

ELECTRICAL LEGEND

GENERAL NOTES

1.

THE WORK TO BE DONE SHALL INCLUDE THE FURNISHING OF ALL LABOR, MATERIALS, APPLIANCES, EQUIPMENT, TOOLS, TRANSPORTATION, SUPERINTENDENTS AND SERVICES REQUIRED TO CONSTRUCT, INSTALL AND TO MODIFY THE ELECTRICAL SYSTEMS AS HEREIN SPECIFIED AND SHOWN ON THESE DRAWINGS FOR A COMPLETE OPERATIONAL SYSTEM. COORDINATE WORK TO BE PERFORMED OR INSTALLED BY OTHERS AFFECTING THE ELECTRICAL WORK AND PROVIDE AND INSTALL ALL NECESSARY ANCHORS, SLEEVES, HANGERS, ETC. FOR ATTACHING OR CONNECTING ELECTRICAL WORK TO RELATED WORK OF OTHER TRADES.

2.

ALL ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST ADOPTED NATIONAL ELECTRICAL CODE AND ALL OTHER LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.

3.

THE DRAWINGS, WHICH CONSTITUTE A PART OF THIS CONTRACT, INDICATE THE GENERAL ARRANGEMENT OF CIRCUITS AND LOCATIONS OF OUTLETS, SWITCHES, PANELBOARDS, CONDUIT AND OTHER WORK. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN, WHICH ARE ACCESSORY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AT NO EXTRA COST.

4.

IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO EXAMINE AND TO COORDINATE WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS AND THE DRAWINGS OF ALL OTHER TRADES IN ORDER TO BECOME FAMILIAR WITH ALL ASPECTS OF THE DESIGN AFFECTING THE ELECTRICAL WORK.

5.

CONTRACTOR SHALL COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF ALL NEW ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. DEVICES INCLUDED BUT ARE NOT LIMITED TO RECEPTACLES, SWITCHES, FIXTURES AND TELE/DATA OUTLETS.

6.

ALL ELECTRICAL MATERIALS SHALL BE NEW EXCEPT WHERE SPECIFICALLY NOTED AS EXISTING TO BE REUSED. ALL MATERIAL SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES, INC. (UL). DEFECTIVE EQUIPMENT AND/OR EQUIPMENT DAMAGED DURING INSTALLATION AND/OR TESTING SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING THE APPROVAL OF THE ARCHITECT AND THE ENGINEER. WHERE APPLICABLE, ALL EQUIPMENT SHALL BE IN ACCORDANCE WITH NEMA STANDARDS.

7.

ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE.

8.

ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.

9.

INSTALL A FIRE STOP OF ROCKWOOL FIBER OR SILICON FOAM SEALANT TO PROVIDE AN EFFECTIVE BARRIER AGAINST THE SPREAD OF FIRE AND SMOKE WHERE CONDUITS, WIREWAYS, AND OTHER ELECTRICAL RACEWAYS PASS THROUGH FIRE RATED PARTITIONS AND/OR SLABS.

10.

ALL CERTIFICATES OF APPROVAL SHALL BE IN TRIPLICATE, DELIVERED TO THE ENGINEER, AND BECOME THE PROPERTY OF THE OWNER.

11.

CONTRACTOR SHALL VERIFY ALL EQUIPMENT REQUIREMENTS BEFORE INSTALLING CONDUIT OR CONDUCTORS FROM POWER SOURCE TO EQUIPMENT TERMINATION.

12.

THE CONTRACTOR SHALL X-RAY SLAB IN AREA OF PENETRATION PRIOR TO CORE DRILLING AND COORDINATE WITH EQUIPMENT IN CEILING SPACE BELOW TO CHECK FOR OBSTRUCTIONS.

13.

CONDUCTOR INSTALLATION: HOMERUNS TO THE PANELBOARD MAY BE RUN TOGETHER IN ONE CONDUIT.

14.

PROVIDED ALL CONNECTIONS ARE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ELECTRICAL CODE REQUIREMENTS, AND THE MAXIMUM UNBALANCED CURRENT IN NEUTRAL DOES NOT EXCEED THE CAPACITY OF THE WIRE, NO MORE THAN 3 SINGLE PHASE CIRCUIT SHALL BE INSTALLED IN ONE RACEWAY. ELIMINATE SPLICES WHEREVER POSSIBLE, AND WHERE NECESSARY, SPLICE IN READILY ACCESSIBLE PULL, JUNCTION OR OUTLET BOX.

15.

MODIFICATIONS TO EXISTING PANELBOARDS: THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKERS AND/OR FUSED SWITCHES AS REQUIRED. NEW EQUIPMENT SHALL MATCH EXISTING INSTALLED EQUIPMENT AND SHALL BE OF THE SAME MANUFACTURER AND TYPE AS SIMILAR EXISTING EQUIPMENT. INTERRUPT RATING OF EQUIPMENT SHALL BE THE SAME AS OF THE EXISTING EQUIPMENT.

16.

INTERRUPTION OF ELECTRICAL POWER: THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK REQUIRING INTERRUPTION OF ELECTRICAL POWER WITH THE BUILDING OWNER AND SHALL OBTAIN WRITTEN PERMISSION FROM THE BUILDING OWNER PRIOR TO SHUTTING DOWN POWER TO ANY SWITCHBOARD. THE CONTRACTOR SHALL ALSO PROVIDE NOTICE TO ALL OTHER TRADES OF ALL SCHEDULED INTERRUPTIONS OF POWER.

17.

SITE VISIT: PRIOR TO SUBMITTING HIS BID, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE ARCHITECT AND/OR ENGINEER IN ADVANCE OF ANY CONDITIONS THAT EXIST THAT WOULD PREVENT THE WORK HEREIN SPECIFIED OR SHOWN ON THE DRAWINGS FROM BEING PERFORMED. FAILURE TO SURVEY THE SITE PRIOR TO BID AND START OF CONSTRUCTION WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO INSTALL DESIGN WITHIN THE CONFINES OF THE EXISTING CONDITIONS.

ELECTRICAL LEGEND

GENERAL NOTES

18.

GUARANTEE: THE ELECTRICAL CONTRACTOR SHALL LEAVE THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT IN PROPER WORKING ORDER AND SHALL, WITHOUT CHARGE, REPLACE ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. BENEFICIAL USE SHALL NOT BE CONSTRUED AS FINAL ACCEPTANCE. THE ELECTRICAL CONTRACTOR SHALL, DURING THE ONE YEAR GUARANTEE PERIOD, BE RESPONSIBLE FOR THE PROPER REPAIR AND ADJUSTMENTS OF ALL ELECTRICAL SYSTEMS AND EQUIPMENT, APPARATUS, DEVICES, ETC, INSTALLED BY HIM, AND DO ALL WORK NECESSARY TO ENSURE EFFICIENT AND PROPER FUNCTIONING. PRIOR TO THE EXPIRATION OF THE GUARANTEE PERIOD, APPROXIMATELY 11 MONTHS AFTER FINAL ACCEPTANCE OF THIS PROJECT, A POST CONSTRUCTION REVIEW OF THE PROJECT WILL BE MADE.

19.

THE CONTRACTOR SHALL FURNISH PERSONNEL TO ASSIST THE OWNER IN THIS REVIEW. ANY ADJUSTMENTS, REPAIRS OR REPLACEMENTS FOUND NECESSARY DURING REVIEW SHALL BE DONE BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.

20.

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL INCUR FINANCIAL RESPONSIBILITY FOR ANY DAMAGES CAUSED BY, OR RESULTING FROM, DEFECTS IN HIS WORK.

21.

THE ELECTRICAL CONTRACTOR SHALL MAINTAIN AT THE SITE, FOR THE OWNER, ONE COPY OF ALL DRAWINGS, ADDENDA, APPROVED SHOP DRAWINGS, REVISIONS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. THE SET OF DRAWINGS AND OTHER INFORMATION SHALL BE DELIVERED TO THE OWNER AND ONE COPY GIVEN TO THE ENGINEER UPON COMPLETION OF WORK.

22.

ALL CONDUCTORS SHALL BE COPPER, CONFORMING TO THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, STRANDED FOR NO. 8 AWG AND LARGER, SOLID FOR NO. 10 AWG AND SMALLER.

23.

ALL WIRING SHALL BE INSTALLED IN CONDUIT (EMT WITH STEEL COMPRESSION FITTINGS OR TYPE MC CABLE WHERE ALLOWED BY CODE). MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL CONDUIT AND WIRING SHALL BE CONCEALED IN CEILINGS AND/OR WALLS UNLESS SPECIFICALLY NOTED OTHERWISE. CHANNEL EXISTING WALLS WHERE REQUIRED. WHERE WIRING RUNS ARE EXPOSED DUE TO THE LACK OF A NEW FINISHED CEILING, EMT SHALL BE USED. INSTALL ALL CONDUITS IN RUNS WHICH ARE PARALLEL AND PERPENDICULAR WITH BUILDING LINES.

ELECTRICAL LEGEND

POWER

NOTES: REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS.

WP: WEATHER PROOF (NEMA 3R)

IG: ISOLATED GROUND.

GFI: GROUND FAULT INTERRUPTER.

WALL MOUNTED 20A DUPLEX RECEPTACLE. (18" AFF UON).

WALL MTD. SPECIAL RECEPTACLE. NEMA TYPE PER PLANS.

FLOOR MOUNTED 20A QUADRUPLX RECEPTACLE.

CEILING MOUNTED JUNCTION BOX.

WALL MOUNTED JUNCTION BOX.

DISCONNECT SWITCH - NON-FUSED.

FUSED DISCONNECT SWITCH. FUSE SIZE PER PLANS.

COMBINATION STARTER/DISCONNECT SWITCH.

MOTOR. REFER TO MECHANICAL PLANS FOR HORSEPOWER.

SURFACE MOUNTED PANEL.

ENCLOSED CIRCUIT BREAKER.

GENERAL

INDICATES PLAN NOTE.

INDICATES REVISION. CLOUDED AREA CONTAINS THE REVISION.

INDICATES ROOM NUMBER.

BRANCH CIRCUIT HOMERUN

GROUND

ELECTRICAL LEGEND

ABBREVIATIONS

A, AMP AMPERES

G, GND GROUND

AB ABOVE

GC GENERAL CONTRACTOR

AC ALTERNATE CURRENT

GFI GROUND FAULT INRRUPTER

AFF ABOVE FINISHED FLOOR

IG ISOLATED GROUND

ARCH ARCHITECTURAL, ARCHITECT

INCAND INCANDESCENT

BEL BELOW

KAIC KILOAMP INTERRUPTING CURRENT

BKR BREAKER

KVA KILOVOLT AMPERES

C CONDUIT

KW KILOWATTS

CEIL CEILING

LT(S) LIGHT(S)

CKT CIRCUIT

M METER

CM CENTIMETER

MCS ENCLOSED MOLDED CASE SWITCH

DC DIRECT CURRENT

MECH MECHANICAL

DIS DISCONNECT SWITCH

MH MOUNTING HEIGHT

DWG DRAWING

MLO MAIN LUGS ONLY

EC ELECTRICAL CONTRACTOR

MM MILLIMETER

EF EXHAUST FAN

MTD MOUNTED

ELEC ELECTRICAL

NO, # NUMBER

EM EMERGENCY

NTS NOT TO SCALE

EQUIP EQUIPMENT

P POLE

EXIST EXISTING

PH, Ø PHASE

FA FIRE ALARM

PNL PANEL

FACP FIRE ALARM CONTROL PANEL

RECEP RECEPTACLE

FAAP FIRE ALARM ANNUNCIATOR PANEL

RM ROOM

FIXT FIXTURE

TELE TELEPHONE

FLA FULL LOAD AMPERES

TYP TYPICAL

FLUOR FLUORESCENT

UON UNLESS OTHERWISE NOTED

V VOLTS

W WATTS

W/ WITH

WP WEATHERPROOF

LIGHTING

NOTE: REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE TYPES.

A: CAPITAL LETTER ADJACENT TO FIXTURE INDICATES TYPE.

a: LOWER CASE LETTER INDICATES SWITCHING.

NL: INDICATES NIGHT LIGHTING - UNSWITCHED FIXTURE.

SHADED CIRCLE INDICATES FIXTURE ON EMERGENCY CIRCUIT.

WALL MOUNTED FIXTURE.

POLE MOUNTED FIXTURE - SINGLE HEAD.

EMERGENCY BATTERY PACK LIGHT FIXTURE.

CEILING/WALL MOUNTED EXIT SIGN - SINGLE FACE. PROVIDE DIRECTIONAL ARROWS PER PLANS.

CEILING/WALL MOUNTED EXIT SIGN - DOUBLE FACE. PROVIDE DIRECTIONAL ARROWS PER PLANS.

20A, 1P, 120V TOGGLE TYPE LIGHT SWITCH.

20A, 1P, 120V KEY OPERATED LIGHT SWITCH.

LOW VOLTAGE LIGHT SWITCH.

TOGGLE TYPE MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION.

WALL MOUNTED OCCUPANCY SENSOR. WATTSTOPPER DW-100 OR APPROVED EQUAL.

DUAL RELAY WALL MOUNTED OCCUPANCY SENSOR. WATTSTOPPER DW-200 OR APPROVED EQUAL.

CEILING MOUNTED OCCUPANCY SENSOR. WATTSTOPPER DT-355 OR APPROVED EQUAL.

CEILING MOUNTED DAYLIGHT SENSOR.

HIGH BAY LINE VOLTAGE PASSIVE INFRARED OCCUPANCY SENSOR WITH PROTECTIVE CAGE. WATTSTOPPER HB340B-L3 WITH PROTECTIVE CAGE OR APPROVED EQUAL.

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SUBMISSION SCHEDULE

DATE

1 PERMIT SET

07-17-2015

REVISION SCHEDULE

DATE

NO DESCRIPTION

PROJECT:

DYRS GYMNASIUM RENOVATION

1000 MOUNT OLIVET ROAD, NE
WASHINGTON, DC 20002

SHEET TITLE:

ELECTRICAL COVER SHEET

PROJECT NO: 1310

JULY 17, 2015

SCALE:

SHEET NO:

E001

