

FORT McMURRAY AIRPORT RENTAL CAR WASH / QTA FACILITY SECURITY AND COMMUNICATIONS SYSTEMS PACKAGE



CONSULTANT
PRIME:
AECOM Canada Architects Ltd.
Suite 330, 3292 Production Way
Burnaby, BC, Canada, V5A 4R4

PROJECT
FORT McMURRAY
AIRPORT RENTAL CAR
WASH / QTA FACILITY
SITE ADDRESS:
FORT McMURRAY, ALBERTA

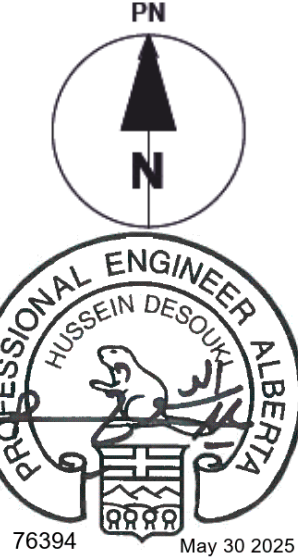
PROJECT NUMBER
60723990

CLIENT



REGISTERED OWNER:
FORT McMURRAY AIRPORT AUTHORITY
Address
Suite 300 - 100 Snow Bird Way Fort McMurray, AB T9H 0G3

NORTH ARROW AND KEYPLAN



PERMIT TO PRACTICE
AECOM CANADA ULC
PM SIGNATURE:
PM APEGA ID #: 76394
DATE: May 30 2025
PERMIT NUMBER: P010450
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

NOTE:
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REGISTRATION

FOR INFORMATION ONLY

NOT FOR CONSTRUCTION

ISSUE/REVISION		
E	2025-06-06	ISSUED FOR TENDER (FINAL)
D	2025-04-25	ISSUED FOR TENDER (DRAFT)
C	2025-02-14	ISSUED FOR 100% SUBMISSION
B	2025-02-07	ISSUED FOR 100% REVIEW
A	2024-05-29	ISSUED FOR 60% REVIEW
I/R	DATE	DESCRIPTION

PRODUCTION INFORMATION
DRAWN: BB
REVIEWED: AT
VERIFIED: HD

SHEET TITLE
SECURITY & COMMS SYSTEMS
QTA
COVER SHEET

SHEET NUMBER
0000
REVISION
E

DRAWING LIST	
SECURITY AND COMMUNICATIONS DRAWINGS	
DRAWING NUMBER:	SHEET NAME:
60723990-SHT-SEC-0000	QTA COVER SHEET
60723990-SHT-SEC-0010	QTA DRAWING LIST
60723990-SHT-SEC-0100	SITE PLAN
60723990-SHT-SEC-0101	FLOOR PLAN
60723990-SHT-SEC-0200	BLOCK DIAGRAM
60723990-SHT-SEC-0300	QTA RISER DIAGRAMS
60723990-SHT-SEC-0400	I.T. ROOM LAYOUT & RACK ELEVATION
60723990-SHT-SEC-0500	TYPICAL CAMERA DETAILS
60723990-SHT-SEC-0501	QTA ACCESS CONTROL DETAILS
60723990-SHT-SEC-0600	QTA CABLE & CONDUIT SCHEDULE
60723990-SHT-SEC-0700	QTA BILL OF MATERIALS



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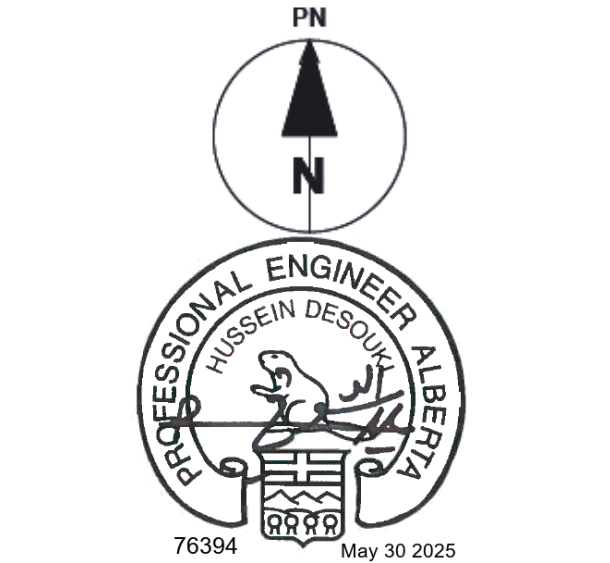
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NORTH ARROW AND KEYPLAN



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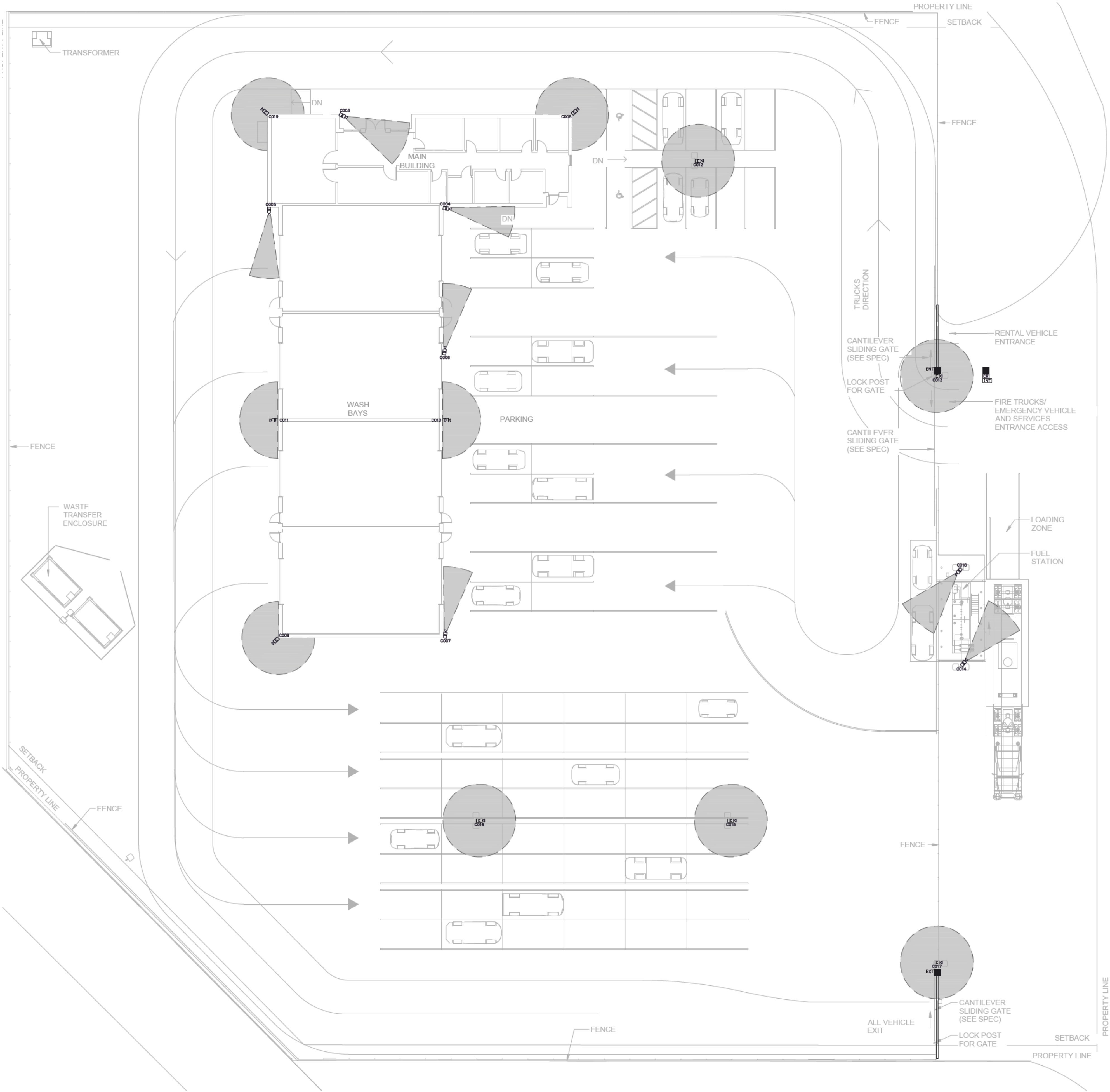
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REVIEWED: AT
VERIFIED: HD

SHEET TITLE
SECURITY & COMMS SYSTEMS
QTA
DRAWING LIST

SHEET NUMBER
0010
REVISION
E

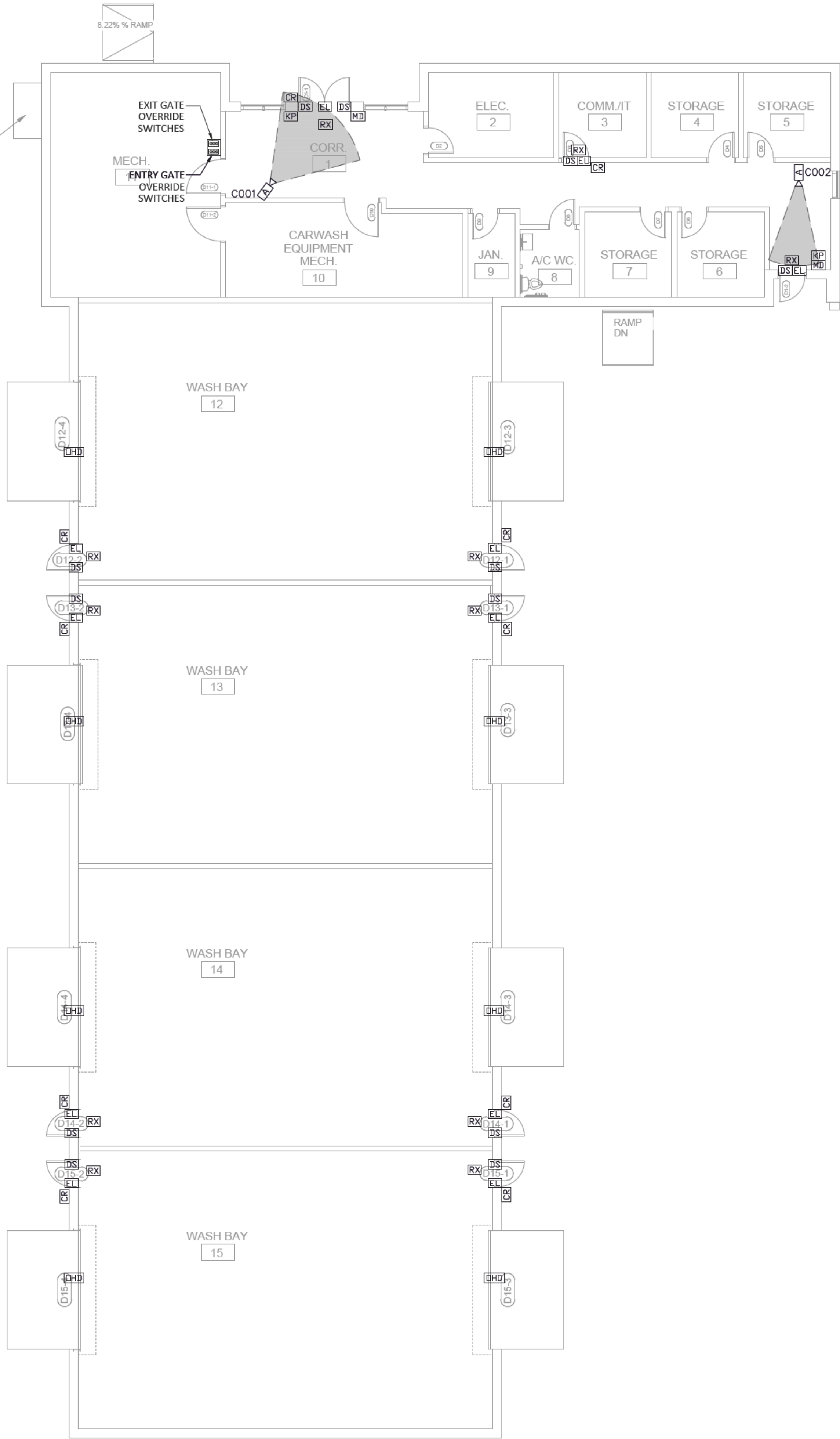


SYMBOL LEGEND	
	INDOOR FIXED CAMERA
	OUTDOOR FIXED CAMERA
	MULTI-DIRECTIONAL CAMERA
	DUAL SENSOR PANORAMIC CAMERA
	MULTI-DIRECTIONAL WITH PTZ CAMERA
	ENTRY GATE (EAST)
	EXIT GATE (NORTH)
	PEDESTAL
	CARD READER
	INTERCOM

- GENERAL NOTES:**
- CAMERA COVERAGE SHOWN ONLY REPRESENTS ANGLE AND DIRECTION OF THE FIELD OF VIEW RESPECTIVELY, NOT REPRESENTATIVE OF THE TOTAL AREA OF COVERAGE.



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	DUAL SENSOR PANORAMIC CAMERA
	CARD READER
	KEYPAD
	ELECTRIC STRIKE
	DOOR POSITION SENSOR
	REQUEST TO EXIT
	MOTION DETECTION SENSOR
	OVERHEAD DOOR CONTACT

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NORTH ARROW AND KEYPLAN

PN
N

PROFESSIONAL ENGINEER ALBERTA
RUSSEIN DESOUKI
76394 May 30 2025

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AECOM CANADA ULC**

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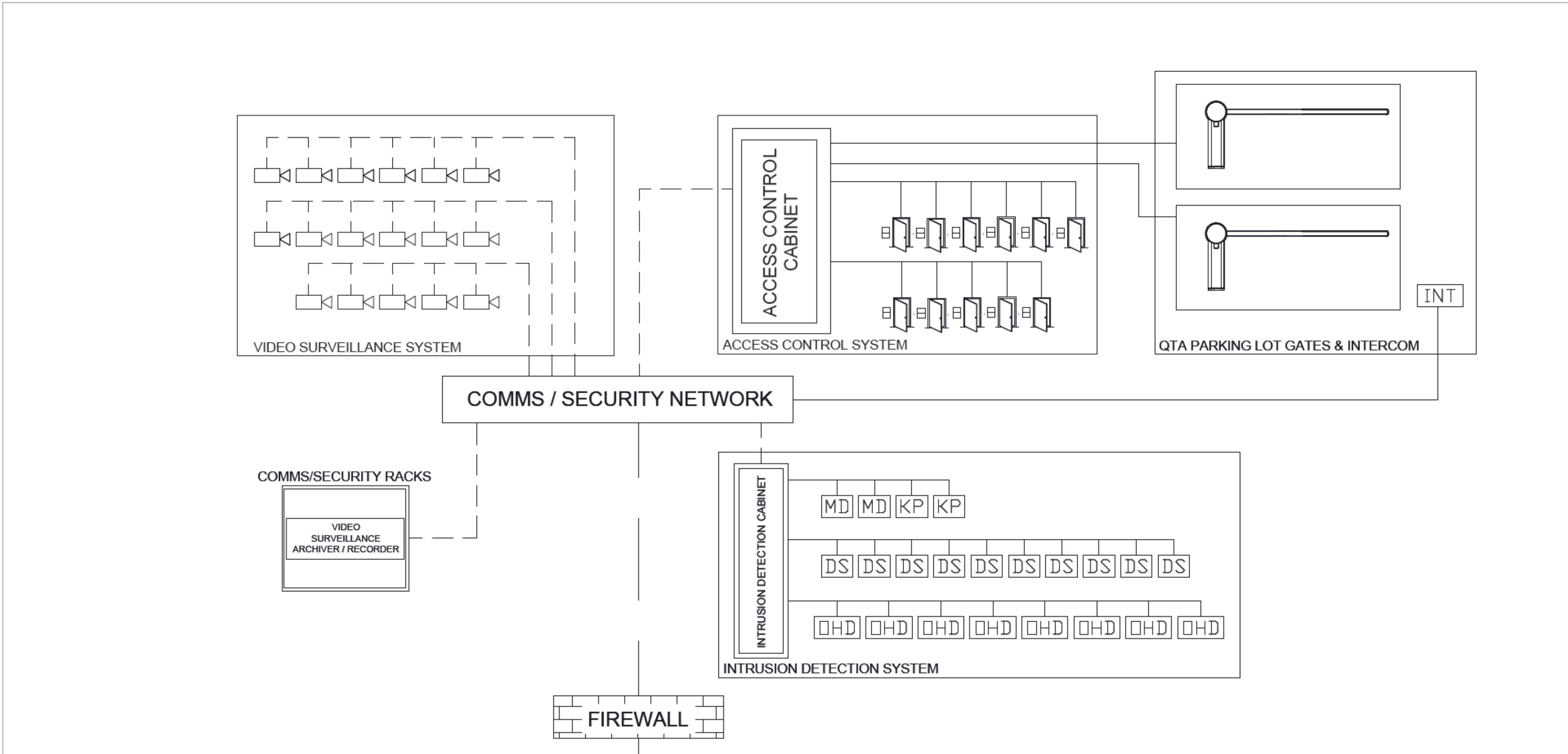
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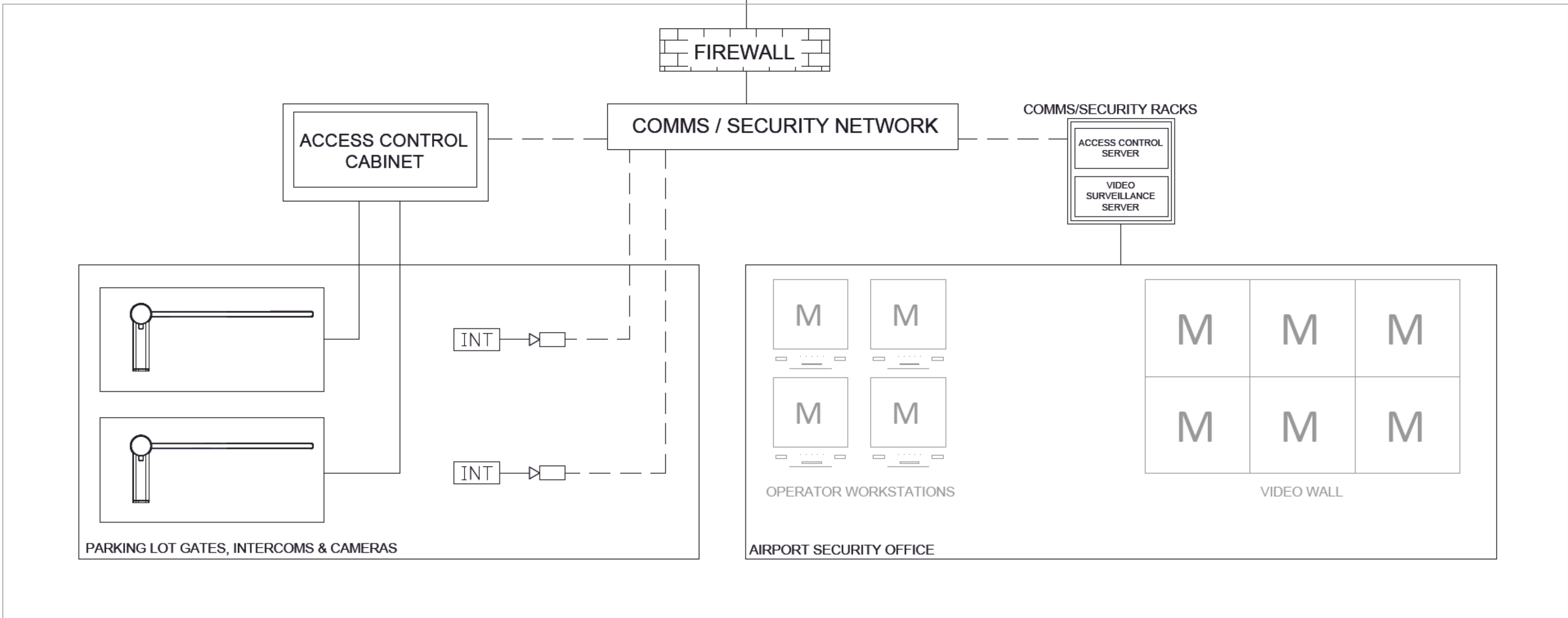
PRODUCTION INFORMATION
DRAWN: BB
REVIEWED: AT
VERIFIED: HD

SHEET TITLE
**SECURITY & COMMS SYSTEMS
QTA
FLOOR PLAN**

SHEET NUMBER
0101
REVISION
E



1 CAR WASH / QTA FACILITY
SEC-0200 NTS



2 AIRPORT FACILITY
SEC-0200 NTS

SYMBOL LEGEND	
	CAMERA
	KEYPAD
	DOOR POSITION SENSOR
	MOTION DETECTION SENSOR
	OVERHEAD DOOR CONTACT
	INTERCOM

AECOM

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NORTH ARROW AND KEYPLAN

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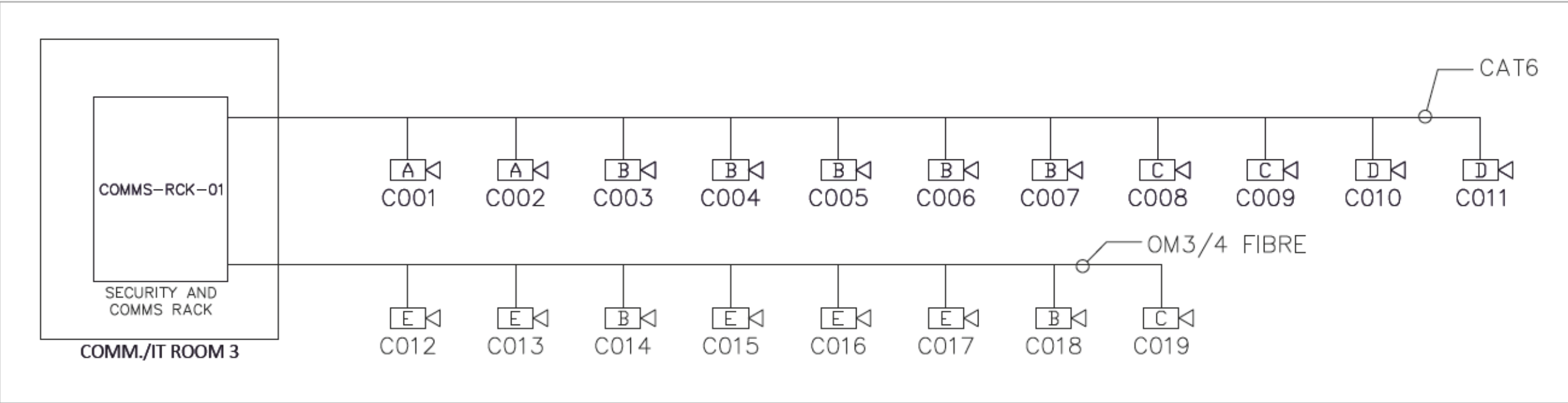
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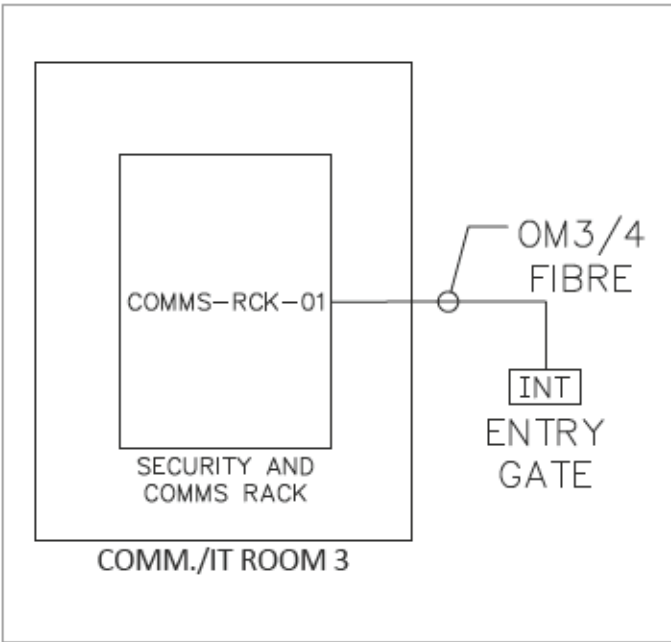
PRODUCTION INFORMATION
DRAWN: BB
REVIEWED: AT
VERIFIED: HD

SHEET TITLE
**SECURITY & COMMS SYSTEMS
QTA
BLOCK DIAGRAM**

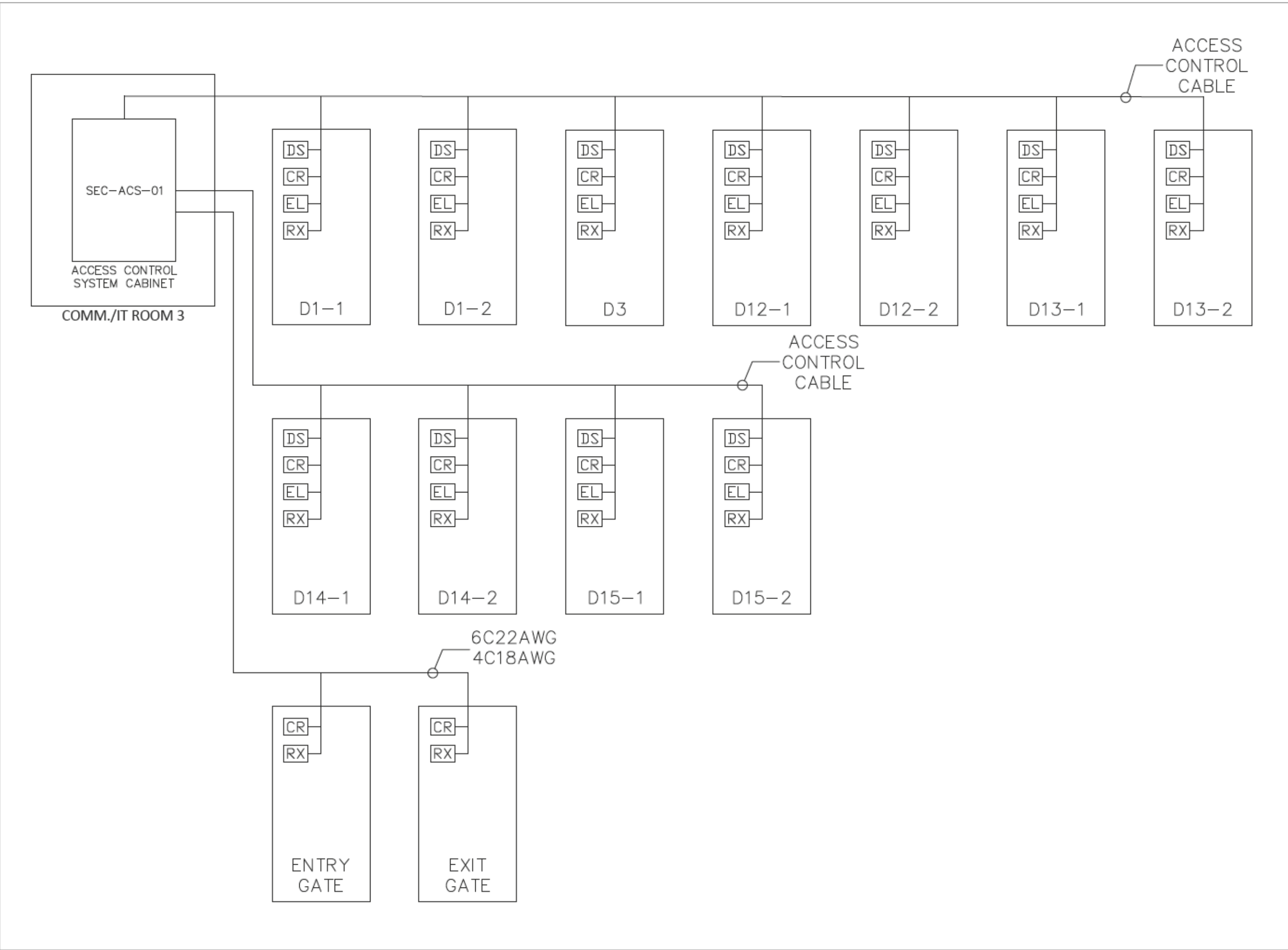
SHEET NUMBER
0200
REVISION
E



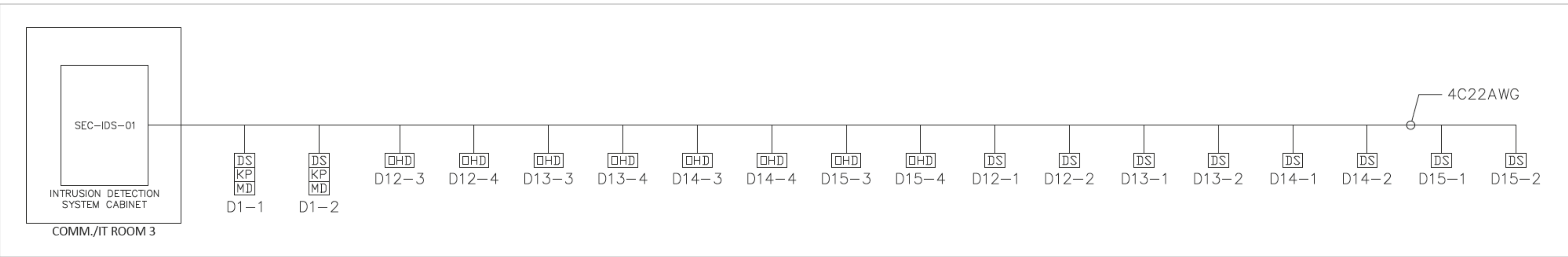
1 VIDEO SURVEILLANCE RISER
SEC-0300 NTS



2 INTERCOM RISER
SEC-0300 NTS



3 ACCESS CONTROL RISER
SEC-0300 NTS



4 INTRUSION DETECTION RISER
SEC-0300 NTS

SYMBOL LEGEND	
	INDOOR FIXED CAMERA
	OUTDOOR FIXED CAMERA
	MULTI-DIRECTIONAL CAMERA
	DUAL SENSOR PANORAMIC CAMERA
	MULTI-DIRECTIONAL WITH PTZ CAMERA
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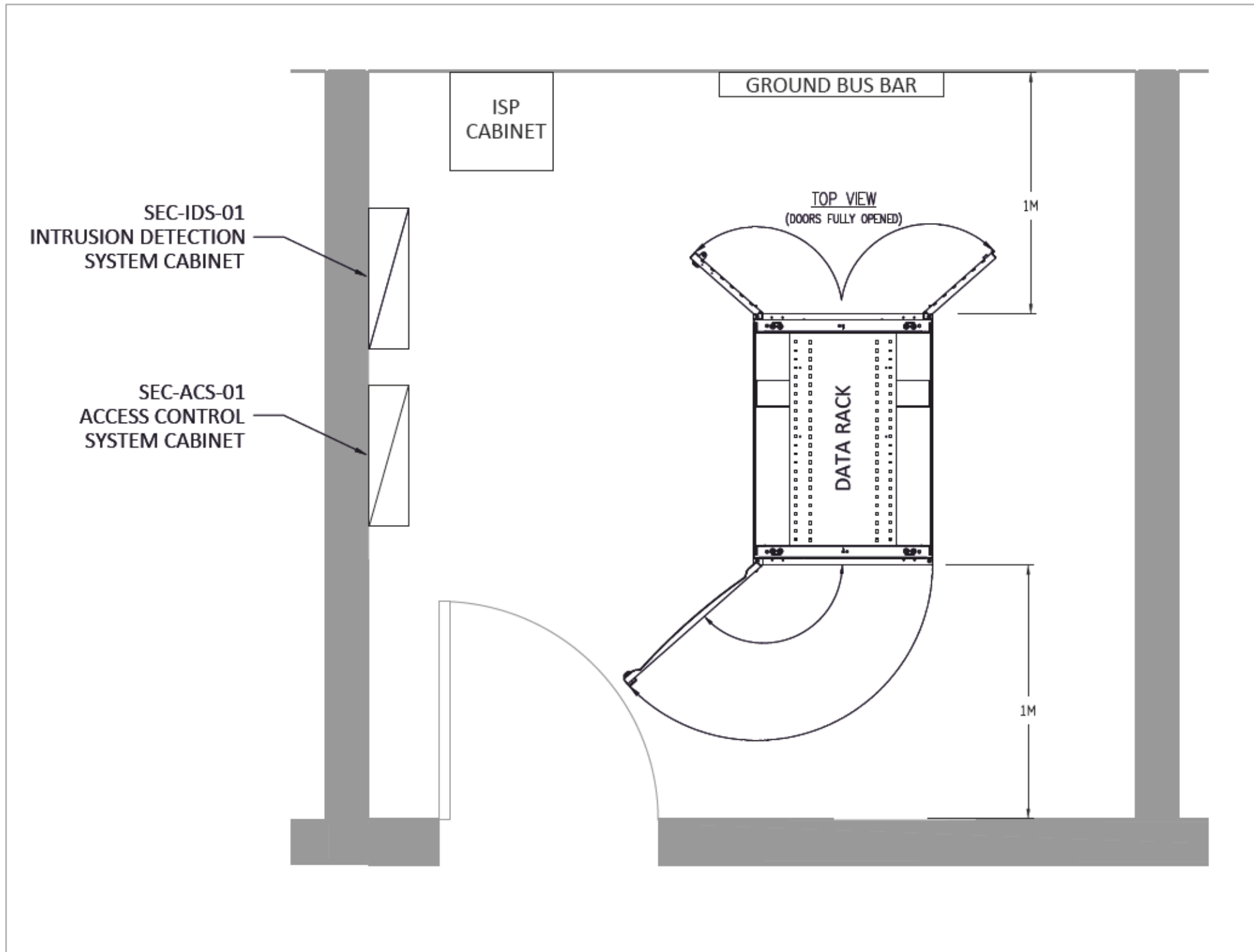
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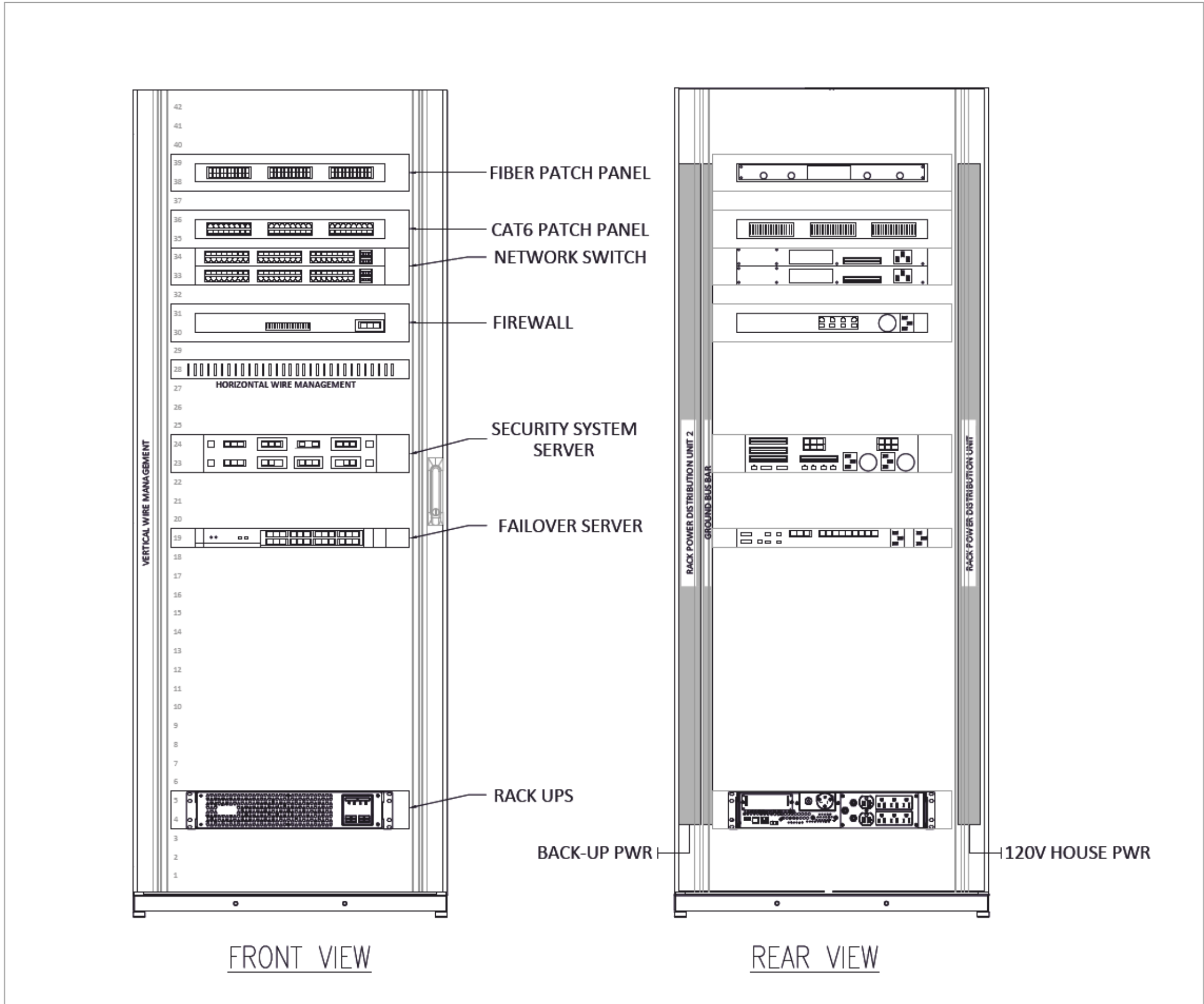
SHEET TITLE
**SECURITY & COMMS SYSTEMS
QTA
RISER DIAGRAMS**

SHEET NUMBER
0300

REVISION
E



1 | COMM./IT ROOM 16 LAYOUT
0400 | NTS



2 | DATA RACK ELEVATION
0400 | NTS

GENERAL NOTES:

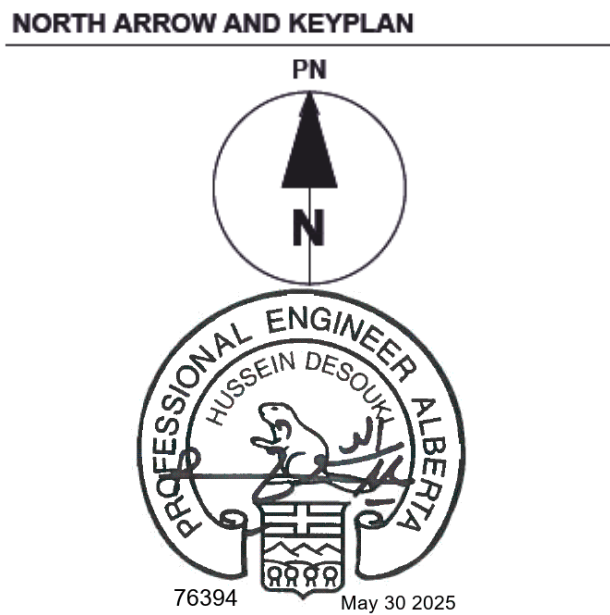
- DATA RACK TO BE POWERED FROM ELECTRICAL PANEL IN ELEC ROOM.

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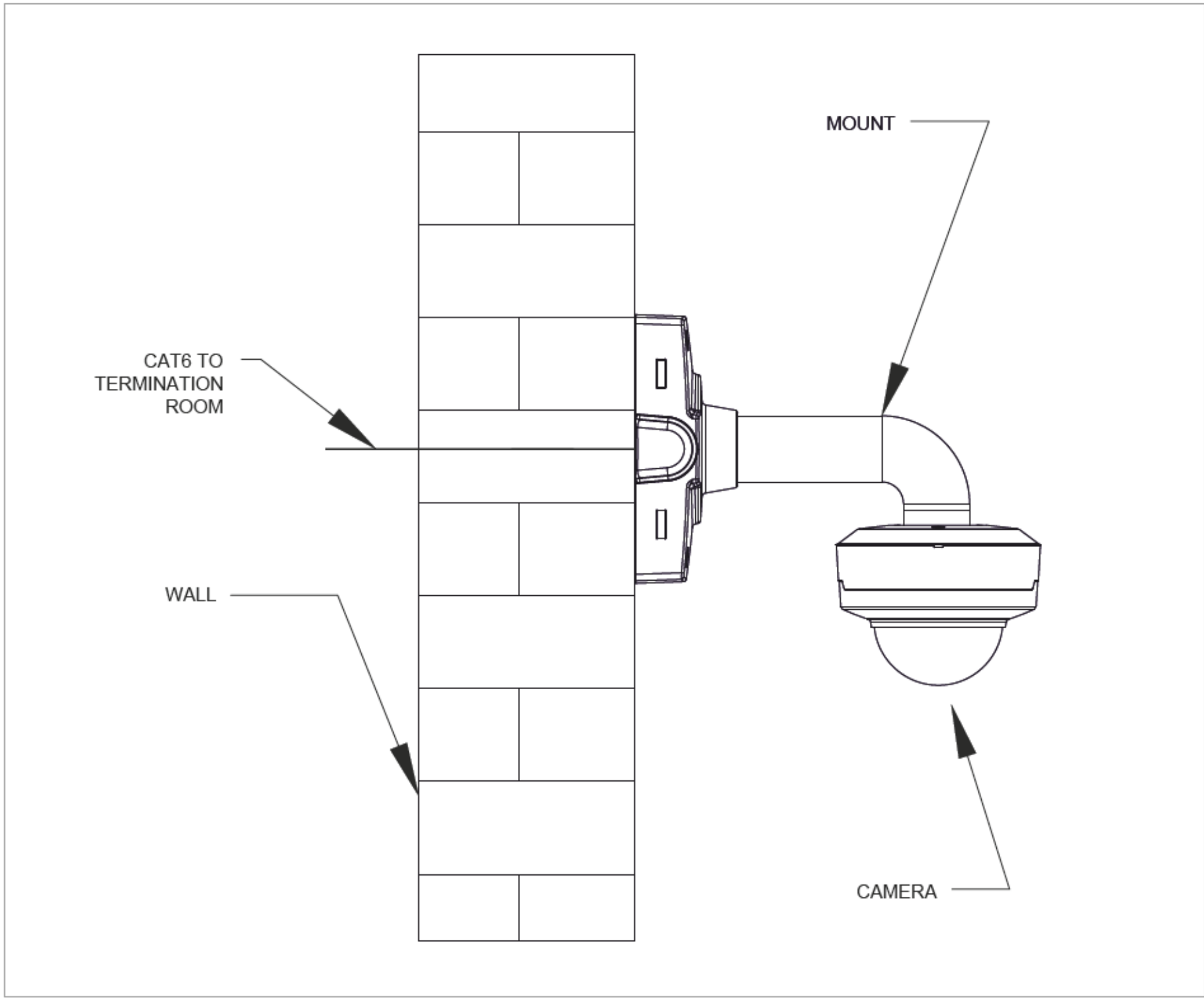
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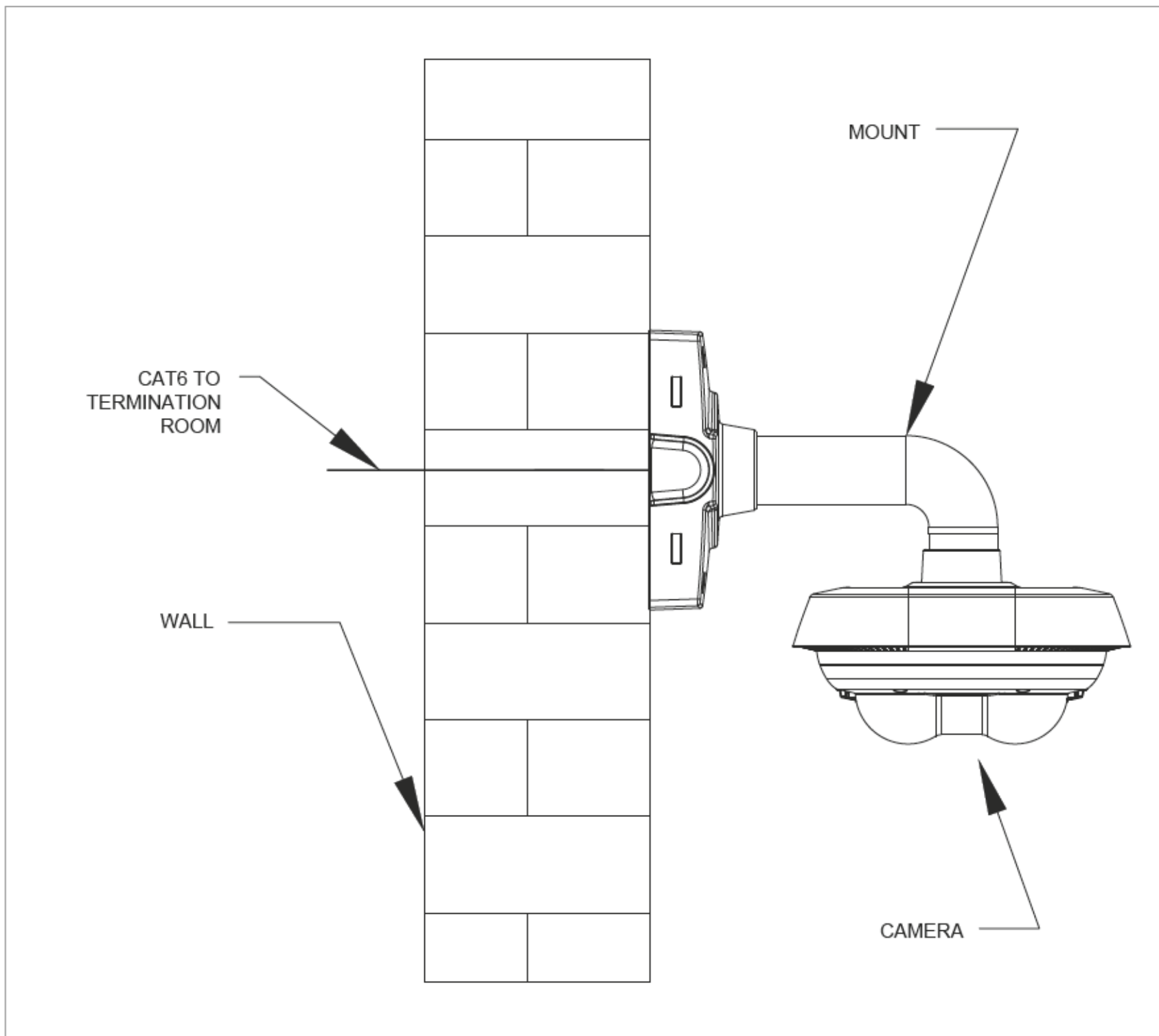
PRODUCTION INFORMATION
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VERIFIED: HD

SHEET TITLE
SECURITY & COMMS SYSTEMS
QTA
I.T. ROOM LAYOUT
& RACK ELEVATION

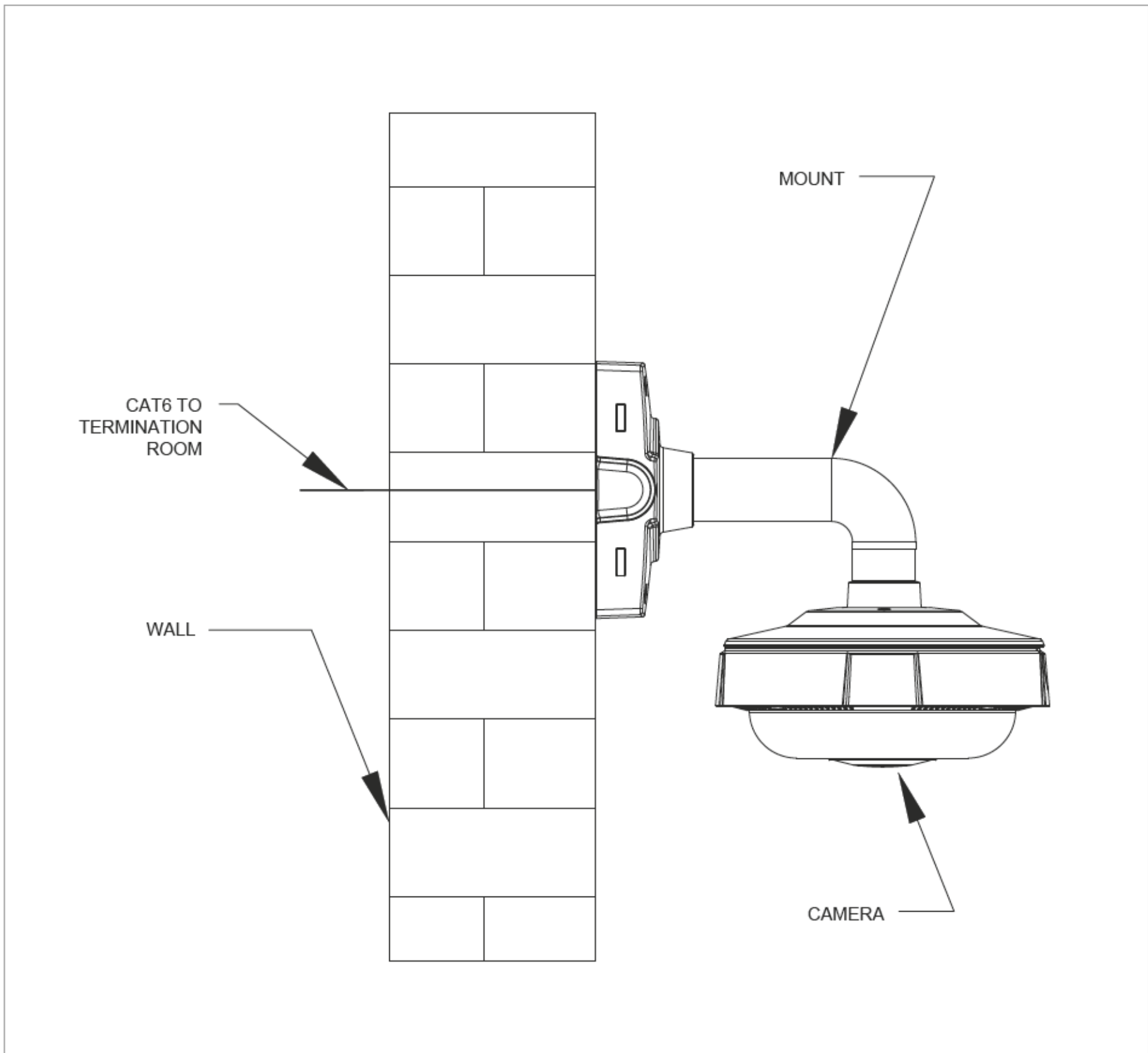
SHEET NUMBER
0400
REVISION
E



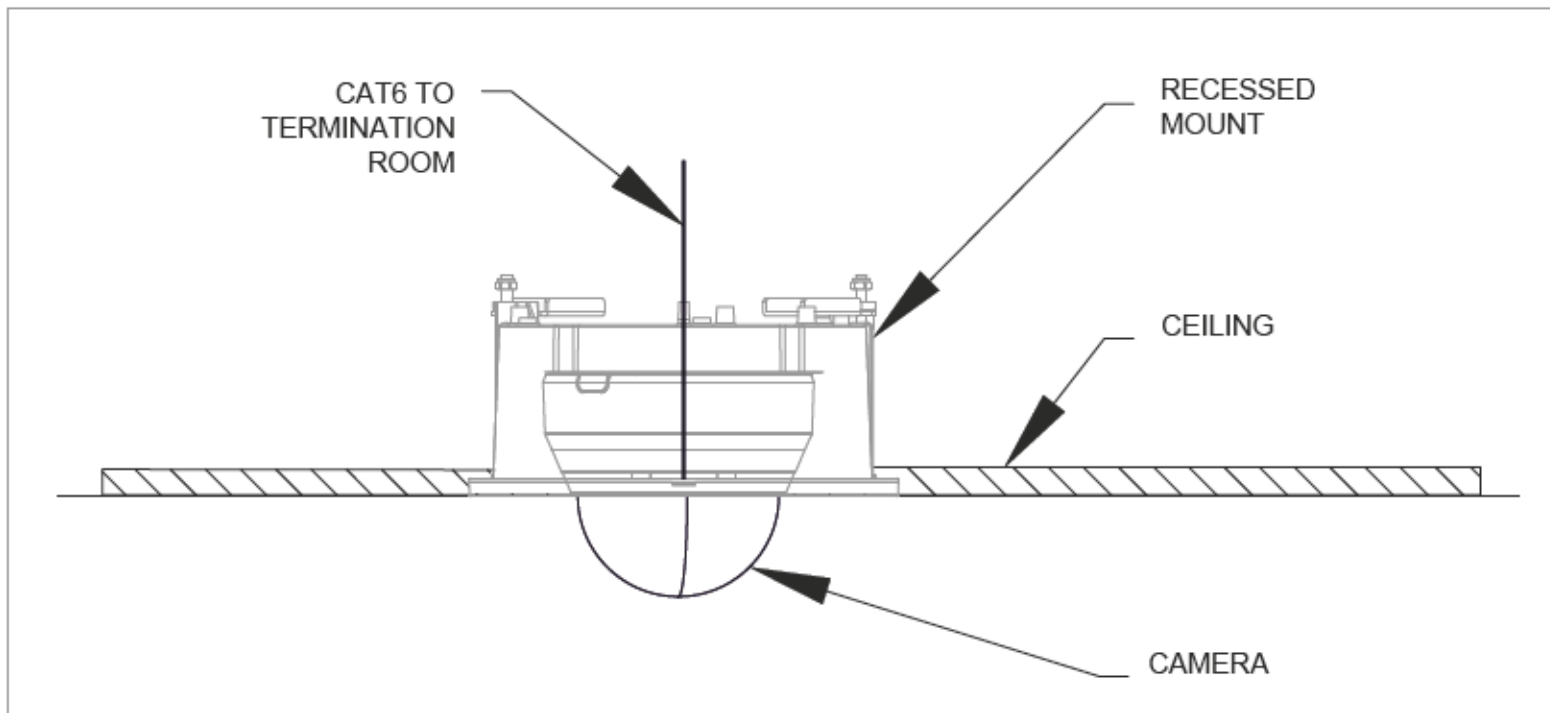
1 FIXED CAMERA
SEC-0500 NTS



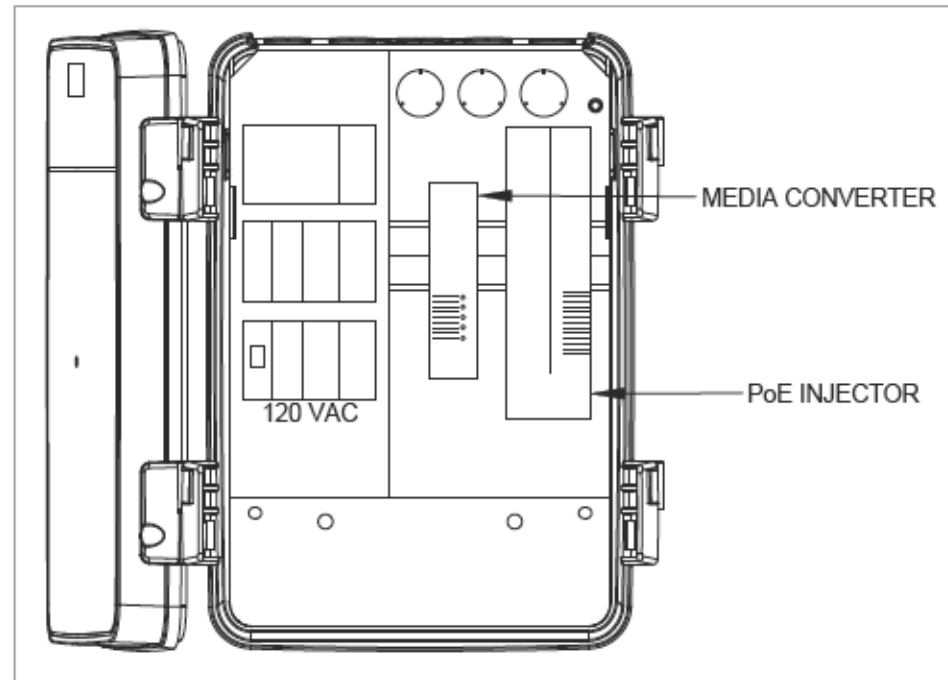
2 DUAL SENSOR CAMERA (180°)
SEC-0500 NTS



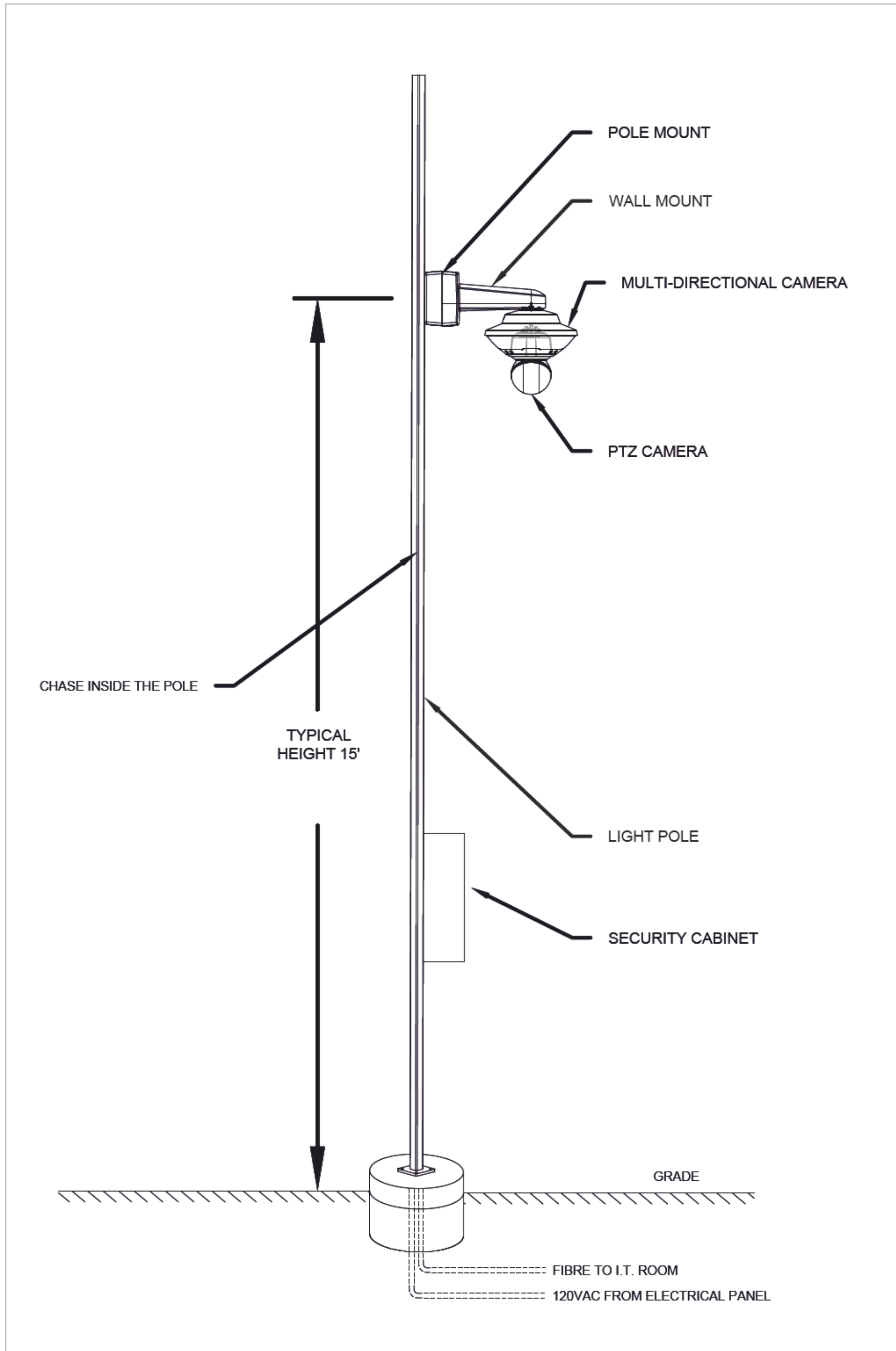
3 MULTI-DIRECTIONAL CAMERA
SEC-0500 NTS



4 RECESSED CAMERA
SEC-0500 NTS



5 SECURITY CABINET
SEC-0500 NTS



6 PARKING LOT POLE MOUNTED PTZ CAMERA
WITH 360 MULTI-DIRECTIONAL CAMERA
SEC-0500 NTS

GENERAL NOTES:

1. TYPICAL SECURITY DEVICE SHOWN FOR ILLUSTRATION PURPOSES ONLY.

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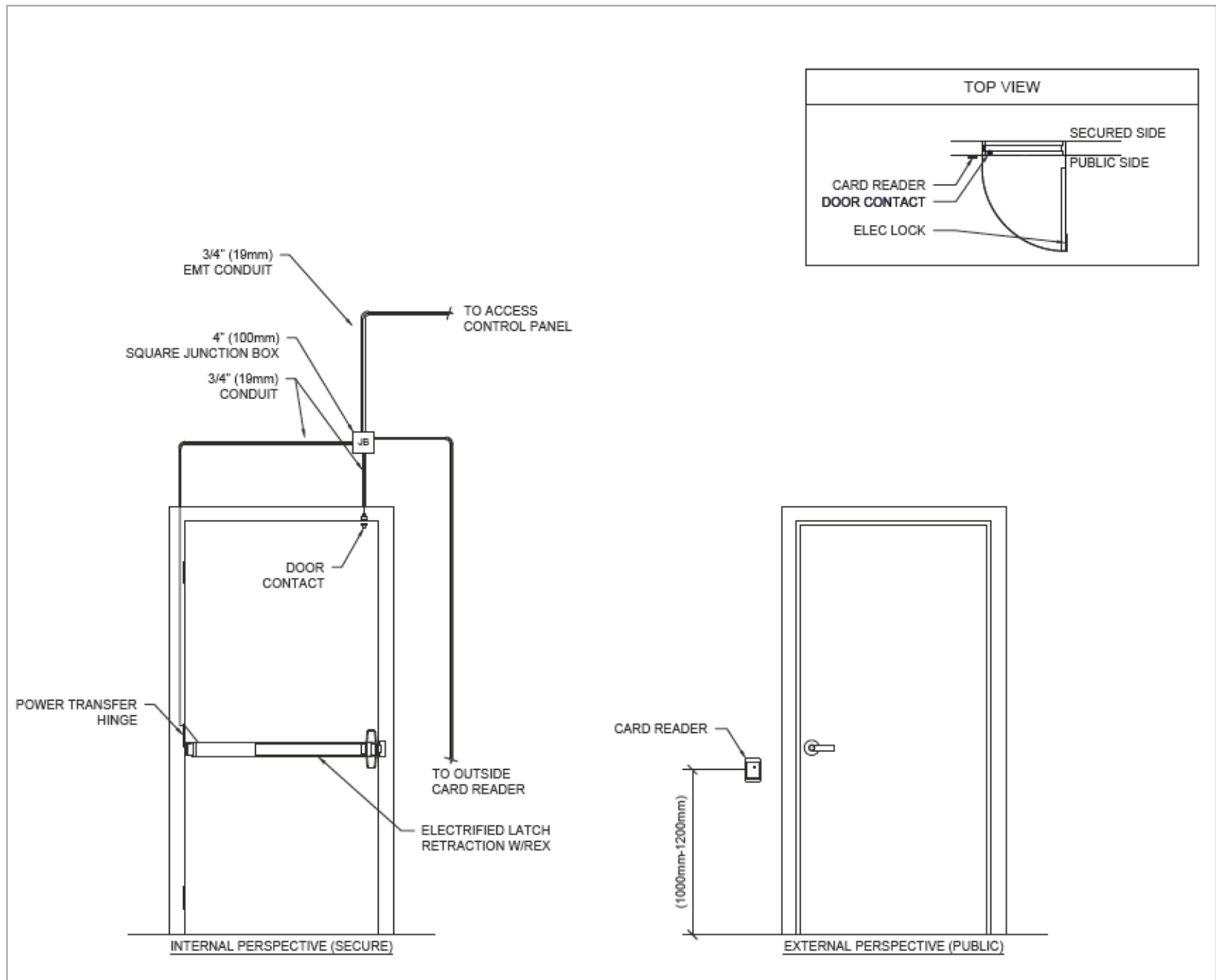
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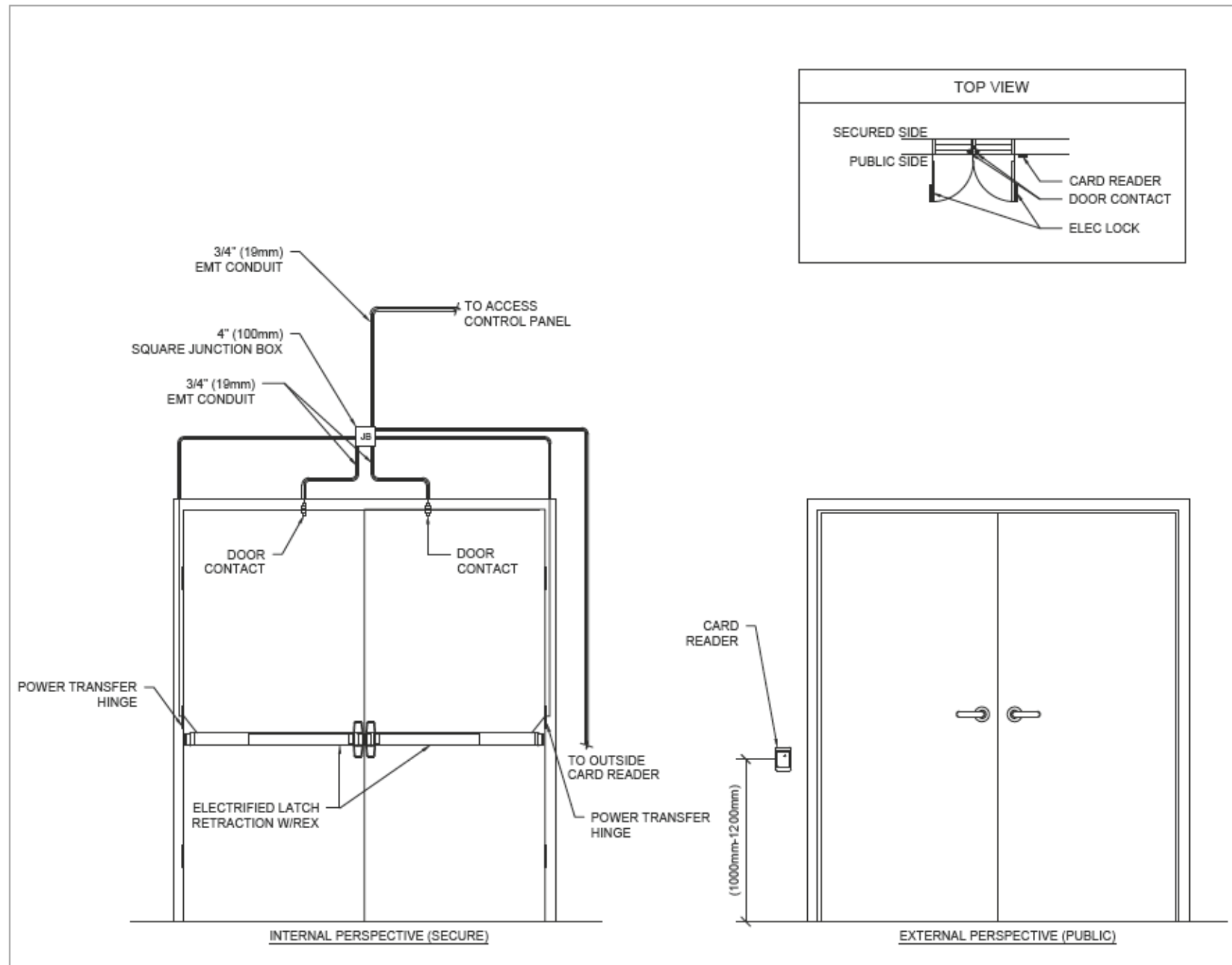
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SECURITY & COMMS SYSTEMS
QTA
TYPICAL CAMERA DETAILS

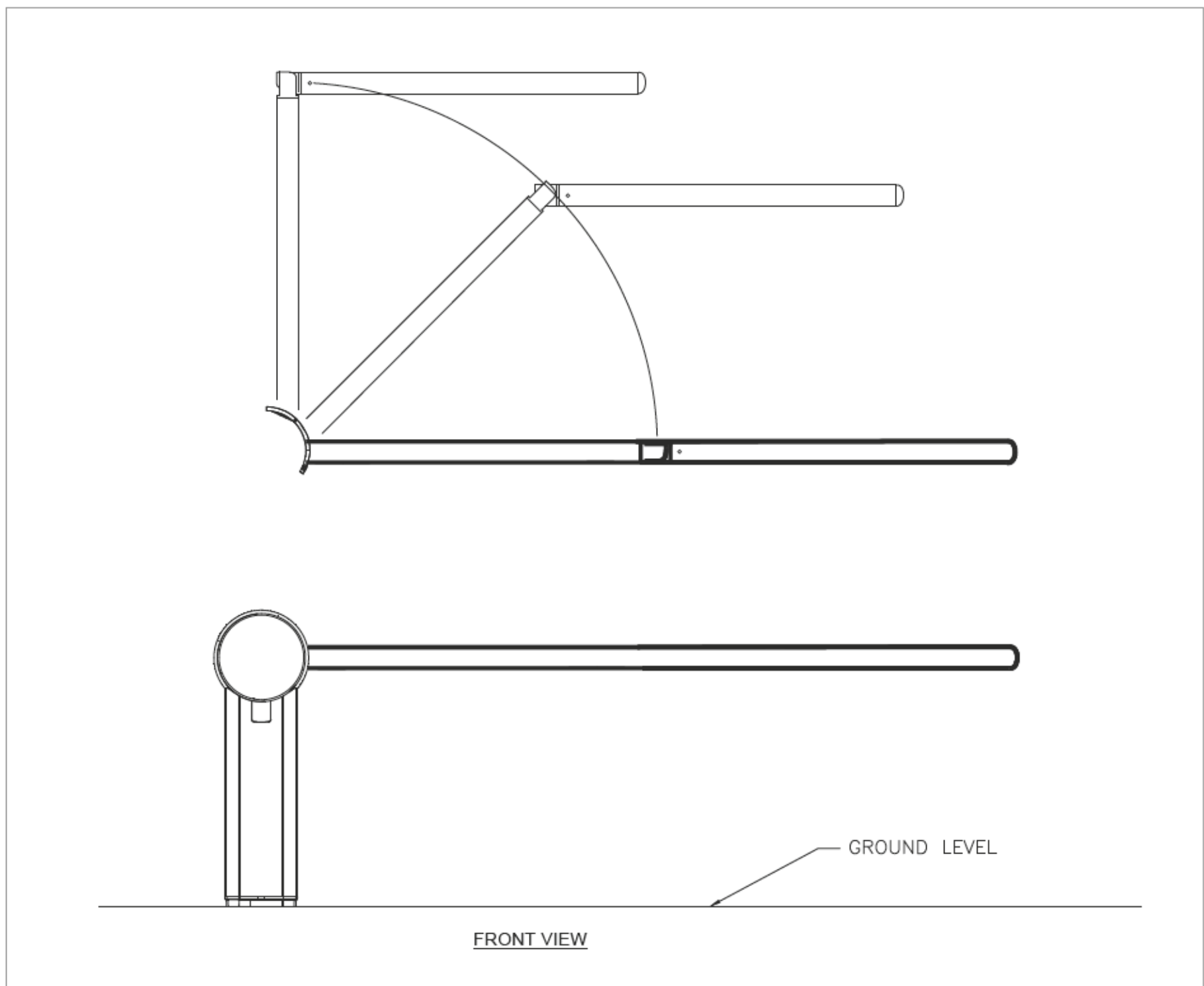
SHEET NUMBER
0500
REVISION
E



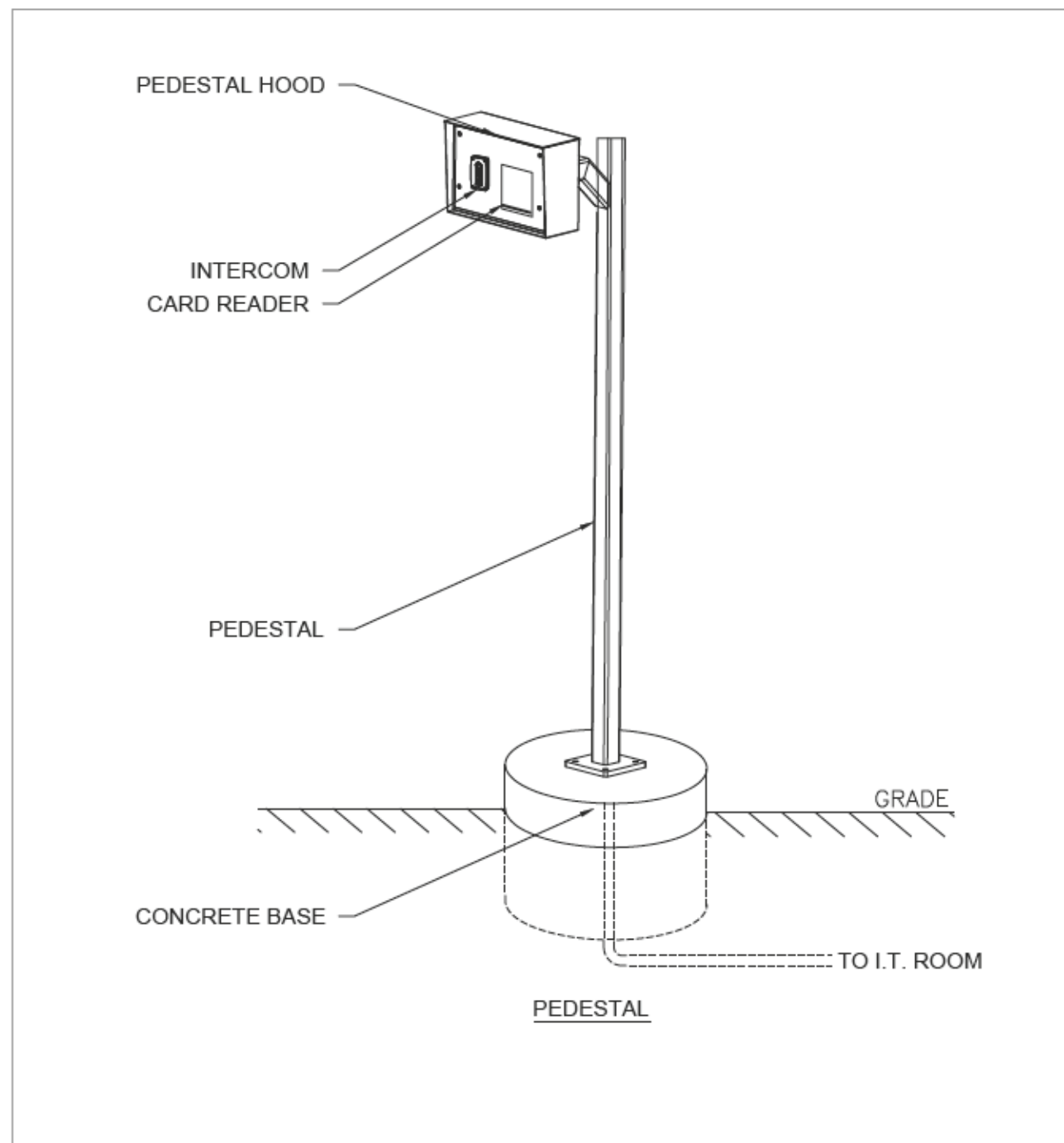
1 SINGLE DOOR DETAILS
SEC-0501 NTS



2 DOUBLE DOOR DETAILS
SEC-0501 NTS



3 VEHICLE GATE DETAILS
SEC-0501 NTS



4 PEDESTAL DETAILS
SEC-0501 NTS

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60723990

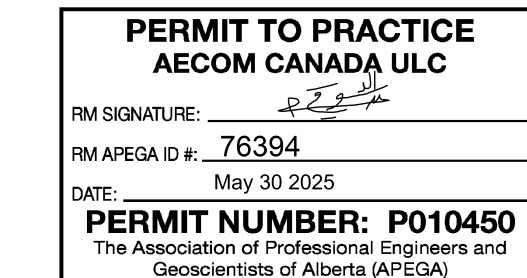
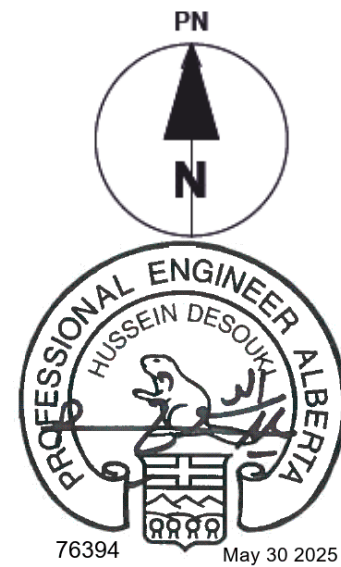
CLIENT



REGISTERED OWNER:

FORT McMURRAY AIRPORT AUTHORITY
Address
Suite 300 - 100 Snow Bird Way Fort McMurray, AB T9H 0G3

NORTH ARROW AND KEYPLAN



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REGISTRATION

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ISSUE/REVISION

ISSUE/REVISION	DATE	DESCRIPTION
F	2025-06-06	ISSUED FOR TENDER (FINAL)
E	2025-04-26	ISSUED FOR TENDER (DRAFT)
D	2025-03-31	RE-ISSUED FOR 100% SUBMISSION
C	2025-02-14	ISSUED FOR 100% SUBMISSION
B	2025-02-07	ISSUED FOR 100% REVIEW
A	2024-05-29	ISSUED FOR 60% REVIEW
I/R	DATE	DESCRIPTION

PRODUCTION INFORMATION

DRAWN: BB
REVIEWED: AT
VERIFIED: HD

SHEET TITLE

**SECURITY & COMMS SYSTEMS
QTA
ACCESS CONTROL DETAILS**

SHEET NUMBER

0501

REVISION

F

QTA CABLE & CONDUIT SCHEDULE						
DEVICE LOCATION	DEVICES TYPE	ID	CABLE TYPE	CONDUIT SIZE	TERMINATION ROOM	TERMINATION PANEL
ACCESS CONTROL						
CORR. 1	ACCESS CONTROL	D1-1	ACCESS CONTROL CABLE	1" EMT	COMM./IT 3	SEC-ACS-01
CORR. 1	ACCESS CONTROL	D1-2	ACCESS CONTROL CABLE	1" EMT	COMM./IT 3	SEC-ACS-01
COMM./IT 3	ACCESS CONTROL	D3	ACCESS CONTROL CABLE	1" EMT	COMM./IT 3	SEC-ACS-01
WASH BAY 12	ACCESS CONTROL	D12-1	ACCESS CONTROL CABLE	1" EMT NON COR.	COMM./IT 3	SEC-ACS-01
WASH BAY 12	ACCESS CONTROL	D12-2	ACCESS CONTROL CABLE	1" EMT NON COR.	COMM./IT 3	SEC-ACS-01
WASH BAY 13	ACCESS CONTROL	D13-1	ACCESS CONTROL CABLE	1" EMT NON COR.	COMM./IT 3	SEC-ACS-01
WASH BAY 13	ACCESS CONTROL	D13-2	ACCESS CONTROL CABLE	1" EMT NON COR.	COMM./IT 3	SEC-ACS-01
WASH BAY 14	ACCESS CONTROL	D14-1	ACCESS CONTROL CABLE	1" EMT NON COR.	COMM./IT 3	SEC-ACS-01
WASH BAY 14	ACCESS CONTROL	D14-2	ACCESS CONTROL CABLE	1" EMT NON COR.	COMM./IT 3	SEC-ACS-01
WASH BAY 15	ACCESS CONTROL	D15-1	ACCESS CONTROL CABLE	1" EMT NON COR.	COMM./IT 3	SEC-ACS-01
WASH BAY 15	ACCESS CONTROL	D15-2	ACCESS CONTROL CABLE	1" EMT NON COR.	COMM./IT 3	SEC-ACS-01
INTRUSION DETECTION						
CORR. 1	INTRUSION KEYPAD	D1-1	(3) x 4C22AWG	3/4" EMT	COMM./IT 3	SEC-IDS-01
	MOTION DETECTION SENSOR					
	DOOR POSITION SWITCH					
CORR. 1	INTRUSION KEYPAD	D1-2	(3) x 4C22AWG	3/4" EMT	COMM./IT 3	SEC-IDS-01
	MOTION DETECTION SENSOR					
	DOOR POSITION SWITCH					
WASH BAY 12	DOOR POSITION SWITCH	D12-1	4C22AWG	3/4" EMT NON COR.	COMM./IT 3	SEC-IDS-01
WASH BAY 12	DOOR POSITION SWITCH	D12-2	4C22AWG	3/4" EMT NON COR.	COMM./IT 3	SEC-IDS-01
WASH BAY 12	OVERHEAD DOOR CONTACT	D12-3	4C22AWG	3/4" EMT NON COR.	COMM./IT 3	SEC-IDS-01
WASH BAY 12	OVERHEAD DOOR CONTACT	D12-4	4C22AWG	3/4" EMT NON COR.	COMM./IT 3	SEC-IDS-01
WASH BAY 13	DOOR POSITION SWITCH	D13-1	4C22AWG	3/4" EMT NON COR.	COMM./IT 3	SEC-IDS-01
WASH BAY 13	DOOR POSITION SWITCH	D13-2	4C22AWG	3/4" EMT NON COR.	COMM./IT 3	SEC-IDS-01
WASH BAY 13	OVERHEAD DOOR CONTACT	D13-3	4C22AWG	3/4" EMT NON COR.	COMM./IT 3	SEC-IDS-01
WASH BAY 13	OVERHEAD DOOR CONTACT	D13-4	4C22AWG	3/4" EMT NON COR.	COMM./IT 3	SEC-IDS-01
WASH BAY 14	DOOR POSITION SWITCH	D14-1	4C22AWG	3/4" EMT NON COR.	COMM./IT 3	SEC-IDS-01
WASH BAY 14	DOOR POSITION SWITCH	D14-2	4C22AWG	3/4" EMT NON COR.	COMM./IT 3	SEC-IDS-01
WASH BAY 14	OVERHEAD DOOR CONTACT	D14-3	4C22AWG	3/4" EMT NON COR.	COMM./IT 3	SEC-IDS-01
WASH BAY 14	OVERHEAD DOOR CONTACT	D14-4	4C22AWG	3/4" EMT NON COR.	COMM./IT 3	SEC-IDS-01
WASH BAY 15	DOOR POSITION SWITCH	D15-1	4C22AWG	3/4" EMT NON COR.	COMM./IT 3	SEC-IDS-01
WASH BAY 15	DOOR POSITION SWITCH	D15-2	4C22AWG	3/4" EMT NON COR.	COMM./IT 3	SEC-IDS-01
WASH BAY 15	OVERHEAD DOOR CONTACT	D15-3	4C22AWG	3/4" EMT NON COR.	COMM./IT 3	SEC-IDS-01
WASH BAY 15	OVERHEAD DOOR CONTACT	D15-4	4C22AWG	3/4" EMT NON COR.	COMM./IT 3	SEC-IDS-01
CCTV						
CORR. 1	CCTV IP CAMERA	C001	CAT6	3/4" EMT	COMM./IT 3	COMMS-RCK-01
CORR. 1	CCTV IP CAMERA	C002	CAT6	3/4" EMT	COMM./IT 3	COMMS-RCK-01
MAIN BUILDING FRONT ENTRANCE	CCTV IP CAMERA	C003	CAT6	3/4" EMT	COMM./IT 3	COMMS-RCK-01
MAIN BUILDING BACK ENTRANCE	CCTV IP CAMERA	C004	CAT6	3/4" EMT	COMM./IT 3	COMMS-RCK-01
WASH BAYS WEST	CCTV IP CAMERA	C005	CAT6	3/4" EMT NON COR.	COMM./IT 3	COMMS-RCK-01
WASH BAYS EAST	CCTV IP CAMERA	C006	CAT6	3/4" EMT NON COR.	COMM./IT 3	COMMS-RCK-01
WASH BAYS EAST	CCTV IP CAMERA	C007	CAT6	3/4" EMT NON COR.	COMM./IT 3	COMMS-RCK-01
MAIN BUILDING EAST	CCTV IP CAMERA	C008	CAT6	3/4" EMT NON COR.	COMM./IT 3	COMMS-RCK-01
WASH BAYS SOUTH	CCTV IP CAMERA	C009	CAT6	3/4" EMT NON COR.	COMM./IT 3	COMMS-RCK-01
WASH BAYS EAST	CCTV IP CAMERA	C010	CAT6	3/4" EMT NON COR.	COMM./IT 3	COMMS-RCK-01
WASH BAYS WEST	CCTV IP CAMERA	C011	CAT6	3/4" EMT NON COR.	COMM./IT 3	COMMS-RCK-01
PARKING	CCTV IP CAMERA	C012	CAT6	2" RIGID PVC	COMM./IT 3	COMMS-RCK-01
ENTRY GATE	CCTV IP CAMERA	C013	OM3/4 FIBRE	4" RIGID PVC	COMM./IT 3	COMMS-RCK-01
			3C14AWG	4" RIGID PVC	ELEC. 2	ELEC. PANEL (120 VAC)
FUELING AREA	CCTV IP CAMERA	C014	OM3/4 FIBRE	4" RIGID PVC	COMM./IT 3	COMMS-RCK-01
			3C14AWG	4" RIGID PVC	ELEC. 2	ELEC. PANEL (120 VAC)
PARKING	CCTV IP CAMERA	C015	OM3/4 FIBRE	4" RIGID PVC	COMM./IT 3	COMMS-RCK-01
			3C14AWG	4" RIGID PVC	ELEC. 2	ELEC. PANEL (120 VAC)
PARKING	CCTV IP CAMERA	C016	OM3/4 FIBRE	4" RIGID PVC	COMM./IT 3	COMMS-RCK-01
			3C14AWG	4" RIGID PVC	ELEC. 2	ELEC. PANEL (120 VAC)
EXIT GATE	CCTV IP CAMERA	C017	OM3/4 FIBRE	4" RIGID PVC	COMM./IT 3	COMMS-RCK-01
			3C14AWG	4" RIGID PVC	ELEC. 2	ELEC. PANEL (120 VAC)
VEHICLE GATES						
QTA ENTRY VEHICLE GATE	GATE POWER	QTA GATE 1 PWR	(2) x 3C14AWG	4" RIGID PVC	ELEC. 2	ELEC. PANEL (240 VAC)
	CARD READER	QTA GATE 1 CR	6C22AWG	4" RIGID PVC	COMM./IT 3	SEC-ACS-01
	GATE RELEASE	QTA GATE 1 RLE	4C18AWG		COMM./IT 3	SEC-ACS-01
	OVERRIDE KEYSWITCH	QTA GATE 1 KSW	4C18AWG		COMM./IT 3	COMM./IT 3
	INTERCOM	QTA GATE 1 INT	OM3/4 FIBRE	4" RIGID PVC	COMM./IT 3	COMMS-RCK-01
QTA EXIT VEHICLE GATE	GATE POWER	QTA GATE 2 PWR	(2) x 3C14AWG	4" RIGID PVC	ELEC. 2	ELEC. PANEL (240 VAC)
	OVERRIDE KEYSWITCH	QTA GATE 2 KSW	4C18AWG	4" RIGID PVC	COMM./IT 3	COMM./IT 3



CONSULTANT
PRIME:
AECOM Canada Architects Ltd.
Suite 330, 3292 Production Way
Burnaby, BC, Canada, V5A 4R4

PROJECT
FORT McMURRAY
AIRPORT RENTAL CAR
WASH / QTA FACILITY
SITE ADDRESS:
FORT McMURRAY, ALBERTA

PROJECT NUMBER
60723990

CLIENT



REGISTERED OWNER:
FORT McMURRAY AIRPORT AUTHORITY
Address
Suite 300 - 100 Snow Bird Way Fort McMurray, AB T9H 0G3

NORTH ARROW AND KEYPLAN

PN

N

PERMIT TO PRACTICE
AECOM CANADA ULC

PM SIGNATURE:

PM APEGA ID #: 76394

DATE: May 30 2025

PERMIT NUMBER: P010450
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

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B	2025-02-07	ISSUED FOR 100% REVIEW
A	2024-05-29	ISSUED FOR 60% REVIEW
I/R	DATE	DESCRIPTION

PRODUCTION INFORMATION
DRAWN: BB
REVIEWED: AT
VERIFIED: HD

SHEET TITLE
SECURITY & COMMS SYSTEMS
QTA
CABLE & CONDUIT SCHEDULE

QTA CCTV BILL OF MATERIALS			
DEVICE	DEVICE DESCRIPTION	QUANTITY	MOUNTING TYPE
CCTV CAMERA TYPE A	INDOOR FIXED	2	CEILING MOUNT
CCTV CAMERA TYPE B	OUTDOOR FIXED CAMERA	5	PENDANT WALL MOUNT
CCTV CAMERA TYPE C	MULTI-DIRECTIONAL CAMERA	2	CORNER PENDANT MOUNT
CCTV CAMERA TYPE D	DUAL SENSOR PANORAMIC CAMERA	2	PENDANT WALL MOUNT
CCTV CAMERA TYPE E	MULTI-DIRECTIONAL WITH PTZ CAMERA	6	POLE MOUNT

QTA ACCESS CONTROL & INTRUSION BILL OF MATERIALS		
DEVICE	DESCRIPTION	QUANTITY
CARD READER	DEVICE FOR SECURE ENTRY TO RESTRICTED AREA	10
INTERCOM	COMMUNICATION DEVICE WITH TWO-WAY AUDIO	3
ELECTRIC STRIKE	ELECTRICALLY CONTROLLED LOCKING MECHANISM	11
DOOR POSITION SENSOR	DETECTS AND MONITORS STATUS OF A DOOR	12
REQUEST TO EXIT	ALLOWS TO EXIT A SECURED AREA	11
MOTION DETECTION SENSOR	DETECTS MOVEMENT	2
KEYPAD	INTRUSION DETECTION ARMING/DISARMING EQUIPMENT	2
OVERHEAD DOOR CONTACT	MONITOR POSITION OF OVERHEAD DOOR	8
VEHICLE ARM GATE	CONTROL AND RESTRICT VEHICLE ACCESS	2
PEDESTAL	FOR MOUNTING INTERCOM AND CARD READER	1

QTA COMMS ROOM BILL OF MATERIALS		
EQUIPMENT	DESCRIPTION	QUANTITY
SEC-IDS-01	INTRUSION DETECTION CABINET	1
SEC-ACS-01	ACCESS CONTROL CABINET	1
NETWORK RACK	42U 4-POST DATA RACK	1
CAT6 PATCH PANEL	48-PORT CAT6 PATCH PANEL	1
FIBER PATCH PANEL	1U RACK MOUNT PATCH PANEL	1
UPS	2U RACK MOUNT UPS 2200VA - NETWORK CONNECTION - REMOTE MONITORING	1
POWER DISTRIBUTION	RACK MOUNT VERTICAL POWER DISTRIBUTION	2
NETWORK SWITCH	MANAGED SWITCH, 48-PORT POE+, LAYER 3, 10G UPLINK, REDUNDANT POWER SUPPLY, 500-800 POE WATTS	1
CCTV SYSTEM SERVER	2U SERVER AS PER PROJECT SPECIFICATIONS	1
FAILOVER SERVER	1U SERVER AS PER PROJECT SPECIFICATIONS	1
GATE SWITCH	GATE OVERRIDE SWITCH	2



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FORT McMURRAY
AIRPORT RENTAL CAR
WASH / QTA FACILITY
SITE ADDRESS,
FORT McMURRAY, ALBERTA
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NORTH ARROW AND KEYPLAN

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PROFESSIONAL ENGINEER ALBERTA

76394 May 30 2025

PERMIT TO PRACTICE
AECOM CANADA ULC

PM SIGNATURE:

PM APEGA ID #: 76394
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VERIFIED: HD

SHEET TITLE
SECURITY & COMMS SYSTEMS
QTA
BILL OF MATERIALS

SHEET NUMBER
0700
REVISION
E