5/8" x 7" STEEL SEAT FRAME

2-1/2" PHILLIPS HEAD WOOD SCREWS COUNTERSUNK

2-1/2" x 2-1/2 CLEAR HEART REDWOOD AS SPECIFIED

CONTINUOUS WELD

4" x 4" x 3/8" STEEL 'H' COLUMN 12" PER FOOT MIN.

FINISHED GRADE OF CONCRETE PAVEMENT

GRAVEL BEDDING

COMPACT SUBGRADE

8" x 3/4" ROD WELDED IN PLACE

1'-4" CONCRETE FOOTING TO FROST

SECTION

1'-4"

HALF ELEVATION

STEEL FRAME IS 5'-0" ON CENTER

BENCH DETAIL

Samples from www.AutoCADDetails.net
MITRE AND FULL WELD

2 x 6 OAK BOARDS BOLTED TO ANGLES (ROUND EDGES) (2) - 3/8" C LAG SCREWS AT EACH BOARD

L 3 x 3 x 1/4" AT 36" O.C. AND 2'-0" FROM END OF BENCH

3/8" EXP. BOLT - TOP AND BOTTOM

BENCH DETAIL
FASTEN BOTTOM PLATE TO WALL W/ COUNTER SUNK METAL FASTENERS AT 2'-0" O.C.

FINISH NAIL TO BOTTOM PLATE TOP & BOTTOM AT 12" O.C. FILL HOLES BEFORE STAINING

CHAIR RAIL DETAIL
BITUMINOUS OR OTHER WATERPROOF MEMBRANE EXTENDS FROM DECK EDGE TO UNDER SIDING.

REINFORCED LIGHTWEIGHT CONCRETE 1 1/4" MIN.

SLOPE 1/4" PER 1'-0"

LAG BOLT PER PLAN

CEDAR SLEEPER (NOT RECOMMENDED FOR FREEZING CLIMATES).

NOTE: HIGH SNOW LOAD AREAS—BOLT TO LEDGER—NOT INTO FLOOR.

CONCRETE PAVER DECK
Bend Tabs Before Nailing

Eight of the nails must be nailed in at 45’ angle.

USE Miter Cut

4x4 Post

CORNER DECK TIES
Using Simpson DPT6A Ties.
DECK & WALL DETAILS

House Wall

Flashing

2x6 Cap w/top corners rounded over

2x4 top plate

Siding to match that of house

1/2" exterior plywood

2x4 Stud

2x4 Bottom Plate

1x4 trim

2x8 Rim joist

Paired 2x12 beams, bolted to post

4x4 foundation post

8" dia. poured concrete pier

Steel post base

Remove siding so ledger & decking can be installed against sheathing

7' 36" 9'

Deck Wall

2x6 decking installed diagonally

Joist Hanger

Paired 2x12 beams, bolted to post

4x4 foundation post

8" dia. poured concrete pier

Steel post base

Samples from www.AutoCADDetails.net
DECK BENCH DETAIL

2X6 CLR. CEDAR TOP & SIDES

2X4 CLR. CEDAR

2X4 @ 16" O.C.

SIDING

2X6 JOIST @ 16" O.C.
LEDGER

Post/Beam Connector

Pier Block on undisturbed soil, gravel or footing

4" x Timber Beams

...See Detail "C" or "D" for Post Connections

Double Joist or Stringer Beam

Double Joist or Stringer

Cantilever 2 x Depth of Beam Max.

Depth of Beam

Post W/2'x' Support cleat both sides

Pier Block on undisturbed soil, gravel or footing

Depth of joist

See Detail "C" or "D" for Post Connections

Pier Block

TIMBER POST/BEAM

CANTILEVER Beam Max.

3'-0" Joist Length + 3'

Depth of joist

Pier Block on undisturbed soil, gravel or footing

Pier Block

TIMBER POST/BEAM
2x P.T. Deck Joist 12"x12" Conc Pier

Fasten 2-2x to Top of 4x4 Post

2x P.T. Ledger Board

2x Floor Framing

Rim Joist

Sheathing

3/8"x5" Lag Screws @ 16" O.C.

Joist Hanger

DECK FRAMING
Post Used On Decking & Stairs

INSTALLED IN PAIRS
SPACING 5" Min Center to center
Use 2--3/8" through bolts and 5--10dx 1 1/2" nails.

DECK POST TIES
Using Simpson DPT5
DECK RAILING DETAIL

MTRE 2” X 6” Cap Corners

2” X 6” Cap Over 2” x 4” Trim

2” X 2” @ 4” O.C.

Pier Blocks Buried or set stringers on concrete slab

HANGER

(3) 2” x 6” Per Tread

OR

(4) 2” x 4” Per Tread

Notch Stringer For Common Joist Hanger

Samples from www.AutoCADDetails.net
DECK SECTION

Sheathing

2x Top Rail

2x Rail Support

2x2 Pickets@ 5" O.C.

2X Bottom Rail

Cont Flashing

5/4 x 6" Decking

2X P.T. Joist

Beam

6x6 Support Post

Concrete Pad w/ Simpson Post Base

Rim Joist

3/8" X 5" Lag Screws @ 16" O.C.

Joist Hanger

P.T. Ledger Board

Samples from www.AutoCADDetails.net
FASTENERS
USE--18--16d, 8 @ 45 degree angle
10 nailed straight.
Attach to deck first then to 4x4 post.

DECK TIE CONNECTORS
Using Simpson DPT6 ties.
DIRECT CONNECTION TO
MASONRY WALL
1" NO. 6 WOOD SCREWS 3'-0" O.C. RECESSED AND PLUGGED WITH DOWLES TO MATCH

SEALANT BOTH SIDES

2" X 6" WOOD CAP

5/8" GYPSUM BOARD ON 4" METAL STUDS AT 16" O.C.

HALF HEIGHT WALL CAP DETAIL
LEDGER WITH DRAINAGE SPACE

- Decking Board
- Deck Joist
- Joist Hanger
- Lag Screw & washer

- Drainage space between wall and ledger
- Multiple aluminum or galvanized steel washers acts as spacers.
- Masonry anchor
- Vary the number of washers to compensate for any irregular wall surface.
- Ledger Board
- Masonry Wall
LEDGER CONNECTION TO WOOD-FRAMED WALL

- Exterior Sheathing
- Siding
- Flashing is tucked underneath siding & bent over top edge of ledger board.
- Decking Board
- Lag screw extend into house framing members
- Wall Stud
- Bottom Plate
- Rim Joist
- JOIST
- Masonry Foundation
- Ledger
- Joist Hanger
- Remove siding to expose sheathing for attaching ledger

Samples from www.AutoCADDetails.net
LEDGER WITH DRAINAGE SPACE with 1" plastic pipe as spacer
LIGHTWEIGHT-CONCRETE PORCH DECK

- Waterproof membrane continuous from under siding to outer edge of concrete
- Reinforced lightweight-concrete deck
- Edge flashing w/ drip extends 4 in. under waterproof membrane
- Rim joist deeper than deck joists to form drip
- Stud wall, wood post or other vertical support
- Plywood subfloor
- Header joist bolted to framing

Slope 1/4 in per ft.
NOTE: IN HIGH SNOW LOAD AREAS ATTACH DECK TO LEDGER--NOT ADVISABLE TO TIE INTO FLOOR.
OPEN DECK / OPEN RAILING

- OPEN RAILING BOLTED TO JOISTS OR AS EXTENSION OF VERTICAL SUPPORT
- OPEN DECKING
- DECK JOIST SUPPORTED BY JOIST HANGER ON HEADER JOIST
- HEADER JOIST BOLTED TO VERTICAL SUPPORTS
- SKIRTING
- STUD WALL, WOOD POST OR OTHER VERTICAL SUPPORT

Samples from www.AutoCADDetails.net
SHEATHING

HORIZONTAL SIDING OR SHINGLES
FLASHING TUCKED UNDER TOP PIECE OF SIDING & LAPPED OVER FIRST CONTINUOUS PIECE OF SIDING BELOW

OPEN DECKING

P.T. 2X OR 4X BLOCK W. SLOPED TOP
LAG BOLT(S) IN PREDRILED BLOCK

HEADER JOIST
90# FELT GASKET ON FLASHING AT LAG BOLT

BLOCKING FOR LAG BOLT
P.T. MUDSILL
FOUNDATION WALL

OPEN DECK / WOOD WALL
SHEATHING

FLASHING TUCKED 1" UNDER SIDING AND WRAPPED OVER LEDGER

OPEN DECKING

LEDGER NAILED TO SHEATHING

LAG BOLTS W/ WASHERS

HEADER JOIST

3/4" GALVANIZED HOLLOW SPACES FILLED W/ SILICONE CAULK

INTERIOR FLOOR STRUCTURE

FRAMED WALL

OPEN DECK / WOOD WALL
Stair Section At Deck

- **2"x4" Top Rail**
- **4"x4" Rail Post**
- **2"x2" Pickets @ 5" O.C. Min.**
- **Lower Rail Must Not Allow 4" Dia Sphere to Pass through.**
- **5/4"x6" Decking**
- **2"x Pressure Treated Joist @ 16" O.C.**
- **2"x12" Stringers W/ 1 1/2" x 1/1/2" Blocking to Support Treads**

Samples from www.AutoCADDetails.net
2" x 6" Cedar or Redwood

1' x 4" Cedar or Redwood

2" x 2"s @ 5' O.C. Screwed with (2) Bottom and (2) Top 3" Deck Screws.

4" x 10" Beam Held By Approved Post Cap with (2) 5/8" Mounting Bolts into Post and (1) 5/8" Mounting Bolt into Beam

Approved Column Base

Caisson

2" x6"s @ 6" O.C.

2" x8"s @ 24" O.C. Framed with 2" x8" Rough Sawn Transition Boards

TYPICAL DECK SECTION
WOOD BASE AND CHAIR RAIL DETAIL
WOOD SEATS (WALL MOUNTED)

METAL STUD @ 8" MAX.

NUT WELDED TO 1 1/2" CHANNEL

1 1/2" CHANNEL IN NOTCHED STUD FLANGE

5/8" GYP. BD.

2 X 10 WOOD SEAT W/ BEVELED EDGES

1/4" DIA. CHROME CARRIAGE BOLT

1/4" GALV. BOLTS

2 1/2" X 2 1/2" X 1/4" STAINLESS STEEL

CER. TILE ON GYP. BD.

1 1/2" CHANNEL IN NOTCHED STUD FLANGE

Suggested, samples from www.AutoCADDetails.net
WOOD SEATS (WALL MOUNTED)

- Metal Stud @ 8" MAX.
- Nut welded to 1 1/2" Channel
- 1 1/2" Channel in Notched Stud Flange
- 2 x 10 Wood Seat W/ Beveled Edges
- 1/4" Dia. Chrome Carriage Bolt
- 2 1/2" x 2 1/2" x 1/4" Stainless Steel
- 1/4" Galv. Bolts
- CER. Tile on Gyp. Bd.