND AMPS: 73						

GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE
TRI-CREEK SCHOOL CORPORATION

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PROJECT 23–112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB/JVC
CHECKED BY JPB

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD–2	08/31/23	ADDENDUM NO. 2
		(ENTIRE SHEET)

DRAWING
ELECTRICAL SCHEDULES

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
E-605

LOWELL HIGH SCHOOL MAINTENANCE STORAGE BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"MSBH1"
TYPE: SQ D NF OR APPROVED EQUAL
277/480V, 3 PH, 4W
600 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.
PANEL SHALL BE RATED FOR SERVICE ENTRANCE.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
ELEVATOR	1	3	100													
													1	20	2	
	3															
													1	20	4	
	5															
													1	20	6	
	7	3	20													
													1	20	8	
	9															
													1	20	10	
	11															
													1	20	12	
	13	1	20													
													3	70	14	30 KVA XFMR (PANEL "MSBL1")
	15	1	20												16	
	17	1	20												18	
TOTAL CONNECTED LOAD (kVA)																
TOTAL DEMAND LOAD (kVA)																

LOWELL HIGH SCHOOL COMMUNITY BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"CBH1"
TYPE: SQ D NF OR APPROVED EQ
277/480V, 3 PH, 4W
400 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUITS SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.
PANEL SHALL BE RATED FOR SERVICE ENTRANCE.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
LIGHTS	1	1	20	1.00			1.00									
						1.00	1.00						1	20	2	RELAY CBR-1 AND TIMECLOCK
LIGHTS	3	1	20	1.00				1.00								
													1	20	4	SPARE
EXTERIOR LIGHTS	5	1	20	0.50					0.50							
													1	20	6	SPARE
EWH-CB6 (3 KW)	7	1	20				3.00									
							3.00						1	20	8	EH-CB7 (3 KW)
EWH-CB4 (3 KW)	9	1	20					3.00								
								3.00					1	20	10	EH-CB9 (3 KW)
EH-CB6 (3 KW)	11	1	20						3.00							
									3.00				1	20	12	EH-CB10 (3 KW)
EWH-CB3 (3 KW)	13	1	20				3.00									
							3.00						1	20	14	EH-CB8 (3 KW)
EH-CB4 (3 KW)	15	1	20					3.00								
								3.00					1	20	16	EH-WB5 (3 KW)
EWH-CB2 (3 KW)	17	1	20						3.00							
									3.00				1	20	18	EH-CB5 (3 KW)
EH-CB1 (3 KW)	19	1	20				3.00									
							3.00						1	20	20	EWH-CB1 (3 KW)
EH-CB2 (2 KW)	21	1	20					3.00								
								3.00					1	20	22	EH-WB8 (3 KW)
EH-CB3 (3 KW)	23	1	20						3.00							
									3.00				1	20	24	EH-WB7 (3 KW)
SPARE	25	1					3.00									
													1	20	26	EH-WB9 (3 KW)
SPARE	27	1														
													1	20	28	SPARE
SPARE	29	1														
													1	20	30	SPARE
SPARE	31	1														
							10.00						3	50	32	DWH-2 (30 KW)
SPARE	33	1														
								10.00							34	
SPARE	35	1														
									10.00	10.00					36	
PANEL "SLH1"	37	3	100	4.25			4.25									
					11.70		11.70						3	80	38	45 KVA XFMR (PANEL "CBL1")
	39			5.25				5.25								
				1.00	12.34	3.17		16.51							40	
	41			3.70												
					9.40	0.50			9.90						42	
TOTAL CONNECTED LOAD (kVA)				13.00	33.44	4.67	48.95	50.76	38.40	87.00						
TOTAL DEMAND LOAD (kVA)				13.00	21.72	4.67				87.00						

LOWELL HIGH SCHOOL COMMUNITY BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"CBL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
150 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
SPIRIT SHOP RECPS	1	1	20		0.72		0.72									
					0.36		0.36						1	20	2	STORAGE RECPS
SPIRIT SHOP RECPS	3	1	20		1.08			1.08								
																RESTROOM/ STORAGE RECPS
					0.54			0.54					1	20	4	
STORAGE TOILET RECPS	5	1	20		0.36				0.36							
					0.54				0.54				1	20	6	RESTROOM/ STORAGE RECPS
HAND DRYER	7	1	20		1.50		1.50						1	20	8	HAND DRYER
HAND DRYER	9	1	20		1.50			1.50								
						0.35		0.35					1	20	10	EF-CB1
HAND DRYER	11	1	20		1.50				1.50							
						0.10			0.10				1	20	12	CEILING FAN
SPARE	13	1	20													
						0.83	0.83						1	20	14	CP-2 (1/6 HP) CP-3 (1/12 HP)
SPARE	15	1	20										1	20	16	SPARE
SPARE	17	1	20													
													1	20	18	SPARE
SPARE	19	1	20													
													1	20	20	SPARE
SPARE	21	1	20													
													1	20	22	SPARE
SPARE	23	1	20													
													1	20	24	SPARE
PANEL "CBL2"	25	3	100		7.62		7.62									
													1	20	26	SPARE
	27				8.50			8.50								
				1.00	0.72	2.82		4.54					2	100	28	PANEL "TBL1"
	29				6.28				6.28							
					0.72	0.50			1.22						30	
TOTAL CONNECTED LOAD (kVA)				1.00	33.44	4.60	12.53	16.51	10.00							
TOTAL DEMAND LOAD (kVA)				1.00	21.72	4.60										

LOWELL HIGH SCHOOL COMMUNITY BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"CBL2"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN LUGS
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
RECPS	1	1	20		1.50		1.50									
					0.54		0.54						1	20	2	RECPS
RECP (GRIDDLE)	3	1	20		1.50			1.50								
					1.50			1.50					1	20	4	RECP (MICROWAVE)
RECP (GRIDDLE)	5	1	20		1.50				1.50							
					1.08				1.08				1	20	6	RECPS
RECP (MICROWAVE)	7	1	20		1.50		1.50									
					1.50		1.50						1	20	8	RECP (FOOD WARMER)
RECP (FOOD WARMER)	9	1	20		1.50			1.50								
					1.50			1.50					1	20	10	RECP (POP COOLER)
RECPS (INTERIOR TELEVISION MONITORS)	11	1	20		1.08				1.08							
					1.50				1.50				1	20	12	RECP (POP COOLER)
RECPS (EXTERIOR TELEVISION MONITORS)	13	1	20		1.08		1.08									
					1.50		1.50						1	20	14	RECP (UPRIGHT REFRIGERATOR)
SPARE	15	1	20													
					1.50			1.50					1	20	16	RECP (UPRIGHT FREEZER)
SPARE	17	1	20													
					0.12				0.12				1	20	18	CEILING FANS
SPARE	19	1	20													
													1	20	20	SPARE
SPARE	21	1	20													
													1	20	22	SPARE
SPARE	23	1	20													
															24	
SPARE	25	1	20													
															26	
SPARE	27	1	20													
					1.00			1.00					2	20	28	208 VOLT RECP (POPCORN POPPER)
SPARE	29	1	20													
					1.00				1.00						30	
TOTAL CONNECTED LOAD (kVA)					22.40		7.62	8.50	6.28							
TOTAL DEMAND LOAD (kVA)					16.20											

LOWELL HIGH SCHOOL MAINTENANCE STORAGE BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"MSBL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
SPARE	1	1	20													
					0.36		0.36						1	20	2	RECPS
SPARE	3	1	20													
					0.36			0.36					1	20	4	RECPS
SPARE	5	1	20													
					0.36				0.36				1	20	6	RECPS
SPARE	7	1	20													
													1	20	8	SPARE
SPARE	9	1	20													
													1	20	10	SPARE
SPARE	11	1	20													
													1	20	12	SPARE
SPARE	13	1	20													
													1	20	14	SPARE
SPARE	15	1	20													
													1	20	16	SPARE
SPARE	17	1	20													
													1	20	18	SPARE
SPACE	19	1														
													1		20	SPACE
SPACE	21	1														
													1		22	SPACE
SPACE	23	1														
													1		24	SPACE
SPACE	25	1														
													1		26	SPACE
SPACE	27	1														
													1		28	SPACE
SPACE	29	1														
													1		30	SPACE
TOTAL CONNECTED LOAD (kVA)					1.08		0.36	0.36	0.36							
TOTAL DEMAND LOAD (kVA)					1.08											

GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23–112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB/JVC
CHECKED BY JPB

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2 (ENTIRE SHEET)

DRAWING
ELECTRICAL SCHEDULES

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

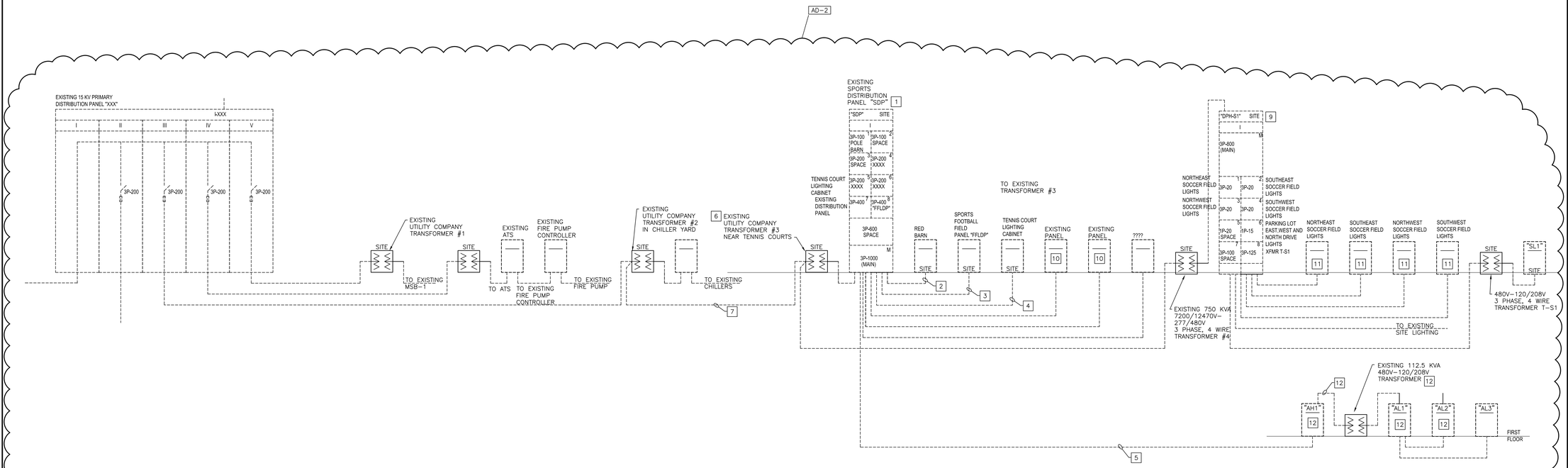
SHEET
E-606

AD-2

ELECTRICAL DEMOLITION PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

1. REMOVE EXISTING DISTRIBUTION PANEL "SDP". INTERCEPT ANY EXISTING FEEDERS SERVING EQUIPMENT, THAT REMAINS, AND EXTEND TO THE NEW DISTRIBUTION PANEL "SDP", UNLESS OTHERWISE NOTED.
2. REMOVE EXISTING FEEDER TO THE RED BARN BEING REMOVED.
3. REMOVE EXISTING FEEDER TO EXISTING FOOTBALL FIELD PANEL "FFLDP" AND PREPARE EXISTING FOOTBALL FIELD PANEL FOR NEW FEEDER FROM NEW DISTRIBUTION PANEL "SDP".
4. REMOVE EXISTING FEEDERS TO THE TENNIS COURT LIGHTING PANEL
5. REMOVE THE EXISTING FEEDER TO PANEL "AH1" IN THE NORTH STAR BUILDING.
6. RELOCATE THE EXISTING PAD MOUNTED TRANSFORMER. SEE SHEETS ES101, ES102 AND ES108.
7. SEE SHEETS ED101 AND ES08 FOR INFORMATION ON EXISTING FEEDER FROM EXISTING TRANSFORMER #2 TO EXISTING TRANSFORMER #3, WHICH IS BEING RELOCATED.
8. REMOVE EXISTING FEEDER FROM EXISTING TRANSFORMER #3, WHICH IS BEING RELOCATED TO EXISTING TRANSFORMER #4. SEE SHEETS ES101, ES102 AND ES108.
9. EXISTING DISTRIBUTION PANEL "DPHS1" SHALL BE REPLACED WITH NEW PANEL "DPHS1". INTERCEPT EXISTING CIRCUITS SERVING EQUIPMENT THAT REMAINS AND EXTEND TO NEW PANEL "DPSH1". PROVIDE NEW FEEDER AS SHOWN ON THE NEW POWER DISTRIBUTION DIAGRAM.
10. RELOCATE EXISTING PANEL. INTERCEPT EXISTING BRANCH CIRCUITS SERVING EXISTING LIGHTS, EQUIPMENT, ETC. THAT REMAINS AND EXTEND TO RELOCATED PANEL. PROVIDE NEW FEEDER TO CONNECT TO NEW PANEL "SDP"
11. REMOVE BRANCH CIRCUITS AND LIGHTING CONTROLS TO THE SOCCER FIELD LIGHTS.
12. REMOVE EXISTING PANELS "AH1", "AL1" "AL2" AND TRANSFORMER. DISCONNECT EXISTING BRANCH CIRCUITS FROM EXISTING PANELS "AH1", "AL1" AND "AL2". DISCONNECT AND REMOVE PRIMARY AND SECONDARY FEEDER TO EXISTING 480V-120/208V TRANSFORMER.



ELECTRICAL PARTIAL DEMOLITION POWER DISTRIBUTION DIAGRAM

SCALE: NOT TO SCALE

---------- EXISTING TO REMAIN, UNLESS OTHRWISE NOTED

———— NEW

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112

DATE 08/04/23

COORDINATED BY PCB

DRAWN BY PCB/JVC

CHECKED BY JPB

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2

DRAWING

ELECTRICAL PARTIAL DEMOLITION POWER DISTRIBUTION DIAGRAM

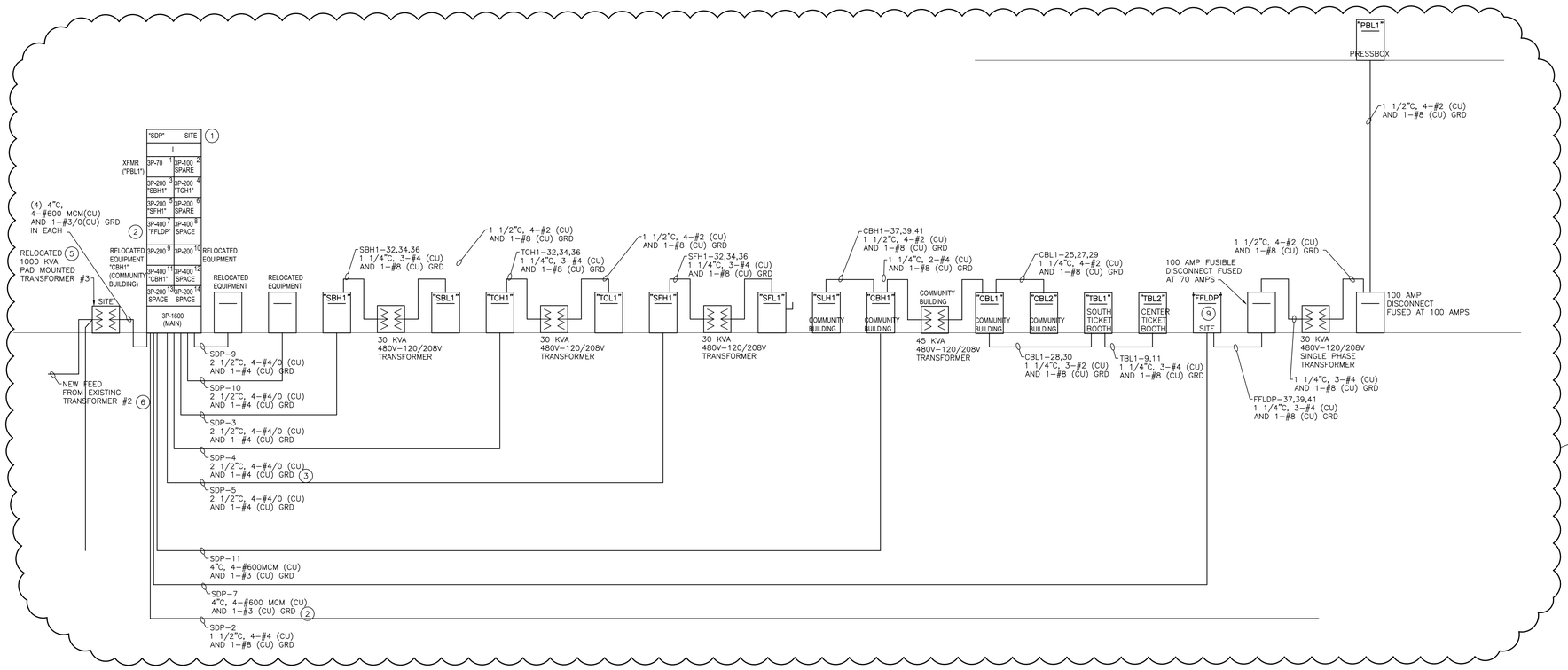
PROJECT

LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET

E-701

Thursday, 8/31/2023 - 2:53 PM - LAST SAVED BY:JCHAMBERS
Y:\23-112 TRI-CREEK SC - LOWELL HS SITE IMPROVEMENTS\2X-XXX DRAWINGS\09 ELEC\E-701.DWG



ELECTRICAL PARTIAL POWER DISTRIBUTION DIAGRAM

SCALE: NOT TO SCALE

---------- EXISTING TO REMAIN

_____ NEW

ELECTRICAL PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

1. NEW DISTRIBUTION PANEL "SDP". INTERCEPT ANY EXISTING FEEDERS SERVING EQUIPMENT, THAT REMAINS, AND EXTEND TO THE NEW DISTRIBUTION PANEL "SDP", UNLESS OTHERWISE NOTED.
2. NEW FEEDER TO NEW FOOTBALL FIELD PANEL "FFLDP".
3. NEW FEEDER TO THE TENNIS COURT LIGHTING PANEL
4. NEW FEEDER TO THE NORTH STAR BUILDING.
5. RELOCATED PAD MOUNTED TRANSFORMER #3. SEE SHEETS ES101, ES102 AND ES108.
6. SEE SHEETS ES101, ES102 ANS ES108 FOR INFORMATION ON THE FEEDER FROM EXISTING TRANSFORMER #2 TO RELOCATED TRANSFORMER #3.
7. NEW FEEDER FROM RELOCATED TRANSFORMER #3 TO EXISTING TRANSFORMER #4. SEE SHEETS ES101, ES102 AND ES108.
8. NEW DISTRIBUTION PANEL "DPHS1". INTERCEPT ANY EXISTING FEEDERS SERVING EQUIPMENT, THAT REMAINS, AND EXTEND TO THE NEW DISTRIBUTION PANEL "SDP", UNLESS OTHERWISE NOTED.
9. REPLACE EXISTING PANEL "FFLDP" WITH NEW PANEL "FFLDP". INTERCEPT EXISTING CIRCUITS SERVING LIGHTING FIXTURES, EQUIPMENT, ETC. THAT REMAIN AND EXTEND TO NEW PANEL "FFLDP".

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB/JVC
CHECKED BY JPB

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2

DRAWING
ELECTRICAL PARTIAL POWER DISTRIBUTION DIAGRAM

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
E-702

Thursday, 8/31/2023 - 2:53 PM - LAST SAVED BY:JCHAMBERS
Y:\23-112 TRI-CREEK SC - LOWELL HS SITE IMPROVEMENTS\2X-XXX DRAWINGS\09 ELEC\E-702.DWG