SECURITY SYMBOLS

- CCTV CAMERA, FIXED
  - W = WALL
  - C = CEILING
  - R = ROOF/PARAPET
  - P = POLE
- 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
- EL — ELECTRIFIED LOCK SET w/INTEGRAL REX (PROVIDED BY DIV.8)
- 360° PASSIVE INFRARED/MICROWAVE SENSOR
- PASSIVE INFRARED/MICROWAVE SENSOR
- DOOR POSITION SWITCH
- CCTV MONITOR
- AWS — ALARM MONITORING WORKSTATION
- ACS — VANDERBILT ACCESS CONTROL SYSTEM PANEL
- IDS — DMP INTRUSION DETECTION SYSTEM PANEL
- DIB — DOOR INTERFACE BOX
- PATH PANEL (BY DIV 27)
- NS — 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 & ICD -705 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

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

NO	DATE	DSGN
0	09/18/2024	DR

100% ISSUED FOR CONSTRUCTION - EXPANSION

BY	CHK	APVD	MT	APVD
BP	RKC	RC		TM
BY	CHK	APVD		
	MG			

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SECURITY
GENERAL NOTES, ABBREVIATIONS AND SYMBOLS

SHEET NO
TY-001

SCALE	As indicated
DATE	09/18/2024
PROJ	D3754502
DWG	CMDN-OSD_Test-Stand_TY-001

PLOT DATE/TIME: 9/16/2024 12:37:03 PM

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