

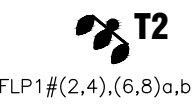
ELECTRICAL SYMBOL LIST



UNDERGROUND RACEWAY AND WIRING ENCASED IN CONCRETE ENVELOPE AND WITH IDENTIFYING RIBBON. HASH MARKS INDICATE QTY OF WIRE, NUMBER WHERE SHOWN INDICATES SIZE OF CONDUCTORS OTHER THAN NUMBER #12 AWG. PLUS GROUND WIRE AS PER CODE (UNLESS OTHERWISE NOTED).



WALL, FLOOR OR CEILING MOUNTED JUNCTION BOX SERVING EQUIPMENT SHOWN.



FLP1#(2,4),(6,8)a,b

MUSCO OR APPROVED EQUAL POLE MOUNTED LUMINAIRES, BOLD UPPER CASE LETTER/NUMERAL INDICATES FIXT. TYPE COMBINATION UPPER CASE LETTERS/NUMERAL DENOTED PANELBOARD DESIGNATION & BRANCH CIRCUIT NUMBER.LOWER CASE LETTER(S) DENOTES SWITCHING CONTROL SEQUENCE.

S a,b

SINGLE- POLE, 125/277V WALL SWITCH
LOWER CASE LETTER(S) INDICATES LIGHT CONTROL SEQUENCE



WP

GROUND-FAULT CIRCUIT INTERRUPTER RECEPTACLE, WP- WEATHERPROOF



DUPLEX RECEPTACLE, 125 VOLTS, 20 AMPS, 3-WIRE + GROUNDED POLE

S □

UNFUSED DISCONNECT SWITCH, S-INDICATES SWITCH SIZE
WP INDICATES WEATHERPROOF

S/F □

FUSED DISCONNECT SWITCH, S-INDICATES SWITCH SIZE; F-DENOTES FUSE SIZE.



COMBINATION STARTER AND DISCONNECT SWITCH, NEMA SIZE AS NOTED



ELECTRICAL PANELBOARD



TELEPHONE OUTLET - WALL PHONE



COMBINATION TELEPHONE/DATA OUTLET W/ CAT. 5 CABLE, JACK, COVERPLATE
AND PROVISIONS FOR HIGH-SPEED INTERNET CONNECTION.



FLUSH CEILING MOUNTED SOUND SYSTEM SPEAKER.



SOUND SYSTEM VOLUME CONTROL.

ABBREVIATIONS

AFG	ABOVE FINISHED GRADE	LTG	LIGHTING
AMP or A	AMPERE	MAX	MAXIMUM
C	CONDUIT	MIN	MINIMUM
CB	CIRCUIT BREAKER	MTD	MOUNTED
CKT	CIRCUIT	#	NUMBER
COMB	COMBINATION	P	POLE
CU	COPPER	PB	PUSHBUTTON
DET	DETECTOR	PH or Ø	PHASE
DISC	DISCONNECT	QTY	QUANTITY
ELECT	ELECTRICAL	REC	RECEPTACLE
EQUIP	EQUIPMENT	REQD	REQUIRED
EXIST	EXISTING	SCHED	SCHEDULE
F.A.	FIRE ALARM	STA	STATION
FIXT	FIXTURE	SW	SWITCH
FLR	FLOOR	TELE	TELEPHONE
FLUOR	FLUORESCENT	TEMP	TEMPERATURE
FU	FUSE	TYP	TYPICAL
GF	GROUND FAULT	V	VAPOR-TIGHT
GND or GRD	GROUND	W	WATTS
INCAND	INCANDESCENT	W/	WITH
		W/O	WITHOUT
		WP	WEATHERPROOF

19. A COMMON NEUTRAL MAY BE USED AS PERMITTED BY NEC FOR MULTI-WIRE BRANCH CIRCUITS. SEPARATE NEUTRAL SHALL BE PROVIDED FOR CIRCUITS CONNECTED TO GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKERS OR WIRING DEVICES.

20. ALL BRANCH CIRCUITS SHALL INCLUDE A GREEN INSULATED GROUND WIRE SIZED AS PER NEC OR AS SHOWN CONNECTED TO DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD BUS. MULTI-WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL REQUIRE ONLY ONE (1) GROUND WIRE. THE NUMBER OF WIRES SHOWN ON DRAWINGS MAY NOT INCLUDE THIS GROUND WIRE.

21. IN CASES WHERE CONFLICTS BETWEEN DRAWINGS AND SPECIFICATIONS, OR BETWEEN DIFFERENT TRADES, AS WELL AS WITH CASES OF ANY OMISSION OF INFORMATION FROM THE DRAWINGS, NOTIFY THE ARCHITECT AND PROCURE RESOLUTION OF THE CONFLICT OR OMISSION BEFORE PROCEEDING WITH THE INSTALLATION OF A PARTICULAR SYSTEM OR EQUIPMENT.

22. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN OR THWN. 600V, 75 DEG. C., EXCEPT AS INDICATED OTHERWISE. MINIMUM WIRE SIZE FOR POWER AND LIGHTING SHALL BE #12 AWG. ALUMINUM CONDUCTORS SHALL NOT BE ACCEPTABLE.

23. BOLD UPPER CASE LETTER/NUMERAL NOTATION AT LIGHTING FIXTURE INDICATES FIXTURE TYPE TO BE PROVIDED.
(SEE LIGHTING FIXTURE SCHEDULE). LOWER CASE LETTER(S) IN OR NEXT TO UNIT DENOTES SWITCHING ARRANGEMENT.

24. LIGHTING FIXTURE SCHEDULE CATALOG NUMBER WHERE NOTED MAY NOT INCLUDE ALL ACCESSORIES, OPTIONS AND FINISHES REQUIRED. CONTRACTOR IS RESPONSIBLE TO PROVIDE COMPLETE FIXTURE AS DESCRIBED IN FIXTURE SCHEDULE. SUBMIT MANUFACTURER'S SHOP DRAWING CUTS FOR ARCHITECT'S WRITTEN APPROVAL PRIOR TO PLACING PURCHASE ORDER FOR FIXTURES.

25. PROVIDE SEISMIC BRACING FOR THE ENTIRE ELECTRICAL INSTALLATION FOR SEISMIC ZONE 4 AS DEFINED BY THE UNIFORM BUILDING CODE, THE LATEST EDITION. EQUIPMENT TO BE BRACED SHALL INCLUDE, BUT NOT LIMITED TO: CONDUITS LARGER THAN 2 1/2" MOUNTED IN EXCESS OF 12" FROM STRUCTURE; ALL FLOOR AND WALL MOUNTED, PANELBOARDS, DISCONNECT SWITCHES, FIXTURES AND OTHER EQUIPMENT ENCLOSURES.

DEMOLITION NOTES

- ELECTRICAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AFFECTING PROJECT REMOVAL SCOPE-OF-WORK PRIOR TO PROCEEDING WITH WORK IN AREA.
- PROVIDE REQUIRED FENCE AND BARRIERS TO ISOLATE AFFECTED WORK AREAS FROM AREA NOT AFFECTED BY THIS SCOPE-OF-WORK.
- DE-ENERGIZE, DISCONNECT AND REMOVE ANY EXISTING ELECTRICALLY POWERED EQUIPMENT IN PATH OF NEW WORK. PROVIDE REQUIRED BY-PASS RACEWAY, WIRING AND CABLE NECESSARY TO MAINTAIN ACTIVE DOWNSTREAM POWER OR SIGNAL CONNECTIONS NOT A PART OF DEMOLITION SCOPE-OF-WORK. RESTORE ALL TO ORIGINAL FUNCTION. NO SITE BUILDING SYSTEMS (FIRE ALARM, SECURITY, LIGHTING RECEPTACLES, ETC.) SHALL NOT BE DE-ENERGIZED OR DISTURBED WITHOUT THE APPROVAL OF THE OWNER.
- CONTRACTOR SHALL REMOVE ALL ABANDONED RACEWAY AND WIRING NO LONGER PART OF NEW ELECTRICAL SCHEME, BACK TO PANELBOARD, OTHER POWER SOURCE OR LAST AFFECTED OUTLET REQUIRED TO REMAIN. CUT BACK RACEWAY BEYOND FINISHED SURFACE AND PATCH TO MATCH ADJOINING EXISTING GRADE.
- CONTRACTOR SHALL REMOVE ALL DEBRIS AT THE END OF EACH DAY AND DISPOSE OF AS DIRECTED BY OWNER.

GENERAL NOTES

- THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS COVER THE FURNISHING OF ALL LABOR, EQUIPMENT AND MATERIALS; AND THE PERFORMANCE OF ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM. THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND BOTH DOCUMENTS SHALL BE BINDING.
- ALL WORK SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE AND ALL LOCAL LAWS, ORDINANCES AND REGULATIONS. COPIES OF SAME CODES SHALL BE KEPT AT THE PROJECT SITE THROUGHOUT THE LIFE OF THE CONTRACT. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND APPROVAL.
- MAINTAIN A COMPLETE SET OF CURRENT AS-BUILT DRAWINGS AT THE SITE, AVAILABLE FOR INSPECTION BY THE ARCHITECT.
- BEFORE ANY PIPING, CONDUIT, OUTLETS, EQUIPMENT OR LIGHTING FIXTURES ARE LOCATED ON SITE OR ANY AREA, COORDINATE MANUFACTURER'S FINAL APPROVED POLE LAYOUT WITH ALL OTHER TRADES. SPACE SHALL BE ARRANGED SO THAT ALL TRADES CAN INSTALL THEIR WORK AND PERMIT ACCESS FOR FUTURE MAINTENANCE AND REPAIR. ANY EQUIPMENT INSTALLED IN VARIANCE WITH THE REQUIREMENTS MENTIONED ABOVE, SHALL BE RELOCATED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER.
- COORDINATE ALL INSPECTIONS PRIOR TO CONCEALMENT OF ALL INTERIOR AND EXTERIOR WORK.
- PROVIDE 'UL' AND SERVICE ENTRANCE LABELS ON ALL APPARATUS AS REQUIRED BY THE LOCAL AUTHORITY.
- EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES WILL BE INSTALLED OR PLACED IN THEIR RESPECTIVE LOCATIONS BY OTHERS. ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE AND MAKE THE CONNECTIONS TO EQUIPMENT. PROVIDE DISCONNECTS SIZED WITH FUSES, RECEPTACLE/PLUG, ENCLOSED CIRCUIT BREAKERS IN ACCORDANCE WITH THE NEC AND MANUFACTURERS NAMEPLATE DATA AND RECOMMENDATIONS.
- LABEL AND IDENTIFY ALL JUNCTION BOXES, HANDHOLES, MANHOLES, PANELBOARDS, MAJOR SWITCHES AND CONTROL EQUIPMENT AT THE TIME OF INSTALLATION. PROVIDE PERMANENT IDENTIFICATION PRIOR TO FINAL INSPECTION.
- TYPEWRITTEN PANELBOARD DIRECTORIES SHALL BE PROVIDED IN EACH PANELBOARD AT THE TIME OF FINAL INSPECTION. MAINTAIN AN 'AS-BUILT' PENCILED DIRECTORY AT EACH PANEL BOARD DURING CONSTRUCTION.
- PROVIDE 8" HIGH CONCRETE SERVICE PAD FOR EXTERIOR GRADE MOUNTED EQUIPMENT.
- ALL SEPARATELY DERIVED SYSTEMS SHALL BE PROVIDED WITH A GROUND SYSTEM AS PER NEC 250.
- ALL CONDUITS SHALL BE CONCEALED, UNLESS SHOWN OR INDICATED SPECIFICALLY TO BE EXPOSED.
NO CONDUIT SHALL RUN IN SLAB UNLESS SPECIFICALLY INDICATED AND COORDINATED WITH STRUCTURAL ENGINEER OR ARCHITECT.
- EXACT ROUTING OF ALL CONDUIT SHALL BE APPROVED BY THE ARCHITECT AND CIVIL ENGINEER.
- ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EITHER EXPANSION FITTINGS OR FLEXIBLE CONDUIT ACROSS JOINTS.
- ALL UNDERGROUND CONDUIT AND WIRING SHALL BE INSTALLED AT DEPTHS BELOW FINISHED GRADE (BELOW SLAB AND SUB-BASE LEVELS) AS PER NEC ARTICLE 300-5.
- ALL SITE UNDERGROUND CONDUIT SHALL BE 1" MINIMUM, UNLESS OTHERWISE NOTED.
- ALL CONDUIT FOR FUTURE USE SHALL STUBBED AND CAPPED IN THE VICINITY OF EQUIPMENT PAD AND SHALL HAVE A #6 GAUGE FISH WIRE PULLED IN THE CONDUIT AND SECURED AT BOTH ENDS.
- CROSSHATCH MARKS INDICATED AT RACEWAY SYMBOL ON PLANS DENOTE THE NUMBER OF CONDUCTORS REQUIRED IN THE RACEWAY. NO CROSSHATCH MARKS INDICATED TWO(2) & GROUND CONDUCTOR. AN ELONGATED CROSSHATCH MARK DENOTED NEUTRAL CONDUCTOR AND THE LETTER 'G', (WHERE SHOWN) GROUND CONDUCTOR.

WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES, THE A/E CANNOT GUARANTEE AGAINST HUMAN ERROR. THE CONTRACTOR IS TO USE THE SYMBOLS, DIMENSIONS, DETAILS AND CONSTRUCTION ARE AND NOTABLE REQUIREMENTS FOR PROJECT. ANY DISCREPANCIES NOTED ON THE DRAWINGS OR IN THE FIELD, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE A/E IS NOTIFIED.

WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES, THE A/E CANNOT GUARANTEE AGAINST HUMAN ERROR. THE CONTRACTOR ON THE JOB MUST CHECK ALL DIMENSIONS, DETAILS, AND THE CONSTRUCTION SITE AND BE RESPONSIBLE FOR SAME.



REVISIONS				
REMARKS				
DATE				
NO.				

SYMBOLS, ABBREVIATIONS & NOTES

PROPOSED BATHROM & CONCESSION BUILDINGS
FOR: IEKHA TRACK & FIELD ATHLETIC FACILITY
OWNER: VIRGIN ISLANDS DEPARTMENT OF EDUCATION
No. 172 ESTATE NAZARETH
No. 1 RED HOOK QUARTER
ST. THOMAS, USVI

DRAWN BY:	H.A.P.
CHECKED BY:	EB
APPROVED BY:	EB
CONTRACT NO.:	
PROJECT NO.:	
DATE:	MAY 27, 2016
SHEET NO.:	E0.0
SHEET NO.	OF 28 SHEETS

RELEASED FOR CONSTRUCTION