MacDraft Symbol Libraries

Table of Contents

Introduction ........................................................................................................... I
Librarian ............................................................................................................. I
Drag and Drop .................................................................................................... I
About Symbol Libraries ..................................................................................... I
Editing Symbols ................................................................................................ II
Libraries Available ........................................................................................... II
   Graphics Volume 1 ........................................................................................... II
   Graphics Volume 2 ........................................................................................... II
   Architecture .................................................................................................... II
   Electronic Schematics ..................................................................................... II

Architecture

General (Section 1) ............................................................................................ A-1
Site Library (Section 2) .................................................................................... A-2
Concrete (Section 3) ......................................................................................... A-3
Masonry (Section 4)
   Brick Library ................................................................................................. A-4
   Concrete Masonry Units (CMU) Library ......................................................... A-5
   Stone Library ................................................................................................ A-6
Metal Library (Section 5) ................................................................................ A-7
Wood Library (Section 6) ................................................................................. A-9
Roof/Insulation (Section 7) ............................................................................. A-10
Door and Windows (Section 8)
   Door Libraries
      Hollow Metal Doors .................................................................................. A-11
      Store Fronts ............................................................................................. A-12

Table of Contents 1
Door Elevations 1'-4"-2'-6" ................................................. A-14
Door Elevations 2'-8"-3'-0" ................................................. A-14
BiFold Doors 2'-7" ................................................................ A-15
Garage Door Elevations ..................................................... A-15
Transoms, Sidelights, and Sliding Glass Doors .................... A-16

Window Libraries
Window Details ........................................................................ A-17
Double-Hung Windows ........................................................ A-18
Awning Windows ................................................................... A-19
Casement Windows .............................................................. A-19
Horizontal Sliding Windows ................................................ A-20
Shaped Windows .................................................................... A-20

Finishes (Section 9) .............................................................. A-21
Specialties (Section 10) ........................................................ A-22
Equipment (Section 11) ....................................................... A-23
Furnishings (Section 12) ....................................................... A-25
Special Construction (Section 13) ......................................... A-26
Conveying Systems (Section 14) .......................................... A-27

Plumbing (Section 15)
Plumbing - Pipes .................................................................. A-28
Plumbing - Fixtures .............................................................. A-28A

Electrical (Section 16) .......................................................... A-30

Note about the Quick Plans and Quick Elevations Libraries .......... A-32
Introduction

Microspot offers four series of Microspot Librarian symbol libraries. These are sets of graphic images ready for use in MacDraft® drawings and will provide you with many of the elements you need to quickly and easily complete or embellish your drawings.

Librarian

Librarian is a drag and drop-compatible application for storing and retrieving any type of data, and is included with MacDraft 4.3. It can be used with any application that supports drag and drop (or copy and paste). An unlimited number of libraries can be created, each of which can hold hundreds of items. Custom libraries can contain symbols from different symbol libraries, items and files you have drawn, and files of many other types.

Librarian can be used with MacDraft to hold PICT images of furniture, architectural and electrical components etc. Adding library items to drawings is as simple as dragging and dropping them from the library into the MacDraft document.

See the section Librarian in the MacDraft User Guide Addendum for further details.

Drag and Drop

MacDraft version 4.3 implements drag and drop. This means that any PICT file can be dragged into a MacDraft document window, and objects or group of objects can be dragged from a MacDraft document to, for example, a Librarian file (symbol libraries in the old format are not supported).

Items in image and graphics file formats dragged into MacDraft from Librarian files will be converted into PICT.

See the section Drag And Drop in the MacDraft User Guide Addendum for further details.

About Symbol Libraries

Each library has been professionally drawn, using vectors rather than bitmaps, providing you with the highest possible quality of printing.
Note: The symbols have been optimized for printing on the LaserWriter® and other PostScript® output devices. Other devices, such as inkjet printers, may reduce clarity in the final image.

Editing Symbols

Symbols can be easily edited to suit your own needs:

• Once dropped into a drawing, a symbol can be rotated, flipped, moved, or resized.
• If you ungroup a symbol, you can remove, resize, fill, or otherwise edit any object within it.
• You can ungroup symbols that contain text and substitute your own text.
  Note: be careful when resizing symbols that contain text.

Libraries Available

Graphics Volume 1
Over 200 images of people, cars and trucks, and trees and other landscape elements. This set is ideal for architects, illustrators, and designers, as well as for general graphics and presentations.

Graphics Volume 2
Contains over 200 graphic elements to help you create professional-looking organizational charts, design computer logic diagrams, embellish business charts, or add character to your correspondence and presentations.

Architecture
A comprehensive set of over 1,100 commonly used symbols for the creation of residential and light commercial construction drawings. This library provides architects, engineers, and contractors with symbols that address the 16 standard specification formats used in construction drawings.

Electronic Schematics
Incorporates over two hundred symbols for a wide array of electronic components and elements used to create schematic diagrams. Included are everything from vacuum tubes to transistors and logic gate symbols.
Site Library

PLANTERS

PAVING PATTERNS

BENCHES

FENCES

TRASH RECEPTACLES
Concrete Library

8W X 18" Double Tee
Precast Conc. Structural Tees

24" X 9"
3 X 1'
3-1/2" X 1'

24" X 12"
8 X 1-1/4"
3-1/2" X 1-1/4"

24" X 15"
3-1/2" X 1-1/8"
3-1/2" X 1-1/8"

2" X 15" Nailable Structural Concrete Plank, Self Edged

6" Dumbell
6" Dumbell
4" Ribbed Sm. Bulb
6" Ribbed Bulb

4" Ribbed Bulb
9" Ribbed Bulb
5 1/4" Special

Precast Hollow Core Slab Units

1 1/2" X 1 1/2"
1 1/2" X 2"
2 X 2 5/16"

Structural Bulb Tees & Planks

1/2" X 1 1/2"
3/4" X 1 1/2"
1" X 2"
1/2" X 1"
1" X 1"
1" V Joint
1/2" X 1"

Architecture Symbol Libraries A - 3
Brick Library

8" Modular Brick

Precast Concrete Wall Caps

Precast Conc. 1/4" Wall Cap

Precast Conc. 8" Wall Cap

Convex Anchor

Weep

Wall Reinf. Lintel Reinf. Reinforcing & Anchors

Assembled Masonry Opening

Into Wall Flashing

Precast Lintel Reinf.

5/16" Lintel Angles

Brick Elevations & Sections

Precast

Precast

Modular Brick

Masonry Window Sills

STEEL BRICK & MASONRY LINTELS

<table>
<thead>
<tr>
<th>CLEAR SPAN</th>
<th>EXTERIOR ANGLES</th>
<th>INTERIOR ANGLES</th>
</tr>
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<tbody>
<tr>
<td>4'-0&quot;</td>
<td>L 3 1/2&quot; x 3 1/2&quot;</td>
<td>2L 3 1/2&quot; x 3 1/2&quot;</td>
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<tr>
<td>6'-0&quot;</td>
<td>L 4&quot; x 3 1/2&quot;</td>
<td>2L 4&quot; x 3 1/2&quot;</td>
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<tr>
<td>8'-0&quot;</td>
<td>L 5&quot; x 3 1/2&quot; x 8'16&quot;</td>
<td>2L 5&quot; x 3 1/2&quot; x 8'16&quot;</td>
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</tbody>
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REINF. LINTEL SCHEDULE

<table>
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<tr>
<th>LINTEL TYPE</th>
<th>SPAN</th>
<th>8&quot; BRK</th>
<th>8&quot; CMU</th>
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<tr>
<td>PRECAST CONCRETE</td>
<td>4'-0&quot;</td>
<td>6'0&quot;</td>
<td>4'0&quot;</td>
</tr>
<tr>
<td>(2 3/8&quot; SQ)</td>
<td>6'-0&quot;</td>
<td>6'0&quot;</td>
<td>4'0&quot;</td>
</tr>
<tr>
<td>PRECAST (CMU)</td>
<td>4'-0&quot;</td>
<td>4'0&quot;</td>
<td>2'0&quot;</td>
</tr>
<tr>
<td>(2 3/8&quot; SQ)</td>
<td>8'-0&quot;</td>
<td>6'0&quot;</td>
<td>2'0&quot;</td>
</tr>
</tbody>
</table>

Concrete Reinf. Lintels

8"X8" #1

8"X8" #2

Architecture Symbol Libraries
Concrete Masonry Units (CMU) Library

Stretcher  Control Joint  Corner  Corner Return  Joint Block  Jamb Block  Jamb Block

8" Deep Lintel  8" Deep Lintel  8"  10"  8"  8"  10"

Header Block  Stretcher Block Sections  Split Block

Section Views Of Modular Concrete Masonry Units

Plan Views Of Modular Concrete Masonry Units

Architecture Symbol Libraries
Stone Library

8' x 8' Masonry Wall Elevations

Uncoursed Fieldstone

Split Masonry - Four Course Height

Uncoursed Ledgerock
Metal Library (continued)

Structural "C" Studs

Steel "C" Joists

Channel Studs

Nailable Steel Studs

Runner Tracks

Nailable Steel Joists

All "C" Studs Shown With 1 1/2" Flange & 1/4" Return

All Steel "C" Studs Shown With 1 3/8" Flange & 1/4" Return

All Channel Studs Shown With 1 3/8" Flange

A - 8

Architecture Symbol Libraries
Wood Library

Asphalt or Composition Shingles at 1/4" Scale

Standing Seam Metal Roof at 1/4" Scale

Clay or Concrete Tile at 1/16" Scale

Clay or Zinc Tile at 1/4" Scale

These are patterns which are to be copied from the library into the drawing in which they are to be used. The pattern will then be in the pattern library. The filled rectangles or polygons of the appropriate fill pattern to indicate these elements in the drawing. Other patterns may be designed if desired.

Roofing Elevation Patterns

Built Up Roof Flashing

Note:
Clay & Concrete Tile, Metal and Other Roofing Materials Require Flashing and Details Which Are Specific To The Individual Manufacturer's Requirements And Go Beyond The Purpose Of This Library.
Roof and Insulation Library

Asphalt or Composition Shingles at 1/4" Scale

Standing Seam Metal Roof at 1/4" Scale

Clay or Concrete Tile At 1/8" Scale

Clay or Concrete Tile At 1/4" Scale

At Brick
At Concrete
At Eave
Parapet Flashing With 4" Cant

Gravel Stop #1
Gravel Stop #2
At Expansion Joint
At Skylight

These are patterns which are to be copied from the Library into the drawing in which they are to be used. The pattern will then be in the pattern fill file. Use filled rectangles or polygons of the appropriate fill pattern to indicate these elements in the drawing. Other patterns may be designed if desired.

Roofing Elevation Patterns

Built Up Roof Flashing

Note:
Clay & Concrete Tile, Metal And Other Roofing Materials Require Flashing And Details Which Are Specific To The Individual Manufacturer Requirements And Go Beyond The Purposes Of This Library.

Shingle Roof Valley Flashing

4" Min. Under Roofing

8" Min. Exposed Flashing

Corns 2" C.C.

Shingle Roof Ridge Flashing

4" Min. Under Roofing

Shingle Roof Splayed Edge Flashing

4" Min. Under Roofing

Shingle Roof Vertical Edge Flashing

4" Min. Under Roofing

Gutter Shapes


c

Architecture Symbol Libraries
Hollow Metal Doors Library

Hollow Metal Frame Elevation

Assembled Hollow Metal Door Frame Details

Frame Members

Door Face Elevations

Masonry Anchor

Unsupported Jamb Stiffener

Door Anchors

Swing Symbol Opening Door Plan Symbols

6" Thru
5" Fluted
5" Plain
5" Fluted
Saddle

6" Outswing 3/4" Rise Imantlocking
6" Outswing Flat
4" Outswing
4" Outswing Burnish
Vinyl Inserts
Thresholds

Architecture Symbol Libraries
Store Fronts Library

ASSEMBLED STORE FRONT ELEVATIONS

Single | Double | Double Corner | Double Corner Surface Mount
4" x 4" Corner Mullions | | | Surface Mount

4 Panel | 1 Sicelte

Door Swing | Door Uprising

Store Front Details For 1 3/4" X 4" Extruded Sections With Hidden Stops

A - 12  Architecture Symbol Libraries
Store Fronts Library (continued)
Door Elevations 1'4"-2'6" Library and
Door Elevations 2'6"-3'0" Library

INTERIOR AND EXTERIOR DOOR FACES
Bifold Doors Library

Garage Door Elevations Library

Architecture Symbol Libraries
Transoms, Sidelights, and Sliding Glass Doors Library

14" S.I. & Transom
14" S.I. Panel
3' Fan Transom
3' Flat Transom
Flat Trans 10' Sidelles
Flat Trans 2, 10' Sidelles
6' Fan Transom
6' Flat Transom
6' Flat Transom

5'-0" 2 Panel
6'-0" 2 Panel
8'-0" 2 Panel
9'-0" 3 Panel

10'-0" 4 Panel
12'-0" 3 Panel
12'-0" 4 Panel

Architecture Symbol Libraries
Window Details Library

Window Types

Projected (P)  Double Hung (DH)  Sliding (S)  Casement (C)  Awning (A)  Fixed (F)

Aluminum  Steel

Horizontal Sash  Combination  Awning  Projected

Casement  Double Hung  Projected

Architecture Symbol Libraries
Double-Hung Window Library

2'-0"   2'-0"   2'-4"   2'-6"   4'-0"
3'-0"
3'-6"
4'-0"
4'-6"
5'-0"
5'-6"
6'-0"
Awning Window Library and Casement Window Library

<table>
<thead>
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<th>Height</th>
<th>2'6&quot;</th>
<th>3'0&quot;</th>
<th>4'0&quot;</th>
<th>5'0&quot;</th>
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Awning Windows

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<th>2'4&quot;</th>
<th>2'6&quot;</th>
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<td>3'0&quot;</td>
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<td>3'6&quot;</td>
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<td>5'0&quot;</td>
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<td>6'0&quot;</td>
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</tbody>
</table>

Casement Windows
Horizontal Sliding Window Library and
Shaped Window Library

Horizontal Sliding Windows

Octagonal Windows

1/4 Round Windows

1/2 Round Windows

Architecture Symbol Libraries
Finishes Library

Acoustic Tile Molding & Trim

Drywall Stucco & Plaster Molding & Trim

Tile Patterns

Wood Patterns

Architecture Symbol Libraries
Equipment Library

RANGE TOP PLANS

STACK WASHER/DRYER

24'' Plan O & U
24'' Elev O & U

30'' Plan O & U
30'' Elev O & U

30'' Plan SxS
30'' Elev SxS

30'' built-in cook top

WASHER/DRYER

DISHWASHER

30'' Plan SxS

30'' Elev SxS

with door

with door

REFRIGERATORS

Architecture Symbol Libraries
Special Construction Library

Plan Symbols

- Block In Wall
- Brick In Wall
- Insulated Steel Wall
- Vinyl Tile
- Laminated Wood
- Glazed Tile

Wood Joint & Wood Deck
Wood Beam & Lam Deck
Wd Truss & Pwd Deck
Steel Joist & Wood Deck
Steel Joist & Conc Deck
Steel Joist & Gyp Plank

Lt Wt Sl
Nail Joist & Pwd Deck

Steel Joint & Bulk Tee/Deck & Concrete Top

Precast Hollow Concrete Planks W/Concrete Topping
Precast Concrete Tees W/Concrete Topping

Floor Assemblies

Interrupted Wood Blocking

- Framing Lumber
- Fresh Wood
- Plywood
- Steel
- Rigid Insulation
- Insulation
- Gypsum Board
- Cement
- Sand
- Mortar
- Concrete Block
- Brick
- Acoustic Tile

Detail Symbols

Wood Roof Tress & Plywood Deck

Note: Many Roof Assemblies Are Similar To Floor Assemblies Except That The Structural Members Are Lighter.

Concrete, Rgd Insul & Plaster
Sidings, Rgd Insul Insul & Gyp Bd.

15" Th. Brick, Rgd. Insul & CMU
Exterior Wall Assemblies

A - 26

Architecture Symbol Libraries
Conveying Systems Library

Minimum Lobby Depth

SINGLE 3000 # ELEVATOR PLAN

Minimum Lobby Depth

DOUBLE 3000 # ELEVATOR PLAN

SINGLE 3000# ELEVATOR LOBBY ELEVATION

DOUBLE 3000# ELEVATOR LOBBY ELEVATION

Note:
Elevator plans & details vary with each manufacturer. These symbols indicate approximate sizes for the suggested loadings for design layout only. Verify all dimensions and code requirements prior to beginning construction documents.
Plumbing Library - Fixtures (continued)

Oval Lavatory Cabinets Plans
- Oval Lav 18" x 22"
- Cab. 3'-6"
- Cab. 5'-0"
- Cab. 6'-0"
- Dbl Lav. Cab. 6'-0"

Lavatory Cabinet Elevations
- Cab. 3'-6"
- Cab. 5'-0"
- Cab. 6'-0"
- Dbl Lav. Cab. 6'-0"

Rectangular Lavatory Cabinets Plans
- Rect. Lav 18" x 22"
- Cab. 3'-6"
- Cab. 5'-0"
- Cab. 6'-0"
- Dbl Lav. Cab. 6'-0"

Sinks
- Bar 15" Sq
- Single 20"x20"
- Double 30"x30"
- Triple 42"x22"

Tubs And Showers
- Plan 5' x 3' Shower
- Plan "A" 5' x 3' Shower
- Plan "B" 5' x 3' Shower
- Plan 5' x 3' Tub/Shower End
- Elevation 3' x 3' Shower
- Elevation "A" 5' x 3' Shower
- Elevation "B" 5' x 3' Shower
- Elevation 5' x 3' Tub/Shower End
- Plan 6' x 3' Whirlpool
- Plan 6' x 3'-0" Whirlpool
- Plan 6' x 3'-0" Tub
- Plan 5' x 2'-0" Tub
Electrical Library

A Lighting Symbols
- Ceiling Mounted Incandescent Fixture Type
- Wall Mounted Incandescent Fixture Type
- Ceiling Recessed Incandescent Fixture Type
- Wall Recessed Incandescent Fixture Type
- Blank Ceiling Fan
- Blank Wall Junction Box
- Ducted Ceiling Fan
- Ducted Wall Fan
- Receding Wall Fan
- Receding Wall Fan
- Ceiling Junction Box
- Wall Junction Box
- Lamped Ceiling Mounted Pull Chain
- Lamped Wall Mounted Pull Chain
- Low Voltage Ceiling Fixture Type
- Low Voltage Wall Fixture Type
- Pendant On Ceiling Mount Fluorescent Fixture Type
- Recessed Fluorescent Fixture Type
- Wall Mounted Fluorescent Fixture Type
- Wall Recessed Fluorescent Fixture Type
- Ceiling Fan 3/4'

B Receptacle Symbols
- Single Outlet
- Duplex Outlet
- Duplex Outlet
- Weather Proof
- Triple Outlet
- Four Phase Outlet
- Switched Duplex Outlet
- Switched Tripole Outlet
- Special Single Outlet
- Special Duplex Outlet
- 220 Volt Outlet
- Single Purpose Outlet
- Clock Outlet
- Fan Outlet
- Single Floor Outlet
- Duplex Floor Outlet
- Floor Outlet
- Special Purpose
- Floor Outlet
- Private Telephone

C Residential & Commercial Switch Symbols
- Single Pole Switch
- Double Pole Switch
- Three Way Switch
- Four Way Switch
- Double Gang Switch
- Four Gang Switch
- Special Purpose Switch
- L - Low Voltage
- K - Key Switched
- A - Automatic Time
- S - Switch & Night Lamp
- C - Circuit Breaker
- H - Handle
- M - Manual
- W - Weather Proof
- F - Flat
- R - Raised
- V - Weather Proof Panel
- T - Timer Switch

Architecture Symbol Libraries

A - 30
Electrical Library (continued)

**D Signal Devices Symbols**
- Push Button
- Doorbell
- Bell
- Bell & Buzzer
- Annunciator
- Telephone
- Intercom Phone
- Phone Switchboard
- Transformer
- Floor Outlet
- Mains Supply
- Radar Outlet
- Chime
- Television Outlet
- Thermostat
- Smoke Detector
- Main Distribution Panel
- Main Disconnect

**E Exterior Overhead Symbols**
- Pole
- Street Light & Brace
- Transformer
- Primary Circuit
- Secondary Circuit
- Down Guy
- Head Guy
- Sidewalk Guy
- Service Weather

Note:
- A = Lighting Symbol
- B = Receptacle Symbol
- C = Switch Symbol
- D = Residential Signal Device
- E = Exterior Overhead Symbol

**Site Lights**
- Outdoor Lighting
- Mushroom
- Up Light
- Globe
- 4 Light
- Metal Halide
- Parking & Recreation
Note about the Quick Plans and Quick Elevations Libraries

The Quick Plans and Quick Elevations libraries offer a selection of symbols from all 16 sections of the architectural specification format. You can use these files as seed libraries, adding and deleting items as you learn which kinds of symbols you need most often.