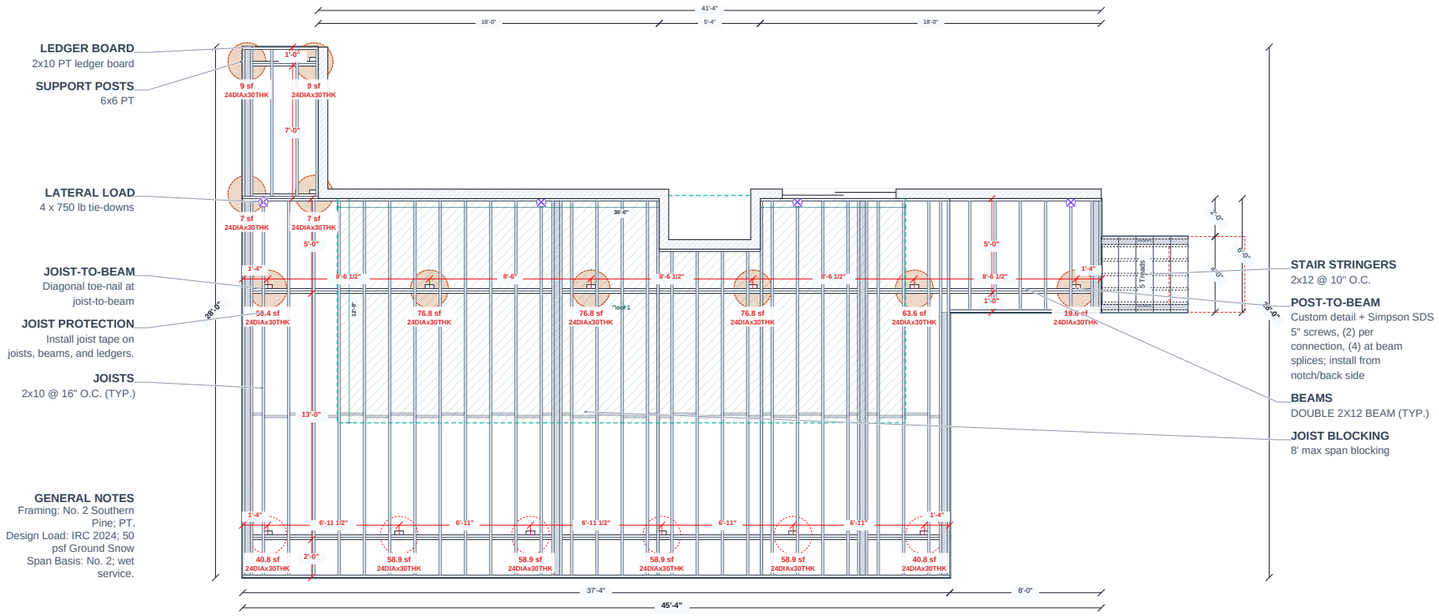


Company

Sample Builder

Customer

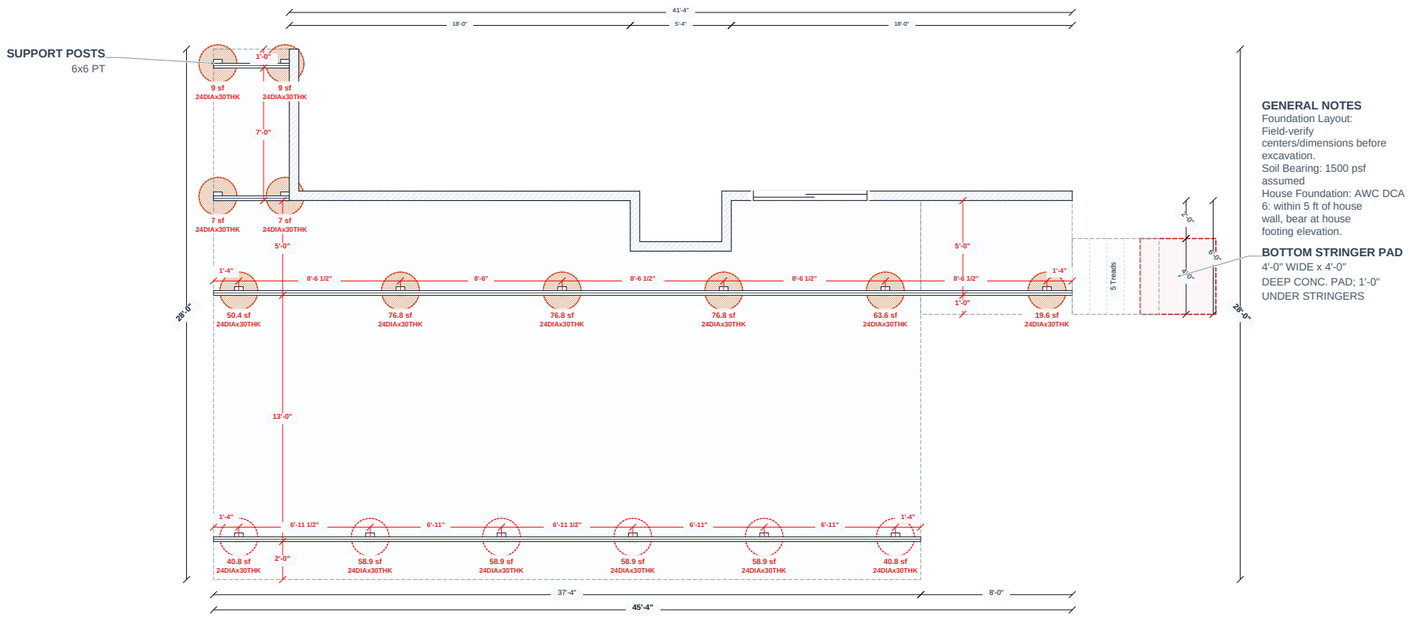
Covered deck with right-side stairs

View
Framing View

Scale
1/8" = 1'-0" @ Tabloid

Sheet
1 of 10

Date
10/15/2026



GENERAL NOTES
Foundation Layout: Field-verify centers/dimensions before excavation.
Soil Bearing: 1500 psf assumed
House Foundation: AWC DCA 6: within 5 ft of house wall, bear at house footing elevation.

BOTTOM STRINGER PAD
4'-0" WIDE x 4'-0" DEEP CONC. PAD; 1'-0" UNDER STRINGERS

Company

Sample Builder

Customer

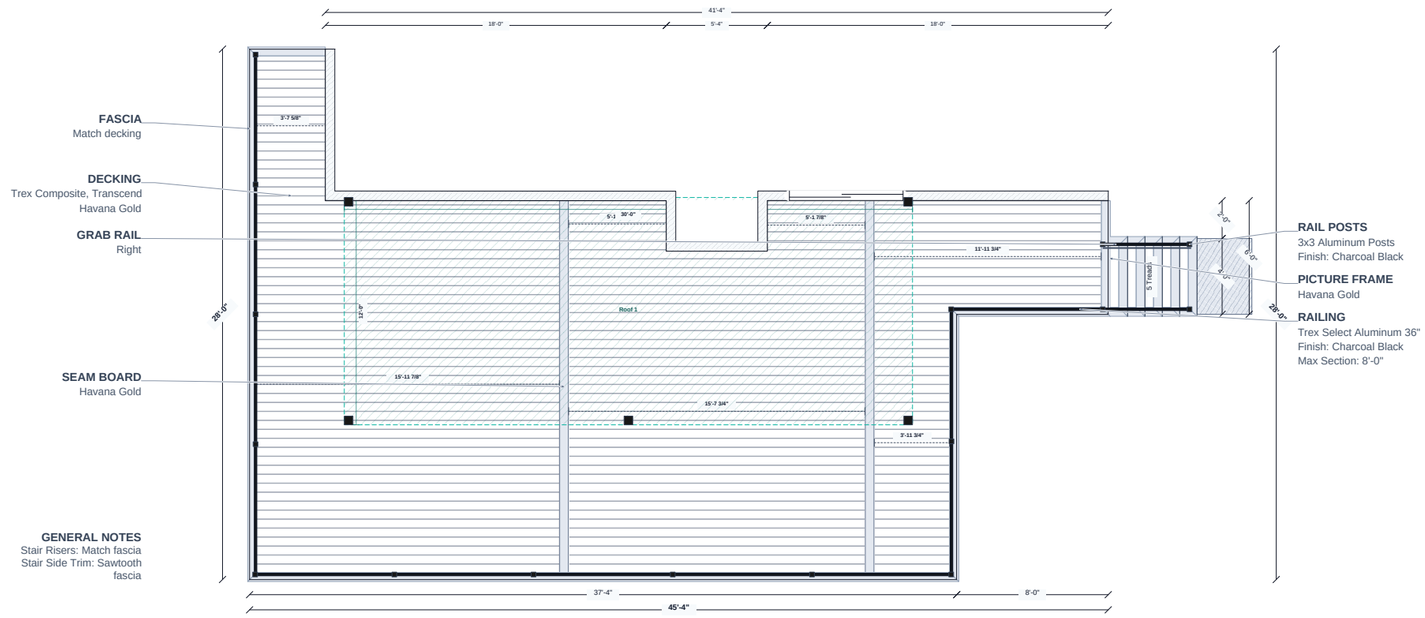
Covered deck with right-side stairs

View
Foundation Plan

Scale
1/8" = 1'-0" @ Tabloid

Sheet
2 of 10

Date
10/15/2026



FASCIA
Match decking

DECKING
Trex Composite, Transcend
Havana Gold

GRAB RAIL
Right

SEAM BOARD
Havana Gold

GENERAL NOTES
Stair Risers: Match fascia
Stair Side Trim: Sawtooth fascia

RAIL POSTS
3x3 Aluminum Posts
Finish: Charcoal Black

PICTURE FRAME
Havana Gold

RAILING
Trex Select Aluminum 36"
Finish: Charcoal Black
Max Section: 8'-0"

Company

Sample Builder

Customer

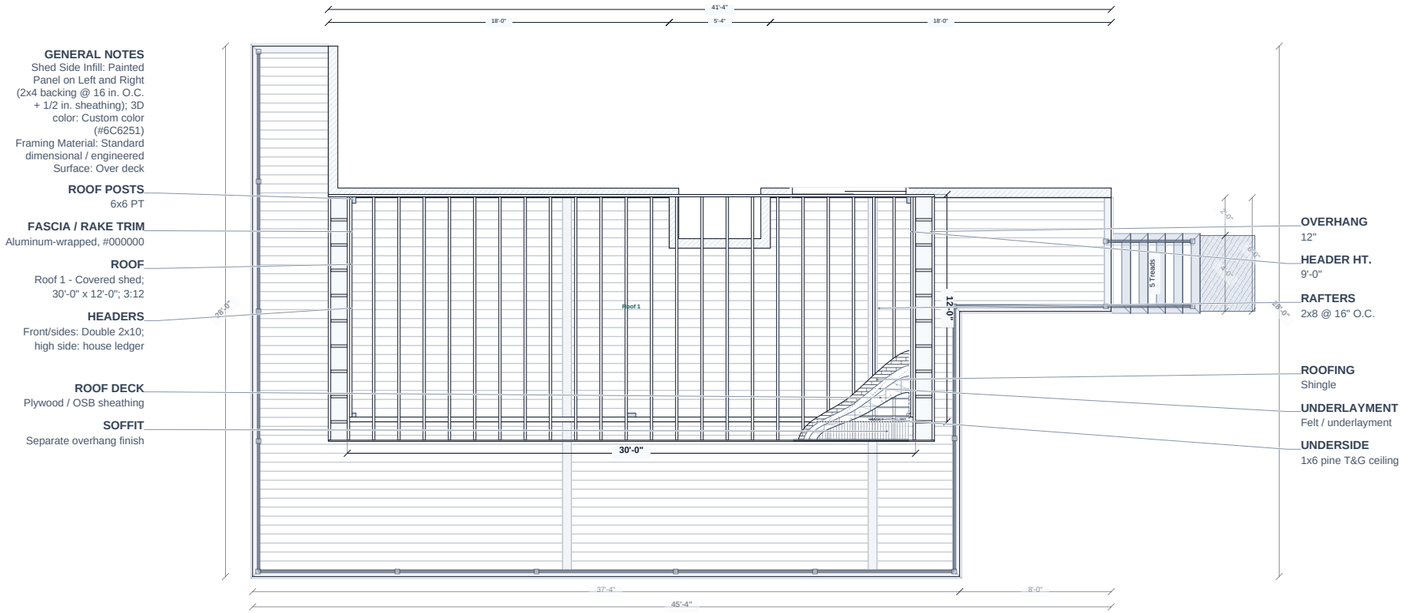
Covered deck with right-side stairs

View
Decking View

Scale
1/8" = 1'-0" @ Tabloid

Sheet
3 of 10

Date
10/15/2026



GENERAL NOTES
Shed Side Infill: Painted Panel on Left and Right (2x4 backing @ 16 in. O.C. + 1/2 in. sheathing); 3D color: Custom color (#6C6251)
Framing Material: Standard dimensional / engineered
Surface: Over deck

ROOF POSTS
6x6 PT

FASCIA / RAKE TRIM
Aluminum-wrapped, #000000

ROOF
Roof 1 - Covered shed; 30'-0" x 12'-0"; 3:12

HEADERS
Front/sides: Double 2x10; high side: house ledger

ROOF DECK
Plywood / OSB sheathing

SOFFIT
Separate overhang finish

OVERHANG
12"

HEADER HT.
9'-0"

RAFTERS
2x8 @ 16" O.C.

ROOFING
Shingle

UNDERLAYMENT
Felt / underlayment

UNDERSIDE
1x6 pine T&G ceiling

Company

Sample Builder

Customer

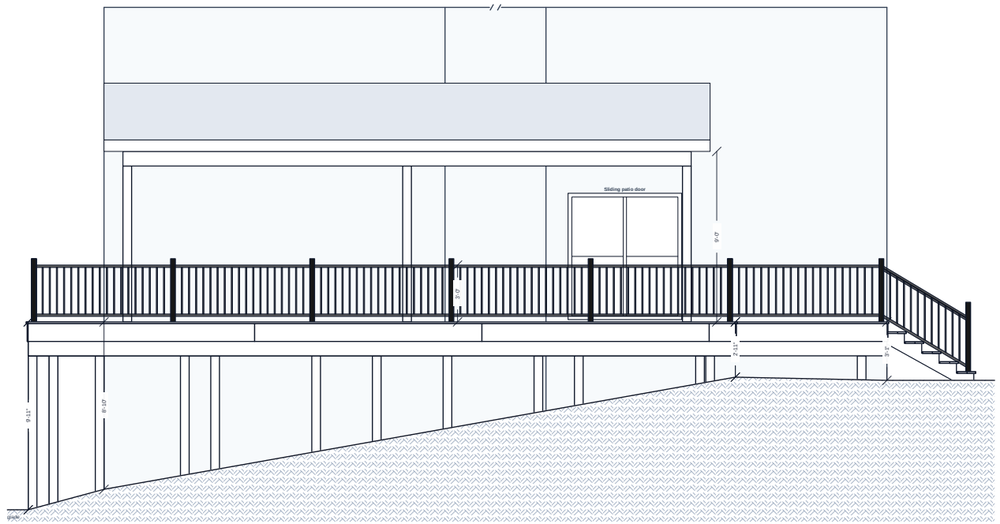
Covered deck with right-side stairs

View
Roofing View

Scale
1/8" = 1'-0" @ Tabloid

Sheet
4 of 10

Date
10/15/2026



Company

Sample Builder

Customer

Covered deck with right-side stairs

View

Front Elevation

Scale

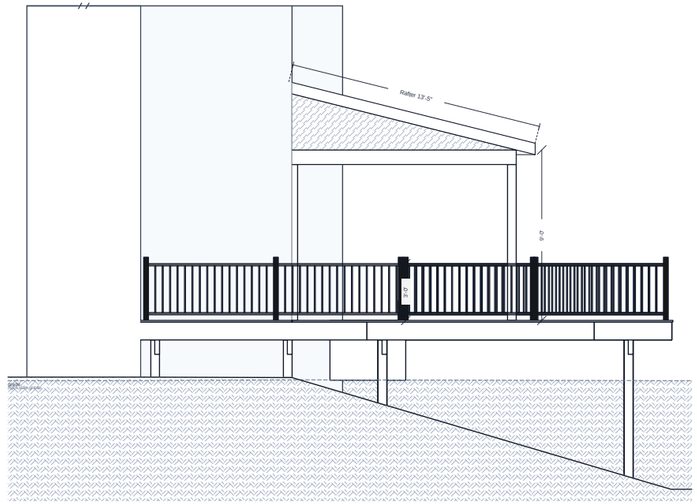
1/8" = 1'-0" @ Tabloid

Sheet

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Date

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Company

Sample Builder

Customer

Covered deck with right-side stairs

View

Left Elevation

Scale

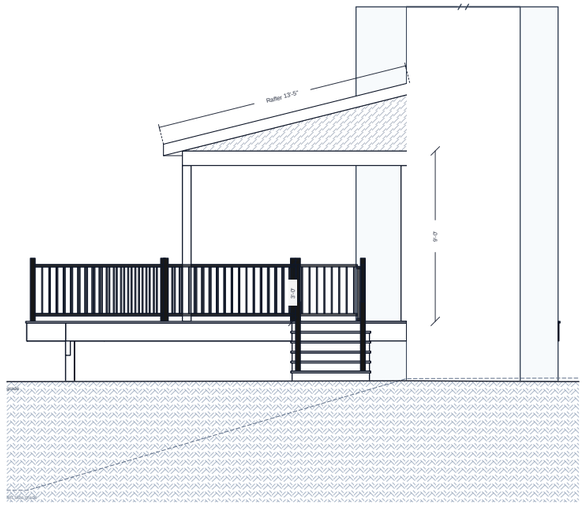
1/8" = 1'-0" @ Tabloid

Sheet

6 of 10

Date

10/15/2026



Company

Sample Builder

Customer

Covered deck with right-side stairs

View
Right Elevation

Scale
1/8" = 1'-0" @ Tabloid

Sheet
7 of 10

Date
10/15/2026

Material Takeoff (1 of 2)

DECK AREA	STAIR AREA	TOTAL SURFACE	FOOTINGS	FOOTING CONCRETE	RAIL LENGTH	RAIL POSTS
823.5 sf	22.1 sf	845.6 sf	16	4.65 yd3	96.4 lf	16

Takeoff Basis

Item	Qty	Unit	Notes
Wood framing grade: No. 2	-	note	No. 2 standard dimensional PT deck and stair/ramp framing. Span basis: No. 2, wet service. Engineered beams retain their product grade.

Framing Lumber / Stock Lengths

Item	Qty	Unit	Notes
2x10 PT bumpout back member - 8'	1	pcs	
2x10 PT bumpout side joist - 20'	2	pcs	
2x10 PT front rim - 8'	1	pcs	Stock cut plan: 20'-0" + 17'-4". Stock optimized across 2 runs. Takeoff Debug shows nominal splice locations; align field splices with supported manufacturer connections.
2x10 PT front rim - 18'	1	pcs	Stock cut plan: 20'-0" + 17'-4". Stock optimized across 2 runs. Takeoff Debug shows nominal splice locations; align field splices with supported manufacturer connections.
2x10 PT front rim - 20'	1	pcs	Stock cut plan: 20'-0" + 17'-4". Stock optimized across 2 runs. Takeoff Debug shows nominal splice locations; align field splices with supported manufacturer connections.
2x10 PT full-depth blocking - 16'	1	pcs	36 mid-span cuts, 32.71 lf; 1.29 lf stock offcut. Match joist material.
2x10 PT full-depth blocking - 18'	1	pcs	36 mid-span cuts, 32.71 lf; 1.29 lf stock offcut. Match joist material.
2x10 PT joist - 8'	12	pcs	
2x10 PT joist - 20'	35	pcs	
2x10 PT ledger - 8'	1	pcs	Stock cut plan: 20'-0" + 14'-0" + 7'-4". Takeoff Debug shows nominal splice locations; align field splices with supported manufacturer connections. Merged ledger run across 2 aligned bays.
2x10 PT ledger - 14'	1	pcs	Stock cut plan: 20'-0" + 14'-0" + 7'-4". Takeoff Debug shows nominal splice locations; align field splices with supported manufacturer connections. Merged ledger run across 2 aligned bays.
2x10 PT ledger - 20'	1	pcs	Stock cut plan: 20'-0" + 14'-0" + 7'-4". Takeoff Debug shows nominal splice locations; align field splices with supported manufacturer connections. Merged ledger run across 2 aligned bays.
2x10 PT rear rim - 8'	1	pcs	
2x12 PT beam ply - 8'	4	pcs	
2x12 PT beam ply - 10'	4	pcs	Beam splice plan: seams over interior support posts at 15'-2", 29'-1". Beam splice plan: seams over interior support posts at 9'-10", 26'-11".
2x12 PT beam ply - 14'	2	pcs	Beam splice plan: seams over interior support posts at 15'-2", 29'-1".
2x12 PT beam ply - 16'	2	pcs	Beam splice plan: seams over interior support posts at 15'-2", 29'-1".
2x12 PT beam ply - 18'	2	pcs	Beam splice plan: seams over interior support posts at 9'-10", 26'-11".
2x12 PT beam ply - 20'	2	pcs	Beam splice plan: seams over interior support posts at 9'-10", 26'-11".
2x4 PT stair picture-frame blocking - 8'	2	pcs	
6x6 PT support post - 8'	16	pcs	
Flat blocking allowance - single picture frame	47.13	lf	4 support runs; 2x4 flat shown. Support-run LF only; select purchase lumber.
Flat blocking allowance - single seam	39.5	lf	2 support runs; 2x4 flat shown. Support-run LF only; select purchase lumber.

Decking / Stock Lengths

Item	Qty	Unit	Notes
Trex Transcend Havana Gold, 5/4x6 grooved - 12'	23	pcs	
Trex Transcend Havana Gold, 5/4x6 grooved - 16'	86	pcs	
Trex Transcend Havana Gold (seam/breaker), 5/4x6 square-edge - 20'	2	pcs	
Trex Transcend Havana Gold, 5/4x6 square-edge - 20'	5	pcs	Stair treads.
Trex Transcend Havana Gold (picture-frame), 5/4x6 square-edge - 20'	6	pcs	28'-3" picture-frame run (with overhang) exceeds 20' stock; splice over blocking and verify location. 37'-7" picture-frame run (with overhang) exceeds 20' stock; splice over blocking and verify location.
11.375 x 0.56 in Trex Transcend fascia - Havana Gold (fascia) - 12'	10	pcs	Source boards for deck fascia and stair sides. 14 installed cuts total across this product group, 108.24 lf. Cuts share compatible stock with 1/8 in saw kerf between length cuts. Stock: 12 ft. Verify supplier availability and installation details.
1/2x8 composite stair riser board - Trex Transcend - Havana Gold - 12'	3	pcs	8" nominal risers from 12' stock: 3 boards / 5 @ 4'-1"; top riser from fascia.

Stair-Specific Items

Item	Qty	Unit	Notes
2x12 PT stair stringer - 8'	7	pcs	
Stair 1: 4.0' wide, 5 treads	1	ea	7 stringers @ 10" O.C.; picture-frame: 2 blocking runs; treads + overhang; nominal 8" risers (7.25" actual); top riser from fascia.
Stair 1: concrete landing pad	16	sq ft	4'-0" wide x 4'-0" deep plan allowance (1'-0" under bottom stringers; 3'-0" beyond stair). Specify slab thickness / edges.

Railing

Item	Qty	Unit	Notes
Trex Select Aluminum level rail kit - 8'-0"	12	kits	Cuts: 1 @ 8'-0", 5 @ 7'-4", 2 @ 7'-0", 4 @ 6'-10"; infill included.
Trex Select Aluminum stair rail kit - 6'-0"	2	kits	Cuts: 2 @ 5'-3"; infill included.
3x3 Aluminum Posts	14	ea	
3x3 Aluminum Posts - longer stair rail post	2	ea	Downhill/intermediate posts +4"; upper landing post standard.
Surface-mounted guard-post connection allowance	16	sets	One allowance per modeled metal guard post, including stairs. Specify selected base fasteners, washers/back plate, blocking and block attachments per actual manufacturer/project detail. The surface-post reference drawing does not select exact hardware or blocking cuts; stair and corner supports require their own detail.
Stair grab rail	1	ea	4.58 lf total; connectors listed separately.
90-degree grab rail return	2	ea	One at each non-wood grab-rail end.

Concrete + Footings

Item	Qty	Unit	Notes
Concrete footing count	16	ea	Includes 16 deck support + 0 stair support
Concrete volume	4.65	cu yd	210 x 80-lb bags or 280 x 60-lb bags
Concrete basis	1	note	Deck: configured footing sizes and project thickness.
Stair concrete landing pad area	16	sq ft	Plan area only; pad concrete volume excluded. Specify thickness and edge detail.

Stock pieces include optimized offcut. Added job allowances are identified in their rows. LF/SF are net unless noted. Full-depth blocking matches joist material. Flat-blocking LF measures support runs, not purchase lumber; select members for full bearing. Add unmodeled field blocking and waste.

Set stock and allowances in Job Details > Takeoff. Resolve order reviews before purchasing.

Company

Sample Builder

Customer

Covered deck with right-side stairs

View
Material Takeoff

Scale
NTS - Schedule

Sheet
8 of 10

Date
10/15/2026

Material Takeoff (2 of 2)

Hardware + Connectors

Item	Qty	Unit	Notes
0.162 in x 3-1/2 in HDG connector nails - ABA66Z post bases	128	pcs	8/base; 16 bases. Manufacturer nail schedule; approved SD substitutions replace nails. Match corrosion protection.
Concrete anchor / washer schedule - ABA66Z	-	review	ORDER REVIEW: 16 bases: select anchor type, length, embedment and required washer/nut hardware for the concrete and loads. Anchor hardware is not included.
Joist tape	1115.75	lf	LF: 815.08 joists + 90.67 rims/ledgers + 90.67 beams + 119.33 feature blocking; add waste.
Z flashing - 8'	6	pcs	41.33 net LF.
House flashing	41.33	lf	Order whole rolls.
Picture-frame screws / plugs	98.92	lf	LF allowance; follow screw / plug schedule.
Seam-board screws / plugs	39.33	lf	LF allowance; follow screw / plug schedule.
#9 x 1-1/2" SD connector screws - tension ties	24	pcs	Simpson SD/SDS schedule; installed quantity. DTT2Z screws supplied in kit; avoid duplicate purchase.
1/2" ledger lag screws	32	pcs	41.3 lf @ generic 16" O.C.; verify approved connection schedule.
1/2" washers (ledger lag screws)	32	pcs	1 per ledger lag.
750 lb deck tension tie (DTT1Z)	4	pcs	Per deck level; verify detail / fasteners.
8d toe-nails - joist-to-beam	261	pcs	3 threaded 8d per modeled dropped-beam bearing (AWC DCA6 Fig.6); verify project fastening and corrosion compatibility.
Composite/PVC hidden fastener boxes (~50 sf/box)	15	boxes	732.92 sf field boards; features face-fastened separately.
Fascia/trim screws	433	pcs	108.24 lf finish trim @ 4/lf (108.24 lf deck/stair trim).
2x10 single outer-joist hanger (concealed flange)	2	pcs	Exterior packs; shared ledger packs use face-mount. Verify hanger / fasteners.
Joist hanger (2x10)	40	pcs	
Post base connector (ABA66Z)	16	pcs	Uses the selected project footing connector for modeled support posts. Verify anchor, uplift, reactions, corrosion exposure, and approval before ordering.
SD9112 #9 x 1-1/2" screws - LSCZ stringer connectors	119	pcs	17 SD9112 per LSCZ (standard): 8 into header/rim + 8 into wide stringer face + 1 into bottom edge, second-to-last hole. Installed screw quantity; connector not a kit. Header attachment fasteners are separate. C-C-2026 p.321.
Simpson SDS 5" structural screws - post-to-beam	40	pcs	Custom estimate: two 5" SDS screws per post; four at splices. Placement, drive direction, embedment and splice fastening per project detail.
Stair stringer connector (LSCZ)	7	pcs	One LSCZ per modeled wood stringer per flight; standard screw installation. Verify C-C-2026 pp.320-321 framing/support conditions and loads. Header/support attachment remains a project detail.
Joist-hanger nails / screws	420	pcs	Estimate: 10/hanger. ORDER REVIEW: replace with the selected hanger nail/screw sizes and schedule.
Tension-tie house-anchor allowance	4	pcs	One anchorage set per location; verify substrate, embedment, length and kit contents.

Roofing

Item	Qty	Unit	Notes
ALUMINUM COIL WRAP Aluminum-wrapped	32.13	lf	1 modeled component. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
ALUMINUM COIL WRAP Aluminum-wrapped	26.93	lf	2 modeled components. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
ALUMINUM COIL WRAP Aluminum-wrapped	53.5	lf	3 modeled components. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
ALUMINUM COIL WRAP Aluminum-wrapped	41.14	lf	5 modeled components. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
Front soffit end closure	0.26	sq ft	2 modeled components. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
Front soffit return closure	0.46	sq ft	2 modeled components. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
1X6 PINE T&G Pine T&G ceiling finish	357.29	sq ft	1 modeled component. Modeled net sloped area inside the roof headers for nominal 1x6 pine T&G ceiling finish (0.75 in default actual thickness, 5.5 in default coverage). Plywood/OSB and the separate overhang soffit remain independent rows. Confirm the supplier product, net coverage, waste, fastening, and finish.
1X8 FASCIA Roof eave fascia substrate	32.13	lf	1 modeled component. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
1X8 RAKE FASCIA Roof rake fascia substrate	26.8	lf	2 modeled components. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
Roof rake soffit	32.47	sq ft	2 modeled components. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
Roof soffit	34.07	sq ft	1 modeled component. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
Shed roof upper painted-panel infill	34.5	sq ft	2 modeled components. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
1/2 IN PAINTED PANEL Upper-infill interior painted panel	34.5	sq ft	2 modeled components. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
1/2 IN SHEATHING 1/2 in upper-infill wall sheathing	34.5	sq ft	2 modeled components. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
2X4 2x4 upper-infill wall bottom plate	23.75	lf	2 modeled components. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
2X4 2x4 upper-infill wall rake plate	24.5	lf	2 modeled components. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
2X4 2x4 upper-infill wall stud	24.27	lf	18 modeled components. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
DOUBLE 2X10 roof header	53.5	lf	3 modeled components. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
2X8 roof rafter	348.4	lf	26 modeled components. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
6X6 POST roof support post	41.15	lf	5 modeled components. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
15/32 PLYWOOD / OSB Roof plywood / OSB sheathing	432.67	sq ft	1 modeled component. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
Roof shingles	435.17	sq ft	1 modeled component. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
Roof underlayment	432.67	sq ft	1 modeled component. Roof assembly model takeoff; verify laps, waste, and final stock lengths.
Shingle drip edge	59.06	lf	3 modeled components. Net eave/rake length; add stock laps and waste. Generic folded profile: select the roof supplier's drip edge and fastening schedule.

Stock pieces include optimized offcut. Added job allowances are identified in their rows. LF/SF are net unless noted. Full-depth blocking matches joist material. Flat-blocking LF measures support runs, not purchase lumber; select members for full bearing. Add unmodeled field blocking and waste.

Set stock and allowances in Job Details > Takeoff. Resolve order reviews before purchasing.

Company

Sample Builder

Customer

Covered deck with right-side stairs

View
Material Takeoff

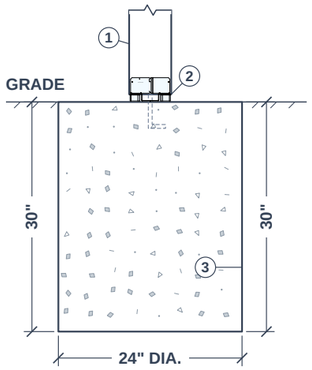
Scale
NTS - Schedule

Sheet
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01 Footing detail

FOOTING / POST SECTION



CONNECTION SCHEDULE

1 **6x6 PT POST**

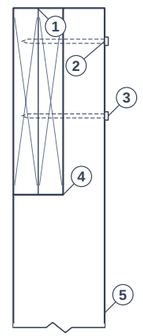
2 **POST BASE: SIMPSON ABA66Z**

3 **ROUND CONCRETE FOOTING**
24" DIA. x 30" THICK

Footings within 5'-0" of house wall to bear at house foundation footing elevation.

02 Post-to-beam detail

NOTCHED POST / SECTION



CONNECTION SCHEDULE

1 **DOUBLE 2x12 BEAM**

2 **(2) 5" SIMPSON SDS**
(4) AT SPLICES

3 **POST-SIDE DRIVE SHOWN**

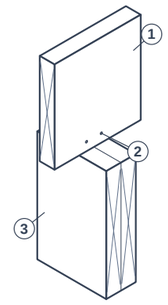
4 **FULL NOTCH BEARING**

5 **6x6 PT POST**

CUSTOM SDS CONNECTION / PLACEMENT AND SPLICES PER PROJECT DETAIL.

03 Joist-to-beam detail

DROPPED BEAM / BEARING



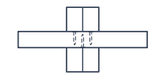
CONNECTION SCHEDULE

1 **2x10 joist**
16" O.C.

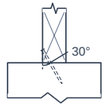
2 **Toe-nail connection**
(3) 8d threaded

3 **DOUBLE 2X12**
Full-width bearing

PATTERN / PLAN



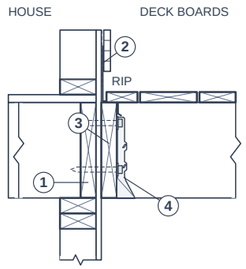
ENTRY / SECTION



DCA6 Fig.6: (3) threaded 8d nails per bearing; 2 one side, 1 opposite.
Beam-ply fastening is separate.

04 Ledger to house detail

JOIST END / SIDE ELEVATION



CONNECTION SCHEDULE

1 **House rim**

2 **Flashing**

3 **2x10 ledger**

4 **Joist hanger**

STAGGERED ROWS



S = across rows

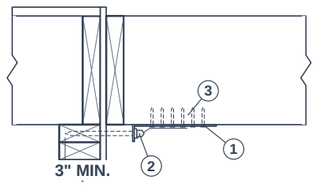
1/2" LAG SPACING / REFERENCE

Joist span up to (ft)	**6**	**8**	**10**	**12**	**14**	**16**	**18**
Max. spacing (in.)	**30**	**23**	**18**	**15**	**13**	**11**	**10**

DCA6 Table 5 / Fig.19: 40 live + 10 dead psf; 2x8 ledger / 2x rim; 15/32" max. sheathing. Top/ends: 2" min.; bottom: 3/4" min.; rows: 5" max. Species, lower row, penetration: source. No veneer. Estimate: 16" O.C.

05 Lateral load connection detail

WALL-PLATE INSTALLATION



FASTENING SCHEDULE

1 **DTT1Z tension tie**
4 locations / 750 lb each

2 **House anchor**
House anchor per Simpson

3 **Connector fasteners**
(6) #9 x 1-1/2" SD per tie

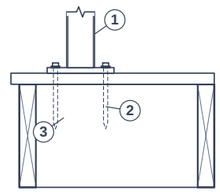
UNDERSIDE / FASTENERS



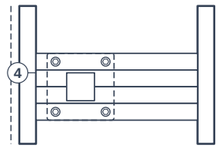
C-C-2026 p.326. Center anchor in upper wall plate; verify house framing.

06 Rail post to frame detail

SURFACE POST / SECTION



PLAN / DECK EDGE AT LEFT



CONNECTION SCHEDULE

1 **Post + base**
Selected system

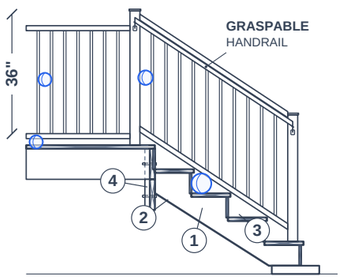
2 **Lags + washers**
Size / count: selected base

3 **Full-depth blocks**
2 doubled pairs / fit to base

4 **Blocking to joists**
Project blocking fasteners

07 Stair stringer / rail detail

STRINGER / GUARD ELEVATION



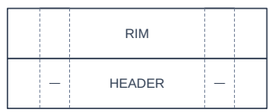
CONNECTION KEY

1 **Cut stringer**
2x12 / 10" O.C.

2 **LSCZ**
17 SD9112 / connector

3 **Treads / risers**
11" run / 7 1/4" rise

4 HEADER



Sphere must not pass: 4" deck / 4-3/8" stair / 6" step

IRC 2021 / STAIR LIMITS **34-38" HANDRAIL**

7 3/4" MAX RISE **10" MIN RUN** **3/8" MAX VAR.**

SD9112 (#9 x 1-1/2): 8 rim + 8 side + 1 bottom.
LSCZ fit: project attachment detail required for this rim / rise.

Material reports

PRODUCT	REPORT
Decking Trex Transcend	CCRR-0301
Railing Trex Select Aluminum	TER-2405-104

Company

Sample Builder

Customer

Covered deck with right-side stairs

View
Typical Details

Scale
NTS - Details

Sheet
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Date
10/15/2026