

SECURITY SYMBOLS

GFCI CCTV CAMERA, FIXED
W = WALL
C = CEILING
R = ROOF/PARAPET
P = POLE

GFCI CCTV CAMERA, PAN-TILT-ZOOM
W = WALL
C = CEILING
R = ROOF/PARAPET
P = POLE

HID RP40 CARD READER

HID RPK40 CARD READER WITH KEYPAD

KEYPAD

ELECTRIFIED LOCK SET w/INTEGRAL REX (PROVIDED BY DIV.8)

360° PASSIVE INFRARED/MICROWAVE SENSOR

PASSIVE INFRARED/MICROWAVE SENSOR

DOOR POSITION SWITCH

CCTV MONITOR

ALARM MONITORING WORKSTATION

VANDERBILT ACCESS CONTROL SYSTEM PANEL

DMP INTRUSION DETECTION SYSTEM PANEL

120VAC POWER (PROVIDED BY DIV.26)

DATA CONNECTION (PROVIDED BY DIV.27)

PATH PANEL (BY DIV 27)

NETWORK SWITCH

| SCHEDULES | | |
|----------------|--|---------------------|
| CABLE SCHEDULE | | |
| CABLE TYPE | DESCRIPTION | USE |
| (A) | COMPOSITE: 3PR 18AWG, 4C 16AWG, 6C 18AWG CMP | DOOR INTERFACE BOX |
| (B) | 2 PAIR 24AWG | RS485 |
| (C) | 1PR 22AWG, SHLD + 2C 16AWG PWR | CARD READER OSDP |
| (D) | 6C 22AWG, SHLD | CARD READER WIEGAND |
| (E) | 2C 18AWG CMP | DPS |
| (F) | 6C 22AWG CMP | HSS/BMS |
| (G) | 4C 18AWG CMP | REX |
| (H) | 4C 16AWG CMP | 24VDC LOCK POWER |
| (J) | 2C 20AWG CMP | TAMPER |
| (K) | 4C 20AWG, SHLD | ALARM SENSOR |
| (L) | 3PR 18AWG, SHLD | ALARM SENSOR |
| (M) | 2C 16AWG, SHLD | LOW VOLTAGE POWER |
| (N) | 3C 12AWG DIRECT BURY | LINE VOLTAGE |
| (O) | 12C, 9um SMF CMP | COMM SMF |
| (P) | 6C, 62.5um MMF CMP | COMM MMF |
| (Q) | CAT6 CABLE, 4 UTP | VIDEO SURVEILLANCE |

| GENERAL NOTES | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 1. CONTRACTOR MUST FIELD VERIFY EQUIPMENT LOCATIONS PRIOR TO THE START OF INSTALLATION. ANY CONFLICTS MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT. | | | | | | | | | | | | | | |
| 2. MINIMUM CONDUIT SIZE MUST BE 3/4" WITH THE EXCEPTION OF "DROP CONDUITS" AT DOOR LOCATIONS, WHICH MAY BE 1/2". ALL CONDUITS MUST BE EMT; EXCEPTIONS INCLUDE: | | | | | | | | | | | | | | |
| 2.1 RIGID STEEL FOR EXPOSED AREAS OR AREAS ACCESSIBLE TO UNSCREENED PERSONS | | | | | | | | | | | | | | |
| 2.2 PVC FOR BURIED OR CAST-IN-PLACE CONDUITS | | | | | | | | | | | | | | |
| 2.3 GALVANIZED RIGID STEEL FOR EXTERIOR CONDUITS | | | | | | | | | | | | | | |
| 2.4 FLEXIBLE CONDUIT FOR CONCEALED DROPS TO DOOR DEVICES | | | | | | | | | | | | | | |
| 3. CONDUIT FILL MUST NOT EXCEED 40%. INSTALLATION OF CONDUIT AND WIRING MUST BE IN COMPLIANCE WITH NATIONALELECTRICAL CODE (NEC). ALL WIRING MUST BE HOMERUN, UNLESS OTHERWISE NOTED. ANY SPLICES MUST BE APPROVED BY THE DESIGNER. | | | | | | | | | | | | | | |
| 4. SECURITY CONTROL CONDUCTORS MUST BE SHIELDED COPPER AND MINIMUM 18 AWG, UNLESS OTHERWISE NOTED. SECURITY CONDUCTORS MUST NOT SHARE CONDUIT WITH CONDUCTORS OF OTHER TRADES. SECURITY CONTRACTOR MUST BE RESPONSIBLE FOR ENSURING THAT HIGH VOLTAGE (120 VAC) POWER CONDUCTORS ARE NOT ROUTED WITHIN 12 INCHES OF SECURITY CONTROL WIRING. ALL CONDUCTORS MUST BE COLOR CODED AND TAGGED AS DESCRIBED IN THE WRITTEN SPECIFICATIONS AND APPROVED BY THE DESIGNER. | | | | | | | | | | | | | | |
| 5. THE CONTRACTOR MUST INSTALL ALL COMPONENTS USING MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES. ALL MATERIALS MUST BE NEW AND UNUSED. | | | | | | | | | | | | | | |
| 6. CONDUITS PENETRATING FIRE RATED WALLS OR FLOORS MUST USE U.L. APPROVED DEVICES IN ORDER TO MAINTAIN FIRE RATING OF THE WALL OR FLOOR. | | | | | | | | | | | | | | |
| 7. ALL SECURITY CABLING MUST BE INSTALLED IN CONDUIT. | | | | | | | | | | | | | | |
| 8. THE CONTRACTOR MUST MAINTAIN ALL CABLE MINIMUM BENDING RADII ACCORDING TO THE CABLE MANUFACTURER. | | | | | | | | | | | | | | |
| 9. THE CONTRACTOR MUST COORDINATE THE WORK OF THEIR TRADE WITH THAT OF THE OTHER TRADES ON THE JOB. CONFLICTS WITH OTHER TRADES MUST BE BROUGHT TO THE ATTENTION OF THE AR REPRESENTATIVE PRIOR TO INSTALLATION. WORK MUST ALSO BE COORDINATED AROUND PORTABLE AND MOBILE EQUIPMENT. | | | | | | | | | | | | | | |
| 10. ALL WORK MUST COMPLY WITH ALL APPLICABLE CODES, AMENDMENTS, RULES, REGULATIONS, ORDINANCES, LAWS, ORDERS, APPROVALS, ETC. THAT ARE REQUIRED BY PUBLIC AUTHORITIES. IN THE EVENT OF CONFLICT, THE MOST STRINGENT REQUIREMENTS MUST GOVERN. | | | | | | | | | | | | | | |
| 11. THE CONTRACTOR MUST SUPERVISE AND DIRECT THE WORK USING HIS BEST SKILL AND ATTENTION. HE MUST BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT. | | | | | | | | | | | | | | |

| APPLICABLE CRITERIA | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 32 CFR 117 NATIONAL INDUSTRIAL SECURITY PROGRAM OPERATING MANUAL (NISPOM) | | | | | | | | | | | | | | |
| IENSA LIGHTING PRACTICE AND RECOMMENDED PRACTICE STANDARDS, 2022 | | | | | | | | | | | | | | |
| NFPA 70, NATIONAL ELECTRIC CODE, 2020 | | | | | | | | | | | | | | |
| NFPA 496, EXPLOSIVES MATERIAL CODE | | | | | | | | | | | | | | |
| NFPA 101, LIFE SAFETY CODE, 2021 | | | | | | | | | | | | | | |
| DoD MANUAL 5100.76, PHYSICAL SECURITY OF SENSITIVE CONVENTIONAL ARMS, AMMUNITION, AND EXPLOSIVES, 2020 | | | | | | | | | | | | | | |
| DoD 4145, CONTRACTOR'S SAFETY MANUAL FOR AMMUNITION AND EXPLOSIVES, 2018 | | | | | | | | | | | | | | |
| AEROJET ROCKETDYNE, SECURITY IN DEPTH | | | | | | | | | | | | | | |

| ABBREVIATIONS | | | |
|---------------|---|----------|--------------------------------------|
| A | | M | |
| ACS | ACCESS CONTROL SYSTEM | MFR | MANUFACTURER |
| AFC | ABOVE FINISHED CEILING | MH | MOUNTING HEIGHT |
| AFF | ABOVE FINISHED FLOOR | MMF | MULTI MODE FIBER |
| AFG | ABOVE FINISHED GRADE | MTD | MOUNTED |
| ANN | ANNUNCIATOR | | |
| ARCH | ARCHITECTURAL | N | |
| AV | AUDIO AND VISUAL | NIC | NOT IN CONTRACT |
| AWG | AMERICAN WIRE GAGE | NTS | NOT TO SCALE |
| B | | O | |
| BAS | BUILDING AUTOMATION SYSTEM | OH | OVERHEAD |
| | | OSP | OUTSIDE PLANT |
| BATT | BATTERY | | |
| BB | BACKBONE | P | |
| BBV | BACKBONE VOICE | PA | PUBLIC ADDRESS |
| BEPB | BUILDING ENTRANCE PROTECTION BLOCKS | PB | PULL BOX |
| BFPP | BACKBONE FIBER PATCH PANEL | PBB | PRIMARY BONDING BUSBAR |
| | | PBX | PRIVATE BRANCH EXCHANGE |
| BLDG | BUILDING | PC | PERSONAL COMPUTER |
| BMS | BALANCED MAGNETIC SWITCH | PLAS | PLASTIC |
| | | PP | PATCH PANEL |
| BVPP | BACKBONE VOICE PATCH PANEL | PR | PAIR |
| | | PWR | POWER |
| C | | Q | |
| C | CONDUIT | QTY | QUANTITY |
| CAB | CABINET | | |
| CAT | CATEGORY | R | |
| CCTV | CLOSED CIRCUIT TELEVISION | RAF | RAISED ACCESS FLOOR |
| CLG | CEILING | RBB | RACK BONDING BUSBAR |
| CMH | COMMUNICATIONS MANHOLE | RBC | RACK BONDING CONDUCTOR |
| COB | CENTER OF BOX | RECP | RECEPTACLE |
| COM | COMMUNICATIONS | REQ | REQUIRED |
| M | | D | |
| CON | CONSTRUCTION | RGS | RIGID GALVANIZED STEEL |
| ST | | RM | ROOM |
| CONT | CONTINUATION | RSC | RIGID STEEL CONDUIT |
| D | | S | |
| DIA | DIAMETER | SBB | SECONDARY BONDING BUSBAR |
| DIST | DISTRIBUTION | | |
| DWG | DRAWING | SCRT | SECURITY |
| | | SECT | SECTION |
| E | | SM | SINGLE MODE |
| EF | ENTRANCE FACILITY | SMF | SINGLE MODE FIBER |
| EL | ELEVATION | SP | SERVICE PROVIDER |
| ELEC | ELECTRICAL | SPEC | SPECIFICATION |
| ELEV | ELEVATOR | STR | STRAND |
| EME | EMERGENCY | SURF | SURFACE |
| R | | SW | SWITCH |
| EQPT | EQUIPMENT | SYM | SYMMETRICAL |
| EX | EXISTING | SYS | SYSTEMS |
| F | | T | |
| FA | FIRE ALARM | TBB | TELECOMMUNICATIONS BONDING BACKBONE |
| FACP | FIRE ALARM CONTROL PANEL | TBC | TELECOMMUNICATIONS BONDING CONDUCTOR |
| FIXT | FIXTURE | TEBC | TELECOMMUNICATIONS EQUIPMENT |
| FLR | FLOOR | TEL | TELEPHONE |
| FO | FIBER OPTIC | TELE COM | TELECOMMUNICATIONS |
| FOC | FIBER OPTIC CABLE | | |
| G | | TER | TELECOMMUNICATIONS EQUIPMENT ROOM |
| GFCI | GOVERNMENT FURNISHED CONTRACTOR INSTALLED | TR | TELECOMMUNICATIONS ROOM |
| H | | TYP | TYPICAL |
| HCPP | HORIZONTAL COPPER PATCH PANEL | U | |
| HFPP | HORIZONTAL FIBER PATCH PANEL | UG | UNDERGROUND |
| HOV | HORIZONTAL VOICE | UON | UNLESS OTHERWISE NOTED |
| HVPP | HORIZONTAL VOICE PATCH PANEL | UPS | UNINTERRUPTIBLE POWER SUPPLY |
| I | | W | |
| IDS | INTRUSION DETECTION SYSTEM | WP | WEATHERPROOF |
| | | X | |
| J | | XFR | TRANSFER |
| JB | JUNCTION BOX | XP | EXPLOSION PROOF |