SOCCER COMPLEX - FIELD LIGHTING
STATE PROJECT NUMBER: H17-9609-MJ-A
CONWAY, SC 29528

SCOPE OF WORK

PROVIDE 75FC REGIONAL BROADCAST LIGHTING TO THE CURRENT RECREATIONAL SOCCER FIELD NEXT TO THE STEVENS TENNIS COMPLEX. A NEW SERVICE WILL BE ESTABLISHED FROM THE EXISTING TRANSFORMER SERVING THE TENNIS COMPLEX. PROVIDE STADIUM LIGHTING, SCOREBOARD, ROUGH-IN FOR TELECOMMUNICATIONS AND A FOOD TRUCK POWER PEDESTAL.
ELECTRICAL SYSTEMS
SEISMIC REQUIREMENTS
PER IBC-2018/ASCE 7-16

1. BRANCH CIRCUIT WIRING FOR 20A CIRCUITS SHALL BE SIZED PER WIRE SIZING CHART. SEISMIC COMPONENTS AND SYSTEMS, AS SHOWN ON THE CONSTRUCTION DOCUMENTS, SHALL BE Labeled AND IDENTIFIED WITH A SIGNATURE FOR USE IN HIGH-SEISMIC AREAS.

2. FEEDER CIRCUITS AND BRANCH CIRCUIT ROUTING SHALL COMPLY WITH DETAILS ON DRAWINGS.

3. THE USE OF NO CABLE IS NOT ALLOWED. UNLESS NOTED OTHERWISE.

4. OVERHEAD ELECTRICAL LINING SYSTEMS, SUCH AS WIRE, WIRE-AND-CONDUIT, AND KABLES, SHALL BE DESIGNATED ACCORDING TO THE 2018 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.

5. GENERAL EXISTING CONDITION NOTES

   a. AREAS OF WORK EXIST FOR THIS PROJECT WHICH WERE NOT ACCESSIBLE OR HAD LIMITED ACCESS TO THE BARABIC CLEAN SERIES, SHELVES, ETC.

   b. USE THE TABLE BELOW TO DETERMINE SEISMIC RESISTANT REQUIREMENTS FOR EACH COMPONENT.

6. ELECTRICAL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL REGISTERED IN THE STATE THE JOB IS LOCATED. SUBMITTALS MUST INCLUDE STAMPED AND SIGNED DRAWINGS AND CALCULATIONS.

7. GENERAL POWER NOTES

   a. THE GROUND ROD FOR THE SERVICE ENTERPRISE CONSIST OF A 3/4" X 10'-0" COPPER CLAD STEEL GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.

8. ELECTRICAL COMPONENT IMPORTANCE FACTOR (Ip) DESIGNATION

   a. TOP VALUES FOR DESIGNATED COMPONENT IMPORTANCE FACTOR (Ip) DESIGNATION.

9. GENERAL NOTES

   a. NO FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTER 26 TO 29 OF ASCE 7-16.

   b. WORKSHEET THROUGH LIGHTING CONTROL PANEL CONNECTIONS, REFER TO LIGHTING CONTROL PANEL MANUFACTURERS’ SYSTEM CONTROL DOCUMENT.

   c. COVERED AREA APPROXIMATION.

   d. BRANCH CIRCUIT WIRING ON TOP SPECIFIES THE CIRCUITING ON THE PRIMARY SOURCES, THE 2018 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.

   e. THE RESTRAINT OF PENDANT, LAY-IN AND CAN LIGHTS IS ADDRESSED IN ASTM C636 AND E580.

   f. ELECTRICAL CONDUIT/CONDUIT, BETWEEN THE WALL MOUNTED RESTRAIN ALL RESTRAIN ALL RESTRAIN IF ANY CONDUIT ON TRAPEZE SUSPENDED COMPONENT > 10 LBS/FT UNDERGROUND SUSPENDED COMPONENT > 10 LBS/FT UNDERGROUND UNLESS NOTED OTHERWISE.

   g. THE RESTRAINT OF PENDANT, LAY-IN AND CAN LIGHTS IS ADDRESSED IN ASTM C636 AND E580.

   h. ELECTRICAL CONDUIT/CONDUIT, BETWEEN THE WALL MOUNTED RESTRAIN ALL RESTRAIN ALL RESTRAIN IF ANY CONDUIT ON TRAPEZE SUSPENDED COMPONENT > 10 LBS/FT UNDERGROUND SUSPENDED COMPONENT > 10 LBS/FT UNDERGROUND UNLESS NOTED OTHERWISE.

   i. THE RESTRAINT OF PENDANT, LAY-IN AND CAN LIGHTS IS ADDRESSED IN ASTM C636 AND E580.

   j. ELECTRICAL CONDUIT/CONDUIT, BETWEEN THE WALL MOUNTED RESTRAIN ALL RESTRAIN ALL RESTRAIN IF ANY CONDUIT ON TRAPEZE SUSPENDED COMPONENT > 10 LBS/FT UNDERGROUND SUSPENDED COMPONENT > 10 LBS/FT UNDERGROUND UNLESS NOTED OTHERWISE.

   k. THE RESTRAINT OF PENDANT, LAY-IN AND CAN LIGHTS IS ADDRESSED IN ASTM C636 AND E580.

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   m. THE RESTRAINT OF PENDANT, LAY-IN AND CAN LIGHTS IS ADDRESSED IN ASTM C636 AND E580.

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   o. THE RESTRAINT OF PENDANT, LAY-IN AND CAN LIGHTS IS ADDRESSED IN ASTM C636 AND E580.
EXISTING CONDUIT BOXES ARE PRESENT FROM THE BOX. CONTRACTOR SHALL USE THE EXISTING BOXES. PROVIDE A NEW TELECOMMUNICATIONS CONDUIT FROM THE EXISTING BOXES. CONTRACTOR SHALL CLEAR/MOVE THE EXISTING TELECOMMUNICATIONS PIPING FROM UNDERGROUND INTO ELECTRICAL ROOM.

1. PROVIDE 2 X 3' CONCRETE PADS. TELECOMMUNICATIONS CONDUIT SHALL TERMINATE FROM THE EXISTING TELECOMMUNICATIONS BOXES. PROVIDE 2 X 3' CONCRETE PADS. TELECOMMUNICATIONS CONDUIT SHALL TERMINATE FROM THE EXISTING TELECOMMUNICATIONS BOXES BEFORE POURING PAD.

2. PROVIDE 2 X 3' CONCRETE PADS. TELECOMMUNICATIONS CONDUIT SHALL TERMINATE FROM THE EXISTING TELECOMMUNICATIONS BOXES. PROVIDE 2 X 3' CONCRETE PADS. TELECOMMUNICATIONS CONDUIT SHALL TERMINATE LOCATION WITH OWNER AND AMERICAN PRODUCTS BOX LOCATIONS BEFORE POURING PAD.

3. PROVIDE 2 X 3' CONCRETE PADS. TELECOMMUNICATIONS CONDUIT SHALL TERMINATE FROM THE EXISTING TELECOMMUNICATIONS BOXES. PROVIDE 2 X 3' CONCRETE PADS. TELECOMMUNICATIONS CONDUIT SHALL TERMINATE LOCATION WITH OWNER AND AMERICAN PRODUCTS BOX LOCATIONS BEFORE POURING PAD.

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