SAMPLE DRAWING SET FOR A FICTIONAL PROPERTY. SYSTEM DYNAMICS DESIGN DOCUMENTS ARE PREPARED PER PROJECT FROM THE ARCHITECTURAL SET AND A SITE SURVEY. NOT FOR CONSTRUCTION.

CAUTION: IF THIS SHEET IS NOT 36" x 24" IT IS A REDUCED PRINT

Example property

Low-voltage systems · design-build drawing set · sample

Access control, video surveillance, intrusion, structured cabling and network, audio video, lighting control

SHEET INDEX

LV-0.0	Cover, sheet index, general notes
LV-1.0	Level 1 device location plan
LV-1.1 to 1.4	Levels 2 to 4 and roof device plans (not in sample)
LV-2.0	Riser diagram, all systems
LV-3.0	Garage P1 device plan (not in sample)
LV-4.0	MDF rack elevation and patch schedule
LV-5.0	Level 1 security plan, camera coverage
LV-5.1	Door and camera schedule
LV-6.0	Lighting control and keypad plan (not in sample)

SYMBOL KEY

AC — Access control
Typical wiring: 22/6 + 18/4 + Cat6
Readers, contacts, strikes, intercom, gates, elevator

CC — Video surveillance
Typical wiring: Cat6A
Dome, bullet and plate-capture cameras, 31-day retention

IN — Intrusion
Typical wiring: 22/4
Keypads, motion, glass break, environmental sensors

NW — Data and WiFi
Typical wiring: Cat6A
Access points, data drops, switches, fiber backbone

AV — Audio video
Typical wiring: Cat6A / 16/2
Displays, speakers, touch panels, subwoofers

LT — Lighting control
Typical wiring: Cat5e
Keypads, occupancy sensors, motorized shades

GENERAL NOTES

1. All low-voltage cabling shall be plenum rated where installed in return-air plenums.
2. Cameras: 4K IP dome unless noted. Mount at 9'-0" AFF in corridors, ceiling-mounted in amenities.
3. Readers mounted at 42" AFF to centerline, strike-side of door, coordinate with door hardware.
4. Every cable labeled at both ends with the device tag shown on these drawings. Labels machine printed.
5. Data drops terminate on Cat6A patch panels in the MDF. One panel per riser closet. Ports numbered per LV-4.0.
6. Keypads flush in single-gang boxes, 46" AFF. Occupancy sensors ceiling-mounted, centered in room.
7. Coordinate rough-in with electrical for 120V at each head-end, display and gate location.
8. Fire alarm by others. Elevator recall and door release interface per elevator contractor.
9. All systems commissioned and tested before turnover. Test results delivered with the as-built set.
10. Property management credentials and training delivered at turnover. Care plan begins at substantial completion.

ABBREVIATIONS

AFF above finished floor
AP wireless access point
DC door contact
ES electric strike
IDF intermediate distribution frame
LPR license plate recognition
MDF main distribution frame
PoE power over ethernet
REX request to exit
UPS uninterruptible power supply

PROJECT TEAM

Low-voltage design-build: System Dynamics, Denver
Architect of record: by owner
Electrical engineer: by owner
General contractor: by owner
Door hardware: by GC, coordinated with LV
Elevator: by GC, coordinated with LV

Levels 2 to 4 repeat the Level 1 unit layout with corridor cameras, access points and stair doors. Garage P1 carries the vehicle gate, plate capture and six cameras.
This sample set shows the format of a System Dynamics drawing package. Project sets are drawn on the architect's backgrounds in the project title block.

LEGEND — WIRING

ACCESS CONTROL
- R — Card and mobile reader — Cat6 + 22/6
- DC — Door contact — 22/4
- ES — Electric strike or maglock — 18/4
- RE — Request to exit — 22/4
- VI — Video intercom — Cat6A
- GT — Gate or elevator controller — Cat6 + 18/4

VIDEO SURVEILLANCE
- C — Dome camera, 4K — Cat6A
- CB — Bullet camera, exterior — Cat6A
- LPR — Plate capture camera — Cat6A

INTRUSION
- KP — Alarm keypad — 22/4
- M — Motion detector — 22/4
- GB — Glass break — 22/4
- WS — Water or temp sensor — 22/4

DATA AND WIFI
- AP — Wireless access point — Cat6A
- D — Data drop (qty noted) — Cat6A
- SW — Network switch — Fiber uplink

AUDIO VIDEO
- S — In-ceiling speaker — 16/2
- TV — Display — Cat6A + HDMI
- TP — Touch panel — Cat6A
- SUB — Subwoofer — 14/2

LIGHTING CONTROL
- K — Lighting keypad — Cat5e
- OS — Occupancy sensor — Cat5e
- SH — Motorized shade — Cat5e + 16/2

Symbols typical. Mounting heights per LV-0.0.

SYSTEM DYNAMICS

LOW-VOLTAGE DESIGN-BUILD
Access · Video · Alarm · Network · AV · Lighting
Denver, Colorado
303.962.2022 · sysdy.com

OWNER / GENERAL CONTRACTOR

client logo

ARCHITECT OF RECORD: by owner

EXAMPLE PROPERTY
SAMPLE DRAWING SET · FOUR LEVELS OVER GARAGE
DENVER, COLORADO 80202

PROJECT DOCUMENTATION
LOW-VOLTAGE SYSTEMS · ISSUED 09.18.2026

PROJECT

ISSUE / REVISION	DATE
01 ISSUED FOR BID	06.03.2026
02 PERMIT SET	07.21.2026
03 ROUGH-IN COORDINATION	08.18.2026

ISSUES AND REVISIONS

PM	M. JOHNSON
DRAWN BY	MJ
CHECKED	MSJ
JOB NO.	SD-2026-EX

COVER SHEET
AND GENERAL NOTES

SHEET TITLE

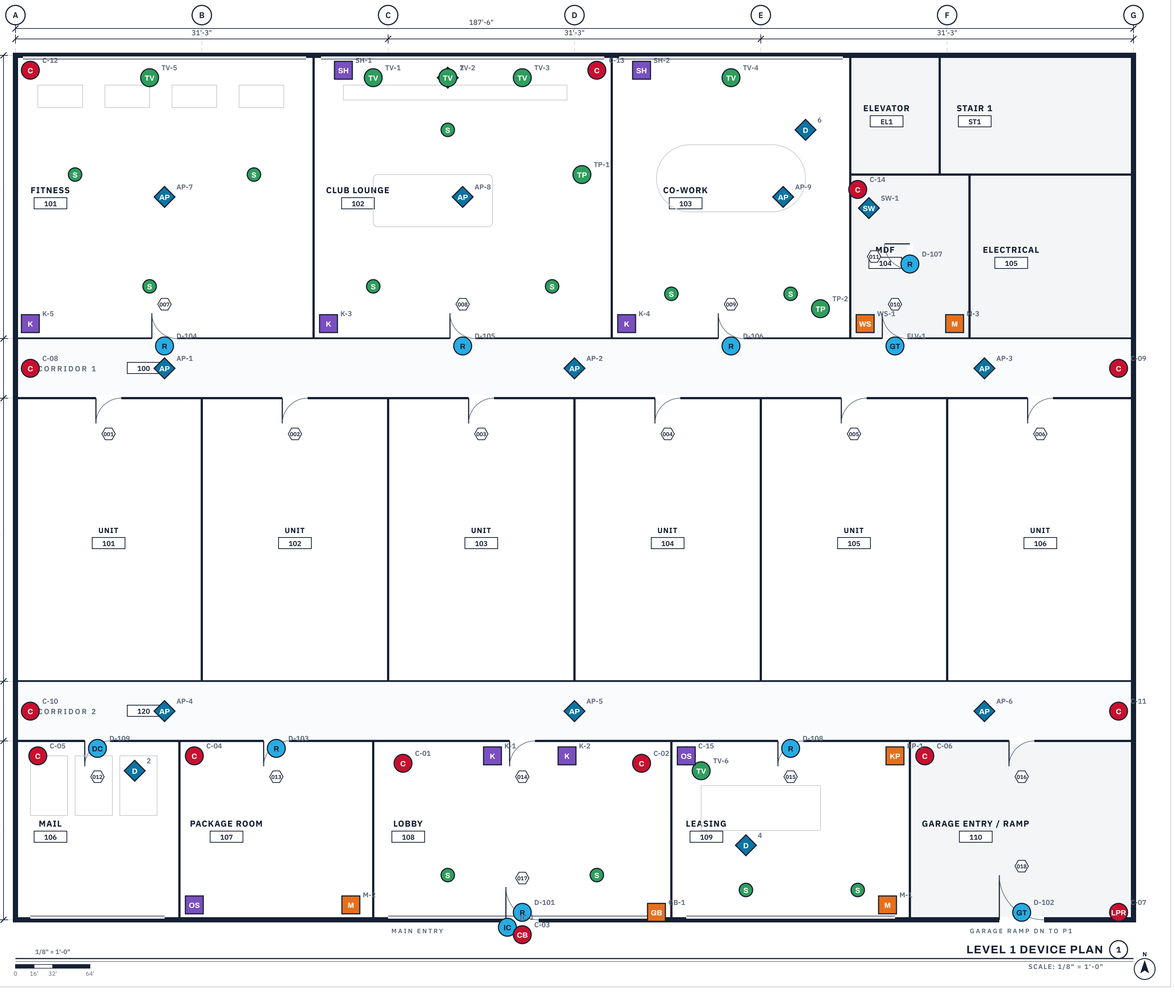
SHEET 1 OF 7

LV-0.0

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Scale as noted · 36" x 24"

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LEVEL 1
DEVICE LOCATION PLAN

SHEET TITLE

SHEET 2 OF 7

LV-1.0

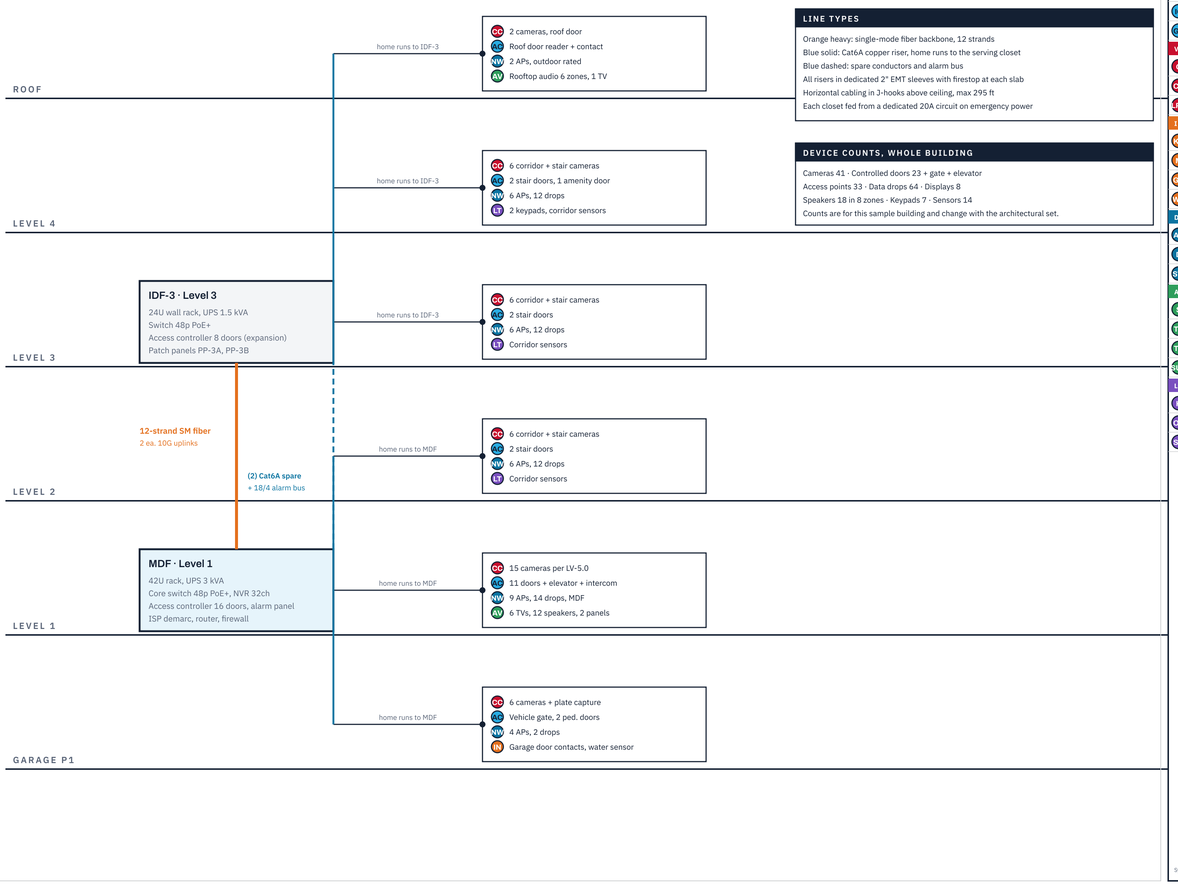
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Riser diagram, all systems

MDF on Level 1 serves Levels 1 and 2 and the garage; IDF-3 on Level 3 serves Levels 3, 4 and the roof. Fiber backbone between closets.



LINE TYPES

Orange heavy: single-mode fiber backbone, 12 strands
Blue solid: Cat6A copper riser, home runs to the serving closet
Blue dashed: spare conductors and alarm bus
All risers in dedicated 2" EMT sleeves with firestop at each slab
Horizontal cabling in J-hooks above ceiling, max 295 ft
Each closet fed from a dedicated 20A circuit on emergency power

DEVICE COUNTS, WHOLE BUILDING

Cameras 41 · Controlled doors 23 + gate + elevator
Access points 33 · Data drops 64 · Displays 8
Speakers 18 in 8 zones · Keypads 7 · Sensors 14
Counts are for this sample building and change with the architectural set.

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RISER DIAGRAM
ALL SYSTEMS

SHEET TITLE

SHEET 3 OF 7

LV-2.0

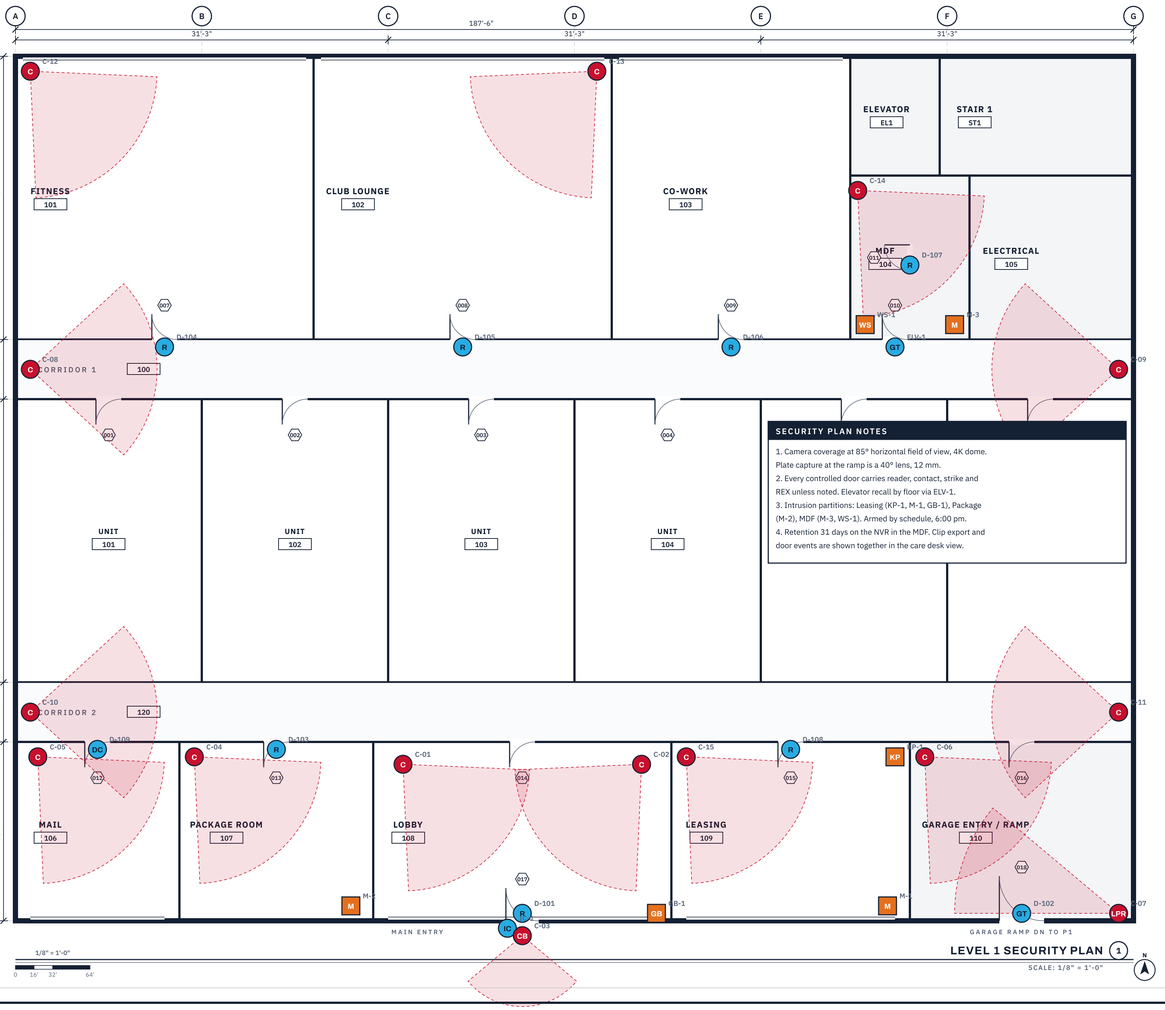
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Symbols typical. Mounting heights per LV-0.0.

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EXAMPLE PROPERTY

SAMPLE DRAWING SET · FOUR LEVELS OVER GARAGE

DENVER, COLORADO 80202

PROJECT DOCUMENTATION

LOW-VOLTAGE SYSTEMS · ISSUED 06.18.2026

PROJECT

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LEVEL 1
SECURITY PLAN
CAMERA COVERAGE

SHEET TITLE

SHEET 4 OF 7

LV-5.0

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Door and camera schedule

Level 1. Hardware coordination with the GC and door supplier. Strike and contact types confirmed at rough-in.

DOOR	LOCATION	READER	LOCK	REX	CONTACT	SCHEDULE	CAMERA	NOTES
D-101	Main entry, vestibule	Mobile + card	Electric strike, fail secure	Motion REX	Recessed	Unlock 7a-7p, resident 24h	C-01, C-03	Intercom IC-1 releases door
D-102	Garage vehicle gate	Gate controller GT	Operator relay	Loop	Gate position	Resident 24h	C-06, C-07	Plate capture opens for registered vehicles
D-103	Package room	Mobile + card	Electric strike	Motion REX	Recessed	Resident 24h, carrier code 8a-6p	C-04	Carrier PIN at reader
D-104	Fitness	Mobile + card	Maglock 1200 lb	Push bar + motion	Recessed	Resident 5a-11p	C-12	Maglock releases on fire alarm
D-105	Club lounge	Mobile + card	Electric strike	Motion REX	Recessed	Resident 6a-11p, reservable	C-13	Schedule tied to reservation system
D-106	Co-work	Mobile + card	Electric strike	Motion REX	Recessed	Resident 24h	C-13	
D-107	MDF / IT closet	Card	Electric strike	Motion REX	Recessed	Staff and vendor only	C-14	Door-held alarm 60 s, water sensor WS-1
D-108	Leasing office	Card	Electric strike	Motion REX	Recessed	Staff 7a-7p	C-15, C-02	Alarm partition 1, keypad KP-1
D-109	Mail room	Monitored only	None	None	Surface	Open	C-05	Contact for door-held reporting
ELV-1	Elevator, cab reader	Mobile + card	Floor relays x5	n/a	n/a	Resident floors by unit	C-14	Fire recall by elevator contractor
S1-1	Stair 1, Level 1	Mobile + card	Electric strike	Push bar	Recessed	Resident 24h	C-09	Free egress, controlled re-entry

CAMERA SCHEDULE, LEVEL 1

TAG	LOCATION	TYPE	LENS	MOUNT	AFF	VIEW	RETENTION	ANALYTICS
C-01	Lobby NE	4K dome	2.8 mm	Ceiling	9'-0"	Entry doors and mail	31 days	People
C-02	Lobby NW	4K dome	2.8 mm	Ceiling	9'-0"	Leasing door and seating	31 days	People
C-03	Main entry exterior	4K bullet IR	4 mm	Wall	10'-0"	Approach and vestibule	31 days	People, loitering
C-04	Package room	4K dome	2.8 mm	Ceiling	9'-0"	Lockers and door	31 days	People
C-05	Mail room	4K dome	2.8 mm	Ceiling	9'-0"	Mailboxes	31 days	People
C-06	Garage entry interior	4K dome	2.8 mm	Ceiling	9'-6"	Ramp door and gate	31 days	Vehicle
C-07	Garage ramp wall	LPR	12 mm	Wall	4'-0"	Plates, inbound lane	31 days	Plate read
C-08 to 11	Corridor ends	4K dome	2.8 mm	Ceiling	9'-0"	Full corridor	31 days	People
C-12 to 15	Amenities	4K dome	2.8 mm	Ceiling	9'-0"	Room coverage	31 days	People

LEGEND

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VIDEO SURVEILLANCE

- C — Dome camera, 4K · Cat6A
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INTRUSION

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DATA AND WIFI

- AP — Wireless access point · Cat6A
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AUDIO VIDEO

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LIGHTING CONTROL

- LK — Lighting keypad · Cat5e
- OS — Occupancy sensor · Cat5e
- SH — Motorized shade · Cat5e + 18/2

Symbols typical. Mounting heights per LV-0.0.

SYSTEM DYNAMICS

LOW-VOLTAGE DESIGN-BUILD

Access · Video · Alarm · Network · AV · Lighting

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EXAMPLE PROPERTY

SAMPLE DRAWING SET · FOUR LEVELS OVER GARAGE

DENVER, COLORADO 80202

PROJECT DOCUMENTATION

LOW-VOLTAGE SYSTEMS · ISSUED 09.18.2026

PROJECT

ISSUE / REVISION	DATE
01 ISSUED FOR BID	08.03.2026
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03 ROUGH-IN COORDINATION	08.18.2026

ISSUES AND REVISIONS

PM	M. JOHNSON
DRAWN BY	MJ
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JOB NO.	SD-2026-EX

DOOR AND CAMERA SCHEDULE

SHEET TITLE

SHEET 5 OF 7

LV-5.1

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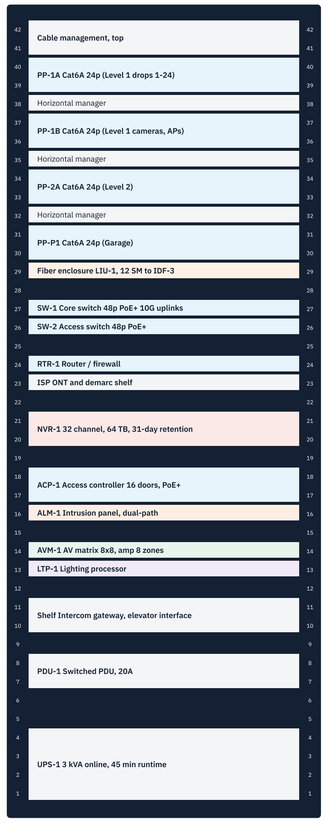
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MDF rack elevation and patch schedule

As-built. Rack unit positions and port assignments verified at turnover, 10.14.2026. Labels match these tables exactly.



RACK-1 42U, 4-post, 30" deep. Front elevation. Bonded to TMGB with #6 green.

PP-1A · LEVEL 1 DATA · PORTS 1-24

PORT	JACK ID	LOCATION	DEVICE	CABLE	LEN	TEST	PoE
1	L1-001	Leasing desk, east wall	Data, workstation	Cat6A	148	PASS	
2	L1-002	Leasing desk, east wall	Data, workstation	Cat6A	148	PASS	
3	L1-003	Leasing desk, east wall	Data, printer	Cat6A	151	PASS	
4	L1-004	Leasing, TV-6	Display, AV	Cat6A	139	PASS	
5	L1-005	Co-work table, floor box	Data x6 (ports 5-10)	Cat6A	96	PASS	
11	L1-011	Club lounge media wall	TV-1 to TV-3 (ports 11-13)	Cat6A	112	PASS	
14	L1-014	Club lounge, TP-1	Touch panel	Cat6A	118	PASS	802.3af
15	L1-015	Mail room, east wall	Data x2 (ports 15-16)	Cat6A	64	PASS	
17	L1-017	Fitness, TV-5	Display	Cat6A	171	PASS	
18	L1-018	Lobby, IC-1	Video intercom	Cat6A	88	PASS	802.3at
19	L1-019	Lobby, K-1 / K-2 gateway	Lighting	Cat6A	84	PASS	
20	L1-020	Elevator lobby, TP-2	Touch panel	Cat6A	42	PASS	802.3af
21	L1-021	Spare		Cat6A			
22	L1-022	Spare		Cat6A			
23	L1-023	Spare		Cat6A			
24	L1-024	Spare		Cat6A			

PP-1B · LEVEL 1 CAMERAS AND ACCESS POINTS

TAG	LOCATION	DEVICE	LEN	TEST	PoE
C-01	Lobby, NE corner	4K dome	77	PASS	802.3at
C-02	Lobby, NW corner	4K dome	81	PASS	802.3at
C-03	Main entry, exterior	4K bullet, IR	92	PASS	802.3at
C-04	Package room	4K dome	103	PASS	802.3at
C-05	Mail room	4K dome	121	PASS	802.3at
C-06	Garage entry, interior	4K dome	58	PASS	802.3at
C-07	Garage ramp wall (relocated, AB)	LPR 12 mm	66	PASS	802.3at
C-08 to C-11	Corridors 1 and 2, ends	4K dome x4	140 max	PASS	802.3at
AP-1 to AP-9	Corridors and amenities	WiFi 7 access points	160 max	PASS	802.3bt

TURNOVER CHECKLIST

All ports certified to Cat6A channel spec; test reports delivered as PDF with this set. · Labels: white on black, 3/8", both ends.
Credentials issued to property management; admin training completed 10.12.2026. · Care plan active from 10.15.2026.
Spare ports left open for tenant AV and future cameras. UPS runtime tested at 45 minutes under full load.

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AB AS-BUILT RECORD SET	10.14.2026

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MDF RACK ELEVATION AND PATCH SCHEDULE AS-BUILT

SHEET TITLE

SHEET 6 OF 7

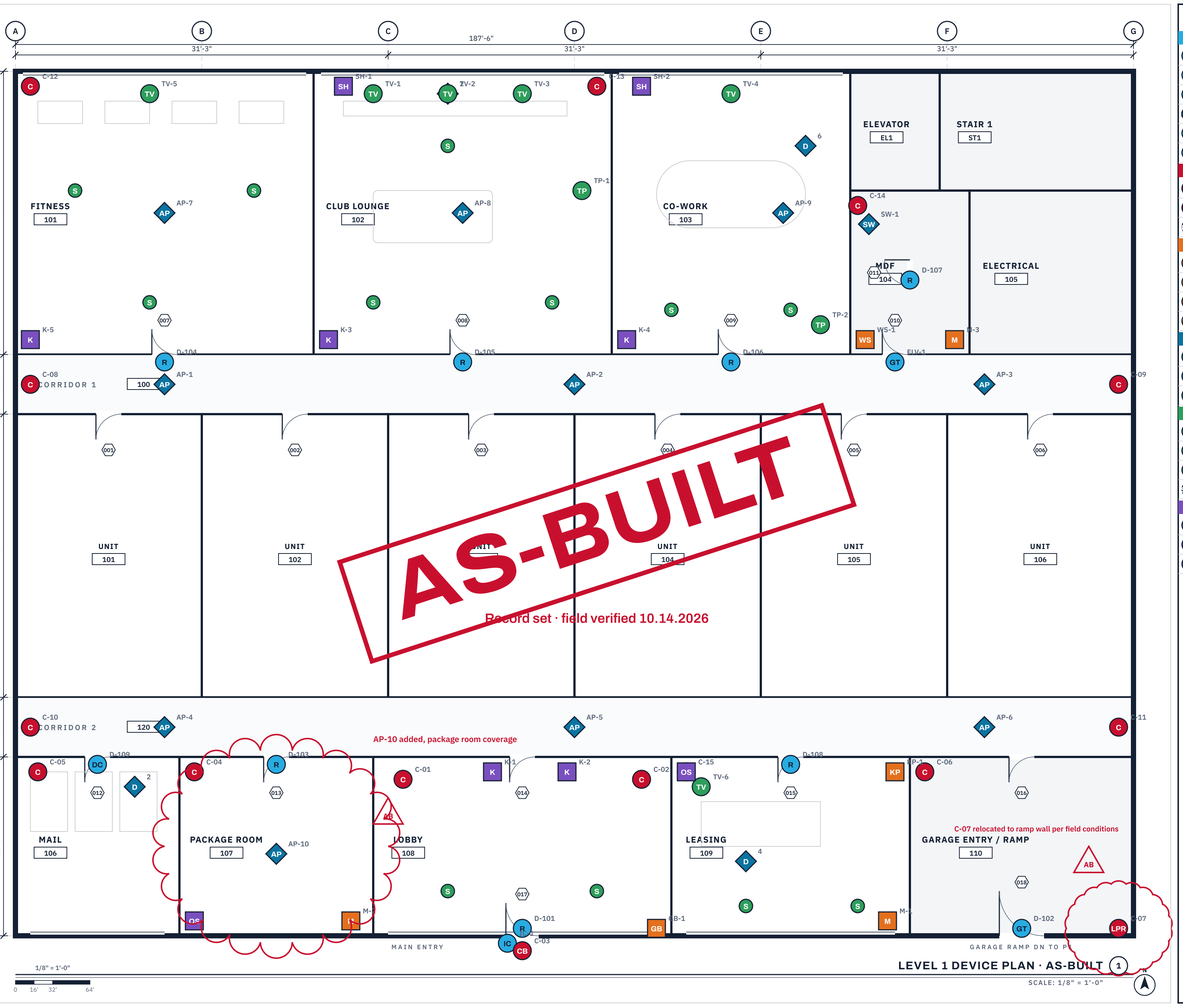
LV-4.0

AS-BUILT · RECORD SET

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SAMPLE DRAWING SET FOR A FICTIONAL PROPERTY. SYSTEM DYNAMICS DESIGN DOCUMENTS ARE PREPARED PER PROJECT FROM THE ARCHITECTURAL SET AND A SITE SURVEY. NOT FOR CONSTRUCTION.



LEGEND

WIRING

ACCESS CONTROL

- R — Card and mobile reader — Cat6 + 22/6
- DC — Door contact — 22/4
- ES — Electric strike or maglock — 18/4
- RE — Request to exit — 22/4
- VI — Video intercom — Cat6A
- GT — Gate or elevator controller — Cat6 + 18/4

VIDEO SURVEILLANCE

- C — Dome camera, 4K — Cat6A
- CB — Bullet camera, exterior — Cat6A
- LPR — Plate capture camera — Cat6A

INTRUSION

- KP — Alarm keypad — 22/4
- M — Motion detector — 22/4
- GB — Glass break — 22/4
- WS — Water or temp sensor — 22/4

DATA AND WIFI

- AP — Wireless access point — Cat6A
- D — Data drop (qty noted) — Cat6A
- SW — Network switch — Fiber uplink

AUDIO VIDEO

- S — In-ceiling speaker — 16/2
- TV — Display — Cat6A + HDMI
- TP — Touch panel — Cat6A
- SUB — Subwoofer — 14/2

LIGHTING CONTROL

- K — Lighting keypad — Cat5e
- OS — Occupancy sensor — Cat5e
- SH — Motorized shade — Cat5e + 16/2

Symbols typical. Mounting heights per LV-0.0.

SYSTEM DYNAMICS

LOW-VOLTAGE DESIGN-BUILD

Access · Video · Alarm · Network · AV · Lighting

Denver, Colorado

303.962.2022 · sysdy.com

OWNER / GENERAL CONTRACTOR

client logo

ARCHITECT OF RECORD: by owner

EXAMPLE PROPERTY

SAMPLE DRAWING SET · FOUR LEVELS OVER GARAGE

DENVER, COLORADO 80202

RECORD DRAWINGS

LOW-VOLTAGE SYSTEMS · ISSUED 10.14.2026

PROJECT

ISSUE / REVISION	DATE
01 ISSUED FOR BID	06.03.2026
02 PERMIT SET	07.21.2026
03 ROUGH-IN COORDINATION	08.18.2026
AB AS-BUILT RECORD SET	10.14.2026

ISSUES AND REVISIONS

PM	M. JOHNSON
DRAWN BY	MJ
CHECKED	MSJ
JOB NO.	SD-2026-EX

LEVEL 1
DEVICE LOCATION PLAN
AS-BUILT

SHEET TITLE

SHEET 7 OF 7

LV-1.0

AS-BUILT · RECORD SET

Scale as noted · 36" x 24"