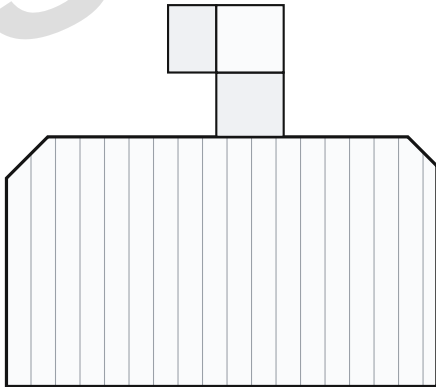


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CONSTRUCTION SET
Project DP-SAMPLE · Rev 1
Issued 10/22/2026

Homeowner residence — cut-corner deck

Pat Homeowner · 100 Sample Lane, Anytown, ST



KEY PLAN — 23'-5" × 13'-7", 314 SQ FT · SEE SHEET A-1 FOR THE DIMENSIONED FRAMING PLAN

PROJECT DATA

DECK SIZE	23'-5" × 13'-7"	JOISTS	2x10 @ 16" o.c.
AREA	314 sq ft, 72 lf perimeter	BEAMS	(2)2x10
HEIGHT ABOVE GRADE	5'-1"	POSTS	6x6 — 5 total
ATTACHMENT	Ledger-attached to existing structure	FOOTINGS	12" dia form 2'-4" on 21" dia × 8" thick pad, 3'-0" total depth
FRAMING	Southern Pine, pressure-treated	GUARDS	36" aluminum
DECKING	Composite	STAIRS	8 risers, 44" wide

SHEET INDEX

A-0	Cover & index	Project identity, key plan, project data
A-1	Framing plan	Joist, beam and stair layout with dimensions
A-2	Foundation plan	Post and footing layout, footing schedule
A-3	Elevation	Heights above grade, guard, post and footing depth
A-4	Materials schedule	Part-numbered take-off keyed to the plans
A-5	General notes	Code basis, structural notes and disclaimer

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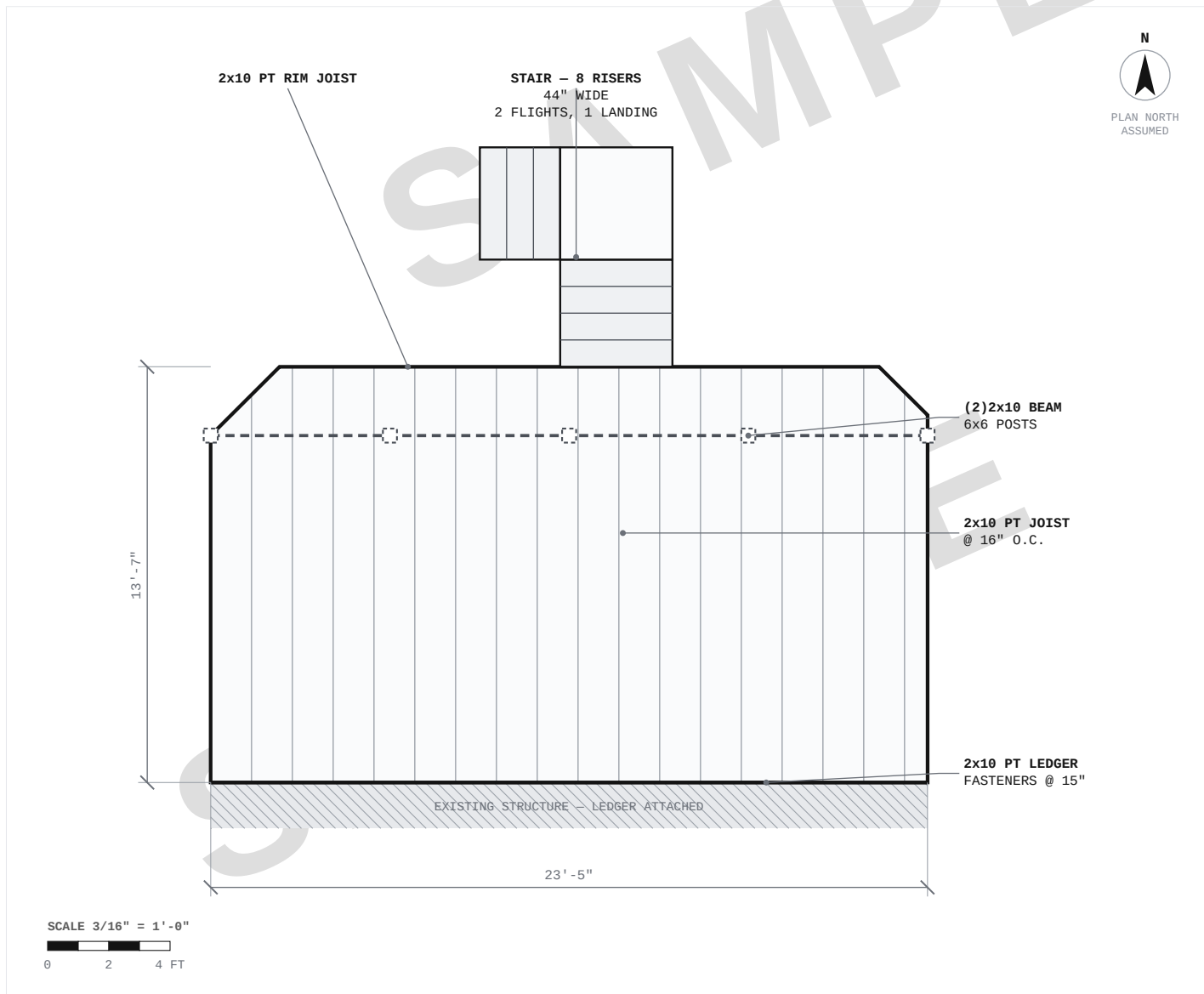
SHEET

A-0

COVER & INDEX
SHEET 1 OF 6

FRAMING PLAN

SCALE 3/16" = 1'-0"



— DECK FRAMING / RIM — JOISTS 2X10 @ 16" O.C. - - - BEAM BELOW (HIDDEN) □ POST BELOW □ STAIRS

□ STAIR LANDING □ EXISTING STRUCTURE

PLAN NOTES

- Total area 314 sq ft, perimeter 72 lf. Ledger-attached to existing structure.
- Ledger fasteners at 15" on center per DCA 6-2015 Table 5, over continuous flashing.
- Do not scale this drawing — use figured dimensions and verify site conditions before building.

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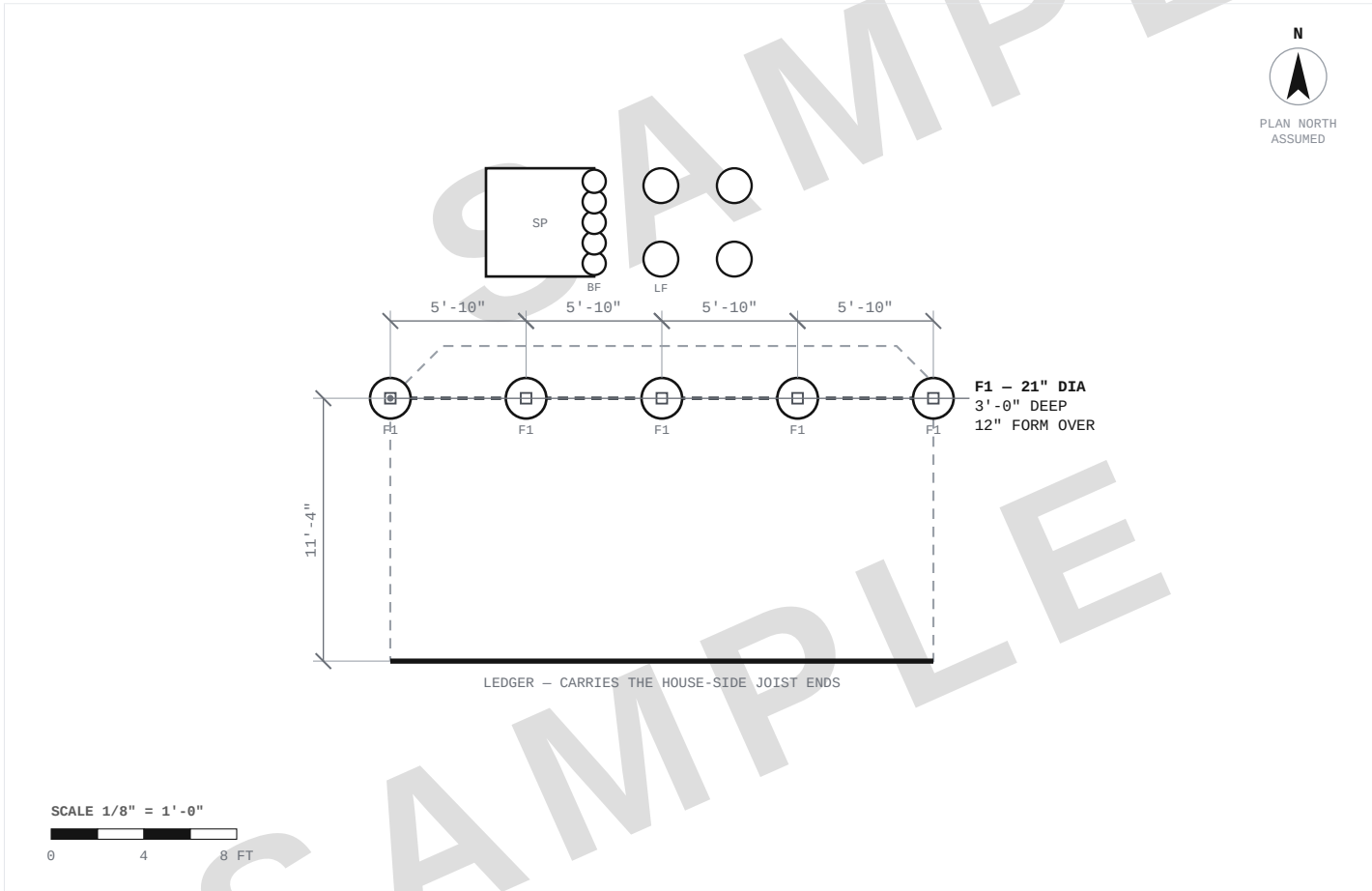
SHEET

A-1

FRAMING PLAN
SHEET 2 OF 6

FOUNDATION PLAN

SCALE 1/8" = 1'-0"



FOOTING SCHEDULE

TAG	QTY	PIER	POST	BASIS
F1	5	21" dia × 8" thick pad, then 12" dia round pier form 2'-4" to grade (3'-0" total depth)	6x6 PT on standoff base	DCA 6-2015 Table 4
BF	5	12" dia × 6" thick footing at least 12" below grade or below the frost line, then 12" dia round pier form	4x4 PT base post where the stair meets grade	DCA 6-2015 p.22, Figure 34
LF	4	18" dia × 7" thick pad, then 12" dia round pier form to grade (3'-0" total depth)	PT landing post on standoff base	DCA 6-2015 Table 4 (landing as a non-ledger deck, p.20)
SP	1	4'-8" × 4'-8" × 4" slab on grade — the stair's ground landing pad	—	Trade practice — slab at the drawn size

Piers sized assuming 1,500 psf soil bearing and 2,500 psi concrete. Bear all footings at or below the local frost depth and on undisturbed soil — frost depth and bearing capacity are governed by your AHJ. Posts spaced at 5'-10" o.c. along each support line. Verify pier locations against site obstructions and utility locates before excavating.

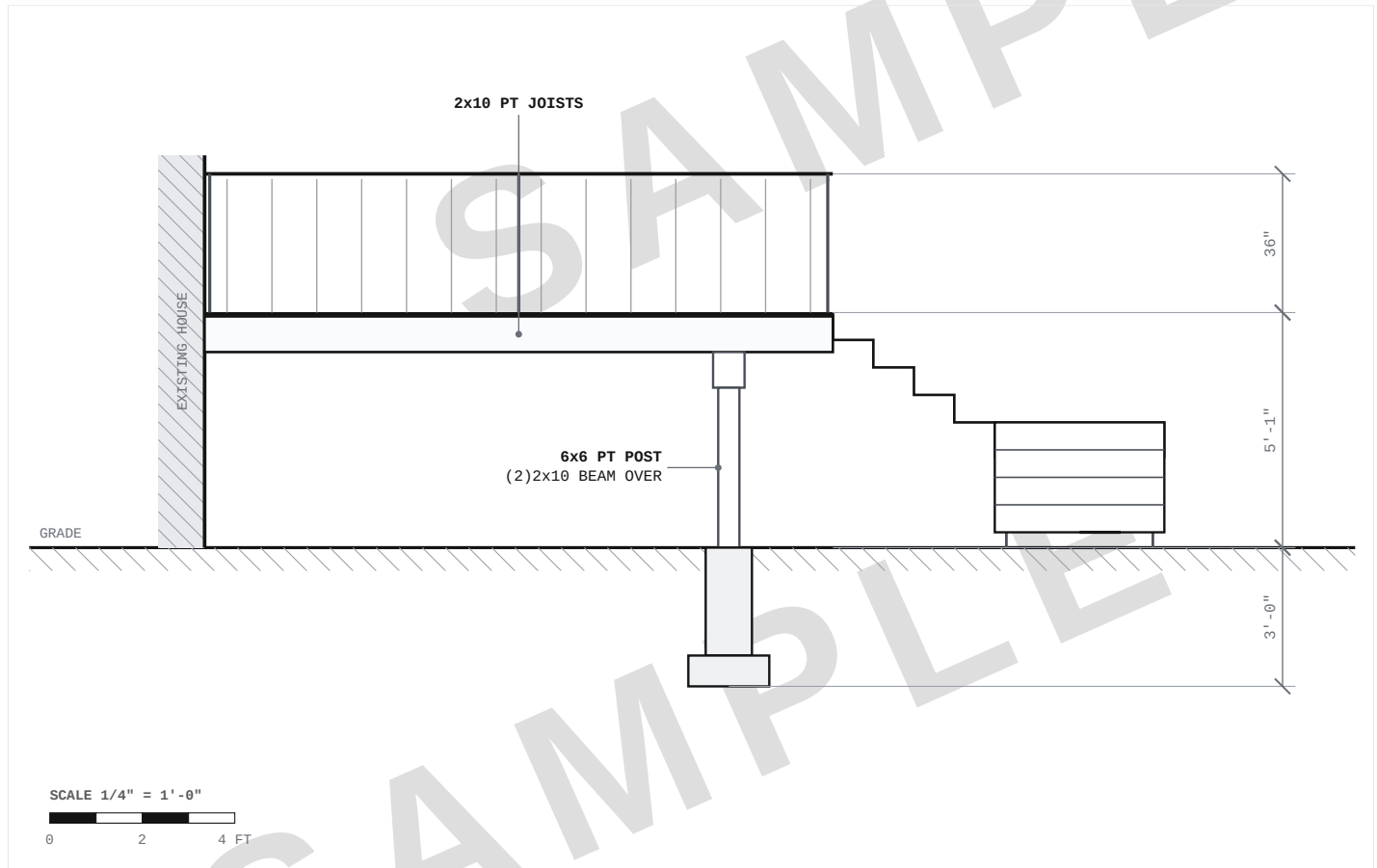
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SHEET
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FOUNDATION PLAN
SHEET 3 OF 6

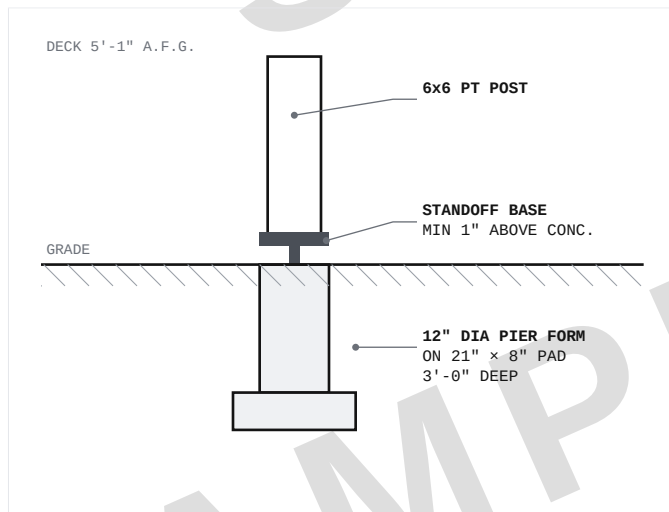
ELEVATION

SCALE 1/4" = 1'-0"



TYPICAL POST + FOOTING

N.T.S.



ELEVATION NOTES

1. Grade is drawn level for clarity; verify actual site grade and adjust post lengths in the field.
2. Deck surface sits 5'-1" above grade at the primary level.
3. Guards 36" above the deck surface — IRC R312 requires at least 36" where the walking surface is more than 30" above grade.
4. Stair shown with 8 risers at 7.13" rise and 10.5" run, in 2 flights with a landing at 2'-9" above grade, to a 4" concrete landing pad; IRC R311.7.5.1 caps risers at 7.75" and IRC R311.7.5.2 requires treads of at least 10".
5. Piers 12" dia on 21" dia x 8" thick pads, bearing 3'-0" below grade — confirm frost depth with your AHJ.

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SHEET

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ELEVATION
SHEET 4 OF 6

MATERIALS SCHEDULE

62 PARTS

PART	DESCRIPTION	QTY
DECK BOARDS		
DB-01	Composite Deck Board — Grooved field, 5.5" × 16' (waste incl.)	43 ea
DB-02	Composite Deck Board — Square-edge perimeter / picture frame, 5.5" × 16' (waste incl.)	5 ea
DB-03	Fascia / Rim Trim — 1×12 × 12'	5 ea
FASTENERS		
FS-01	Hidden Deck Clips (Trex Hideaway-style; 2.4 per sq ft of grooved field at 16" OC, this deck 16"; 90 per bucket)	8 bucket
FS-02	Deck Screws + Color Plugs — square-edge boards face-screwed at every joist, one plug per screw (2 per foot of board at 16" OC, this deck 16" — trade practice; plus 2 per stringer at every stair tread)	214 ea
FS-03	Framing Nails — 16d Sinker (general face and toe nailing; hanger and post-base nails are their own lines)	7 lb
FS-04	Joist-Hanger Nails — 3" hot-dip galvanized, hand drive, 12 per hanger (24 per double hanger; 350 per box — shop practice)	2 box
FS-05	Post-Base Gun Nails — 1-1/2" collated connector nails, 8 per post base (500 per box — shop practice)	1 box
FS-06	Structural Screws — 5" (GRK RSS-style or eq. — verify part), one every 16" along every built-up seam (50 per box; 75 lf of seam: built-up beam plies + doubled outer frame — shop practice)	2 box
FS-07	Wood Deck Screws — 3-1/2" exterior, 6 per joist framed: a pair at each end, a pair at the blocking (250 per box — shop practice)	1 box
FS-08	Fascia Screws + Color Plugs — 2 per framing member behind the trim, one plug per screw (72 lf of fascia at this deck's 16" OC — trade practice)	107 ea
JOISTS		
JT-01	2x10 Pressure-Treated Joist @ 16" OC × 14' sticks (Southern Pine No. 2; main deck 13.6' run — 21 joists)	21 ea
JT-02	Rim Joist — 2x10 PT × 16' (covers 96 lf)	6 ea
JT-03	Joist Blocking — 2x10 PT × 16' (covers 24 lf)	2 ea
JT-04	Guard-Post Blocking — 2x10 PT × 16' sticks (yields 24 blocks @ 14.5", 2 per guard post)	2 ea
BEAMS		
BM-01	(2)2x10 Pressure-Treated Beam (per DCA6-2015 Table 3A) — 2x10 × 16' sticks (Southern Pine No. 2, Table 3A Southern Pine column; 2 plies × 1 line @ 23.4' = 47 lf of ply; splices land over posts and are not laid out here)	3 ea
POSTS		
PT-01	6x6 Pressure-Treated Post × 8' (Southern Pine No. 2, Table 4 Southern Pine column; cut ~3.5': 5.1' deck height less 19.5" of deck board + joist + dropped beam, bearing on a post base at the pier top — shortest stock that covers it, trade practice)	5 ea
HARDWARE		
HW-01	Joist Hangers — LUS Series	17 ea
HW-02	Post Bases — ABA Series	5 ea
HW-03	Joist Hangers — LUS Series, double (2-ply), at the doubled outer joists (verify part)	2 ea

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SHEET

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MATERIALS SCHEDULE
SHEET 5 OF 6

PART	DESCRIPTION	QTY
HW-04	Post Caps — beam to 6x6 post, sized to the (2)2x10 beam (one per deck post, DCA6-2015 p.10, Figure 8B — verify part; fasteners per the cap maker, not on this sheet)	5 ea
HW-05	Diagonal Corner Braces — 2x4 PT × 8' (2 braces per stick, one at each end post of every beam line, 2'-0" down the post and 2'-0" along the beam; braces × 2 — DCA6-2015 p.10, Figure 10)	1 ea
HW-06	Brace Lag Screws — 1/2" with washers, 2 per brace (braces × 2 — DCA6-2015 p.10, Figure 10)	4 ea
HW-07	Ledger Lag Bolts — 1/2" × 3-1/2" (at the DCA6-2015 Table 5 spacing for this deck, 15" OC along 24 lf of ledger, plus the closing bolt; Table 5 fn.1 — the tip must pass the inside face of the band joist, so check the length against your own assembly)	20 ea
HW-08	Lateral-Load Hold-Down (min. 1,500 lb ASD; e.g. Simpson DTT2Z or eq. — verify part)	2 ea
HW-09	Continuous Ledger Flashing + Caulk — 10' stick/roll (keeps water off the house band joist, DCA6-2015 Table 5 fn.3) (covers 24 lf of ledger)	3 ea
CONCRETE		
CN-01	Stair Base Footings — 12" pier form + post base × 5 (on a 12" dia × 6" thick footing at least 12" below grade or below the frost line, DCA6-2015 p.22, Figure 34)	5 ea
CN-02	Stair Base Footing Concrete — 80 lb bags (5 × 12" dia × 6" footing with the 12" form above it, 3' deep)	20 bag
CN-03	Stair Landing Footings — 12" pier form + post base × 4 (18" dia × 7" thick pad × 4 — DCA6-2015 Table 4 LB<=6'/LJ<=10' — landing built as a non-ledger deck, p.20)	4 ea
CN-04	Stair Landing Footing Concrete — 80 lb bags (Table 4 pad × 4 with the 12" form above each, 3' deep; 18" dia × 7" thick pad × 4 — DCA6-2015 Table 4 LB<=6'/LJ<=10' — landing built as a non-ledger deck, p.20)	20 bag
CN-05	Stair Landing Pad — 80 lb bags (4.7' × 4.7' × 4")	13 bag
CN-06	Footing — 12" round pier form × 5 (on 21" dia × 8" thick pad, DCA6-2015 Table 4)	5 ea
CN-07	Concrete Mix — 80 lb Bag (Sakrete)	29 bag
CN-08	Drainage Gravel — 3/4" stone, half a bag per pier in the bottom of the hole (rounded up to the bag — shop practice)	7 bag
CN-09	Rebar — 1' lengths, 4 per pier (shop practice)	56 ea
CN-10	Anchor-Rod Holders — 2 per pier, carrying the post-base anchor while the pier cures (shop practice)	28 ea
HARDWARE		
HW-10	Post-Base Anchors — concrete screw or wedge anchor, 1 per post base into the cured pier (size to the base you buy — shop practice)	14 ea
HW-11	Joist Tape — 1-5/8" × 50' roll, over every single-ply joist and rim top (covers 279 lf — trade practice)	6 roll
HW-12	Joist Tape — 3-1/8" × 50' roll, over the doubled outer frame and every built-up beam (covers 75 lf — trade practice)	2 roll
RAILINGS		
RL-01	Aluminum Railing — 6' section	10 ea
RL-02	Level-Rail Newel Post (36" guard height)	12 ea
RL-03	Post Base / Top Rail Connectors	24 ea
RL-04	Stair-Rail Newel Post — 34" guard height at the nosing line (1 per sloped rail run, at the foot: the head lands on the deck's own guard post — trade practice)	4 ea

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SHEET**A - 4**

MATERIALS SCHEDULE
SHEET 5 OF 6

PART	DESCRIPTION	QTY
RL-05	Stair Rail Swivel Brackets — 2 per sloped rail run, one at the head and one at the foot (trade practice)	8 ea
STAIRS		
ST-01	Stair Stringers — 2x12 PT × 8' (2 flights × 5 per 44" flight @ ~11" o.c. — composite treads: min 4, max 12" o.c., Trex stair chart — verify your product; 8 risers total)	10 ea
ST-02	Stair Stringer Hangers — sloped, one per stringer at each flight top (min. 625 lb vertical capacity, DCA6-2015 Figure 31 — verify part)	10 ea
ST-03	Stair Base Posts — 4x4 PT × 8' (one under each inner stringer where the stair meets grade, cut ~3.4' from the footing to the bottom tread; the stringers bear on a 2x4 bearing block on the post, never on the pad — DCA6-2015 p.22, Figure 34)	3 ea
ST-04	Stair Guard Base Posts — 4x4 PT × 8' (the stair guard post at each outer stringer where the stair meets grade, cut ~6.3' from the footing to the top of the 34" stair guard; the stringer is bolted to it and bears on a 2x4 bearing block on it, never on the pad — DCA6-2015 p.22, Figure 34)	2 ea
ST-05	Stair Base Bearing Blocks — 2x4 PT × 8' (yields 8 blocks of 12", one per base post, each fastened with 8 #8 wood screws 3-1/2" long or 16d threaded nails, DCA6-2015 Figure 34)	1 ea
ST-06	Stair Base Block Screws — #8 wood screws, 3-1/2" long, 8 per bearing block (DCA6-2015 Figure 34)	40 ea
ST-07	Stair Base Bolts — 1/2" through-bolts with washers, 2 per base post (required where the post is a stair guard post; otherwise two #8 wood screws 3-1/2" long — DCA6-2015 Figure 34)	10 ea
ST-08	Stair Treads — Composite Deck Board 12" × 10.5"	7 ea
ST-09	Stair Riser Boards (incl. top riser per flight)	9 ea
ST-10	Stair Skirt Board — 1×12 × 12' (2 per flight, outside each outer stringer, cut to the stringer; covers 16 lf — trade practice)	2 ea
ST-11	Stair Blocking — 2x10 PT × 16' (covers 8 lf: one 44" block behind the top riser of 2 flights, stringer-hanger backing — trade practice)	1 ea
ST-12	Stair Railing — sloped, both sides (Aluminum)	15 lf
ST-13	Stair Landing Decking — 1 platform	14 sq ft
ST-14	Stair Landing Framing — 2x10 PT × 16' (covers 30 lf: 4 platform joists @ 16" OC + 15 lf rim, 1 platform)	2 ea
ST-15	Stair Landing Posts — 6x6 PT × 8' (longest cut ~1.9': platform height less 10.25" of deck board + joist — shortest stock that covers it, trade practice)	4 ea
ST-16	Stair Landing Post Caps — rim to 6x6 post (one per landing post, DCA6-2015 p.10, Figure 8B; landing built as a non-ledger deck, p.20 — verify part; fasteners per the cap maker, not on this sheet)	4 ea
ST-17	Stair Landing Guard Rail (Aluminum)	8 lf
ST-18	Stair Landing Fascia Skirt — 1×12 × 12'	1 ea

62 parts, keyed to the plans. Quantities include the configured waste factor — confirm counts against site conditions before ordering. Substitutions must match or exceed the specified size, species and corrosion resistance.

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MATERIALS SCHEDULE
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PART	DESCRIPTION	QTY
LUMBER ORDER (PRESSURE-TREATED)		
	2x10 × 14'	21 ea
	2x10 × 16'	16 ea
	2x12 × 8'	10 ea
	2x4 × 8'	2 ea
	4x4 × 8'	5 ea
	6x6 × 8'	9 ea

Stock lengths are the next size up from the cut, which is trade practice rather than a code requirement; splices in built-up beams land over posts and are not laid out on these sheets.

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MATERIALS SCHEDULE
SHEET 5 OF 6

GENERAL NOTES

PROJECT DP-SAMPLE · REV 1

CODE CHECK

- Verify — MFR-STAIR-STRINGER-OC: Composite treads need closer stringers than wood, and DCA 6 publishes no value for them. The stringers are laid 5 per 44" flight at 12" on center at most, at least 4 — the Trex stair chart's value for Signature and Transcend 1x6 and Transcend and Select 2x6 treads (Trex 2024 Decking Installation Guide, p.35). Trex Select and Enhance 1x6 treads need 9" on center, and other makers publish their own. Verify the selected product's stair installation guide and add stringers if it asks for closer spacing.

CODE BASIS

- Member sizes on this set are screened against the AWC DCA 6-2015 Prescriptive Residential Wood Deck Construction Guide (based on the 2015 IRC) and referenced IRC 2021 sections; quantities are takeoff arithmetic and trade practice, which those documents do not publish.
- Design load basis: DCA 6-2015 Tables 2, 3A and 4 (joists, beams, posts and footings) assume 40 psf live plus 10 psf dead, No. 2 grade lumber and wet service, with joist and beam spans held to L/360 deflection; Table 5 (ledger fasteners) prints the same 40 + 10 psf loads.
- Local amendments vary. The Authority Having Jurisdiction and a licensed design professional govern the final design.

FRAMING

- Framing lumber Southern Pine, preservative-treated. Joist and beam spans are read from the DCA 6-2015 Southern Pine column (Tables 2 and 3A), and post heights for Southern Pine (Table 4).
- Joists 2x10 pressure-treated at 16" on center, hung or bearing per plan.
- Beams (2)2x10 pressure-treated on 6x6 posts, sized from DCA 6-2015 Table 3A.
- Ledger fastened at 15" on center per DCA 6-2015 Table 5, over continuous flashing, with lateral-load hold-downs in at least two locations within 2 ft of the edge of the deck, each with an allowable stress design capacity of at least 1,500 lb (DCA 6-2015 p.17).
- All hangers, straps, post bases and fasteners in contact with preservative-treated lumber to be hot-dip galvanized (G185) or stainless, per the hardware manufacturer.
- Solid blocking at guard posts (2 per post) and at mid-span where required.

FOUNDATION

- Footings 21" dia × 8" thick spread pads bearing 3'-0" below grade, sized from DCA 6-2015 Table 4, with 12" diameter piers from the pad to grade.
- Table basis: 1,500 psf presumptive soil bearing and 2,500 psi concrete.
- Bear on undisturbed soil at or below the local frost depth. Frost depth, bearing capacity and any required inspections are governed by the Authority Having Jurisdiction.
- Locate utilities before excavating.

GUARDS + STAIRS

- Guards required where the walking surface is more than 30" above grade (IRC R312.1), minimum 36" high (IRC R312.1.2); some jurisdictions require 42".
- Stair risers maximum 7.75" (IRC R311.7.5.1) and treads minimum 10" (IRC R311.7.5.2); within a flight, the tallest riser may exceed the shortest by no more than 3/8" (IRC R311.7.5.1).
- Handrails required on stairs with four or more risers (IRC R311.7.8).

DRAWING NOTES

- Do not scale these drawings — use figured dimensions. Sheets print true to the scale noted on each view when printed at 100% on 8-1/2" × 11" paper.
- Verify all dimensions, elevations and site conditions before ordering material or beginning work.
- Dimensions are to the framing face unless noted otherwise.

DISCLAIMER

Estimate only — not an engineered design. Spans and sizes are screened against the AWC DCA 6-2015 / IRC prescriptive baseline at 40 psf live + 10 psf dead load; quantities are takeoff arithmetic and trade practice, which those documents do not publish. Local codes and amendments vary; your Authority Having Jurisdiction (AHJ) and a licensed design professional govern. Verify everything with a permit and a licensed pro before ordering or building.

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GENERAL NOTES
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