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GENERAL ELECTRICAL NOTES

- FURNISH ALL MATERIALS AND LABOR NECESSARY TO PROVIDE COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEMS. FURNISH ALL MATERIALS AND LABOR NECESSARY TO DEMONSTRATE TO THE OWNER AND TO THE ENGINEER THAT ALL SYSTEMS ARE OPERATING PROPERLY AND AS SPECIFIED. WARRANTY ALL WORK AND ALL MATERIALS, EQUIPMENT AND DEVICES FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE.
- WORK SHALL CONFORM TO THE LATEST EDITION OF:
 - ANSI/NFPA 70 (NATIONAL ELECTRICAL CODE)
 - NECA STANDARD OF INSTALLATION
 - INTERNATIONAL BUILDING CODE
 - NFPA 101 (LIFE SAFETY CODE)
 - ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES
 - LOCAL UTILITY COMPANY REGULATIONS
- ALL MATERIALS, EQUIPMENT AND DEVICES SHALL, AS A MINIMUM, MEET THE REQUIREMENTS OF U.L. WHERE U.L. STANDARDS ARE ESTABLISHED FOR THOSE ITEMS, AND THE REQUIREMENTS OF NFPA 70. ALL ITEMS SHALL BE CLASSIFIED BY U.L. AS SUITABLE FOR THE PURPOSE USED.
- COORDINATE LOCATION OF ELECTRICAL DEVICES AND ELECTRICAL WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.
- PROVIDE THE INTERCONNECTING POWER WIRING AND CONDUIT, CONTROL WIRING RATED 120 VOLTS (NOMINAL) AND CONDUIT, AND THE ELECTRICAL POWER CIRCUITS FOR ALL EQUIPMENT PROVIDED BY OTHER TRADES.
- COORDINATE WITH AND OBTAIN PERMITS AND INSPECTIONS FROM THE AUTHORITY HAVING JURISDICTION, AND INCLUDE ALL FEES IN BID.
- PROVIDE A LAMINATED PLASTIC NAMEPLATE FOR EACH MAJOR ITEM OF ELECTRICAL EQUIPMENT (E.G. PANELBOARDS, DISCONNECT SWITCHES, TRANSFORMERS, ETC.). ATTACH WITH SCREWS, BOLTS OR RIVETS.
- PROVIDE ALL PANELS WITH TYPED DIRECTORIES SHOWING AS-BUILT CONDITIONS AND LABEL ALL CIRCUITS.
- THE NEUTRAL AND GROUND BUS SHALL BE BONDED TOGETHER AT THE SERVICE EQUIPMENT ONLY. THE GROUNDING CONDUCTOR SHALL BE BONDED TO THE GROUNDING ELECTRODE SYSTEM, WHICH SHALL BE COMPRISED OF A 3/4" X 10' DRIVEN GROUND ROD, METALLIC PIPING, BUILDING STEEL, ETC. ALL SUBPANELS SHALL HAVE INSULATED NEUTRALS PER N.E.C. ARTICLE 250.
- ALL WIRING SHALL BE COPPER, 600 VOLT, WITH THHN/THWN INSULATION UNLESS NOTED OTHERWISE. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG FOR POWER AND LIGHTING CIRCUITS AND #16 AWG FOR CONTROL CIRCUITS UNLESS NOTED OTHERWISE. ALL WIRING SHALL BE INSTALLED IN CONDUIT UNLESS NOTED OTHERWISE.
- UNLESS NOTED OTHERWISE, CONDUITS SHALL BE:
 - ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR LOCATIONS.
 - SCHEDULE 40 PLASTIC CONDUIT (PVC) FOR EXTERIOR LOCATIONS.
 - RIGID GALVANIZED STEEL (RGS) CONDUIT WHERE EXPOSED TO PHYSICAL DAMAGE.
- ALL CONDUIT ABOVE CEILING SHALL BE SUPPORTED FROM BUILDING STRUCTURAL MEMBERS OR CONCRETE DECKING, NOT FROM CEILING GRID OR GRID HANGER WIRES.
- PROVIDE ALL MOUNTING BRACKETS, HANGERS, CLIPS, ETC. AS NECESSARY TO MOUNT AND SECURE LIGHT FIXTURES IN LOCATIONS SHOWN AND AS RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION INTENDED.
- WHERE CONDUIT PENETRATES FIRE RATED BARRIERS (WALLS, FLOORS AND CEILINGS), SEAL THE OPENING AROUND THE CONDUIT WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN THE FIRE RATING OF THE BARRIER.
- MAKE ARRANGEMENTS WITH THE OWNER TO OBTAIN PERMANENT ELECTRICAL SERVICE TO THE PROJECT. PROVIDE SERVICE ENTRANCE AND DIGITAL METER ON TRANSFORMER.
- ALL ELECTRICAL PENETRATIONS THROUGH FLOOR, ROOF WALLS OR FLOORS SHALL BE PROPERLY SEALED TO PREVENT WATER INTRUSION. SEE ARCHITECTURAL PLANS FOR WALL AND FLOOR SECTIONS AND DETAILS.

LIGHT FIXTURE SCHEDULE (UNLESS NOTED OTHERWISE EQUALS WILL BE ACCEPTED)

TYPE	DESCRIPTION	LAMP(S)	MANUFACTURER
A	2' X 4' LED, WHITE DIFFUSE LENS, MATTE WHITE REFLECTOR, 0-10V 1% DIMMING DRIVER, DLC LISTED.	45W MAX 5300 LUMENS 4000K	COLUMBIA - LTR SERIES LSI - SFP SERIES FIDELUX - FFPC SERIES
B	LED RECESSED CAN DOWNLIGHT, 8" DIAMETER APERTURE, SPECULAR ALZAK REFLECTOR, WHITE TRIM, DIFFUSE LENS, DIMMING DRIVER	42W MAX 5500 LUMENS 4000K	SPECTRUM - SGV8LEDGV PRESCOLITE - LC8HL GOTHAM - EVOR8
C	8' LED STRIP, ACRYLIC LENS, SURFACE MOUNT, FIBERGLASS HOUSING, GASKETED LENS	40W MAX 4200 LUMENS	COLUMBIA - CSL SERIES LITHONIA - XWLED SERIES COOPER - SWLED SERIES
C1	4' LED STRIP, ACRYLIC LENS, SURFACE MOUNT, FIBERGLASS HOUSING, GASKETED LENS	25W MAX 4200 LUMENS	COLUMBIA - CSL SERIES LITHONIA - XWLED SERIES COOPER - SWLED SERIES
D	LED RECESSED CAN DOWNLIGHT, 6" DIAMETER APERTURE, SPECULAR ALZAK REFLECTOR, WHITE TRIM, DIFFUSE LENS, DIMMING DRIVER.	34W MAX 3000 LUMENS 4000K	SPECTRUM - RDF06XT PRESCOLITE - LC8HL GOTHAM - EVOR6
E	SINGLE CIRCUIT LIGHTING TRACK OF LENGTH INDICATED, PROVIDE NUMBER OF FIXTURES INDICATED, EACH FIXTURE SHALL BE AN LED WHITE ROUND BACK CYLINDER OF 4" DIAMETER	1-25W LED BR-20 PER FIXTURE	LITHONIA-LTE SERIES HUBBELL - ARCHITRACK COOPER - HALO TRACK
F	LED VANITY LIGHT, 4' OVERALL LENGTH, ACRYLIC DIFFUSER, BRONZE ALUMINUM ENDCAPS.	34W MAX 2872 LUMENS 4000K	TERON LIGHTING - VICEROY LITHONIA - FMVCL SERIES ELAN - PEROV SERIES
G	LED PENDANT, 48" DIAMETER, MATTE BRONZE FINISH, POLYCARBONATE DIFFUSER, DIMMABLE DRIVER.	12-20W 5000 LUMENS 4000K	KICHLER LIGHTING 23470Z CIRCOLO COLLECTION
H	4' WALL MOUNTED STAIRWELL LED LIGHT, INTEGRAL MOTION SENSOR, INTEGRAL BATTERY BACKUP FOR 90 MINUTE OPERATION.	34W MAX 2000 LUMENS 4000K	LUMINAIRELED - 1894 SERIES
J	LED RECESSED CAN DOWNLIGHT, 8" DIAMETER APERTURE, SPECULAR ALZAK REFLECTOR, WHITE TRIM, DIFFUSE LENS, , DAMP LOCATION RATED, DIMMING DRIVER	42W MAX 4500 LUMENS 4000K	SPECTRUM - SGV8LEDOS PRESCOLITE - LC8HL GOTHAM - EVOR8
K	LED WALL MOUNTED LIGHT, DIE CAST ALUMINUM HOUSING, BRONZE FINISH, TYPE IV DISTRIBUTION, INTEGRAL EMERGENCY BATTERY BACK-UP	24W MAX 3000 LUMENS 4000K	LITHONIA - VSR SERIES HUBBELL - QSP1 SPAULDING - GEO QSP
L	43" LED WALL MOUNTED LIGHT, DIE CAST ALUMINUM HOUSING, BRONZE FINISH, PROVIDE EMERGENCY BATTERY BACKUP AND INTEGRAL TEST SWITCH	24W MAX 3000 LUMENS 4000K	EATON - 674-WP
M	LED WALL SCONCE, BRONZE FINISH, 10% UPLIGHT, 0-10V DIMMING DRIVER, INTEGRAL EMERGENCY BATTERY BACKUP AND TEST SWITCH.	26W MAX 2400 LUMENS 4000K	VISA LIGHTING - CB3500 SERIES
N	LED INDUSTRIAL GLOBE WITH WIREGUARD AND CLEAR LENS	LED 3500K 1000 LUMENS	STONCO VK SERIES LITHONIA HUBBELL
P	LED RECESSED CAN WALL WASHER, 6" DIAMETER APERTURE, SPECULAR ALZAK REFLECTOR, WHITE TRIM, DIFFUSE LENS, DIMMING DRIVER.	34W MAX 3000 LUMENS 4000K	SPECTRUM - SGW6LEDOS PRESCOLITE - LC6WW GOTHAM - EVOR6
T	GROUND MOUNTED SIGN FLOOD LIGHT, ALUMINUM HOUSING, BRONZE FINISH, TEMPERED GLASS LENS, SURFACE MOUNT FLANGE, LOW VOLTAGE TRANSFORMER.	8.5W 40' 4000K	KICHLER - 15741
⊗	LED EXIT SIGN, PLASTIC HOUSING, WHITE FINISH, STENCIL FACE, RED LETTERS AND DIFFUSER, INTEGRAL BATTERY AND CHARGER, UNIVERSAL MOUNTING ADAPTER	LED'S PER CODE	DUAL-LITE - EVE SERIES HUBBELL - EVC SERIES LITHONIA - LQM SERIES
⊗	60" FIVE BLADE CEILING FAN. MATTE WHITE FINISH. WALL MOUNTED CONTROLLER. DAMP RATED.		KICHLER - KEVLAR SERIES EQUALS BY HUNTER OR CASABLANCA

NOTE: WHERE THREE MANUFACTURERS ARE NOT SHOWN EQUAL FIXTURES SHOULD BE SUBMITTED FOR PRIOR APPROVAL.

LEGEND

- ⊠ A ENCLOSED FLUORESCENT FIXTURE, LETTER INDICATES TYPE, APPROXIMATE DIMENSIONS AS INDICATED.
- ⊠ A LIGHT FIXTURE PROVIDED WITH EMERGENCY BATTERY INVERTER TO OPERATE 1 LAMP WHEN NORMAL POWER FAILS, CONNECT INVERTER TO UNSWITCHED CIRCUIT CONDUCTOR.
- NL LIGHT FIXTURE IDENTIFIER, INDICATES FIXTURE CONNECTED TO UNSWITCHED NIGHT LIGHT CIRCUIT.
- ⊕ A CEILING MOUNTED FIXTURE, LETTER INDICATES TYPE.
- ⊕ A WALL MOUNTED FIXTURE, LETTER INDICATES TYPE.
- ▽▽▽ A LIGHTING TRACK WITH LENGTH & NUMBER OF FIXTURES INDICATED, LETTER INDICATES TYPE.
- ⊗ EXIT SIGN, BLACKENED AREA(S) INDICATE FACE(S), DIRECTIONAL ARROWS AS INDICATED.
- \$ SWITCH, 20 AMP, 120-277V, AC (48" A.F.F. UNLESS NOTED OTHERWISE).
SUBSCRIPT: NONE - SINGLE POLE
3 - 3 POLE
C - OCCUPANCY SENSOR, WATTSTOPPER DW-103
- DIMMER (1000 WATTS UNLESS NOTED OTHERWISE)
- ⊠ DISCONNECT SWITCH UNLESS NOTED OTHERWISE RATING SHALL BE 30 AMP/2 POLE/NFPA 1/NON FUSED (30/2/1/NF).
DAF - INDICATES 20 AMP FUSE. (FUSES SHALL BE DUAL ELEMENT, TIME DELAY, CURRENT LIMITING).
- ⊕ ELECTRIC MOTOR, NUMBER, WHERE INCLUDED, INDICATES HORSEPOWER (PROVIDED UNDER DIVISION 15 - WREDED UNDER DIVISION 16).
- ⊕ DUPLEX RECEPTACLE OUTLET, 20 AMP, 125V AC, 2 POLE, 3 WIRE, GROUNDING (18" A.F.F. UNLESS NOTED OTHERWISE).
SUBSCRIPT: WP - WEATHERPROOF
EWC - ELECTRIC WATER COOLER
- ⊕ DUPLEX RECEPTACLE OUTLET, SEE ABOVE, MOUNT 6" ABOVE COUNTER.
- ⊕ DUPLEX RECEPTACLE OUTLET, SEE ABOVE, GROUND FAULT CIRCUIT INTERRUPTER (GFCI).
- ⊕ DUPLEX RECEPTACLE OUTLET, SEE ABOVE, GFCI, MOUNT 6" ABOVE COUNTER.
- ⊕ QUADRAPLEX RECEPTACLE OUTLET, SEE ABOVE.
- ⊕ SPECIAL RECEPTACLE OUTLET, RATING AS INDICATED, (18" A.F.F. UNLESS NOTED OTHERWISE).
- ⊕ JUNCTION BOX, COORDINATE WITH EQUIPMENT (18" A.F.F. UNLESS NOTED OTHERWISE).
- ▽ COMBINATION TELEPHONE/COMPUTER OUTLET, 4"x4"x1 1/2" BOX WITH SINGLE GANG EXTENSION RING (18" A.F.F. UNLESS NOTED OTHERWISE). SEE DETAIL ON SHEET 0.E201.
- ▽ COMBINATION TELEPHONE/COMPUTER OUTLET, SEE ABOVE, MOUNT 6" ABOVE COUNTER.
- P1 POWER PANEL "P1".
- TB1 TELEPHONE BACKBOARD "TB1".
- ⊕ PC PHOTOCELL (1000 WATTS UNLESS NOTED OTHERWISE).
- ⊕ GROUNDING CONNECTION/DEVICE.
- ⊕ BRANCH CIRCUIT, ARROW INDICATES HOMERUN, CROSS LINES INDICATE NUMBER OF CONDUCTORS, GROUNDING CONDUCTOR IS NOT SHOWN BUT SHALL BE PROVIDED IN ALL CIRCUITS (2#12, 1#12G, 1/2"C UNLESS NOTED OTHERWISE).
- ⊕ KEYED NOTE IDENTIFIER
- ▽ CATV OUTLET BOX, 4"x4"x1 1/2" BOX WITH SINGLE GANG EXTENSION RING (18" A.F.F. UNLESS NOTED OTHERWISE). SEE DETAIL.
- ⊕ OC CEILING MOUNTED LIGHTING CONTROL - OCCUPANCY SENSOR WATTSTOPPER DT-300
- ⊕ SECURITY CAMERA, OFCI. CONTRACTOR TO INSTALL IN LOCATIONS SHOWN AND INSTALL 1 RUN OF CAT VI FROM CAMERA BACK TO NETWORK RACK IN ELECTRICAL ROOM.
- OFCI OWNER FURNISHED AND CONTRACTOR INSTALLED PRODUCT.
- ⊕ CEILING FAN. SEE SCHEDULE.
- ⊕ WIRELESS ACCESS POINT, OFCI. CONTRACTOR TO INSTALL IN LOCATIONS SHOWN. ROUTE CAT VI CABLE BACK TO DATA RACK IN ELECTRICAL ROOM. START-UP BY OWNER.

Order Plans

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**BOATING CENTER REDEVELOPMENT-
SWAIN BOATING CENTER**
H09-9617-PG-C

THE CITADEL
11 HAMMOND AVENUE
CHARLESTON, SC

THE MILITARY COLLEGE OF SOUTH CAROLINA

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ELECTRICAL NOTES, LEGEND, AND SCHEDULE

0.E001

BID DOCUMENTS