

# ARRIS CAD Survey

Using the following scale, rate your general understanding of ARRIS database and drawing concepts:

- 1 - I have no understanding
- 2 - very little understanding
- 3 - adequate understanding
- 4 - good understanding
- 5 - very good understanding

## I. General ARRIS Software Knowledge

### 1. Database Structure

- \_\_\_ a. The key components of a database
- \_\_\_ b. The relationship of layers to a database
- \_\_\_ c. The relationship of a "drawing" to a database
- \_\_\_ d. The relationship of a "sheet" to a database
- \_\_\_ e. The significance "master.dr" to a database
- \_\_\_ f. How to establish database setup parameters  
(i.e. scale and output parameters such output units, rounding, etc.)

### 2. Layers

- \_\_\_ a. Creating a new layer
- \_\_\_ b. Layer naming limitations
- \_\_\_ c. Layer naming convention adopted by your office
- \_\_\_ d. Clearing vs Removing vs Deleting layers
- \_\_\_ e. Copying layers between databases
- \_\_\_ f. Layer modes (search, edit and display)
- \_\_\_ g. Saving and Loading layer styles

### 3. Data Input

- \_\_\_ a. Cartesian coordinate system
- \_\_\_ b. Polar coordinates
- \_\_\_ c. Work angle
- \_\_\_ d. Snapping to objects using Function keys (i.e. F3, F5, F6, etc.)
- \_\_\_ e. XY Forcing
- \_\_\_ f. Cursor Drag (Mouse Command Interpreter) feature
- \_\_\_ g. New Reference Point
- \_\_\_ h. Double Reference Point
- \_\_\_ i. Command levels (nested commands)
- \_\_\_ j. Scaled (Geometry) units vs. real world (Notation) units

#### 4. Lines

- \_\_\_ a. Setting up line parameters (dash spacing, dash type, etc.)
- \_\_\_ b. Line drawing options (i.e. single, running, box, grid, etc.)
- \_\_\_ c. Line Construction Technique options (offset, trim/extend, fillet, etc.)
- \_\_\_ d. Editing lines
- \_\_\_ e. Saving line styles
- \_\_\_ f. Line style conventions adopted by your office

#### 5. Circles

- \_\_\_ a. Setting up circle parameters (dash spacing, dash type, etc.)
- \_\_\_ b. Circle drawing options (radius, diameter, 3-point, etc.)
- \_\_\_ c. Circle Construction Technique options (offset, tangent, etc.)
- \_\_\_ d. Editing circles (breaking, freezing, etc.)

#### 6. Repeated Items

- \_\_\_ a. Making Repeated Items
- \_\_\_ b. Setting up Repeated Item parameters (scale & rotation)
- \_\_\_ c. Placing Repeated Items
- \_\_\_ d. Freezing & Editing Repeated Items
- \_\_\_ e. Swapping Repeated Items (replacing one w/ another)
- \_\_\_ f. Making Repeated Items with generic pen & color parameters
- \_\_\_ g. Making Attributed Repeated Items

#### 7. Text

- \_\_\_ a. Setting up Text parameters (size, justification, font, rotation, etc.)
- \_\_\_ b. Text placement options (single, two-point, paragraph, etc.)
- \_\_\_ c. Using Text labels
- \_\_\_ d. Editing Text (paragraph edit, two point edit, align, change text case)
- \_\_\_ d. Saving Text styles

#### 8. Dimensions

- \_\_\_ a. Setting up Dimension parameters (witness line, offsets, text, etc.)
- \_\_\_ b. Dimension placement options (single, running, cutline, etc.)
- \_\_\_ c. Aligned vs. non-aligned Dimensions
- \_\_\_ d. Editing Dimensions (remake witness lines, associatively cleanup, etc.)
- \_\_\_ e. Saving Dimension styles

#### 9. Patterns (crosshatching)

- \_\_\_ a. Setting up Pattern parameters (line, RI and solid pattern types)
- \_\_\_ b. Pattern placement options (chase area, point-to-point, box, etc.)
- \_\_\_ c. Editing Patterns (move origin, cut opening, update display)
- \_\_\_ d. Saving Patterns styles

## 10. Walls

- a. Creating a Smart Wall catalog
- b. Smart Wall placement options (single, running, box, etc.)
- c. Cleaning up Smart Wall intersections
- d. Smart Wall Construction Tools (align, closure, polarity, chamfer, etc.)
- e. Editing Smart Walls

## 11. Copying

- a. Setting up Copy parameters (scale, rotation)
- b. Copy types (mirrored X, mirrored Y, grid, etc.)
- c. Layer Retain on/off
- d. Copy To Clipboard
- e. Copying layers within and between databases

## 12. Editing

- a. Search Modes (i.e. Complex, Group, User Def, Area In, etc)
- b. Edit Options (i.e. Move Rel, Move Scl/Rot, Stretch, All Params, etc)
- c. UNDO/REDO
- d. Search Filters (Pen, Color, Property)

## 13. Plotting

- a. Plot options (i.e. Special, Standard, Window, etc)
- b. Plotting to a file
- c. Creating a Filtered Plot file (ready for outside plotting service)

## II. ARRIS 8 Menu & Feature Knowledge

Using the following scale, how would you rate your general understanding of the menus and new features contained in the new ARRIS 8 software:

- 1** - I have no understanding
- 2** - very little understanding
- 3** - adequate understanding
- 4** - good understanding
- 5** - very good understanding

#### 1. ARRIS Graphical User Interface (GUI)

- a. Familiarity with command locations on menus
- b. Middle mouse button help option
- c. Right mouse button shortcut options
- d. How to access On-line help
- e. New Hot Keys (Escape, XY Forcing Lock, and Cursor Rotation keys)
- f. New Control Functions (Ctrl S, Ctrl R, Ctrl E, Ctrl K, Ctrl V)

#### 2. ARRIS Database Tools

- a. Creating Project Directories
- b. Creating Drawings
- c. Creating Sheets
- d. Sheet Annotation Tools (i.e. datestamp, revisions, etc.)
- e. Creating Viewports
- f. Import/Export DWG files

#### 3. ARRIS Drawing Tools

- a. Match Entity
- b. Mouse Motion (Cursor Drag) feature
- c. XY Forcing Lock
- d. Winports
- e. Customizing the user-definable TOOLBAR menu

#### 4. ARRIS Layer Enhancements

- a. Selecting layers using the "block mode" option
- b. Displaying layer modes by color
- c. Loading (referencing) layers from other databases
- d. Modifying layer permissions
- e. Setting Layer Defaults
- f. Sub Layers

### III. Knowledge of ARRIS and Windows/Unix

#### 1. Directories and subdirectories

- a. Location of user directory(s)
- b. Location of ARRIS databases
- c. Location of "lock" and "save" files
- d. Location of Project Files
- e. Location of "Standards" directory
- f. Location of Repeated Item libraries
- g. Location of user-customized files (button maps, sigmac libraries, etc.)

## 2. File Manipulation Abilities

- \_\_\_ a. Copying files between directories
- \_\_\_ b. Moving files between directories
- \_\_\_ c. Renaming files
- \_\_\_ d. Changing permissions of a file (i.e. read-write / read-only)
- \_\_\_ c. Archiving options (i.e. copy file to floppy, tape or external drive)

## IV. Effectiveness of Initial CAD Training

Using the following scale, indicate your opinion of the ARRIS training, if any, you have received to date:

- 0** - not applicable
- 1** - minimal
- 2** - below average
- 3** - satisfactory
- 4** - good
- 5** - very good

Rate the following items using the scale above:	ARRIS APPLICATION			
	ARRIS CAD	ARRIS Architect	ARRIS Details	ARRIS Modeling
Depth of ARRIS training:				
Time allowed to "practice" training material:				
Relevancy of training to actual work being performed:				
Overall rating of initial training:				

## V. Productivity Evaluation

Using the following scale, rate your overall productivity as a CAD -draftsperson as compared to when you were drafting manually:

- 1** - I am LESS productive in this area as a CAD draftsperson
- 2** - My productivity in this area is about the same (CAD vs Manual )
- 3** - I am MORE productive in this area as a CAD draftsperson

- \_\_\_ 1. Completing presentation drawings
- \_\_\_ 2. Incorporating ongoing design modifications (editing)
- \_\_\_ 3. Completing contract document drawings
- \_\_\_ 4. Generating appropriate detail sheets

- \_\_\_ 5. Meeting deadlines
- \_\_\_ 6. Communicating ideas three dimensionally
- \_\_\_ 7. Overall productivity

## VI. Miscellaneous

Answer the following questions as honestly as possible (indicate with **y** or **n**):

1. In general, has your ARRIS-CAD training process been a positive experience? \_\_\_
2. Are you receiving adequate technical support to perform your required CAD drafting duties? \_\_\_
3. Have the expectations placed on your CAD performance by your department been realistic? \_\_\_
4. Do you think that CAD drafting can (or will) make your department more productive? \_\_\_
4. Would you like to see the trend towards integrating CAD in your organization continue? \_\_\_
5. Please list any significant bottle necks or obstacles that need to be overcome in order to make CAD more of a success in your organization? \_\_\_\_\_  
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6. Please list any additional comments or suggestions regarding the CAD implementation program in general. \_\_\_\_\_  
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