



# BRUNSWICK COUNTY SCHOOLS

35 Referendum Drive Bolivia, North Carolina 28422 Phone: 910-253-2900 Fax: 910-253-2827

**November 23, 2020**

**Project:** WBHS Hitting Facility

**Bid Number:** 153.348.21.cpp.136 ADDENDUM # 1

**Bids Due:** January 6, 2021 2:00PM

## **ADDENDUM # 1**

**Additional Plans that were left off of bid package.**



**DETAILED ELECTRICAL SPECIFICATIONS**

SCOPE: FURNISH ALL MATERIALS, LABOR, TOOLS, EQUIPMENT AND SUPERVISION NECESSARY TO INSTALL COMPLETE ELECTRICAL POWER AND LIGHTING SYSTEM IN THE BUILDING AS FURTHER DESCRIBED ON THE ELECTRICAL CONTRACT DRAWINGS.

SUPPLY ALL MATERIALS, FITTINGS AND HARDWARE NECESSARY FOR COMPLETE OPERATING SYSTEMS WITHIN THE OBVIOUS INTENT OF THE DRAWINGS. NO ATTEMPT HAS BEEN MADE TO DETAIL OR LIST EACH AND EVERY ITEM OF MATERIAL. THE ELABORATED AND CAUTIONED ENTIRE PROJECT DRAWINGS AND SPECIFICATIONS TO ASSURE HIMSELF OF A THOROUGH KNOWLEDGE OF BUILDING CONSTRUCTION, STRUCTURAL RESTRICTIONS TO ELECTRICAL CONTRACT WORK, AND TO ASSURE THAT NO REFERENCE ANYWHERE IN THE PROJECT DRAWINGS AND SPECIFICATIONS TO WORK BY THE ELECTRICAL CONTRACTOR IS OVERLOOKED.

**CODES, PERMITS AND INSPECTIONS:** THE LATEST EDITION OF THE STATE BUILDING CODE WHICH INCLUDES THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE IS HEREBY MADE A PART OF THIS SPECIFICATION. CODE REQUIREMENTS SHALL PRECEDE SPECIFICATIONS WHERE THE CODE REQUIREMENTS EXCEED THAT OF THE SPECIFICATIONS. HOWEVER, THE SPECIFICATIONS SHALL BE FOLLOWED WHERE THEY EXCEED CODE REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL, AT NO ADDITIONAL COST TO THE OWNER, OBTAIN THE SERVICES OF THE LOCAL ELECTRICAL INSPECTOR TO MAKE ALL REQUIRED DURING CONSTRUCTION AND COMPLETED ELECTRICAL SYSTEM INSPECTIONS.

**MATERIALS AND WORKMANSHIP:** ALL MATERIAL BUILT INTO THIS PROJECT SHALL BE NEW OF EQUIVALENT OR BETTER QUALITY THAN THAT SPECIFIED. SPECIFIC NAMES AND CATALOG NUMBERS USED HEREIN ARE TO ESTABLISH THE ITEM FUNCTION, ARRANGEMENT AND QUALITY REQUIRED AND ARE NOT INTENDED TO RESTRICT COMPETITION. ALL MATERIALS SHALL BE UL LISTED AND LABELED FOR THE PARTICULAR APPLICATION AS USED ON THIS PROJECT.

**CONDUCTORS:** ALL CONDUCTORS SHALL BE COPPER (#10 AWG AND SMALLER SHALL BE SOLID, AND #8 AWG AND LARGER STRANDED) WITH THIN/WITHIN INSULATION, INSTALLED IN CONDUIT OR APPROVED CABLE ASSEMBLY. NM CABLE SHALL NOT BE USED. CONDUCTORS SHALL BE #12 AWG MINIMUM EXCEPT WITHIN LIGHT FIXTURES, LOW VOLTAGE CONTROLS OR COMMUNICATION/FIRE ALARM EQUIPMENT. CONDUCTOR COLOR CODE SHALL CONFORM TO THE NEC. CONDUCTORS SHALL BE CONTINUOUS FROM TERMINAL TO TERMINAL OR PULL BOX TO PULL BOX. JOINTS SHALL BE MADE WITH IDEAL "WIRENUTS."

**RACEWAYS:** RACEWAYS SHALL BE UL LISTED RIGID GALVANIZED STEEL WITH THREADED JOINTS OR METALLIC TUBING (EMT) WITH THREADED STEEL HEXAGONAL COMPRESSION FITTINGS - NEITHER INDENTOR TYPE OR DIE METAL FITTING WILL BE ACCEPTED - CONDUIT UNDER THE FLOOR SLAB AND UNDER GROUND OUTSIDE THE BUILDING MAY BE PVC. FITTINGS IN EMT SHALL BE WEATHER TIGHT (THOMAS AND BETTS SERIES #5123 WITH NYLON INSULATED THROATS). BENDS SHALL BE FACTORY FABRICATED OR MADE "COLD" WITH BENDING TOOL, FREE OF KINKS OR RESTRICTIONS. NO SINGLE BEND SHALL EXCEED 90 DEGREES. THERE SHALL BE NO MORE THAN THE EQUIVALENT OF THREE (3) 90 DEGREE BENDS IN A GIVEN RACEWAY FROM PULL BOX TO PULL BOX. RIGID RACEWAY THREADS SHALL BE CUT STRAIGHT AND TRUE - PIPE ENDS SHALL BE REAMED AND SMOOTHED IN AND OUT.

**SUPPORT:** 1-1/2 INCH AND LARGER CONDUIT TO FEET O/C OR LESS, AND 1 INCH AND SMALLER 6 FEET O/C MAXIMUM. RACEWAYS SHALL BE SUPPORTED DIRECTLY FROM BUILDING STRUCTURE WITH BOLTS, SCREWS, STRAPS, HANGER RODS AND BRACKETS. ALL METALLIC HARDWARE SHALL BE GALVANIZED OR CADMIUM PLATED. NAILS, WIRE AND/OR PERFORATED STRAPS WILL NOT BE ACCEPTED.

**USE THREADED LOCKNUTS OUTSIDE AND THREADED LOCKWUT AND BUSHING INSIDE ALL RACEWAY CONNECTIONS TO BOXES, DEVICES, PANELS AND OUTLETS. USE NON-METALLIC BUSHINGS ON 1-1/4 INCH AND LARGER CONDUIT. EXPOSED CONDUIT SHALL BE RUN STRAIGHT AND TRUE PARALLEL AND PERPENDICULAR TO PRIMARY BUILDING LINES.**

**BOXES AND DEVICES:** ALL BOXES, PANELS AND EQUIPMENT SHALL BE SUPPORTED DIRECTLY FROM THE BUILDING STRUCTURE AND SHALL NOT DEPEND ON THE FEEDER RACEWAYS FOR SUPPORT. ALL ITEMS SHALL BE CAREFULLY ALIGNED SO THAT COVERS WILL FINISH FLUSH AND STRAIGHT. ALL UNUSED KNOCKOUTS SHALL BE CLOSED WITH BLANKING DEVICES. BOXES IN CONCRETE OR MASONRY SHALL BE 3-1/2 INCH DEEP (MINIMUM) SQUARE 16 GAUGE GALVANIZED STEEL - STEEL CITY SERIES GW. BOXES INSTALLED IN WOOD PARTITIONS SHALL BE STEEL CITY 3-1/2 INCH DEEP GANGABLE SQUARE CORNER TYPE. RECEPTACLES SHALL BE HUBBELL S362 OR EQUAL. SWITCHES SHALL BE HUBBELL 1120 SERIES OR EQUAL. COVER PLATES SHALL BE IMPACT RESISTANT.

**PULL BOXES SHALL BE 14 GAUGE GALVANIZED STEEL WITH BLANK COVER SIZED AS REQUIRED BY NATIONAL ELECTRICAL CODE. LOCATE DEVICES AND EQUIPMENT ABOVE FINISHED FLOOR AS FOLLOWS UNLESS OTHERWISE SPECIFICALLY NOTED ON PLANS:**

- WALL SWITCHES - 4'-0" OR TO NEAREST MASONRY COURSE JOINT.
- RECEPTACLES - 1'-6" OR TO NEAREST MASONRY COURSE JOINT.
- LIGHT FIXTURES - AS NOTED ON FIXTURE SCHEDULE.

**GROUNDING:** THE ELECTRICAL SYSTEM AND ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. GREEN EQUIPMENT GROUND WIRE SHALL BE USED WITH ALL FEEDERS AND BRANCH CIRCUITS.

**LIGHTING FIXTURES:** LIGHTING FIXTURES AND LAMPS SHALL BE PROVIDED AND INSTALLED AS PER SCHEDULE. ALL FIXTURES SHALL BE CLEANED ON COMPLETION OF INSTALLATION.

**TESTS:** THE CONTRACTOR SHALL MEGGER ALL BUSWAYS, CABLES AND CONTROL CONNECTIONS TO PROVE INSULATION RESISTANCE IS OF ACCEPTABLE VALUE.

**PANELBOARDS:** PROVIDE PANELBOARDS RATED AND SIZED AS INDICATED IN THE SCHEDULE AND SHOWN ON THE PLANS EQUAL TO SQUARE D COMPANY MODEL N300.

**ACCEPTABLE MANUFACTURERS:** SQUARE D, GENERAL ELECTRIC, SIEMENS, CUTLER-HAMMER

**SAFETY SWITCHES:** SWITCHES SHALL BE EQUAL TO SQUARE D TYPE GD WITH RATINGS AND FUSING PROVISIONS AS INDICATED.

**IDENTIFICATION AND NAMEPLATES:** PROVIDE ENGRAVED, LAMINATED BAKELITE (WHITE LETTERS ON BLACK SURFACE) NAMEPLATES SCREWED TO EACH PIECE OF ELECTRICAL DISTRIBUTION EQUIPMENT AS FOLLOWS:

- A. PANELBOARDS, SWITCHBOARDS - DESIGNATION L1, P1, ETC., VOLTAGE, PHASE NUMBER OF WIRES, ETC.; WORDING EXAMPLE: PANEL L1-208Y-3 PHASE, 4 WIRE.
- B. MOTOR STARTERS, DISCONNECT SWITCHES - UNLESS MOUNTED DIRECTLY ON OR ADJACENT TO IDENTIFY EQUIPMENT; WORDING EXAMPLE: EXHAUST FAN 1, MAKE-UP AIR UNIT.

**PROVIDE TYPED DIRECTORIES FOR PANELBOARD BRANCH CIRCUIT IDENTIFICATION. IDENTIFY EACH CIRCUIT BREAKER AS TO THE EXACT ROOM NUMBERS OR AREA SERVED AND THE TYPE OF CIRCUIT, I.E. "ROOMS 101-104 LIGHTS" OR "CAFETERIA EXHAUST FAN".**

**EQUIPMENT CONNECTIONS:** THIS CONTRACTOR SHALL BRING ALL REQUIRED ELECTRICAL SERVICE TO ALL EQUIPMENT ITEMS FURNISHED UNDER OTHER SECTIONS OF THESE SPECIFICATIONS OR BY THE OWNER. MAKE FINAL CONNECTIONS, AND LEAVE EQUIPMENT READY FOR OPERATION. THIS CONTRACTOR SHALL COORDINATE WITH ANY AFFECTED TRADE TO ASSURE CORRECT OPERATION OF THE EQUIPMENT ITEM.

**CONTROL AND INTERLOCK WIRING:** EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS, ALL CONTROL AND INTERLOCK WIRING SHALL BE PERFORMED BY THE RESPECTIVE CONTRACTORS.

**THE ELECTRICAL SUBCONTRACTOR SHALL INSTALL ALL STARTERS, PILOT SWITCHES, CONTROL DEVICES AND MISCELLANEOUS ITEMS OF ELECTRICAL EQUIPMENT FURNISHED UNDER OTHER SECTIONS OF THESE SPECIFICATIONS THAT ARE NOT INTEGRALLY MOUNTED WITH THEIR ASSOCIATED EQUIPMENT.**

**SERVICE:** THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SERVICE WITH THE UTILITY COMPANY. PROVIDE UTILITY METERING PROVISIONS. ED SHALL WORK DIRECTLY WITH THE UTILITY AND SHALL COMPLETE AND SUBMIT ALL LOAD DATA SHEETS REQUIRED FOR SERVICE APPLICATION.

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
---	CONDUIT
---	CONDUIT UNDERFLOOR OR UNDERGROUND
↗	ARROW INDICATES HOMERUN, TICKMARKS: NEUTRAL, PHASE, GND.
□	POWER PANEL
○	JUNCTION BOX
○	EXISTING OR BY OTHERS
○	LIGHT FIXTURE
○	SINGLE POLE SWITCH, 3 WAY, 4 WAY
○	DUPLEX RECEPT, ABOVE COUNTER
○	WEATHERPROOF, GROUND FAULT

PANEL A		22,000 AMPS RMS. SYM. I.C. INTEGRATED EQUIPMENT RATING		SURFACE MOUNTED SE LABEL	
120/240 VOLTS, 1 PHASE, 3 WIRE, 100 AMP MAIN BREAKER		OR	OR	OR	OR
SERVES	OR	OR	OR	OR	SERVES
LIGHTING	0.9	1	A	B	2 0.7 RECEPT FOR PUNCH MACHINE
	0.9	3			4 0.7
	0.9	5			6 0.7
EXTERIOR LIGHTING	0.1	7			8 0.7
SPARE	9				10 0.7
	11				12 0.7
SPACE	13				14 0.7
	15				16 0.7
	17				18 0.7
	19				20 0.7
	21				22
	23				24
TOTAL CONNECTED LOAD:		9.8	KVA		ALL BREAKERS ARE 1P-20A UNLESS OTHERWISE NOTED
PHASE A =		3.3	KVA = 44A		ALL BREAKERS ARE EXISTING UNLESS OTHERWISE NOTED
PHASE B =		4.5	KVA = 38A		(1) GFI BREAKER

LIGHTING FIXTURE SCHEDULE								
MARK	TYPE	MOUNTING	MANUFACTURER CATALOG NO.	BALLAST (QT) TYPE	LAMPS (QT) TYPE	TOTAL WATTS	VOLTS	REMARKS
A	HIGH BAY	SURFACE	DAYBRITE FBX24LL40-UNV		LED	178	120	
AE	HIGH BAY	SURFACE	DAYBRITE FBX24LL40-UNV EM-LED		LED	178	120	90 MIN BATTERY
B	EXTERIOR SCONCE	WALL ABOVE DOOR	STONCO LPW7-XXX		LED	14	120	FINISH SELECTED
C	WALL PACK	WALL APPROX 17' AFT	STONCO WPM120-36L-S-350W-UNV000XX		LED	33	120	FINISH SELECTED
ER	REMOTE EMERGENCY DOUBLE HEAD	SURFACE	CHLORIDE VLR		INCLUDED			MATCH "EX" BATTERY VOLTAGE UL WET LABEL
EX	EXIT/EM COMBO	UNIVERSAL	CHLORIDE VCR		LED (EXIT)	5	120	90 MIN BATTERY

NOTE: EQUALS BY COOPER OR ACUTY WILL BE ACCEPTABLE.

**ELECTRICAL SUMMARY**

**ELECTRICAL SYSTEM AND EQUIPMENT**

METHOD OF COMPLIANCE:

Energy Code:  Prescriptive  Performance  
ASHRAE 90.1:  Prescriptive  Performance

**Lighting schedule**

lamp type required in fixture \_\_\_\_\_ See Fixture Schedule  
number of lamps in fixture \_\_\_\_\_ See Fixture Schedule  
ballast type used in the fixture \_\_\_\_\_ See Fixture Schedule  
number of ballasts in fixture \_\_\_\_\_ See Fixture Schedule  
total wattage per fixture \_\_\_\_\_ See Fixture Schedule

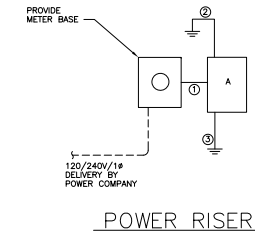
Building Area \_\_\_\_\_ Space by Space \_\_\_\_\_  
total interior wattage specified vs allowed 2670/3047  
total exterior wattage specified vs allowed 127/720

**Additional Prescriptive Compliance**

506.2.1 More Efficient Mechanical Equipment  
 506.2.2 Reduced Lighting Power Density  
 506.2.3 Energy Recovery Ventilation Systems  
 506.2.4 Higher Efficiency Service Water Heating  
 506.2.5 On-Site Supply of Renewable Energy  
 506.2.6 Automatic Daylighting Control System  
N/A EXISTING/RENOVATION

**DESIGNER STATEMENT:**  
To the best of my knowledge and belief, the design of this building complies with the requirements of Chapter 5 of the 2012 North Carolina State Energy Code.

SIGNED: \_\_\_\_\_  
NAME: Gregory McDowell  
TITLE: Professional Engineer



NOTE: ED SHALL LABEL THE AVAILABLE FAULT CURRENT AT POINT OF DELIVERY PER NEC 110.24A. OBTAIN FROM SERVING UTILITY PRIOR TO ORDERING GEAR. DESIGN ASSUMES AVAILABLE FAULT CURRENT IS LESS THAN 22,000 AMPS.

- ① 3 #2, 1-1/2"
- ② #8 GND PER NEC 250
- ③ #8 SUPPLEMENTAL GROUND

**GOODRICH ARCHITECTURE, P.A.**  
 3142 WINDHURST AVENUE  
 WILMINGTON, NC 28403  
 PHONE: 910.343.1000  
 FAX: 910.343.1005  
 EMAIL: BBOGDARCH@AOL.COM

**WBHS HITTING FACILITY**  
 WEST BRUNSWICK HIGH SCHOOL  
 SPHALLOTTE, NORTH CAROLINA  
 PROJECT # 2023B

**ELECTRICAL SCHEDULES, NOTES & DETAILS**

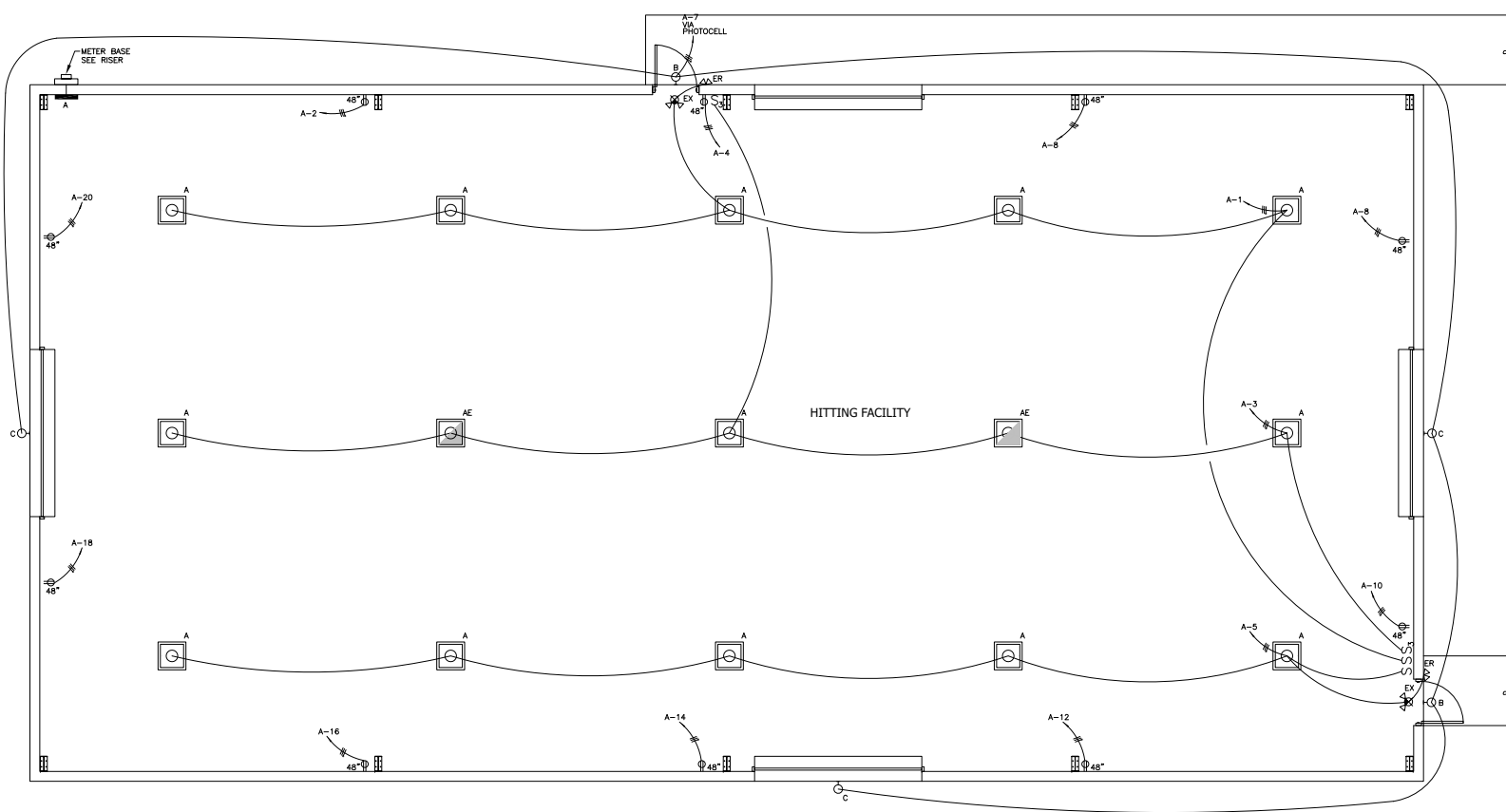
DATE: 13 JULY 2023  
 REVISION:

Digitally signed by Gregory McDowell  
 Date: 2023.07.13 10:41:19  
 018518

**E1**

PROJECT NO. 12340

**Topesil Engineering, Inc.**  
 P.O. BOX 367 HAMPSTEAD, NC 28443  
 TEL: 910.276.3747 FAX: 910.276.3779  
 NC LICENSE NO. C-2546  
 OFFICE@TOPESILENGINEERING.COM



NOTE: CONFIRM ALL RECEPTACLE LOCATIONS  
W/OWNER PRIOR TO ROUGH-IN

FLOOR PLAN - ELECTRICAL  
SCALE: 1/4"=1'-0"



PROJECT NO. 12340  
**Topesil Engineering, Inc.**  
 P.O. BOX 367 HAMPSTEAD, NC 28443  
 TEL: 919 276-3747 FAX: 919 276-3779  
 NC LICENSE NO. C-5946  
 office@topesilengineering.com

DATE:  
13 JULY, 2020

REVISION:

**E2**

Digitally signed  
 by Gregor C. McDowell  
 DN: cn=Gregor C. McDowell,  
 o=TOPESIL ENGINEERING,  
 ou=TOPESIL ENGINEERING,  
 email=gregor@topesileng.com,  
 10:41:04



**WBHS HITTING FACILITY**  
 WEST BRUNSWICK HIGH SCHOOL  
 SHALLOTTE, NORTH CAROLINA  
 PROJECT # 2002B  
**FLOOR PLAN - ELECTRICAL**

3145 WILHELMINE AVENUE  
 WINSTON NC 28403  
 PHONE: 919 276 3747  
 FAX: 919 276 3779  
 EMAIL: BB@GOODRICH-ARCH.COM



### STRUCTURAL INFORMATION FOR APPENDIX B

DESIGN LOADS: WIND, SEISMIC, FLOOR, ROOF, LIVE, DEAD, etc.

DESIGN LOADS: WIND, SEISMIC, FLOOR, ROOF, LIVE, DEAD, etc.

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DESIGN LOADS: WIND, SEISMIC, FLOOR, ROOF, LIVE, DEAD, etc.

### CONCRETE NOTES

1. CONCRETE SHALL BE PLACED AND FINISHED TO THE SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION...
2. ALL CONCRETE SHALL BE PLACED AND FINISHED TO THE SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION...
3. ALL CONCRETE SHALL BE PLACED AND FINISHED TO THE SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION...

### STEEL NOTES

1. ALL STEEL SHALL BE PLACED AND FINISHED TO THE SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION...
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3. ALL STEEL SHALL BE PLACED AND FINISHED TO THE SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION...

### FOUNDATION NOTES

1. FOUNDATION SHALL BE PLACED AND FINISHED TO THE SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION...
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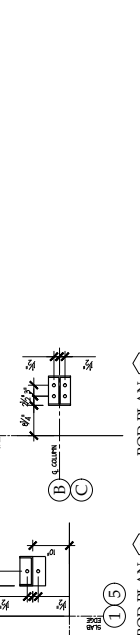
### ANCHOR ROD NOTES

1. ANCHOR RODS SHALL BE PLACED AND FINISHED TO THE SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION...
2. ANCHOR RODS SHALL BE PLACED AND FINISHED TO THE SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION...
3. ANCHOR RODS SHALL BE PLACED AND FINISHED TO THE SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION...

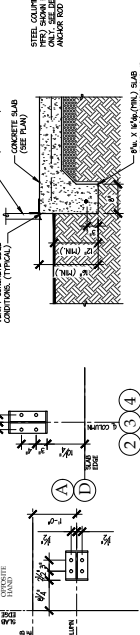
### PRE-FABRICATED STEEL BUILDING NOTES

1. PRE-FABRICATED STEEL BUILDING SHALL BE PLACED AND FINISHED TO THE SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION...
2. PRE-FABRICATED STEEL BUILDING SHALL BE PLACED AND FINISHED TO THE SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION...
3. PRE-FABRICATED STEEL BUILDING SHALL BE PLACED AND FINISHED TO THE SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION...

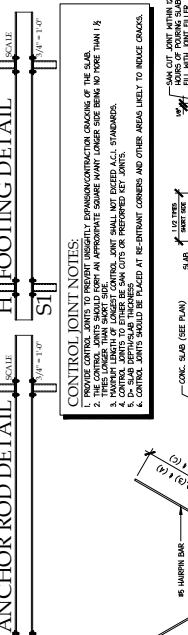
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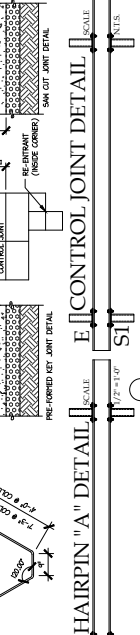
### FOOTING DETAIL "H"



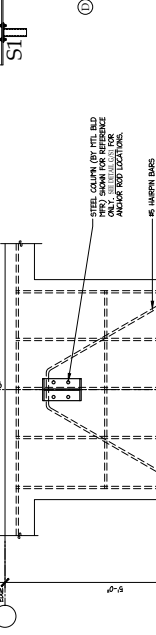
### CONTROL JOINT DETAIL "E"



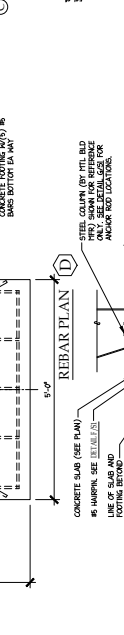
### HAIRPIN "A" DETAIL "F"



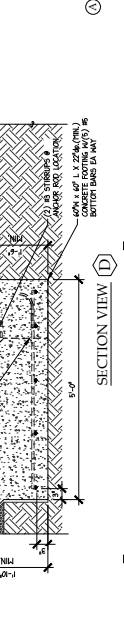
### FOOTING & ROD DETAIL "D"



### FOOTING & ROD DETAIL "B"



### FOOTING & ROD DETAIL "C"



### FOUNDATION/SLAB PLAN "A"



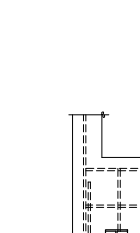
### FOUNDATION/SLAB PLAN "B"



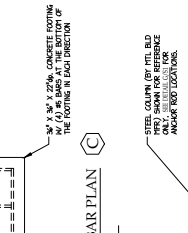
### REBAR PLAN "A"



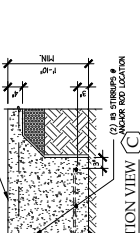
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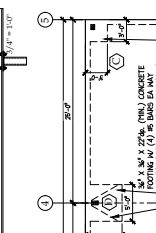
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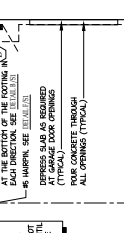
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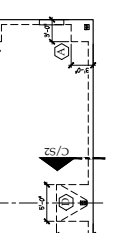
### REBAR PLAN "E"



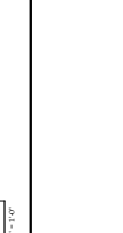
### REBAR PLAN "F"



### REBAR PLAN "G"



### REBAR PLAN "H"



WD JONES ENGINEERING, PLLC  
100 B OLD EASTWOOD ROAD, UNIT 24  
WILMINGTON, N.C. 28403  
PHONE: 910-523-5381  
EMAIL: OFFICE@WJONESENGINEERING.COM

WBHS Hitting Facility  
550 Whiteville Road  
Shalotte, North Carolina

CONSTRUCTION NOT FOR BIT SET  
NEW CONSTRUCTION  
DATE: 7-27-2020  
SCALE: 1/8" = 1'-0"