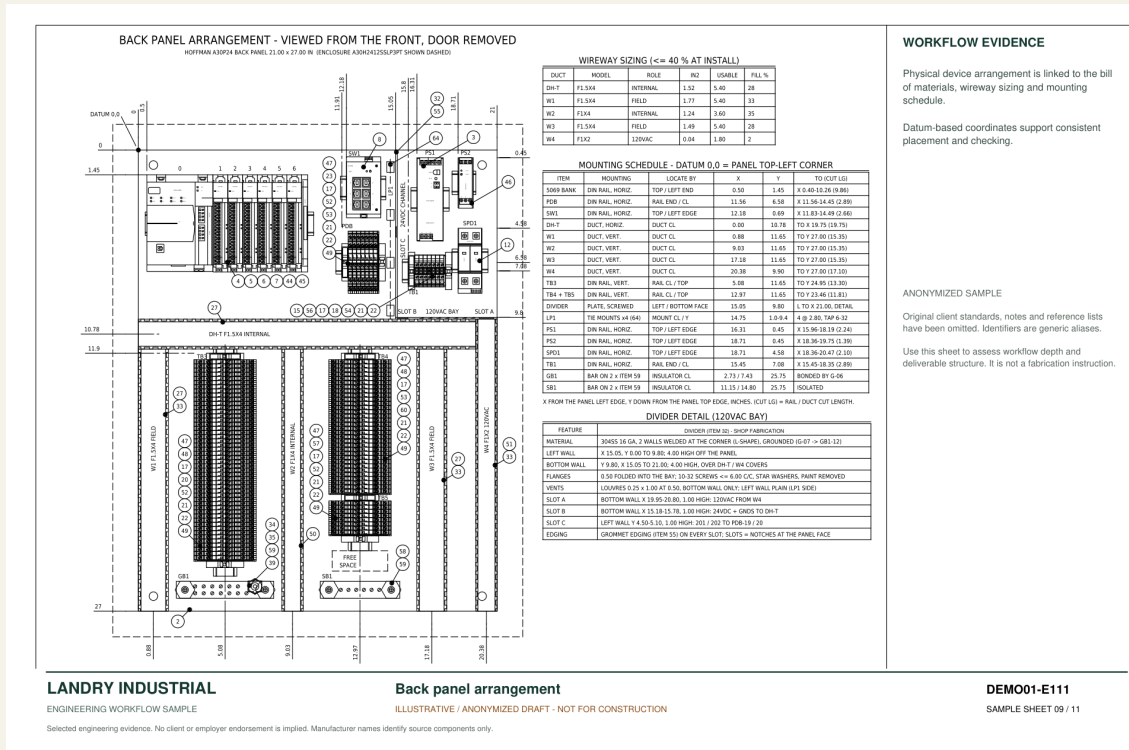


Engineering delivery, reimagined.

An engineer-led workflow that develops the design, coordinates the evidence and prepares the package for human review.



One workflow. A coordinated engineering package.

Design decisions - drawings - materials - requirements - deviations - checker handoff

Selected evidence from a 90-page engineering draft. Project identities and client-specific requirements removed. September 2026.



WHAT THE SOURCE DEMONSTRATES

Beyond drawing production.

The artifact is a coordinated review package. Its value is the relationship between design work, supporting records and decisions that remain open.

90 source pages

The original draft includes drawings, verification, deviations and schedules.

12 drawing sheets

Power, six I/O sheets, physical layout, enclosure entry and materials.

2,284 registered entries

Requirements recorded across ten source documents; counts reported by the package.

36 DCR items

Departures, decisions and design changes grouped for written disposition.

Founder-reported execution

Produced part-time in one week, with zero dedicated CAD operator hours. The PDF supports inspection of the output; it does not independently establish hours worked, native CAD layers, engineering correctness or approval status.

This is evidence of a developed workflow and reviewable deliverables. Savings and quality improvement should be measured against a comparable conventional project, including checking and rework.

THE OPERATING METHOD

Make the process executable.

Skills encode repeatable steps. Engineering judgment sets the intent, resolves uncertainty and controls release.

Stage	Work product and control
01 Establish scope	Capture inputs, exclusions, assumptions, owners and the required deliverable set.
02 Develop design	Select components; coordinate power, I/O, terminals, dimensions and physical arrangement.
03 Build evidence	Connect requirements and manufacturer references to the design decisions they support.
04 Coordinate outputs	Generate drawings, materials and structured schedules from managed project data.
05 Resolve exceptions	Maintain holds and deviation requests. Route unanswered questions to the responsible person.
06 Review and release	Prepare a checker package, record dispositions and require human authorization for the next issue.

The repeatable asset is the delivery system.

A well-managed workflow retains project context and makes each subsequent iteration easier to check.

REQUIREMENTS AND REVIEW

Visibility is a quality control.

The source report distinguishes what is demonstrated now from what needs a decision, later-stage work or action by another party.

Source status	Entries	Meaning
Shown compliant in this set	267	Evidence cited in the current drawing package.
Deviation / clarification mapping	293	Requirement entries mapped to DCR items. These are not 293 separate DCRs.
Later stage	602	Work assigned to fabrication, FAT, program or HMI review.
Owner / others	146	Responsibility outside the current design deliverable.
Not applicable	976	Classified outside the applicable project scope.
Total registered	2,284	1,308 entries classified as applicable.

Do not confuse traceability with certification.

These are package-reported classifications, not an independent audit of completeness or compliance. Client standard text and identifiers are deliberately omitted.

A usable checker handoff.

The source DCR separates eight deviations and alternates, twelve decisions or information requests, and sixteen changes being incorporated.

Illustrative review item	Evidence needed before disposition
Supply fault-current information	Responsible party supplies the electrical basis; engineer revisits the rating and protective-device choice.
Field device compatibility	Confirm actual electrical ratings and interface type before finalizing circuits and parts.
Manufacturer mounting template	Resolve the selected model and current mounting details before enclosure fabrication.
Network and interface assignment	Record the system owner, connection details and final addressing before testing and handover.

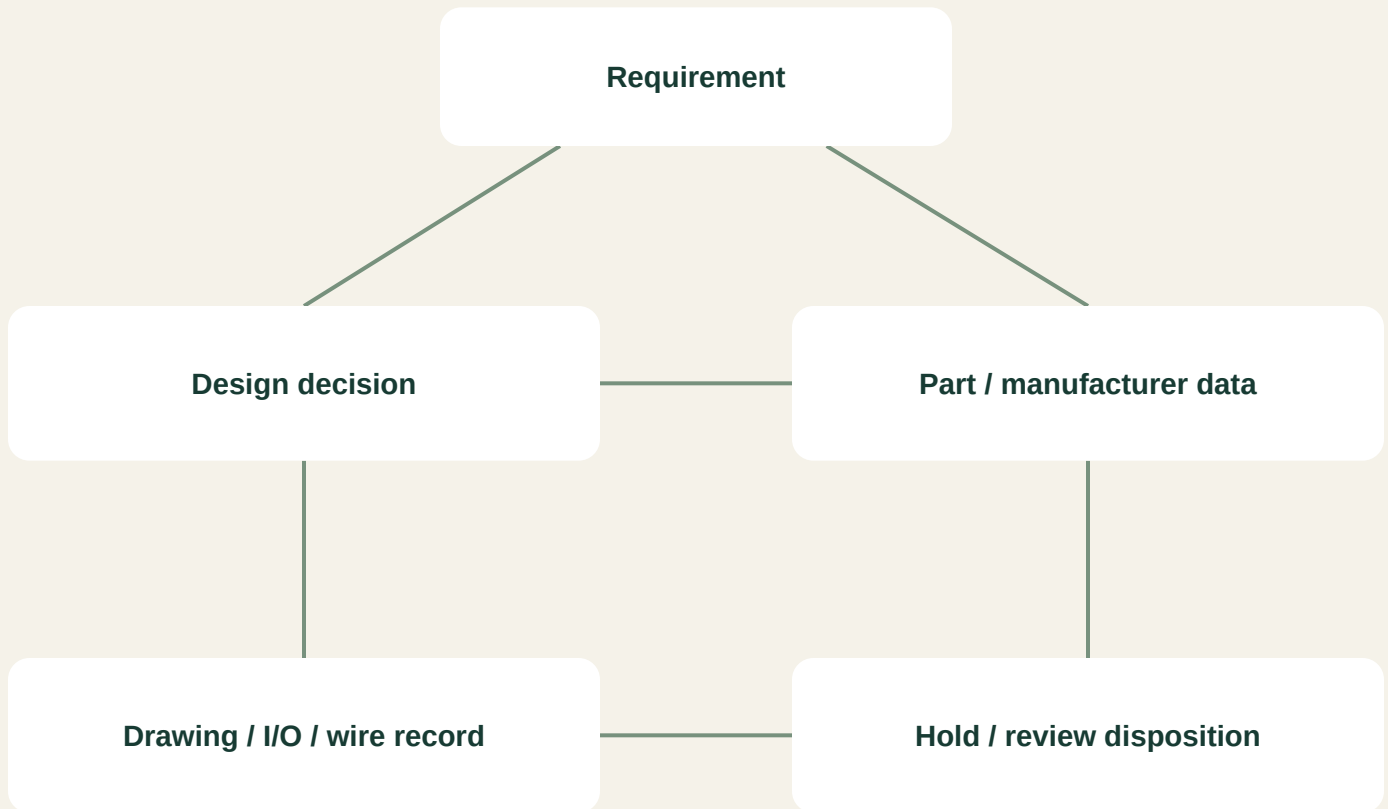
A decision record should carry:

Unique ID - source and revision - affected deliverables - responsible person - response - checker disposition - closure evidence.

Examples above are generalized descriptions of review mechanics. They do not reproduce a client requirement or assert that any issue is closed.

Change becomes traceable.

A project graph can preserve relationships so a change request starts with its affected evidence and deliverables.



Example question: "If this component changes, which drawings, wiring records, requirements and open reviews must be revisited?"

Illustrative relationship model. Graph database development is founder-reported and ongoing; this sample does not demonstrate a production query system. An LLM proposes an impact list; the engineer checks completeness.

HOW TO READ THE EVIDENCE

Detailed work, open to review.

The following eleven sheets retain original engineering graphics from the supplied draft while removing project identity and client-specific note panels.

Sample pages	Evidence
08	Power distribution, controller supply and grounding relationships.
09-14	Six channel-level I/O drawing sheets: three DI, two DO, one AI.
15-17	Enclosure, back panel, mounting and entry geometry.
18	Component schedule and wiring conventions.

Changes made for this public sample

Project and drawing identifiers replaced with generic aliases. Employer and client names, contacts, order details, title blocks and original client note/reference panels removed. The original drawing index and proprietary compliance matrices are not included.

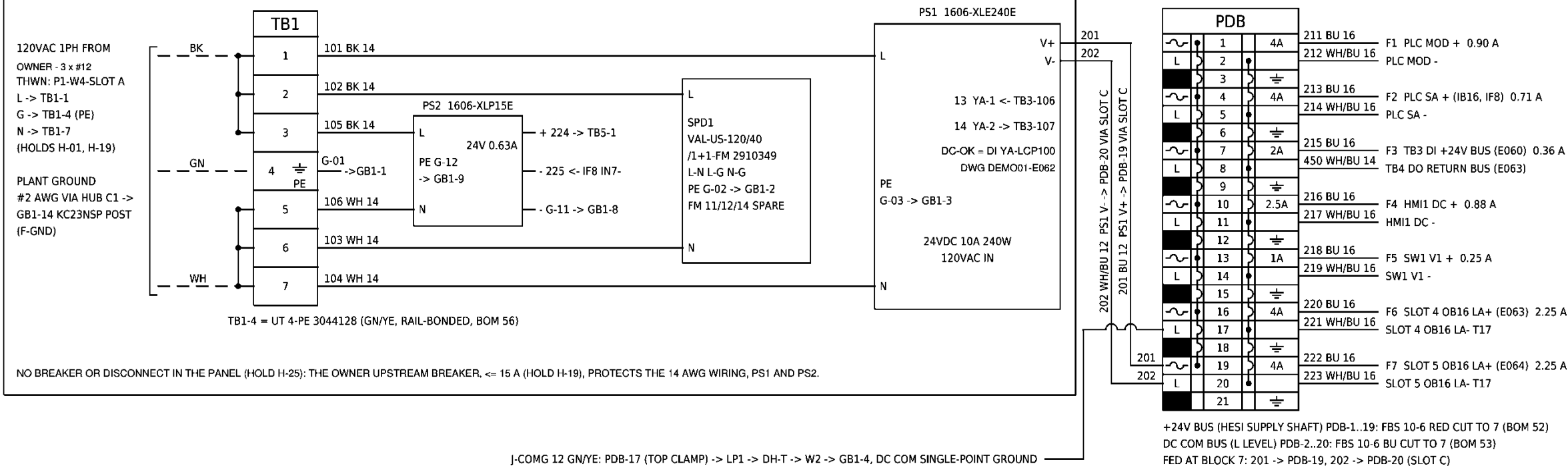
Review status

Anonymized engineering draft for workflow demonstration. Not a construction release, fabrication instruction, certification or technical approval. The underlying design has not been independently verified in preparing this sample. No employer, client or manufacturer endorsement is implied.

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Screen edition | Drawing reproductions at 220 dpi. Full vector edition retained separately.

120VAC BAY - TOP RIGHT OF THE BACK PANEL (DWG DEMO01-E111), BEHIND THE VENTED, GROUNDED 304SS DIVIDER. FEED: HUB P1 -> ITS OWN
120VAC DUCT W4 -> SLOT A IN THE BAY'S BOTTOM DIVIDER -> TB1 (HORIZONTAL RAIL, FIELD FACE DOWN). POINT-TO-POINT 14 AWG MTW, ANCHORED <= 3 IN.
PS1 24VDC 201 / 202 -> SLOT C -> PDB-19 / PDB-20 (BLOCK 7). PS2 224 / 225, DC-OK YA-1 / YA-2 AND GROUNDS -> 24VDC CHANNEL -> SLOT B -> DH-T. NO 120VAC IN DH-T.



WORKFLOW EVIDENCE

Distribution is coordinated across AC supply, DC branches, module power, communications and grounding.

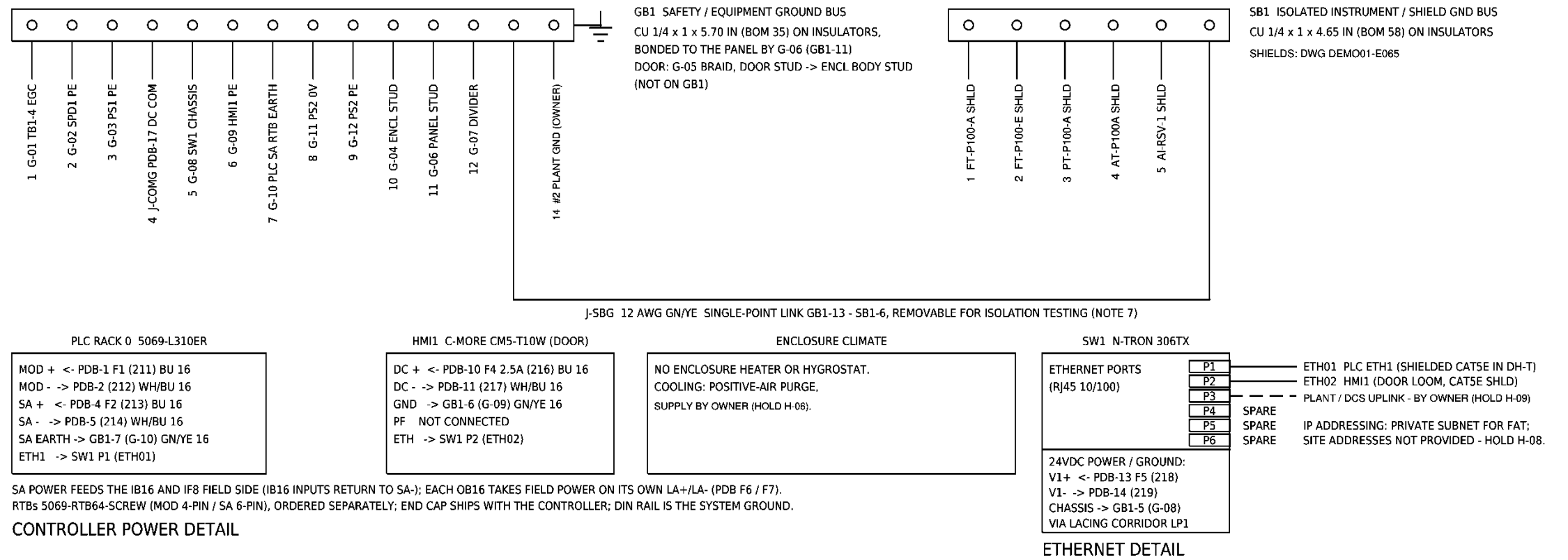
The source includes wire identifiers, conductor sizes, protection choices and cross-references.

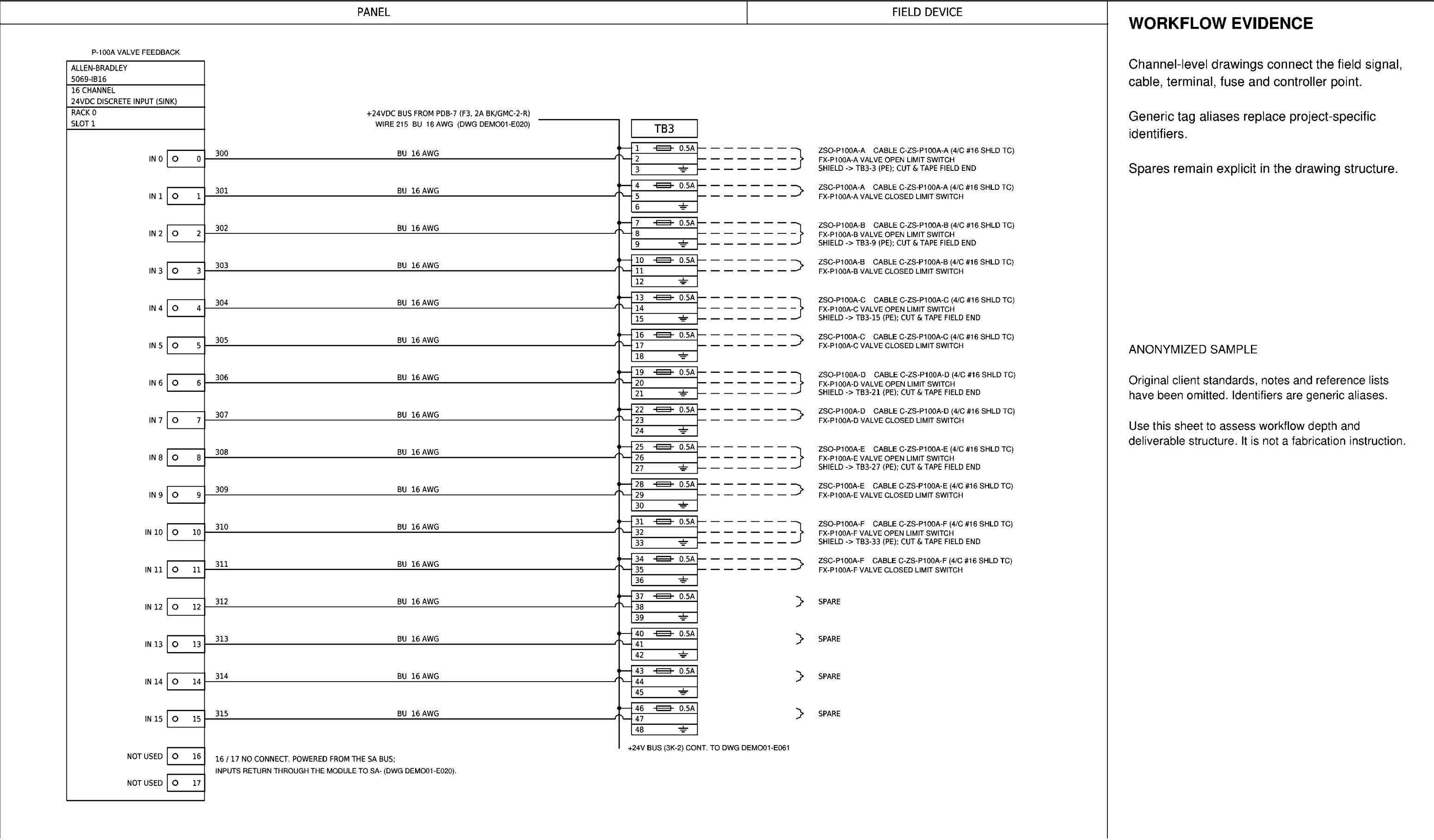
Open design decisions remain visible through hold references.

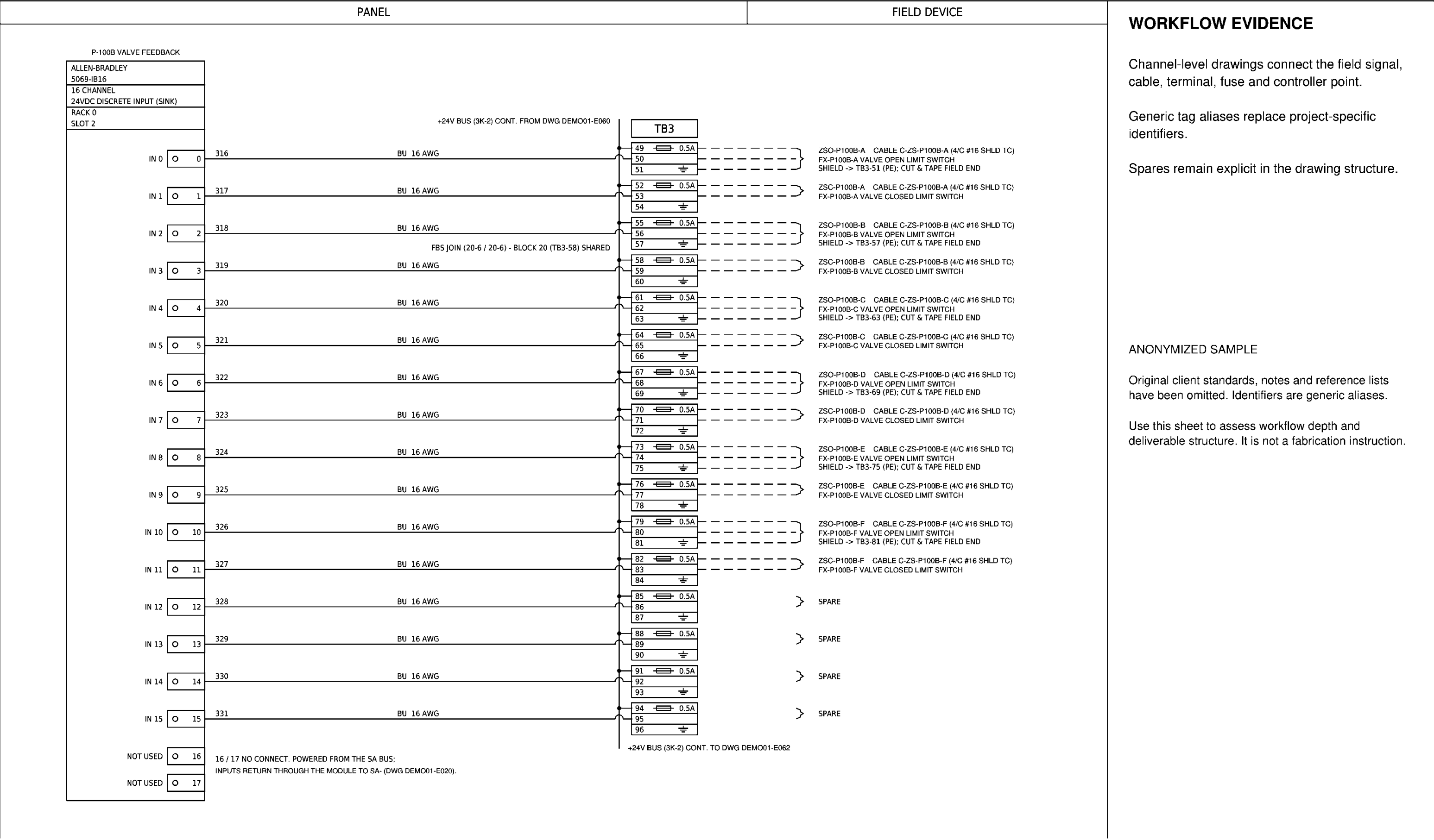
ANONYMIZED SAMPLE

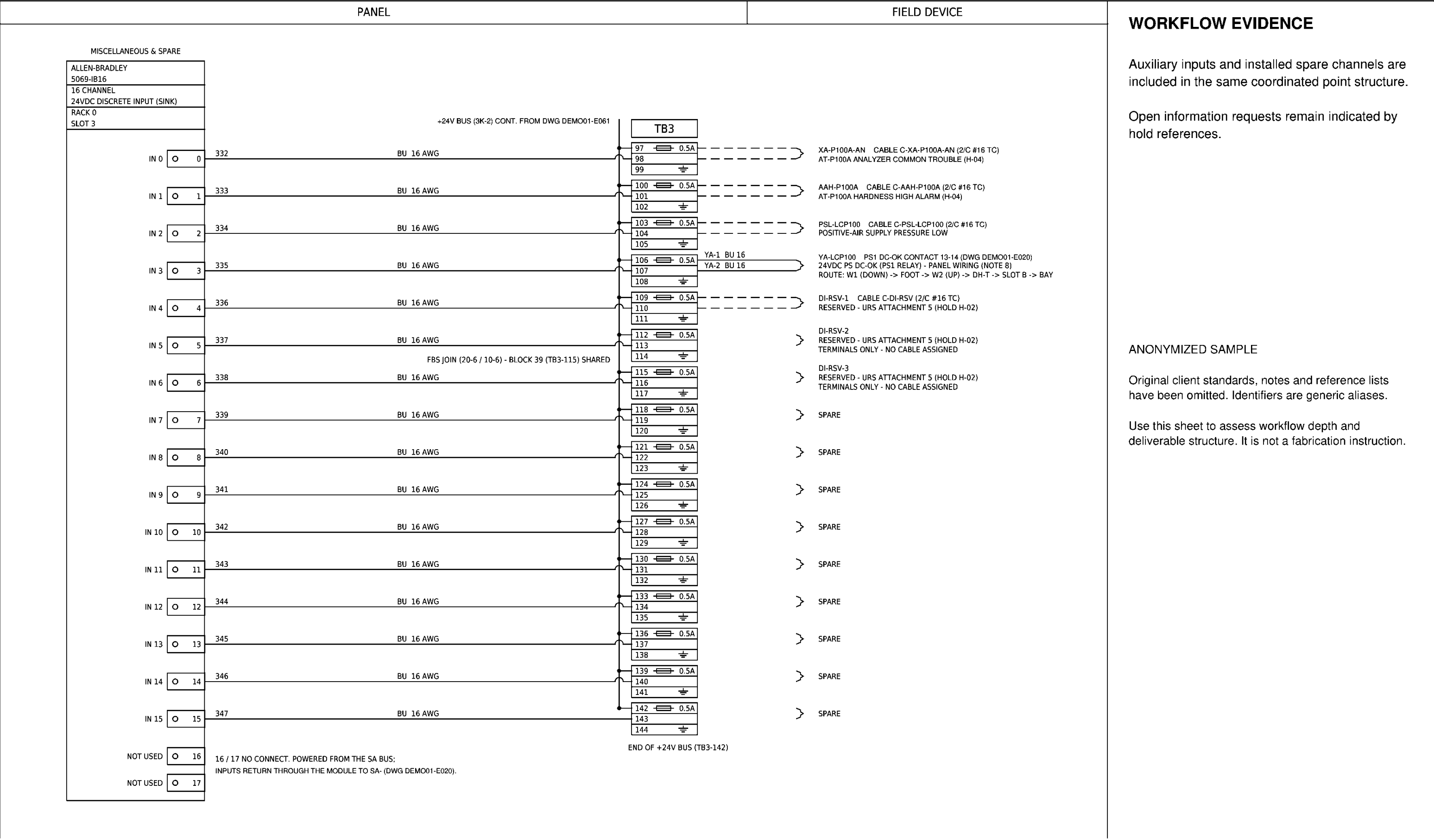
Original client standards, notes and reference lists have been omitted. Identifiers are generic aliases.

Use this sheet to assess workflow depth and deliverable structure. It is not a fabrication instruction.











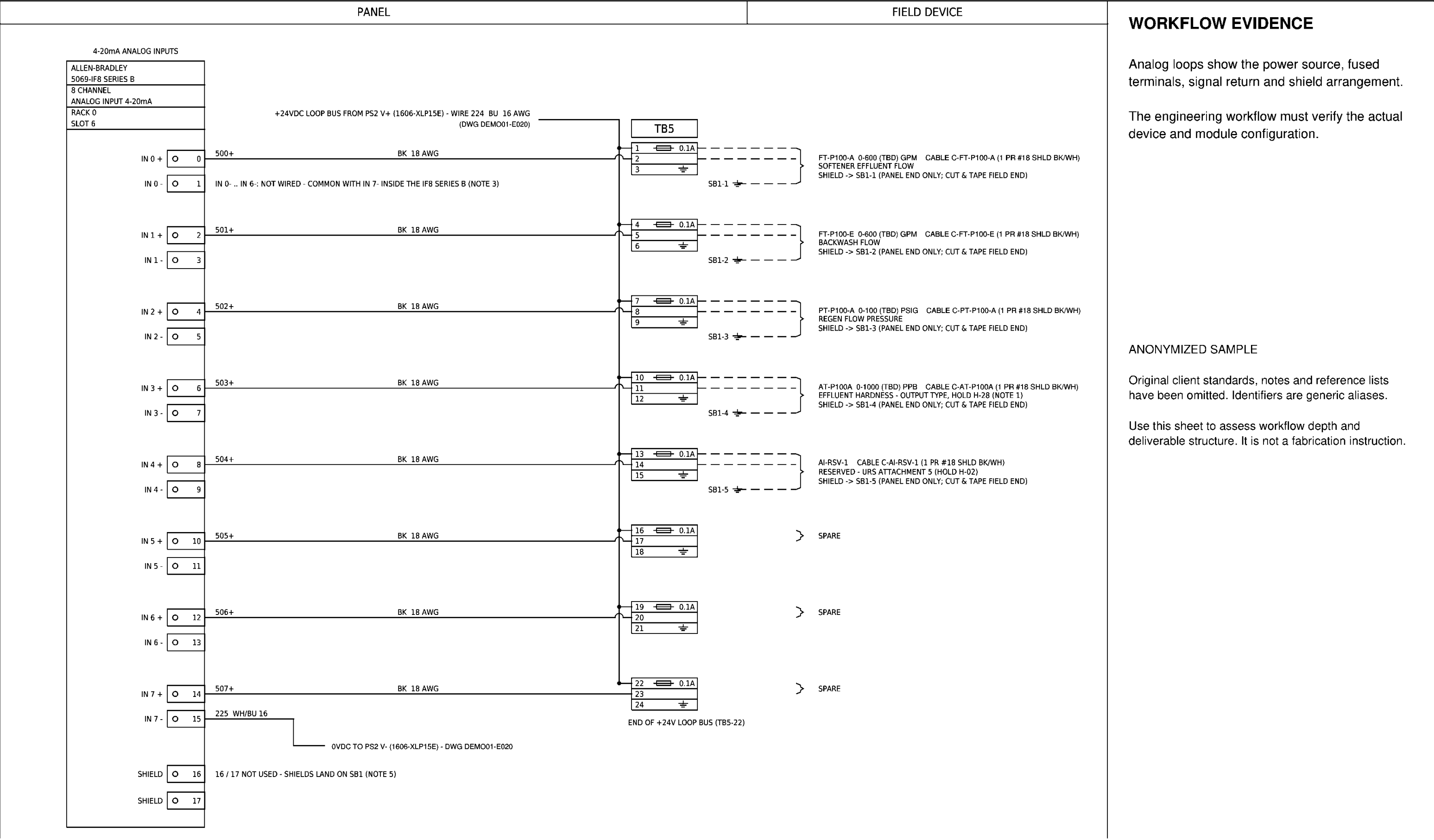
Output circuits carry the channel, conductor, terminal and field-device relationship.

Device ratings and interface assumptions require engineering disposition before release.

ANONYMIZED SAMPLE

Original client standards, notes and reference lists have been omitted. Identifiers are generic aliases.

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IN 3 +

6

503+

BK 18 AWG

IN 3 -

7

IN 4 +

8

504+

BK 18 AWG

IN 4 -

9

IN 5 +

10

505+

BK 18 AWG

IN 5 -

11

IN 6 +

12

506+

BK 18 AWG

IN 6 -

13

IN 7 +

14

507+

BK 18 AWG

IN 7 -

15

225 WH/BU 16

0VDC TO PS2 V- (1606-XLP15E) - DWG DEMO01-E020

SHIELD

16

16 / 17 NOT USED - SHIELDS LAND ON SB1 (NOTE 5)

SHIELD

17

TB5

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

SB1-1

SB1-2

SB1-3

SB1-4

SB1-5

SPARE

SPARE

SPARE

FT-P100-A 0-600 (TBD) GPM CABLE C-FT-P100-A (1 PR #18 SHLD BK/WH)
SOFTENER EFFLUENT FLOW
SHIELD -> SB1-1 (PANEL END ONLY; CUT & TAPE FIELD END)

FT-P100-E 0-600 (TBD) GPM CABLE C-FT-P100-E (1 PR #18 SHLD BK/WH)
BACKWASH FLOW
SHIELD -> SB1-2 (PANEL END ONLY; CUT & TAPE FIELD END)

PT-P100-A 0-100 (TBD) PSIG CABLE C-PT-P100-A (1 PR #18 SHLD BK/WH)
REGEN FLOW PRESSURE
SHIELD -> SB1-3 (PANEL END ONLY; CUT & TAPE FIELD END)

AT-P100A 0-1000 (TBD) PPB CABLE C-AT-P100A (1 PR #18 SHLD BK/WH)
EFFLUENT HARDNESS - OUTPUT TYPE, HOLD H-28 (NOTE 1)
SHIELD -> SB1-4 (PANEL END ONLY; CUT & TAPE FIELD END)

AI-RSV-1 CABLE C-AI-RSV-1 (1 PR #18 SHLD BK/WH)
RESERVED - URS ATTACHMENT 5 (HOLD H-02)
SHIELD -> SB1-5 (PANEL END ONLY; CUT & TAPE FIELD END)

SPARE

SPARE

SPARE

+24VDC LOOP BUS FROM PS2 V+ (1606-XLP15E) - WIRE 224 BU 16 AWG (DWG DEMO01-E020)

END OF +24V LOOP BUS (TB5-22)

WORKFLOW EVIDENCE

Analog loops show the power source, fused terminals, signal return and shield arrangement.

The engineering workflow must verify the actual device and module configuration.

ANONYMIZED SAMPLE

Original client standards, notes and reference lists have been omitted. Identifiers are generic aliases.

Use this sheet to assess workflow depth and deliverable structure. It is not a fabrication instruction.

WORKFLOW EVIDENCE

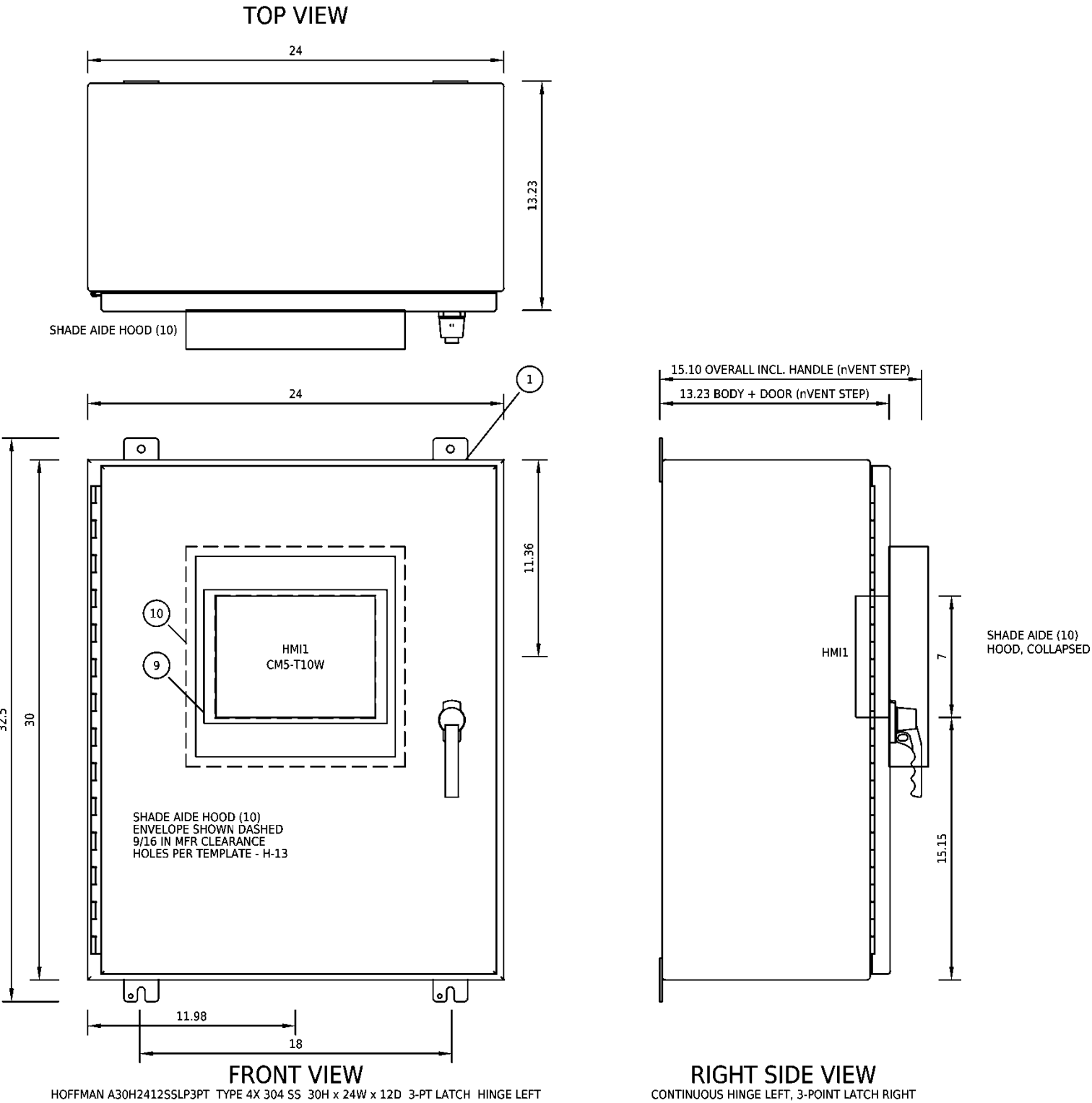
Enclosure, HMI, hood and mounting envelopes are coordinated in multiple views.

Dimensions and fabrication decisions remain subject to the original review holds.

ANONYMIZED SAMPLE

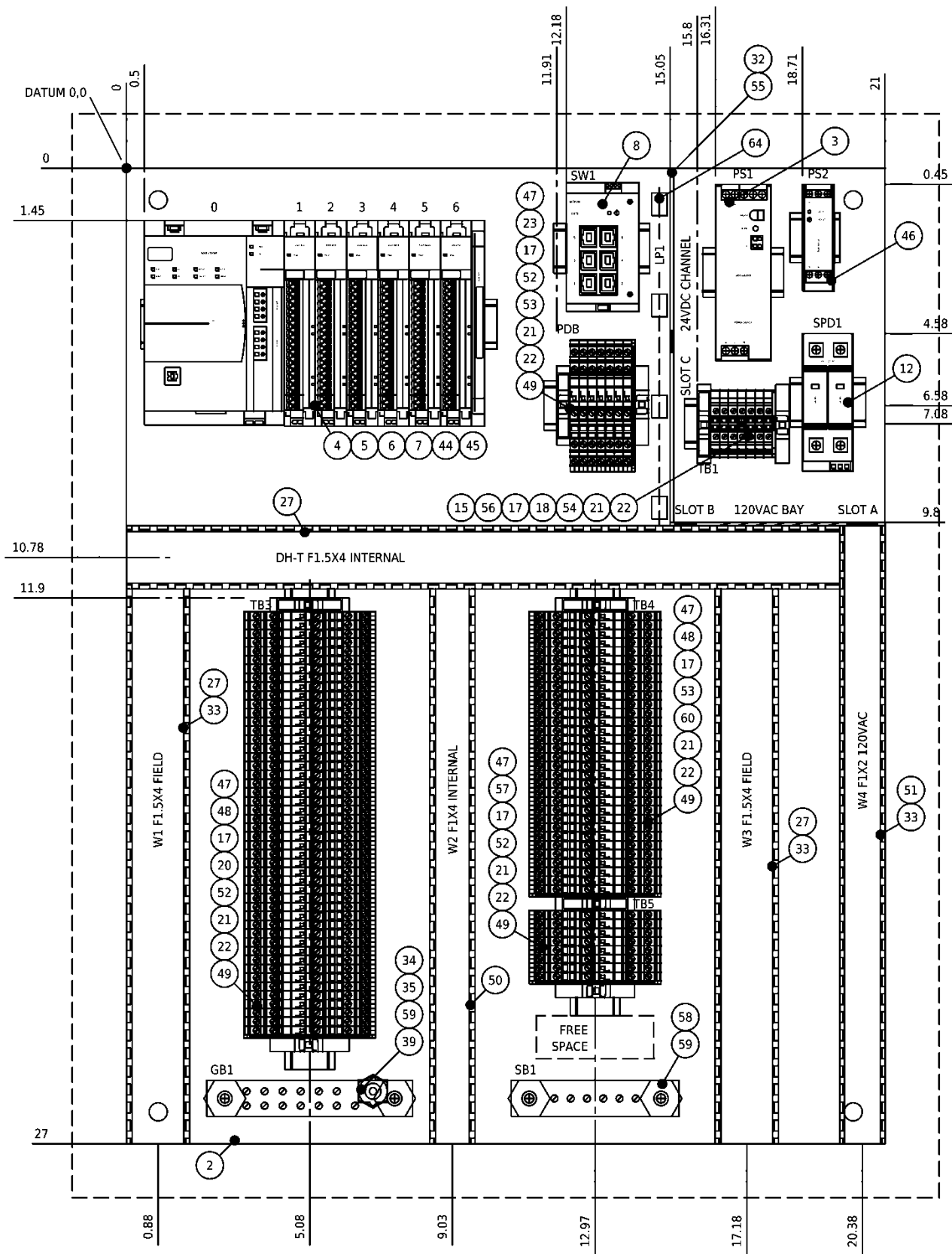
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BACK PANEL ARRANGEMENT - VIEWED FROM THE FRONT, DOOR REMOVED

HOFFMAN A30P24 BACK PANEL 21.00 x 27.00 IN (ENCLOSURE A30H2412SSLP3PT SHOWN DASHED)



WIREWAY SIZING (<= 40 % AT INSTALL)

DUCT	MODEL	ROLE	IN2	USABLE	FILL %
DH-T	F1.5X4	INTERNAL	1.52	5.40	28
W1	F1.5X4	FIELD	1.77	5.40	33
W2	F1X4	INTERNAL	1.24	3.60	35
W3	F1.5X4	FIELD	1.49	5.40	28
W4	F1X2	120VAC	0.04	1.80	2

MOUNTING SCHEDULE - DATUM 0,0 = PANEL TOP-LEFT CORNER

ITEM	MOUNTING	LOCATE BY	X	Y	TO (CUT LG)
5069 BANK	DIN RAIL, HORIZ.	TOP / LEFT END	0.50	1.45	X 0.40-10.26 (9.86)
PDB	DIN RAIL, HORIZ.	RAIL END / CL	11.56	6.58	X 11.56-14.45 (2.89)
SW1	DIN RAIL, HORIZ.	TOP / LEFT EDGE	12.18	0.69	X 11.83-14.49 (2.66)
DH-T	DUCT, HORIZ.	DUCT CL	0.00	10.78	TO X 19.75 (19.75)
W1	DUCT, VERT.	DUCT CL	0.88	11.65	TO Y 27.00 (15.35)
W2	DUCT, VERT.	DUCT CL	9.03	11.65	TO Y 27.00 (15.35)
W3	DUCT, VERT.	DUCT CL	17.18	11.65	TO Y 27.00 (15.35)
W4	DUCT, VERT.	DUCT CL	20.38	9.90	TO Y 27.00 (17.10)
TB3	DIN RAIL, VERT.	RAIL CL / TOP	5.08	11.65	TO Y 24.95 (13.30)
TB4 + TB5	DIN RAIL, VERT.	RAIL CL / TOP	12.97	11.65	TO Y 23.46 (11.81)
DIVIDER	PLATE, SCREWED	LEFT / BOTTOM FACE	15.05	9.80	L TO X 21.00, DETAIL
LP1	TIE MOUNTS x4 (64)	MOUNT CL / Y	14.75	1.0-9.4	4 @ 2.80, TAP 6-32
PS1	DIN RAIL, HORIZ.	TOP / LEFT EDGE	16.31	0.45	X 15.96-18.19 (2.24)
PS2	DIN RAIL, HORIZ.	TOP / LEFT EDGE	18.71	0.45	X 18.36-19.75 (1.39)
SPD1	DIN RAIL, HORIZ.	TOP / LEFT EDGE	18.71	4.58	X 18.36-20.47 (2.10)
TB1	DIN RAIL, HORIZ.	RAIL END / CL	15.45	7.08	X 15.45-18.35 (2.89)
GB1	BAR ON 2 x ITEM 59	INSULATOR CL	2.73 / 7.43	25.75	BONDED BY G-06
SB1	BAR ON 2 x ITEM 59	INSULATOR CL	11.15 / 14.80	25.75	ISOLATED

X FROM THE PANEL LEFT EDGE, Y DOWN FROM THE PANEL TOP EDGE, INCHES. (CUT LG) = RAIL / DUCT CUT LENGTH.

DIVIDER DETAIL (120VAC BAY)

FEATURE	DIVIDER (ITEM 32) - SHOP FABRICATION
MATERIAL	304SS 16 GA, 2 WALLS WELDED AT THE CORNER (L-SHAPE), GROUNDED (G-07 -> GB1-12)
LEFT WALL	X 15.05, Y 0.00 TO 9.80; 4.00 HIGH OFF THE PANEL
BOTTOM WALL	Y 9.80, X 15.05 TO 21.00; 4.00 HIGH, OVER DH-T / W4 COVERS
FLANGES	0.50 FOLDED INTO THE BAY; 10-32 SCREWS <= 6.00 C/C, STAR WASHERS, PAINT REMOVED
VENTS	LOUVRES 0.25 x 1.00 AT 0.50, BOTTOM WALL ONLY; LEFT WALL PLAIN (LP1 SIDE)
SLOT A	BOTTOM WALL X 19.95-20.80, 1.00 HIGH: 120VAC FROM W4
SLOT B	BOTTOM WALL X 15.18-15.78, 1.00 HIGH: 24VDC + GND5 TO DH-T
SLOT C	LEFT WALL Y 4.50-5.10, 1.00 HIGH: 201 / 202 TO PDB-19 / 20
EDGING	GROMMET EDGING (ITEM 55) ON EVERY SLOT; SLOTS = NOTCHES AT THE PANEL FACE

WORKFLOW EVIDENCE

Physical device arrangement is linked to the bill of materials, wireway sizing and mounting schedule.

Datum-based coordinates support consistent placement and checking.

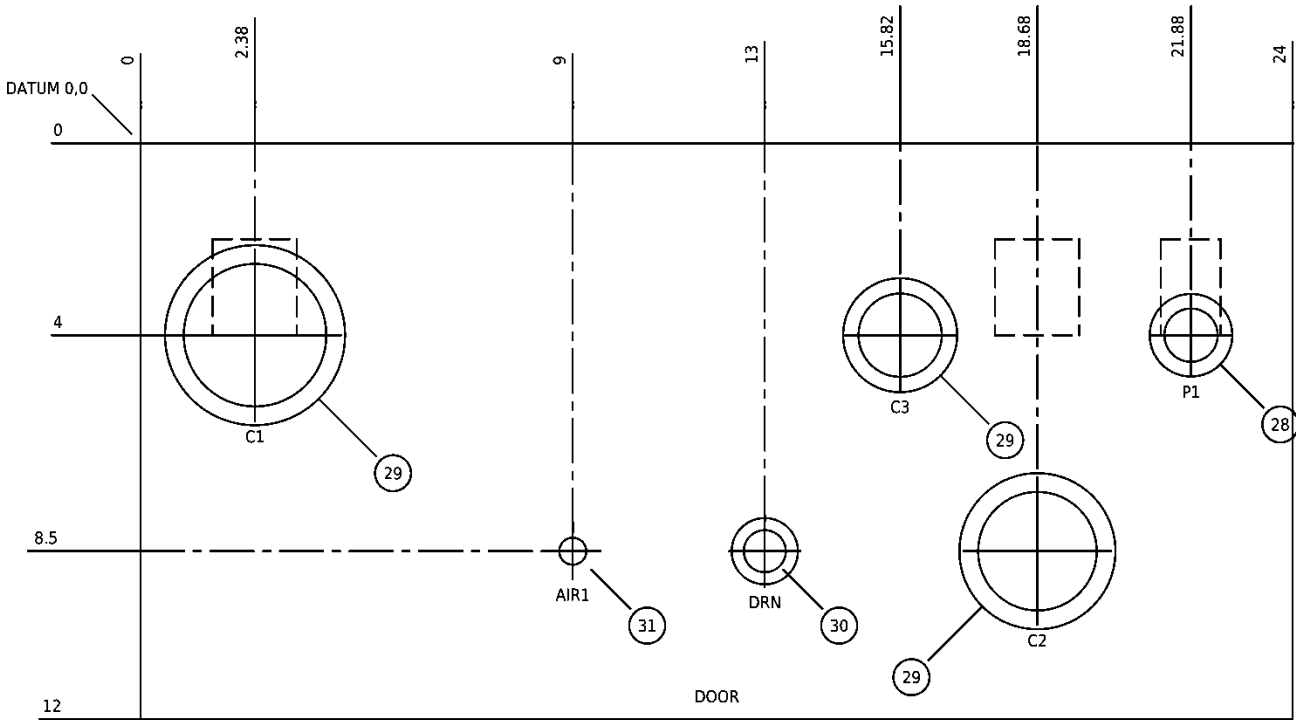
ANONYMIZED SAMPLE

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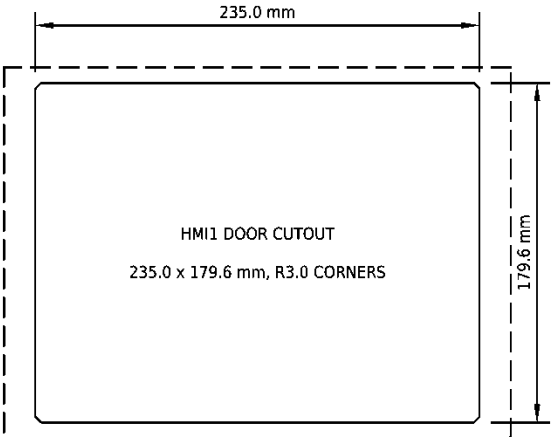
Use this sheet to assess workflow depth and deliverable structure. It is not a fabrication instruction.

BOTTOM VIEW - LOOKING UP, BACK WALL AT TOP

HUB CENTRES FROM THE ENCLOSURE LEFT WALL AND THE BACK WALL (INSIDE FACES)



DOOR CUTOUT DETAIL



CUTOUT 235.0 x 179.6 mm (9.25 x 7.07 IN), R3.0 mm CORNERS.
 BEZEL 268.2 x 195.9 mm SHOWN DASHED.
 CUTOUT CENTRE 11.98 FROM THE DOOR LEFT EDGE, 18.64 FROM THE DOOR BOTTOM (ENCLOSURE COORDINATES). PER THE AUTOMATIONDIRECT CM5-T10W 2D DRAWING; CONFIRM AGAINST THE TEMPLATE IN THE BOX BEFORE CUTTING.
 SHADE AIDE HOOD HOLES: MATCH-DRILL PER ITS TEMPLATE (HOLD H-13).

WORKFLOW EVIDENCE

Entry positions, mounting dimensions and cutout geometry are assembled for review.

Final cable and manufacturer data are prerequisites for fabrication.

ANONYMIZED SAMPLE

Original client standards, notes and reference lists have been omitted. Identifiers are generic aliases.

Use this sheet to assess workflow depth and deliverable structure. It is not a fabrication instruction.

ENTRY SCHEDULE - MYERS HUBS (SS), TYPE 4X

ID	SIZE	HUB / FITTING	HOLE DIA	X FROM L	FROM BACK	CABLES	SERVICE
P1	3/4	SSTG2	1.109	21.88	4.00	3 x PWR12	120VAC FEED (L,N,G #12) - DIRECTLY UNDER W4 (120 VAC RISER) ON THE RIGHT EDGE; RISES TO THE TOP-RIGHT BAY
C1	2-1/2	SSTG7	2.969	2.38	4.00	12 x 4C16S + 4 x 2C16 + 1 x GND2	ALL DI FIELD CABLES + THE #2 PLANT GROUND - UNDER W1; DI CABLES RISE INSIDE W1, #2 TO THE GB1 POST
C2	2	SSTG6	2.469	18.68	8.50	13 x 2C16	DO: P-100A/B SOLENOIDS 12X 2/C + XA-P100 DCS PAIR 1X 2/C - RISES INSIDE W3
C3	1-1/4	SSTG4	1.734	15.82	4.00	5 x 1PR18S	AI SHIELDED PAIRS 5X 1-PR - RISE INSIDE W3; SHIELDS LAND SB1 AT THE W3 FOOT (>= 6 IN FROM P1)
AIR1	1/4 NPT	1/4 NPT BULKHEAD	HELD	9.00	8.50	-	POSITIVE-AIR SUPPLY BULKHEAD, 1/4 IN NPT (H-06) - HOLE HELD, H-14
DRN	DRAIN	AVDR4SS4	0.875	13.00	8.50	-	HOFFMAN AVDR4SS4 VENT DRAIN (TYPE 4X) - BOTTOM ONLY INSTALLATION; 7/8 IN HOLE

BILL OF MATERIALS				
ITEM	QTY	MAKE	MODEL / PART No.	DESCRIPTION
1	1	HOFFMAN	A30HZ412SSLP3PT	ENCLOSURE, TYPE 4X 304 SS, 30H X 24W X 12D, 3-PT LATCH
2	1	HOFFMAN	A30P24	BACK PANEL, 27.00 X 21.00 IN
3	1	ALLEN-BRADLEY	1606-XLE240E	POWER SUPPLY 24VDC 10A 240W (HOLD H-03)
4	1	ALLEN-BRADLEY	5069-L310ER	COMPACTLOGIX 5380 CONTROLLER, 98.1W X 144.0H X 136.8D MM
5	3	ALLEN-BRADLEY	5069-IB16	16 PT 24VDC DI MODULE (22 MM)
6	2	ALLEN-BRADLEY	5069-OB16	16 PT 24VDC DO MODULE, LA+ / LA- FIELD POWER ON ITS OWN RTB
7	1	ALLEN-BRADLEY	5069-IF8 (SERIES B)	8 CH AI 4-20MA SERIES B: SINGLE-ENDED, IN0- TO IN7- INTERNALLY COMMON; DO NOT SUBSTITUTE SERIES A
8	1	N-TRON	306TX	6-PORT ETHERNET SWITCH, 51 W X 78 H X 86 D MM
9	1	C-MORE	CM5-T10W	10.1 IN HMI, BEZEL 268.2 X 195.9 MM, DOOR CUTOUT 235.0 X 179.6 MM (MFR DWG)
10	1	SHADE AIDE	H87A584-4	SHADE AIDE HMI HOOD, BLACK ALUM., 11.5 X 11.56 COVER, SHIPS LOOSE (HOLD H-13)
12	1	PHOENIX CONTACT	2910349 VAL-US-120/40/1+1-FM	SPD 120VAC 1-PH L/N/G: L-N, L-G, N-G, UL 1449 ED.4 TYPE 1, 35.6 MM
15	6	PHOENIX CONTACT	3044102 UT 4	FEED-THROUGH TERMINAL 6.2 MM GREY
17	9	PHOENIX CONTACT	3022218 CLIPFIX 35	END CLAMP 9.5 MM WITH MARKER SLOT
18	1	PHOENIX CONTACT	3047028 D-UT 2,5/10	END COVER 2.2 MM FOR UT 4
20	2	PHOENIX CONTACT	3030365 FBS 20-6	PLUG-IN BRIDGE 20 POS RED - TB3 +24V BUS (HESI SUPPLY SHAFT) BLOCKS 1-20 + 20-39, CHAINED (1 SHARED BLOCK / JOIN)
21	1	PHOENIX CONTACT	ZB 6	MACHINE-PRINTED MARKER STRIPS, EVERY LEVEL NUMBERED FROM 1 (~310: TB3 144, TB4 96, TB5 24, PDB 21, TB1 7)
22	5	PHOENIX CONTACT	KLM-A 1004348	STRIP DESIGNATION CARRIERS - TB1 / TB3 / TB4 / TB5 / PDB (THE ONLY STRIP ID)
23	4	EATON BUSSMANN	BK/GMC-4-R	FUSE 5X20 TIME-DELAY 4 A 32 VDC: PDB F1 F2 F6 F7 - QTY IN EACH; BK/ = CARTON OF 100
27	1	PANDUIT	F1.5X4LG6 + C1.5LG6	WIRE DUCT 1-1/2 X 4 + COVER (DH-T, W1, W3: 19.75 + 15.35 + 15.35 IN FROM ONE 6 FT STICK)
28	1	EATON CROUSE-HINDS	SSTG2	MYERS GROUNDING HUB 3/4 IN, 316 SS (P1)
29	3	EATON CROUSE-HINDS	SSTG4 X1, SSTG6 X1, SSTG7 X1	MYERS GROUNDING HUBS 1-1/4 (C3 AI) / 2 IN (C2 DO) / 2-1/2 IN (C1 DI), 316 SS
30	1	HOFFMAN	AVDR45S4	VENT DRAIN, 304 SS, TYPE 4X, 7/8 IN HOLE, BOTTOM ONLY
31	1	SHOP		BULKHEAD FITTING 1/4 IN NPT, SS
32	1	SHOP		304SS VENTED DIVIDER PLATE
33	1	SHOP		CABLE ANCHORS + LACING
34	1	BURNDY	KC23NSP	SERVIT POST MECHANICAL GND CONNECTOR #2 AWG, SINGLE 3/8-16 STUD, GB1
35	1	SHOP (CU BAR)		CU BUS 1/4 X 1 X 5.70 (GB1)
36	1	SHOP		WIRE / TAGS / DIN RAIL LOT
38	1	SHOP		TUBING MATERIALS
39	1	SHOP		GROUNDING HARDWARE
44	6	ALLEN-BRADLEY	5069-RTB18-SCREW	REMOVABLE TERMINAL BLOCK, 18-PIN SCREW, FOR 5069 I/O - NOT SUPPLIED WITH THE MODULES
45	1	ALLEN-BRADLEY	5069-RTB64-SCREW	CONTROLLER MOD (4-PIN) + SA (6-PIN) SCREW RTB KIT - NOT SUPPLIED WITH THE CONTROLLER
46	1	ALLEN-BRADLEY	1606-XLP15E	POWER SUPPLY 24VDC 0.63A 15W, 22.5 MM - PS2, AI LOOP SUPPLY SEPARATE FROM SA POWER
47	95	PHOENIX CONTACT	3214320 UT 4-PE/L/HESI (5X20)	FUSE MODULAR TERMINAL, 3 LEVELS (HESI FUSE / L / PE), 6.2 MM, BLACK - ONE PER I/O POINT AND PDB WAY
48	80	EATON BUSSMANN	BK/GMA-500-R	FUSE 5X20 FAST 500 MA 32 VDC: TB3 DI 48, TB4 DO 32 (H-27) - QTY IN EACH; BK/ = CARTON OF 100
49	4	PHOENIX CONTACT	TBD (HOLD H-26)	END COVER / SHROUD FOR THE OPEN SIDE OF THE LAST 3214320 (TB3, TB4, TB5, PDB) - 2.2 MM RESERVED
50	1	PANDUIT	F1X4LG6 + C1LG6	WIRE DUCT 1 X 4 + COVER (W2 INTERNAL RISER, DH-T TO PANEL FOOT)
51	1	PANDUIT	F1X2LG6 + C1LG6	WIRE DUCT 1 X 2 + COVER (W4 120VAC RISER - 120VAC ONLY)
52	3	PHOENIX CONTACT	3030271 FBS 10-6	PLUG-IN BRIDGE 10 POS RED - TB3 BLOCKS 39-48 (CHAINED), TB5 BUS 1-8 (CUT TO 8), PDB BUS 1-7 (CUT TO 7)
53	4	PHOENIX CONTACT	3032198 FBS 10-6 BU	PLUG-IN BRIDGE 10 POS BLUE - TB4 RETURN BLOCKS 1-10, 10-19, 19-28 (CHAINED), PDB DC COM 1-7 (CUT TO 7)
54	2	PHOENIX CONTACT	3030242 FBS 3-6	PLUG-IN BRIDGE 3 POS - TB1 L 1-3 AND N 5-7
55	1	SHOP		GROMMET EDGING, NYLON, SLOT SIZE
56	1	PHOENIX CONTACT	3044128 UT 4-PE	PROTECTIVE-CONDUCTOR TERMINAL 6.2 MM GREEN-YELLOW, RAIL-BONDED: TB1-4 INCOMING EGC
57	8	EATON BUSSMANN	BK/GMA-100-R	FUSE 5X20 FAST 100 MA 32 VDC: TB5 AI LOOPS - QTY IN EACH; BK/ = CARTON OF 100
58	1	SHOP		CU BUS 1/4 X 1 X 4.65 (SB1)
59	4	STORM POWER COMP.	1100-A1	BUS-BAR STANDOFF INSULATOR 1 IN HEX X 1 IN, 1/4-20 INSERTS, 600 V (GLASTIC 2165-1A)
60	1	PHOENIX CONTACT	3036961 FBS 5-6 BU	PLUG-IN BRIDGE 5 POS BLUE - TB4 RETURN BLOCKS 28-32 (CHAINED)
61	1	EATON BUSSMANN	BK/GMC-2.5-R	FUSE 5X20 TIME-DELAY 2.5 A: PDB F4 (HMI1)
62	1	EATON BUSSMANN	BK/GMC-2-R	FUSE 5X20 TIME-DELAY 2 A, 32 VDC: PDB F3 (TB3 DI BUS)
63	1	EATON BUSSMANN	BK/GMC-1-R	FUSE 5X20 TIME-DELAY 1 A, 32 VDC: PDB F5 (SW1)
64	4	PANDUIT	TM256-C	SCREW-APPLIED CABLE TIE MOUNT #6 (TAP 6-32 IN THE BACK PANEL) - LACING CORRIDOR LP1

(N/S) = NOT SHOWN ON THE LAYOUT SHEETS (CONSUMABLE / HARDWARE LOT). BALLOONS ON DWGS DEMO01-E110 / DEMO01-E111 / DEMO01-E112 ARE THESE ITEM NUMBERS.
ITEMS 11, 13, 14, 16, 19, 24, 25, 26, 37, 40, 41, 42 AND 43 NOT USED.

WIRING KEY (MTW, UNLESS OTHERWISE NOTED)		
APPLICATION	COLOUR	AWG
POWER - 120VAC (BAY ONLY)		
LINE / NEUTRAL	BLACK / WHITE	14
EQUIPMENT GROUNDS (PSU, SPD, SW1, TB1-4 EGC)	GREEN / YEL	12
BONDS (ENCLOSURE / PANEL STUD)	GREEN / YEL	8
DOOR BOND (G-05)	BRAID	-
INCOMING FEED (BY OWNER)	PER OWNER	PER OWNER
POWER - 24VDC		
PS1 OUTPUT TO PDB-19 / 20 (201 / 202)	BLUE / WHITE-BLUE	12
FUSED BRANCHES + OB16 LA+	BLUE	16
DC COMMON RETURNS, OB16 LA-	WHITE / BLUE	16
TB4 RETURN BUS TO PDB-8	WHITE / BLUE	14
TB5 LOOP +24V FEED / IF8 IN7- TO PS2 0V	BLUE / WHITE-BLUE	16
HMI1 / PLC SA EARTH (RTB LIMIT)	GREEN / YEL	16
G-07 DIVIDER, J-COMG, J-SBG LINK	GREEN / YEL	12
SIGNAL I/O		
DISCRETE INPUTS / OUTPUTS	BLUE	16
ANALOG LOOP RETURN TO IF8 IN+	BLUE	18
ETHERNET	CAT5E SHIELDED CORDSET	-
SHIELD DRAINS (SB1 / TB3 PE)	GREEN / YEL	18

IDENTIFICATION: NO NAMEPLATES ON THIS PANEL. EACH TERMINAL STRIP CARRIES A KLM-A DESIGNATION CARRIER ON ITS HEAD END CLAMP (ITEM 22): TB1, PDB, TB3, TB4, TB5. TERMINAL MARKERS (ITEM 21) NUMBER EVERY TERMINAL 1, 2, 3 (EVERY LEVEL).
WIRE TAGS: HEAT-SHRINK, BOTH ENDS, PER THE WIRE LIST.
THE UL 508A LISTING LABEL IS APPLIED WITH THE LISTING. SITE LABELS - HOLD H-20.

WORKFLOW EVIDENCE

The materials schedule relates selected components to drawing callouts.

Part numbers, quantities, consumables and open selections remain visible for review.

ANONYMIZED SAMPLE

Original client standards, notes and reference lists have been omitted. Identifiers are generic aliases.

Use this sheet to assess workflow depth and deliverable structure. It is not a fabrication instruction.