2018 APPENDIX B BUILDING CODE SUMMARY

Name of Project: Campbell University Baseball Open Shelter

Address: Buies Creek, North Carolina Zip Code: 27506

Proposed Use: Baseball Practice Open Shelter

Owner or Authorized Agent : Michael Weaver Phone # 919-282-2443 E-Mail: michael@si-nc.com

Owned By: ☐ City / County ☒ Private ☐ State

Code Enforcement Jurisdiction ☐ City ☒ County Harnett County ☐ State

LEAD DESIGN PROFESSIONAL : Joe T. Smith, Jr.

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Building	Smith Engineering & Design	Joe T. Smith, Jr.	24916	(919)-736-2141	smithengineeringnc@hotmail.com
Civil					
Electrical	Smith Engineering & Design	Joe T. Smith, Jr.	24916	(919)-736-2141	smithengineeringnc@hotmail.com
Fire Alarm					
Plumbing					
Mechanical					
Sprinkler-Standpipe					
Structural	Smith Engineering & Design	Joe T. Smith, Jr.	24916	(919)-736-2141	smithengineeringnc@hotmail.com
Retaining Walls >5' High					
Other					

2018 NC BUILDING CODE: ☒ New Construction ☐ Shell/Core ☐ 1st Time Interior Completion (Partial) ☐ Addition ☐ Phased Construction-Shell Core

2018 NC EXISTING CODE: (check all that apply) ☐ Prescriptive ☐ Alteration Level I ☐ Historic Property ☐ Repair ☐ Alteration Level II ☐ Change of Use ☐ Chapter 14 ☐ Alteration Level III

CONSTRUCTED: (date) _____ **CURRENT USE(s) (Ch. 3)** N/A

RENOVATED: (date) _____ **PROPOSED USE(s) (Ch. 3)** A-3 Assembly

BUILDING DATA

Construction Type : (check all that apply) ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A ☐ I-B ☒ II-B ☐ III-B ☐ V-B

Sprinklers : ☒ NO ☐ Partial ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D

Standpipes : ☒ NO Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry

Primary Fire District : ☒ NO ☐ YES (Primary) **Flood Hazard Area:** ☒ No ☐ YES

Special Inpections Required: ☒ NO ☐ YES

GROSS BUILDING AREA TABLE

FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUB-TOTAL
3th Floor			
2nd Floor			
Mezzanine			
1stFloor (Upper Level)	0	6,400	6,400
Basement (Lower Level)			
TOTAL :	0	6,400	6,400

ALLOWABLE AREA

Primary Occupancy :

Assembly ☐ A-1 ☐ A-2 ☒ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HMP
Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
I-3 Condition ☐ 1 ☐ 2
I-2 Condition ☐ 1 ☐ 2
I-1 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-Piled ☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Misc. ☐

Accessory Occupancy Classification(s) : _____

Incidental Uses: (Table 509)

This separation is not exempt as a Nonseparated Use (see exceptions).

Special Uses: (Chapter 4 - List Code Sections): _____

Special Provisions: (Chapter 5 - List Code Sections): _____

Mixed Occupancy: ☒ NO ☐ YES Secondary occupancy type(s): _____ Separation : _____ Hour Exception : _____

☐ Non-Separated Use (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Use (508.4) See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} = \leq 1.0$$

$$\frac{\text{N/A}}{\text{N/A}} \quad \text{N/A} + \frac{\text{N/A}}{\text{N/A}} \quad \text{N/A} = \text{N/A} \leq 1.0$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	A-3	6,400	9,500	Not Used	9,500

[1] Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase I_f = 100 [F/P - 0.25] x W/30 = _____ (%)

[2] Unlimited area applicable under conditions of Section 507.

[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).

[4] The maximum area of parking garages must comply with 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.

[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	55	18'-4"	
Building Height in Stories (Table 504.4)	2	1	

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQUIRED	RATING PROVIDED (W/ N/A * REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural frame, including columns, girders, trusses		0 HOUR	0 HOUR				
Bearing walls							
Exterior							
North	N/A	0 HOUR	N/A				
East	N/A	0 HOUR	N/A				
West	N/A	0 HOUR	N/A				
South	N/A	0 HOUR	N/A				
Interior		0 HOUR	N/A				
Nonbearing walls and partitions							
Exterior							
North	>30'	0 HOUR	0 HOUR				
East	>30'	0 HOUR	0 HOUR				
West	>30'	0 HOUR	0 HOUR				
South	>30'	0 HOUR	0 HOUR				
Interior walls and partitions		0 HOUR	0 HOUR				
Floor Construction including supporting beams and joists		0 HOUR	0 HOUR				
Roof Construction including supporting beams and joists		0 HOUR	0 HOUR				
Roof Ceiling Assembly		N/A	N/A				
Columns Supporting Roof		N/A	N/A				
Shafts Enclosures - Exit		N/A	N/A				
Shafts Enclosures - Other		N/A	N/A				
Corridor Separation		N/A	N/A				
Occupancy/Fire Barrier Separation		N/A	N/A				
Party/Fire Wall Separation		N/A	N/A				
Smoke Barrier Separation		N/A	N/A				
Smoke Partition		N/A	N/A				
Tenant/Dwelling Unit/ Sleeping Unit Separation		N/A	N/A				
Incidental Use Separation		N/A	N/A				

*Indicates section number permitting reduction.

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
>30'	Unprotected, Nonsprinklered	No Limit	N/A

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☒ No ☐ Yes
Fire Alarm: ☒ No ☐ Yes ☐ Partial
Smoke Detection Systems: ☒ No ☐ Yes ☐ Partial
Carbon Monoxide Detection: ☒ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: N/A (Open Shelter)

☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☐ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
☐ Occupant loads for each area
☐ Exit access travel distances (1017)
☐ Common path of travel distances [Tables 1006.2.1 & 1006.3.2(1)]
☐ Dead end lengths (1020.4)
☐ Clear exit widths for each exit door
☐ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☐ Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
☐ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☐ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # PARKING SPACES		# ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE SPACES PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
Existing						
TOTAL						

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATER CLOSETS MALE	WATER CLOSETS FEMALE	WATER CLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS & TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
Maximum Occ. Load 125 people	EXISTING	0	0	0	0	0	0	0	0	0	0
	NEW	0	0	0	0	0	0	0	0	0	0
	REQUIRED	1	1	0	0	1	1	0	0	1	1

**Note: Existing plumbing fixtures are provided within 500 feet.

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.0; Seismic (I_E) 1.0

Live Loads: Roof 20 PSF; Mezzanine N/A; Floor 100 PSF

Ground Snow Load: 15 PSF

Wind Loads: Basic Wind Speed 117 MPH (ASCE 7-10); Exposure Category B

Metal building portion to be supplied by metal building manufacturer

SEISMIC CATEGORY ☐ A ☐ B ☒ C ☐ D

Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) ☐ I ☒ II ☐ III ☐ IV
Spectral Response Acceleration S_s 17.9 %g S_1 8.5 %g
Site Classification (ASCE-7) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F
Data source: ☐ Field Test ☒ Presumptive ☐ Historical Data
Basic Structural System: (check one)
☐ Bearing Wall ☐ Dual W/ Special Moment Frame
☒ Building Frame ☐ Dual W/ Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum

Analysis Procedure: ☐ Simplified ☒ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components Anchored? ☐ Yes ☒ No

LATERAL DESIGN CONTROL: ☐ Earthquake ☒ Wind

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) N/A psf
Presumptive Bearing Capacity 2000 psf
Pile Size, Type, and Capacity N/A

SPECIAL INSPECTIONS REQUIRED: ☐ Yes ☒ No

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ (If checked, the remainder of this section is not applicable.)
Exempt Building: ☐ Provide code or statutory reference: Thermal envelope elements do not apply; This structure is an open shelter.
Climate Zone : ☐ 3 ☒ 4 ☐ 5
Method of Compliance :
Energy Code: ☐ Performance ☒ Prescriptive ☐ Trade-Off
ASHRAE 90.1: ☐ Performance ☐ Prescriptive ☐ Trade-Off
Other: ☐ Performance (specify source) _____

THERMAL ENVELOPE :

Roof/Ceiling Assembly (each assembly)
Description of Assembly N/A
U-value of Total Assembly N/A
R-value of Insulation N/A
Skylights in each assembly N/A
U-Value of skylight N/A
Total square footage of skylights in each assembly N/A

Exterior Walls (each assembly)
Description of Assembly N/A
U-value of Total Assembly N/A
R-value of Insulation N/A
Openings (windows or doors with glazing) N/A
U-Value of assembly N/A
Solar heat gain coefficient: N/A
Projection factor: N/A
Door R-Values: N/A

Walls below grade (each assembly)
Description of Assembly N/A
U-value of Total Assembly N/A
R-value of Insulation N/A

Floors over unconditioned space (each assembly)
Description of Assembly N/A
U-value of Total Assembly N/A
R-value of Insulation N/A

Floors slab on grade
Description of Assembly N/A
U-value of Total Assembly N/A
R-value of Insulation N/A
Horizontal/vertical requirement N/A
Slab heated N/A

INDEX TO DRAWINGS

COVER / CODE SUMMARY
T-1 COVER SHEET

STRUCTURAL
S-1 FOUNDATION PLAN & NOTES
S-2 FOUNDATION DETAILS

ELECTRICAL
E-1 ELECTRICAL LIGHTING PLAN

SMITH ENGINEERING AND DESIGN, P.A.
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 024916 10-17-23 ENGINEER JOE T. SMITH JR.

REVISIONS

NO.	DATE	DESCRIPTION

New Facility for:
Campbell University
Baseball Open Shelter
Buies Creek, NC

DATE: 17 October 2023
DRAWN BY: T.B.
SCALE: NO SCALE

T-1

STRUCTURAL NOTES

GENERAL

1. THESE DRAWINGS ARE TO BE COORDINATED WITH THE PRE-ENGINEERED METAL BUILDING PLANS.
2. THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE NC BUILDING CODE AND ANY LOCAL LAWS WHERE THE STRUCTURE IS TO BE CONSTRUCTED.

MISCELLANEOUS

1. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING, SHORING, AND GUYING OF FRAMING AND WALLS AGAINST WIND, CONSTRUCTION LOADS, AND OTHER TEMPORARY FORCES UNTIL SUCH PROTECTION IS NO LONGER REQUIRED FOR THE SAFE SUPPORT OF THE FRAMING.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE DIMENSIONS OF THE STRUCTURAL DRAWINGS AND ADVISING THE ENGINEER OF ANY DIFFERENCES IN DIMENSIONS BETWEEN THE METAL BUILDING PLANS AND SECTIONS PRIOR TO COMMENCING CONSTRUCTION.
3. CONSTRUCTION SAFETY: THESE STRUCTURAL DRAWINGS DO NOT CONTAIN NECESSARY COMPONENTS FOR SAFETY DURING CONSTRUCTION.

FOUNDATIONS

1. THE STRUCTURAL ENGINEER HAS NOT PERFORMED A SUBSURFACE INVESTIGATION. THE FOUNDATION IS BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 2000 PSF NET BEARING. VERIFICATION OF THIS ASSUMED VALUE IS THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR. SHOULD ANY ADVERSE SOIL CONDITION BE ENCOUNTERED, THE STRUCTURAL ENGINEER MUST BE CONTACTED BEFORE PROCEEDING.
2. ANY FILL SHALL BE PLACED UNDER THE DIRECTION OR RECOMMENDATION OF A LICENSED PROFESSIONAL ENGINEER. THE RESULTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT MAXIMUM DRY DENSITY.

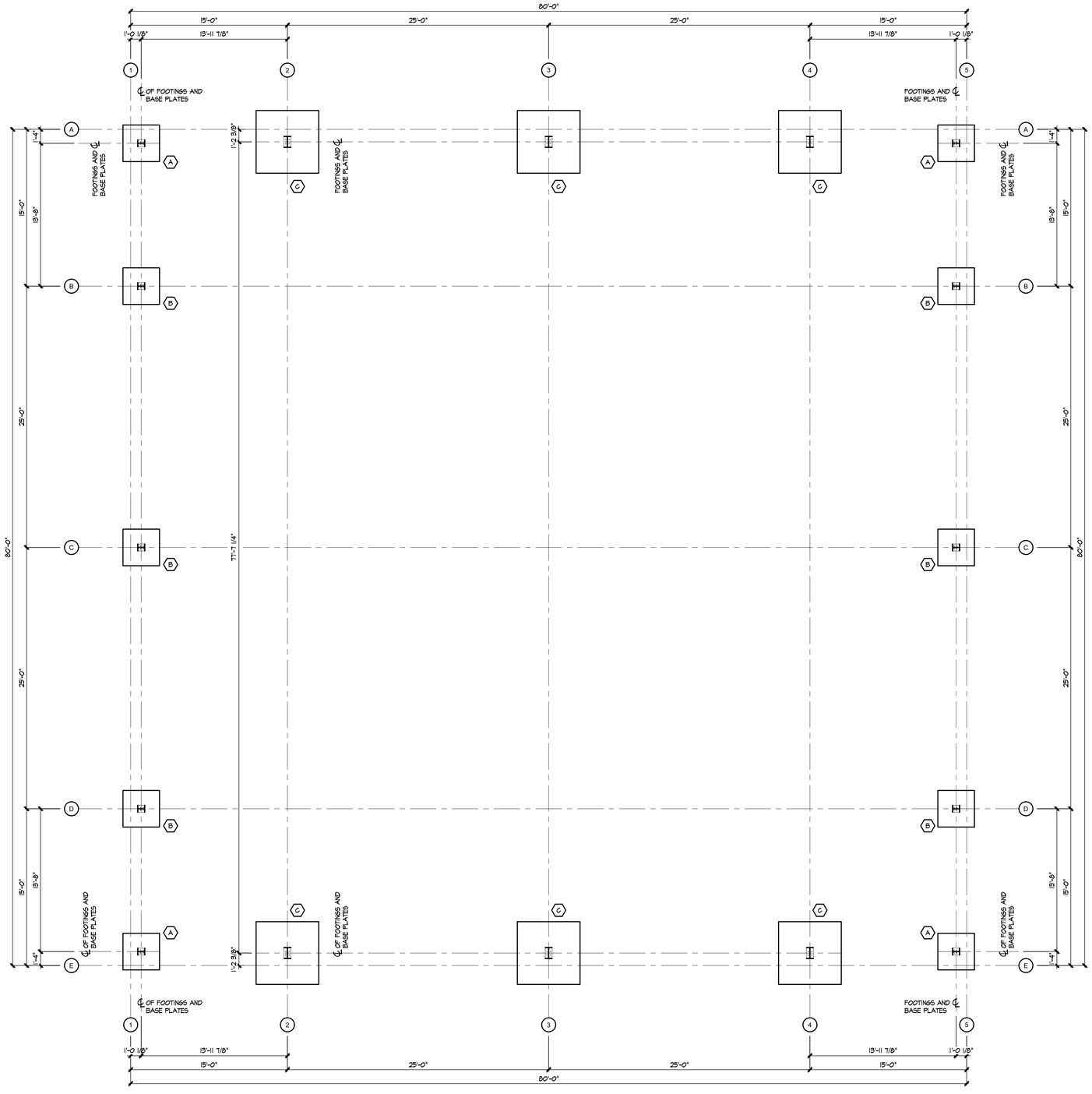
CONCRETE

1. REINFORCED CONCRETE WORK SHALL COMPLY WITH BOTH "SPECIFICATIONS FOR STRUCTURAL BUILDINGS" ACI 301 AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 318.
2. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304R.
3. DURING HOT WEATHER THE CONTROL OF CONCRETE PLACEMENT, PROTECTION AND CURING SHALL COMPLY WITH ACI 305R.
4. WHEN THE MEAN DAILY TEMPERATURE IS BELOW 40 DEGREES F THE CONTROL OF PLACEMENT, PROTECTION AND CURING SHALL COMPLY WITH ACI 306R.
5. CONCRETE SHALL HAVE NORMAL WEIGHT AGGREGATE AND A MINIMUM COMPRESSIVE STRENGTH (Fc) AT 28 DAYS AS LISTED BELOW.
   - 5.1 FOOTINGS 3000 PSI
   - 5.2 SLABS-ON-GRADE 3000 PSI
6. ENTRAINED AIR MUST BE USED IN ALL CONCRETE THAT WILL BE EXPOSED TO FREEZING AND THAWING AND DEICING CHEMICALS. AMOUNT OF AIR ENTRAINMENT (PERCENT) SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE WITH A RANGE OF -1 TO +2 PERCENTAGE POINTS OF THE TARGET VALUE:
   - 6.1 FOOTINGS 5%
   - 6.2 INTERIOR SLABS 0%, SEE NOTE BELOW
   - 6.3 EXTERIOR SLABS 5%

   NOTE: IT IS RECOMMENDED THAT INTERIOR SLABS TO BE GIVEN A SMOOTH, DENSE, HARD-TROWELED FINISH NOT TO CONTAIN ENTRAINED AIR SINCE BLISTERING OR DELAMINATION MAY OCCUR. IF SLAB WILL BE EXPOSED TO DEICING OR OTHER AGGRESSIVE CHEMICALS, CONTACT STRUCTURAL ENGINEER FOR PROPER AIR ENTRAINMENT REQUIREMENTS.

REINFORCING STEEL

1. REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A185. WELDABLE REINFORCING BARS SHALL COMPLY WITH ASTM A706, GRADE 60.
2. CLEAR CONCRETE COVER ON REINFORCING STEEL: BOTTOM OF FOOTINGS= 3", SIDE AND TOP SURFACE OF FOOTINGS= 2", BOTTOM OF SLAB ON GRADE = 2 1/2", WALL SURFACE = 2", TOP OR BOTTOM SURFACE OF FLOOR SLABS = 3/4".
3. PROVIDE CLASS 3 BAR AND MESH SUPPORTS.
4. DETAILING, FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 315 (LATEST EDITION) MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES.
5. HORIZONTAL FOOTING SHALL BE CONTINUOUS AND AND SHALL HAVE 90° BENDS OR CORNER BARS SHALL BE INSTALLED. THE CORNER BAR SHALL HAVE THE SAME SIZE AND SPACING AS THE HORIZONTAL REINFORCEMENT WITH A CLASS B TENSION SPLICE.
6. LAP REINFORCEMENT AS REQUIRED A MINIMUM OF 40 BAR DIAMETERS FOR TENSION OR COMPRESSION UNLESS NOTED OTHERWISE. SPLICES IN MASONRY SHALL BE A MINIMUM OF 48 BAR DIAMETERS.



FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 024916 ENGINEER JOE T. SMITH JR. 10-17-23

REVISIONS

REV.	DATE	DESCRIPTION
1	12/5/23	REV. FTG SIZES PER REACTIONS PROVIDED
2	12/8/23	REMOVED CONC. SLAB AND SLAB DETAILS

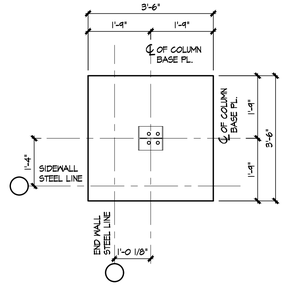
New Facility for:

Campbell University
Baseball Open Shelter

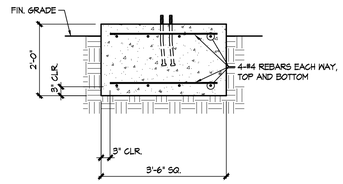
Buies Creek, NC

DATE: 17 October 2023
DRAWN BY: T.B.
SCALE: 3/16" = 1'-0"

S-1



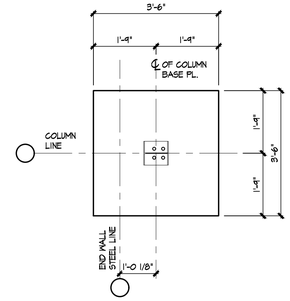
PLAN VIEW



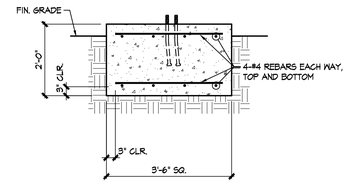
SECTION VIEW

1 S-2 COLUMN FOOTING "A"

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



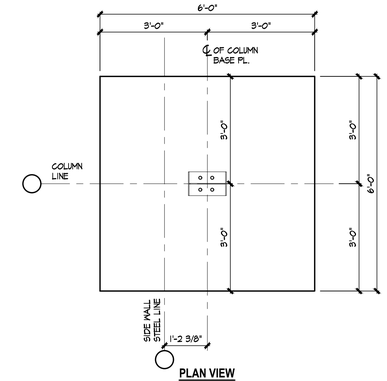
PLAN VIEW



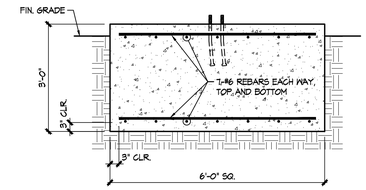
SECTION VIEW

2 S-2 COLUMN FOOTING "B"

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



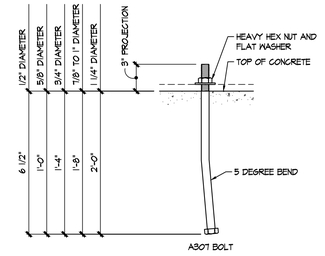
PLAN VIEW



SECTION VIEW

3 S-2 COLUMN FOOTING "C"

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



NOTE:
STANDARD HOOKED ANCHOR BOLTS MAY BE USED AT CONTRACTOR'S DISCRETION. PROVIDE MINIMUM EMBEDMENT INDICATED AND PROVIDE MINIMUM 3" END HOOK.

9 S-2 DETAIL

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

ANCHOR BOLT INSTALLATION

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NORTH CAROLINA PROFESSIONAL SEAL 024916 ENGINEER JOE T. SMITH JR. 10-17-23

REVISIONS		
REV	DATE	DESCRIPTION
1	12/1/23	REV. FTG. SIZES PER REACTIONS PROVIDED
2	12/8/23	REVISED CONC. SLAB AND SLAB DETAILS

New Facility for:

Campbell University
Baseball Open Shelter

Buies Creek, NC

DATE: 17 October 2023
DRAWN BY: T.B.
SCALE: AS NOTED

S-2

LIGHT FIXTURE SCHEDULE

MARK	DESCRIPTION	LAMP			BALLAST		FIXTURE	VOLTS	LUMENS	NOTES
		TYPE	NO.	WATTS	TYPE	NO.	INPUT WATTS			
H1	HIGH BAY LED	LED	–	112	–	–	112	120	12000	

NOTES:
1. PROVIDE ALL FIXTURES WITH LAMPS OF MODERATE TONE (3500K) AND GOOD CRI (COLOR RENDERING INDEX).
2. PROVIDE FIXTURES BY LITHONIA, COLUMBIA, HUBBLE, OR EQUAL PRODUCT.

ELECTRICAL LEGEND

SYM.	DESCRIPTION	REMARKS
J	JUNCTION BOX	DOUBLE GANG UNO
	NON–FUSED DISCONNECT	–
OS	OCCUPANCY SENSOR	–
$	SWITCH	MOUNT 48" TOD AFF
$3	3 WAY SWITCH	MOUNT 48" TOD AFF
	RECEPTACLE	MOUNT 16" BOD AFF
GFI	GROUND FAULT RECEPTACLE	MOUNT 6" ABV. COUNTER
WP GFI	GROUND FAULT, WEATHERPROOF RECEPT.	MOUNT 24" BOD AFG
	240V RECEPTACLE	–
	DOUBLE DUPLEX RECEPTACLE	–
CKT #	CIRCUIT IDENTIFIER	–
x	DATA OUTLET	NUM. OF PORTS AS INDICATED

NOTES:
1. STANDARD MOUNTING HEIGHTS OF DEVICES SHALL BE AS LISTED IN LEGEND. SPECIFIC MOUNTING HEIGHT OF A DEVICE MAY VARY AS NOTED ON PLANS.
2. E.C. SHALL COORDINATE COLOR SELECTION OF DEVICES AND COVERPLATES WITH ENGINEER, OWNER AND/OR G.C.
3. PROVIDE EQUIPMENT SHOWN BY HUBBELL, PASS & SEYMOUR, COOPER WIRING DEVICES, OR EQUAL PRODUCT.
4. OPERATING DEVICES AND OPERABLE PARTS OF OPERATING DEVICES SUCH AS LIGHT SWITCHES, RECEPTACLES, THERMOSTATS, ALARMS, ETC., SHALL BE LOCATED WITHIN REACH RANGES AS SPECIFIED PER ANSI A117.1–2009.

ABBREVIATIONS:

G.C.	GENERAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
UNO	UNLESS NOTED OTHERWISE
℄	CENTERLINE OF DEVICE
BOD	BOTTOM OF DEVICE
TOD	TOP OF DEVICE

ELECTRICAL NOTES:

1. ELECTRICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT.
2. CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF ELECTRICAL INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
3. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC). WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
4. PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS, STARTERS, DEVICES AND ELECTRICAL COMPONENTS UNLESS SPECIFICALLY NOTED AS PROVIDED BY OTHERS.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LINE AND LOAD SIDE WIRING INCLUDING ALL TERMINATIONS TO EQUIPMENT PROVIDED UNDER OTHER TRADES. POWER WIRING TO CONTROL DEVICES SHALL BE PROVIDED BY E.C..
7. ALL WIRING, DEVICES AND OTHER LIKE MATERIALS SHALL BE UL LISTED & LABELED. ALL MATERIALS SHALL MEET THE NEC FOR THE INTENDED USE AND INSTALLED IN ACCORDANCE WITH THE NEC.
8. PROVIDE THHN/THWN COPPER WIRE. PROVIDE A MINIMUM WIRE SIZE OF #12. CONDUCTORS AND CONDUIT ON PLANS AND SCHEDULES REFLECT AMPACITIES PER NEC 310–16 75C RATING. CONTRACTOR SHALL VERIFY ALL TERMINATIONS, LUGS, ETC. ARE RATED FOR USE PER NEC 110–4C. OTHERWISE PROVIDE CONDUCTOR AND CONDUIT SIZED PER LOWEST TEMPERATURE RATING OF ANY TERMINATION WITHIN A CIRCUIT. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR ALL CIRCUITS.
9. PROVIDE MC CABLE FOR ALL SINGLE PHASE BRANCH CIRCUITS 30 AMPS AND SMALLER.
10. PROVIDE TYPE WRITTEN PANEL SCHEDULES IN EACH PANEL INDICATING THE LOAD DESCRIPTION FOR EACH BREAKER. LABEL PANELS ON PANEL FACE WITH PHENOLIC LABELS INDICATING PANEL NUMBER OR LETTER DESIGNATION, VOLTAGE AND PHASE.
11. PROVIDE LIGHTING AS SCHEDULED IN THE FIXTURE SCHEDULE OR OTHERWISE NOTED ON PLANS.
12. WALL SWITCHES SHALL BE SINGLE POLE, 20 AMP, 120/277V.
13. PROVIDE STANDARD SIZE WALL PLATES FOR ALL DEVICES AND BLANK WALL PLATES FOR JUNCTION BOXES. WALL PLATES SHALL BE HIGH IMPACT, SMOOTH NYLON, COLOR TO MATCH DEVICE.
14. GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1–YEAR AFTER DATE OF ACCEPTANCE.

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:

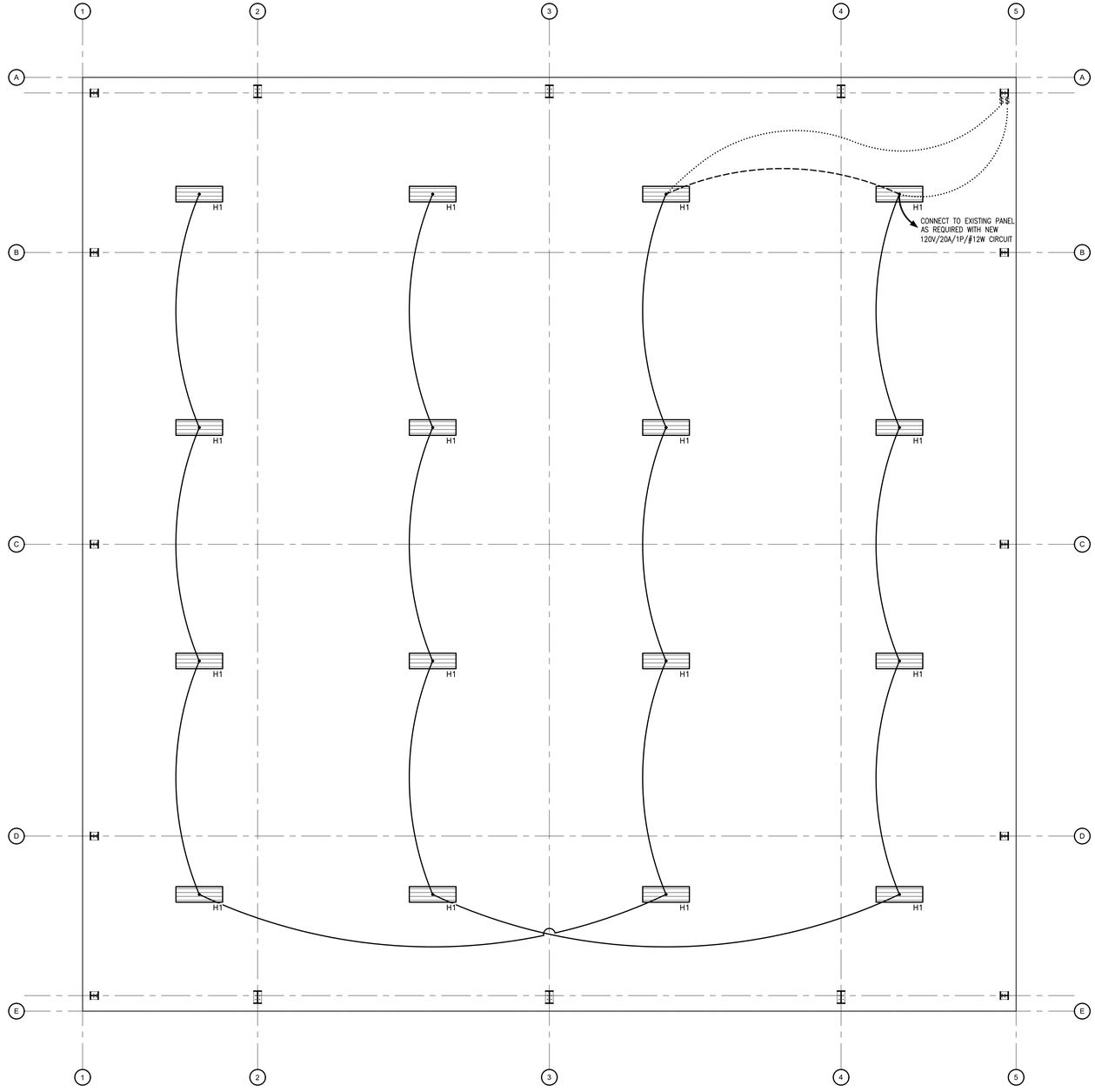
PRESCRIPTIVE ☒ PERFORMANCE ☐ TRADE–OFF ☐

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
NUMBER OF LAMPS IN FIXTURE	"
BALLAST TYPE USED IN THE FIXTURE	"
NUMBER OF BALLASTS IN THE FIXTURE	"
TOTAL WATTAGE PER FIXTURE	"

EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS)

MOTOR HORSEPOWER	N/A – NO MOTORS LARGER THAN 1 HP SPECIFIED ON THESE PLANS
NUMBER OF PHASES	OTHER THAN AS LISTED IN MECHANICAL SCHEDULES
MINIMUM EFFICIENCY	
MOTOR TYPE	
# OF POLES	



ELECTRICAL LIGHTING PLAN

SCALE: 3/16" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 024916 ENGINEER JOE T. SMITH JR. 10-17-23

REVISIONS

REV	DATE	DESCRIPTION

New Facility for:
Campbell University
Baseball Open Shelter
Buies Creek, NC

DATE: 17 October 2023
DRAWN BY: T.B.
SCALE: 3/16" = 1'-0"

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