

## PROJECT SUBMITTAL REQUIREMENTS

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ROOM NUMBER ASSIGNMENT STANDARDS

**EXHIBITS** 

**DRAWINGS** 

**CHANGE LOG** 

For further information, contact:

Facilities Information Resources
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# PROJECT SUBMITTAL REQUIREMENTS PART 1: SUBMITTAL REQUIREMENTS

A line in the margin indicates a change from the previous version. See Change Log for details.

**A.** Introduction: This document provides clarification of timing, formats, and recipients for select submittals required by contract. "Exhibit A: Submittal Requirements & Space Inventory Checklist" is available for use by the Professional Services Consultant (PSC) and the University for compliance with these Requirements.

#### B. Related Standards:

- 1. Space Inventory Room Number Assignment Standards
- 2. CAD Standards

#### C. Definitions:

- 1. As-Built Drawings Bid or construction drawings marked up by contractors as work commences on a project, that reflect as-built conditions in the field.
- 2. Record Drawings The final set of drawings created for a project that incorporates contractor as-builts, including addenda, change orders, supplemental instructions, field orders and represents conditions as completed in the field.
- **3.** Substantial Completion The "effective" date on the University "Certificate of Substantial Completion," which begins the one year warranty period.
- **4.** Closeout The end of the one year warranty period, when warranty walk-through and Quality Assurance Checklists have been complete, and when the project is "Closed" in the University's capital project financial services system.
- **D.** Submittals Required: The following submittals are required by the University:
  - 1. Project Manual (with any addenda)
  - 2. Drawings (with any supporting files)
  - 3. Other Submittals as required by Contract.
- **E.** Phase Submittals Required: Submittals are required for the Design and Construction Phases as applicable per the Professional Services Agreement. Submittals for the Bid through Close-out Phases are required for all projects.
  - 1. SCHEMATIC DESIGN
  - 2. DESIGN DEVELOPMENT
  - 3. CONSTRUCTION 50% REVIEW
  - 4. CONSTRUCTION 95% REVIEW
  - 5. BID
  - 6. SUBSTANTIAL COMPLETION
  - 7. CLOSE-OUT

#### F. Submittal Delivery and Format Requirements:

- 1. All submittals shall be accompanied by a Transmittal Form such as one commonly accepted in the Construction Industry, and including (but not limited to):
  - a. University Project Number
  - **b.** Project Title as appears in PRZM (or as approved by the Board of Trustees)
  - c. Project Phase
- 2. For all Phases except Substantial Completion and Close-Out, submittals shall be delivered as follows by the PSC to:
  - a. Project Manager:

     115 PPSB (MC-800), Facilities & Services, University of Illinois, 1501 S. Oak St., Champaign, IL 61820
     One (1) Project Manual with any addenda, and one (1) half-size set of Drawings
  - b. Assoc. Director Code Compliance and Fire Safety: <u>Craig Grant</u>
     115 PPSB (MC-800), Facilities & Services, University of Illinois, 1501 S. Oak St., Champaign, IL 61820

     One (1) Project Manual with any addenda, and one (1) half-size set of Drawings
  - C. Quality Assurance: Design & Construction Submittal Receiving
     117 PPSB (MC-800), Facilities & Services, University of Illinois, 1501 S. Oak St.,
     Champaign, IL 61820
    - i. Schematic Design through Construction 100%:
       Two (2) Project Manuals, one (1) full-size set of Drawings, one (1) half-size set of Drawings, and one (1) electronic set of both the Project Manual and the Drawings.
    - ii. <u>Bid:</u>
       Three (3) Project Manuals, three (3) Addenda (if any), one (1) full-size set of Drawings, two (2) half-size set of Drawings, and one (1) electronic set of the Project Manual, Drawings and Addenda.
  - d. Technology Services Plant Design Brian Cockerham
     2434 DCL (MC-256), CITES Plant Design, University of Illinois, 1304 W.
     Springfield Ave., Urbana, IL 61801
     One (1) Project Manual with any addenda, and one (1) full-size set of Drawings
  - e. GITES Classroom and Conference Media Engineering: <a href="Jeffery Martin">Jeffery Martin</a>
    95 Bevier Hall (MC-187), CITES CCME, University of Illinois, 905 S Goodwin Ave., Urbana, IL 61801
    One (1) Project Manual with any addenda, and one (1) full-size set of Drawings
  - f. Project Department:

    One (1) Project Manual with any addenda, and one (1) \_\_\_\_\_-size set of Drawings (deferred maintenance projects require half-size sets)

    g. Project College:

    One (1) Project Manual with any addenda, and one (1) \_\_\_\_-size set of Drawings
  - h. <u>Note:</u> Additional submittals may be required for specific design projects. Please contact the Project Manager prior to generating document submittals. (For example: Fire Department Informational Plan Review Set in Schematic Design Phase and/or a Schematic Design set to Planner if Board of Trustees Design Approval is requested).

3. At no later than 90 days past date of Certificate of Substantial Completion, submit to:
a. Quality Assurance: Design & Construction Submittal Receiving
117 PPSB (MC-800), Facilities & Services, University of Illinois, 1501 S. Oak St.,
Champaign, IL 61820
One (1) Record Project Manual (with Addenda incorporated)
One (1) full-size set of Record Drawings (with As-Built mark-ups incorporated)
One (1) electronic set of both the Project Manual and the Drawings
b. Project Department/College:
\_\_\_\_\_\_ copies of Record Project Manual (with Addenda incorporated)
\_\_\_\_\_ copies of \_\_\_\_-size set of Record Drawings (with As-Built mark-ups incorporated)

copies of electronic set of both the Project Manual and the Drawings

- G. Project Manual Requirements: The following information shall be in all submittals:
  - 1. Contents: The Project Manual cover shall contain:
    - a. Project Title as appears in PRZM (or as approved by the Board of Trustees)
    - **b.** University Project Number
    - c. Building Name and Number or Utility Name
    - d. Project Phase
    - **e.** If used, University logo in compliance with the Illinois Identity Standards, Graphic Standards Manual, Campus Logo Guidelines
  - 2. Paper Format: The Project Manual shall be:
    - a. Bound (no ACCO-style bare metal fasteners, staples, or post bindings)
    - b. Split into multiple volumes if more than 300 pages double-sided or over 1.5" thick
  - **3. Electronic Format:** Files shall be:
    - **a.** In Microsoft Word (.doc) format compatible with the currently supported version (Word 2010 or earlier)
    - **b.** One (1) set of pdf files (one section per file), searchable
    - c. Submitted on CD or DVD
    - d. Submitted one project per CD or DVD
    - e. Uncompressed
    - f. In one folder titled "Project Manual," and two subfolders titled "pdf" and "Word." There shall not be any further subfolders within the "pdf" and "Word" folders except to denote multiple volumes in accordance with the hardcopy set.
    - g. Named by specification section number

#### H. Drawing Requirements: These documents shall be:

- 1. Contents: Drawing title blocks shall contain, but are not limited to:
  - **a.** Project Title as appears in PRZM (or as approved by the Board of Trustees)
  - **b.** University Project Number
  - c. Building Name and Number, or Utility Name
  - **d.** Project Phase (Note: a "Record Drawing" stamp on the cover sheet is not acceptable. Each drawing shall have the Phase indicated in the Revision block.)
  - e. Drawing Title
  - **f.** Drawing Number. Use the following table to assign appropriate Discipline Designator (required). (Table is in preferred sheet order.)

Discipline	Discipline
Designator	Description
G	General
С	Civil (Survey Mapping, Utilities, Soil Borings, Geotechnical, Irrigation)
L	Landscape
Α	Architectural (including Interiors)
S	Structural
FP	Fire Protection
Р	Plumbing
Н	Heating
V	Ventilation
HV	Mechanical (use for smaller projects only)
TC	Temperature Control
E	Electrical
Т	Telecommunications
AV	Audio/Visual
ASB	Asbestos
LBP	Lead Paint
HZ	Hazardous Materials (other)
_D	Demolition (added after the respective Discipline Designator)
EQP	Equipment

- **g.** Revision Number, Date, and Description (Note: a "Record Drawing" stamp on the cover sheet is not acceptable. Each drawing should have the Phase indicated in the Revision block.)
- **h.** If used, University logo in compliance with the Illinois Identity Standards, Graphic Standards Manual, Campus Logo Guidelines

#### **2.** Paper Format: Drawings shall be:

- **a.** Bound (sets shall not be submitted loose) (no single corner staples or bare metal ACCO-style fasteners)
- **b.** In volumes of no more than 100 sheets per volume
- c. In compliance with the CAD Standards

- **3.** Electronic Format: Files shall be:
  - **a.** 1 set of unbound CAD drawings in .dwg format compatible with the currently supported version (AutoCAD 2012 or earlier), packaged with eTransmit or Packn-go, using the "Place all files in one folder" Transmittal Option
  - **b.** 1 set of pdf drawings (one drawing per file), searchable, and rotated to the correct orientation
  - c. Uncompressed
  - **d.** In one folder titled "Drawings," and two subfolders titled, "CAD" and "pdf." There shall not be any further subfolders with the "CAD" and "pdf" folders except to denote multiple volumes in accordance with the paper set.
  - e. In compliance with the CAD Standards
  - f. Submitted on CD or DVD (no ftp site or e-mail)
  - g. Submitted one project per CD or DVD
  - h. Files shall be named by drawing number(s), with no additional prefixes or suffixes. CAD files with multiple layout tabs shall have the tabs named the same as the drawing contained on the tab (e.g. A-1, A-2). The only exception to this is the addition of a numeric prefix that allows the files to sort in the same order as the paper drawing set.

examples: G1.pdf

001 G1.pdf

C100-C104.dwg

003\_C100-C104.dwg

Note: for CAD drawings, represent drawing range – do not list all drawings found in the file

- **i.** Extraneous objects beyond the drawing extents in "model space" shall be removed.
- j. Blocks shall not be exploded.
- k. Drawings shall be purged.
- I. Drawings shall be zoomed out to display entire sheet or model.
- **m.** Non-pertinent reference (x-refs) files shall be removed from the drawing file.
- **n.** All necessary files shall be included with the CAD file, including, but not limited to, xrefs, fonts, hatch, line types, and plot styles (.ctb, .pcs and .stb).
- I. Electronic Media (CD-Rom or DVD) Label Requirements: Labels shall contain:
  - **a.** University Project Number, Name and CDB Number (if applicable)
  - b. University Building Number and Name
  - c. University Project Manager
  - d. Consultant Name and Contact Information
  - e. Project Phase
  - f. Content Description (e.g.: "Project Manual", "Project Drawings", etc.)
  - **g.** Date of Submittal Documents (i.e. dates of drawings or project manuals not the date the CD or DVD was created)
  - h. Date CD or DVD Created
- J. Validation of Deliverables: The University reserves the right to request a new submittal at the consultant's expense if the documents submitted are not in compliance with the Project Submittal Requirement Standards, Space Inventory - Room Number Assignment Standards, and CAD Standards.

# PROJECT SUBMITTAL REQUIREMENTS PART 2: CAD STANDARDS

#### **CHAPTER I: UTILIZING THE CAD STANDARDS**

**A. Introduction:** This chapter describes how to conform to the CAD Standards, the purpose, guidelines, and related procedures.

#### B. Related Documents:

1. Exhibit B, CAD Standard Master Layer List

#### C. References:

- 1. United States National CAD Standard Guidelines Version 3.1
- D. Purpose: Provide for a common medium of information exchange. In fact, the true power and potential of CAD is the ability to re-use and share the information contained within the CAD document. The key to realizing this potential is common organizing principles—standards for the production and dissemination of CAD information. The standard organization of files, layers and entities, as well as standardized software applications is essential for effective work and communication. Standards are necessary to ensure that:
  - **1.** CAD drawings and data created in one phase (e.g., design) are readily usable in subsequent phases (e.g., facility management).
  - 2. Drawings and data are applicable for their intended use.
  - 3. Drawings and data are compatible with the available CAD equipment and software.
  - **4.** Drawings and data created for one project or project discipline, are compatible with those created for others.
  - **5.** Drawings and data can be transferred and integrated with other applications, such as facility management.
  - **6.** Drawings and data created in one department of the University are consistent with those developed by the other departments.
  - 7. The compatibility of the University CAD drawings and data with pertinent national, international and industry standards is maintained.
- **E. Guidelines:** To ensure that the University of Illinois and its Consultants conform to the broader scope of the proposed National CAD Standard, sponsored by the National Institute of Building Sciences (NIBS) CADD Council, these Standards incorporate recommended guidelines from the following:
  - 1. United States National CAD Standard Guidelines Version 3.1
- F. Comprehensive Facilities Management Strategy: The University of Illinois has multiple information management systems that require data be specifically formatted for compatibility. This document sets performance standards for CAD data delivered to the University. The University does not intend to influence the methods or means of practice of outside Consultants. Consultants may use any CAD system to develop construction documents for

the University, as long as the delivered data conforms to the current University CAD Standards.

**Commitment:** The University is committed, however, to enforcing the standards of information delivery that ensure predictability and the ability to easily reuse information. As a result, these CAD Standards will be included as part of the Professional Services Consultant Requirements: Project Submittal Requirements.

- H. Scope: This data specification covers all Construction Documents prepared by or on behalf of the University. CAD drawings shall be provided for all Projects, regardless of size. The deliverables described in this manual shall be provided for each sheet that is issued for construction in a Project and shall include all supporting data files that are used to produce the finished sheets. If additional electronic design drawings or 3D models are provided, it is the responsibility of the Consultant to initiate discussion with the Chief Engineering Draftsman, Planning Resources to determine an acceptable format for those deliverables.
- I. Application: Anyone who is going to prepare CAD data for the University, including University staff, Contractors, and Consultants, shall read and become familiar with this document before proceeding with any work. (The term "Consultant" used in this manual refers to the person or organization who is preparing the CAD data, whether the person or organization is part of the University or not.)
- J. Basic CAD Software Requirements: The designated CAD software for the University is Autodesk's AutoCAD. All CAD files are required to be delivered in AutoCAD's .dwg file format.
- K. CAD Application Software: CAD application software packages operate on top of, or in conjunction with, the basic CAD software to extend its capabilities. The extensions enhance design, drafting and modeling productivity and link non-graphic attribute data to the graphic entities. All CAD application packages used by the University, or its Consultants, which modify or create CAD layers or other entities shall comply with these Standards.
- L. Inquiries about the CAD Standards: These Standards will be most effective for the University and most usable for Consultants if there is communication between Consultants, the Owner's Representative and the Chief Engineering Draftsman, Planning Resources.

Consultants should ask questions about the CAD Standards before beginning work. Concerns regarding the impact of the CAD standards on a particular Project shall be discussed with the Owner's Representative and the Chief Engineering Draftsman, Planning Resources.

Consultants' questions are valuable because they help the University understand the real-world conditions of each Project's design and construction process. Questions will raise issues that will result in better CAD Standards.

M. Requests for Improving the CAD Standards: The content of this manual is intended to be neither static nor all-inclusive. Suggestions for improvements are encouraged so that subsequent updates reflect the needs of the University. Submit requests, as well as any pertinent new information, to the Chief Engineering Draftsman, Planning Resources.

#### CHAPTER II: TECHNICAL REQUIREMENTS FOR CAD STANDARDS

- **A. Introduction:** The organization and format of the CAD deliverables shall support the requirements of the University Project for design, construction, bidding and archiving. The deliverable shall also readily support the integration of information into other University facility management systems with minimal additional effort.
- **B. Drawing Setup:** This chapter describes how to organize and set up CAD drawings for the University. Consultants shall obtain prior approval from the Owner's Representative and Chief Engineering Draftsman, Planning Resources for any exceptions to the drawing set up Standards. Consultants shall submit documentation that shows the files affected and how they deviate from the Standards.
  - Drawing Units: Architectural CAD files shall be drawn using architectural (feet and inches). Civil engineering CAD files shall be drawn using decimal (feet and hundredths). No metric equivalents. NO METRIC EQUIVALENTS.
  - 2. Drawing Accuracy: All CAD drawings shall be drafted using precision input employing the most accurate source material available. For all drawing entities, zero tolerance is required, all lines meet at intersections, straight lines are straight, blocks are inserted properly without overlap, etc.
    - Consultants are responsible for the accuracy of all CAD drawings delivered to the University, regardless of the accuracy of CAD drawings of previous projects furnished by the University as a convenience to the consultant.
  - 3. **Drawing Scale:** Objects created in model space shall be drawn at 1:1 scale (e.g. a 100-foot wall will be drawn to 100 feet and a 36-inch column will be drawn to 36 inches).
    - The following types of CAD models may be drawn to any scale: schedules, riser diagrams, schematic diagrams and single line diagrams.
  - **4. Drawing Origin and Registration:** The origins of CAD files shall be defined at coordinates 0, 0, 0. This is typically the lower left corner of the building. For non-rectilinear buildings a logical origin point shall be established. The model shall be oriented so North is either to the top (^) or left (<) on the drawing document.
    - The origin point shall remain consistent between all CAD files in a Project. This is critical for correct registration of different CAD files when referenced together, aligning the various views of the facility. Registration of electronic data shall be maintained so the information will be usable in future applications.
      - a. Exception: Civil engineering CAD files (Topographic-Site Surveys, Building Site Plans, Utility Site Plans etc.) shall use true geographic coordinates for their origins. Horizontal Datum shall be based upon Illinois State Coordinate System East Zone North American Datum of 1983 (2011) "NAD 1983 ILLINOIS STATE PLANE, EAST ZONE" and North American Vertical Datum 1988, "NAVD 1988".
  - 5. Graphic Representation of Entities
    - **a. Curved Entities:** Circles, arcs and ellipses shall be created as individual entities, not of line segments.

**b. Entity Properties:** Entity properties such as color, line weight, and linetype shall be set BYLAYER, for purposes of clarity.

Line weight and color affect the use of CAD data in different ways. Line weight typically is most effective when working with plotted CAD files. Plots, or reproductions of plots, are typically monochrome. Utilizing line weights can be an effective means of communicating important information about the facility and the design Project.

Color is most useful when displaying the CAD data on a computer screen. Colors allow users to readily identify systems and unique types of information.

Consultants shall select line weights and colors that promote effective use of the CAD data, in both plotted and electronic formats.

**6. Line Type Scale:** Line type scale shall be set so that each line type is recognizable, easily identified, and distinguishable to individuals who are working in the CAD files and in final plotted output.

#### 7. Text Requirements

- a. The text height requirement for all University of Illinois Cad files shall be 1/10 of an inch minimum.
- b. Text shall be all upper case, except for cases where symbols require lower case letters.
- **c.** Text shall be placed in the CAD file with enough space around it, to allow for legibility when the CAD file is plotted and reproduced.
- **d.** Text placed at an angle shall be readable from bottom or right edge of the plotted sheet. Typically text shall be place at 0 or 90 degrees.
- **e.** Text placed along (aligned above or below) an object at an angle other than 0 or 90 degrees is acceptable.

#### 8. Dimension Requirements

- a. Associative dimensions shall be used.
- **b.** Dimension style names shall be consistent between CAD files within a Project.
- **9. Blocks:** Any graphic entity that occurs repeatedly in drawings shall be made into a block. Insertion points for blocks shall be consistent with its placement in the drawing. Use a logical insertion point (center of circle, bottom left corner of object, etc.). Keep names simple and descriptive. AutoCAD block names shall be unique within each Project. Nested blocks contain more than one block definition. Nested blocks are permitted but should be avoided whenever possible. Blocks shall conform to the *United States National CAD Standard Guidelines Version 3.1.*

- **10. Hatching:** Do not use polylines with increased width as a replacement for poché or hatching.
- 11. Xref (External Reference) Files: Xrefs may be used to subdivide a large CAD drawing into several smaller, more efficient drawings. The use of this procedure will reduce drawing size, increase performance, improve operator efficiency and make coordination of disciplines easier. Xrefs may also be used to split a drawing by disciplines. There shall be no specific drive or directory references associated with the xrefs. All xrefs shall reside in the same directory as the drawing files.
- **C.** Layers: The University has adopted the CAD layer naming convention published by the United States National CAD Standard Version 3.1. Consultants shall follow this layer naming system when producing CAD files for the Project.

Layer names and assignments are shown in *Exhibit 00100-1*, *CAD Standard Master Layer List*. The layer table categorizes layers by discipline, and by type of information. This table also shows several items for each layer, as follows: a complete listing of all layer names, a detailed definition for each layer, and the presentation graphics associated with each layer, including color, and line type.

Consultants who wish to use additional layers shall submit a list of proposed layer names to the Chief Engineering Draftsman, Planning Resources.

1. Layer Format: The University's layer guidelines are organized as a hierarchy. The convention utilizes a scheme of naming layers with four field groups. The four groups are discipline code, major group, minor group and status field:

Disciplin Code	Major Group Minor Group		Major Group			S	Status	Field	k					
	-				_	-				 -				

2. Discipline Code: The Discipline Code is a two-character field with the second character either a hyphen or a user-defined modifier. The defined codes are the same for both layers and file names. Table 1 shows the letters that shall be used for the first character of the discipline code.

Code	Discipline
Α	Architectural
С	Civil
Е	Electrical
F	Fire Protection
G	General
Н	Heating
HZ	Hazardous Materials
I	Interiors

L	Landscape
М	Mechanical
Р	Plumbing
S	Structural
Т	Telecommunications
V	Ventilation

Table 1: CAD layer discipline codes

- **3. Major Group:** Major groups are a four-character field used to identify the building system. Major groups are typically grouped with specific discipline codes. For example, a drawing might contain the following layers:
  - a. A-WALL Walls
  - b. A-DOOR Doors
  - c. C-PKNG Parking Lots
- **4. Minor Group:** Minor groups add an additional set of information to the layer names. It is an optional, four-character field that further differentiates major groups into types of information. For example, A-WALL-PRHT indicates architecture, new, wall, partial height.
- 5. User-Definable Fields: The minor group field can be defined by the user, allowing additional layers to be added to accommodate special Project requirements. This shall only be done if a defined layer does not apply to a Project. Some examples of layers using a user-defined minor group field are as follows:
  - a. A-DOOR-METL Metal doors
  - b. A-WALL-STRC Walls to structure
  - c. A-FURN-PNL1 Furniture panels from manufacturer 1
  - d. A-FURN-PNL2 Furniture panels from manufacturer 2
  - e. Common Layers Used in All Files
- **6. Annotation Layers:** Annotation comprises text, dimensions, sheet borders, detail references, and other elements on CAD drawings that do not represent physical aspects of a building. Annotation is designated by the major group "ANNO." See University of Illinois Standard Layers List *Exhibit B, CAD Standard Master Layer List* for examples of annotation layers.
- **7. Status layers:** The status field is an optional, four-character field that designates the phase of construction and status of the elements. This field is optional and is only needed when phases of work need to be differentiated.

The status field is always placed as the last field of the layer name. In a simple layer name such as A-WALL, the status field would be the third field, A-WALL-DEMO. In a more detailed layer name, the status field would be the fourth field, A-WALL-INTR-DEMO. See University of Illinois Standard Layers List *Exhibit B, CAD Standard Master Layer List* for status field designators.

**D. Preparing Drawings for Submittal:** Refer to Part 1: Submittal Requirements, Section H: Drawing Requirements.

# PROJECT SUBMITTAL REQUIREMENTS PART 3: SPACE INVENTORY - ROOM NUMBER ASSIGNMENT STANDARDS

A. Introduction: This document provides guidance for establishing a consistent and intuitive room numbering system within University buildings.

#### **B.** Related Documents and Standards:

- 1. Drawing 00100-1, Space Inventory Room Number System
- 2. Drawing 00100-2, Space Inventory Actual Room Use Assignments
- 3. Drawing 00100-3, Space Inventory Area Polylines
- 4. CAD Standards

#### C. References:

- 1. Postsecondary Education Facilities Inventory and Classification Manual
- **D. Purpose:** Allow better navigation of the buildings on campus for students, staff, maintenance personnel, and emergency personnel. Ensure room numbers conform to the University's Space Inventory database structure.

#### F. Room Numbering Guidelines:

- 2. Room number layout shall begin at the main entrance of the building proceeding in a clock-wise direction.
- 3. Odd room numbers and even room numbers shall be placed on opposite sides of the corridor. (Example: Odd room number 1015 shall be across the corridor from even room number 1016). Proceeding clock-wise from the main entrance, even room numbers shall be assigned to rooms on the left side of the corridor, odd room numbers shall be assigned to rooms on the right side of the corridor.
- **4.** Vertical similarity shall be maintained between floors of the building. Special consideration shall be given to restrooms and mechanical areas.
- **5.** Room numbers shall be assigned in accordance with the ranges listed below for each floor of the building.
  - **a.** Basement: 1 999
  - **b.** Ground Floor / First Floor: 1000 1999
  - **c.** Second Floor: 2000 2999
  - **d.** Third Floor: 3000 3999
  - **e.** Fourth Floor: 4000 4999 etc.
- **6. Planning:** Omitting room numbers from the sequence in a room numbering system will allow availability of room numbers for future room remodels.
- 7. **Primary Room Numbers:** Rooms that can be accessed from a corridor shall be assigned a primary room number (Example: 1000, 1001, or 1002). See *Drawing 00100-1*.

- **8. Alpha Suffix Room Numbers:** Rooms that can be accessed only from a room with a primary room number shall be assigned an alpha suffix room number. Example: 1000A, 1000B, or 1000C. See *Drawing 00100-1*.
- Alpha-Numeric Suffix Room Numbers: Rooms that can be accessed only from a room with an alpha suffix room number shall be assigned an alpha-numeric suffix room number. Example: 1000A1, 1000A2, or 1000A3. See *Drawing 00100-1*.
- 10. C-Prefix Room Numbers: Circulation area spaces shall be assigned a C-Prefix room number. Corridors, vestibules, unfurnished commons areas, and elevator lobby areas are examples of circulation area spaces. Example: C1000, C1050, and C1100. See *Drawing* 00100-1.
- **11. ELEV-Prefix Room Numbers:** Elevators shall be assigned an ELEV prefix room number. Each elevator in a building shall be assigned only one ELEV-prefix room number. Example: ELEV1, ELEV2, or ELEV3. See *Drawing 00100-1*.
- **12. STAIR-Prefix Room Numbers:** Stairwells shall be assigned a STAIR prefix room number. Each stairwell in a building shall be assigned only one STAIR-prefix room number. Example: STAIR1, STAIR2, or STAIR3. See *Drawing 00100-1*.
- **13. Exceptions to Standards:** Consultant shall contact the Coordinator of Records Management for approval of any exceptions to the *A / E Requirements Space Inventory Room Number Assignment Standards*.
- **F. Room Use:** All rooms in a room number system shall be assigned an Actual Room Use Code and Name, in accordance with the *Postsecondary Education Facilities Inventory and Classification Manual* standards for room usages see Table 1: Actual Room Uses below. See *Drawing 00100-2*.
  - 1. Postsecondary Education Facilities Inventory & Classification Manual: This manual may be ordered *free of charge* from the U.S. Department of Education. However, only one manual per customer. Ordering information below:

U.S. DEPARTMENT OF EDUCATION 1-877-4ED-PUBS, 1-877-433-7827 P.O. BOX 1398 JESSUP, MD 20794-1398 http://www.edpubs.org

- 2. Assignable Space: According to the *Postsecondary Education Facilities Inventory* and Classification Manual, the definition for Assignable Space is "The sum of all areas on all floors of a building assigned to or available for assignment to, an occupant or for specific use".
- 3. Non-Assignable Space: According to the *Postsecondary Education Facilities Inventory and Classification Manual*, the definition for Non-Assignable Space is "The sum of all areas on all floors of a building not available for assignment to an occupant or for specific use, but necessary for the general operation of a building".

	100 SERIES - CLASSROOM FACILITIES				
110	C	Classroom			
115	c	Classroom Service			
	200 SERIES - LABO	RATORY FACILITIES			
210	C	Class Laboratory			
215	c	Class Laboratory Service			
220	k	Open Laboratory			
225	C	Open Laboratory Service			
250	N	Non-Class Laboratory			
255	N	Non-Class Lab Service			
	300 SERIES - OF	FFICE FACILITIES			
310	C	Office			
315	C	Office Service			
350	C	Conference Room			
355	C	Conference Room Service			
	400 SERIES - ST	TUDY FACILITIES			
410	S	Study Room			
420	S	Stack			
430	C	Open Stack Study Room			
440	F	Processing Room			
455	9	Study Service			
	500 SERIES - SPEC	IAL USE FACILITIES			
510	A	Armory			
515	A	Armory Service			
520	A	Athletic/Physical Ed			
523		Ath. Fac. Spectator Seat			
525	A	Athletic/P.E. Service			
530	N	Media Production			
535	N	Media Production Service			
540	(	Clinic (Non-Health Prof.)			
545	(	Clinic Service (Non-Hlth)			
550		Demonstration			
555		Demonstration Service			
570	A	Animal Quarters			
575	A	Animal Quarters Service			
580	C	Greenhouse			
585	(	Greenhouse Service			
590		Other			
	600 SERIES - GENE	RAL USE FACILITIES			
610	A	Assembly			
615	A	Assembly Service			
620	E	Exhibition			
625	E	Exhibition Service			
630	F	Food Facilities			
635	F	Food Facilities Service			

650	
	Lounge
655	Lounge Service
660	Merchandising
665	Merchandising Service
670	Recreation
675	Recreation Service
680	Meeting Room
685	Meeting Room Service
700 SERIES - SU	IPPORT FACILITIES
710	Central Comp./Telecom
720	Shop
725	Shop Service
730	Central Storage
735	Central Storage Service
740	Vehicle Storage
745	Vehicle Storage Service
750	Central Service
755	Central Services Support
760	Hazardous Materials
765	Hazardous Materials Serv.
780	Unit Storage
800 SERIES - HEAL	TH CARE FACILITIES
810	Patient Bedroom
820	Patient Bath
830	Nurse Station
830 840	Nurse Station Surgery
840	Surgery
840 850	Surgery Treatment/Examination
840 850 860	Surgery Treatment/Examination Diagnostic Service Lab.
840 850 860 870	Surgery Treatment/Examination Diagnostic Service Lab. Central Supplies
840 850 860 870 880	Surgery Treatment/Examination Diagnostic Service Lab. Central Supplies Public Waiting
840 850 860 870 880	Surgery Treatment/Examination Diagnostic Service Lab. Central Supplies Public Waiting Staff On-Call Fac. Serv.
840 850 860 870 880 895 <b>900 SERIES - RES</b>	Surgery Treatment/Examination Diagnostic Service Lab. Central Supplies Public Waiting Staff On-Call Fac. Serv. IDENTIAL FACILITIES
840 850 860 870 880 895 <b>900 SERIES - RES</b>	Surgery Treatment/Examination Diagnostic Service Lab. Central Supplies Public Waiting Staff On-Call Fac. Serv. IDENTIAL FACILITIES Sleep/Study w/o toilet/bath
840 850 860 870 880 895 <b>900 SERIES - RES</b> 910	Surgery Treatment/Examination Diagnostic Service Lab. Central Supplies Public Waiting Staff On-Call Fac. Serv. IDENTIAL FACILITIES Sleep/Study w/o toilet/bath Toilet/Bath Sleep/Study w/ toilet/bath
840 850 860 870 880 895 <b>900 SERIES - RES</b> 910 919	Surgery Treatment/Examination Diagnostic Service Lab. Central Supplies Public Waiting Staff On-Call Fac. Serv. IDENTIAL FACILITIES Sleep/Study w/o toilet/bath Toilet/Bath
840 850 860 870 880 895 <b>900 SERIES - RES</b> 910 919 920 935	Surgery Treatment/Examination Diagnostic Service Lab. Central Supplies Public Waiting Staff On-Call Fac. Serv.  IDENTIAL FACILITIES Sleep/Study w/o toilet/bath Toilet/Bath Sleep/Study w/ toilet/bath Sleep/Study Service
840 850 860 870 880 895 <b>900 SERIES - RES</b> 910 919 920 935 950	Surgery Treatment/Examination Diagnostic Service Lab. Central Supplies Public Waiting Staff On-Call Fac. Serv.  IDENTIAL FACILITIES Sleep/Study w/o toilet/bath Toilet/Bath Sleep/Study w/ toilet/bath Sleep/Study Service Apartment
840 850 860 870 880 895 <b>900 SERIES - RES</b> 910 919 920 935 950	Surgery Treatment/Examination Diagnostic Service Lab. Central Supplies Public Waiting Staff On-Call Fac. Serv.  IDENTIAL FACILITIES Sleep/Study w/o toilet/bath Toilet/Bath Sleep/Study w/ toilet/bath Sleep/Study Service Apartment Apartment Service House
840 850 860 870 880 895 <b>900 SERIES - RES</b> 910 919 920 935 950 955 970 999	Surgery Treatment/Examination Diagnostic Service Lab. Central Supplies Public Waiting Staff On-Call Fac. Serv.  IDENTIAL FACILITIES Sleep/Study w/o toilet/bath Toilet/Bath Sleep/Study w/ toilet/bath Sleep/Study Service Apartment Apartment Service House Quasi Space
840 850 860 870 880 895 <b>900 SERIES - RES</b> 910 919 920 935 950 955 970 999 <b>000 SERIES - UNCL</b>	Surgery Treatment/Examination Diagnostic Service Lab. Central Supplies Public Waiting Staff On-Call Fac. Serv. IDENTIAL FACILITIES Sleep/Study w/o toilet/bath Toilet/Bath Sleep/Study w/ toilet/bath Sleep/Study Service Apartment Apartment Service House Quasi Space ASSIFIED FACILITIES
840 850 860 870 880 895 <b>900 SERIES - RES</b> 910 919 920 935 950 955 970 999 <b>000 SERIES - UNCL</b>	Surgery Treatment/Examination Diagnostic Service Lab. Central Supplies Public Waiting Staff On-Call Fac. Serv.  IDENTIAL FACILITIES Sleep/Study w/o toilet/bath Toilet/Bath Sleep/Study w/ toilet/bath Sleep/Study Service Apartment Apartment Service House Quasi Space  ASSIFIED FACILITIES Inactive Area
840 850 860 870 880 895 <b>900 SERIES - RES</b> 910 919 920 935 950 955 970 999 <b>000 SERIES - UNCL</b>	Surgery Treatment/Examination Diagnostic Service Lab. Central Supplies Public Waiting Staff On-Call Fac. Serv. IDENTIAL FACILITIES Sleep/Study w/o toilet/bath Toilet/Bath Sleep/Study w/ toilet/bath Sleep/Study Service Apartment Apartment Service House Quasi Space ASSIFIED FACILITIES

NON-ASSIGNABLE AREA				
www		Circulation Area		
	W01	Bridge/Tunnel		
	W02	Elevator		
	W03	Escalator		
	W04	Loading Dock		
	W05	Lobby		
	W06	Public Corridor		
	W07	Stairway		
XXX		Custodial Area		
	X01	Custodial Supply Closet		
	X02	Janitor Room		
	X03	Public Rest Room		
	X04	Trash Room		
YYY		Mechanical Area		
	Y01	Central Utility Plant		
	Y02	Fuel Room		
	Y03	Shaft		
	Y04	Utility/Mechanical Space		
	STRU	JCTURAL AREA		
ZZZ		Structural Area		

Table 1: Actual Room Uses

- **G. Identification Devices:** All rooms in the space inventory room number system (including, corridors, elevators, janitor closets, mechanical rooms, restrooms, stairwells, vestibules, etc.) shall receive an identification device.
  - 1. The identification device shall display the room number assigned to that room in the space inventory room number system. (Example: room number assignment ELEV1 shall be displayed as "ELEV1").
  - **2.** Identification devices shall conform to the "U.I.U.C Facility Standards, Division 10 Specialties, Section 10440 Identifying Devices".
- **H. Drawing Requirements:** Space Inventory data shall be added to CAD files in accordance with the University's "CAD Standards Section". See CAD Standard Master Layer List, Exhibit B, and Space Inventory Room Number Assignment Standards, Drawings 00100-1, 00100-2, and 00100-3.
- I. Conformance to Room Number Assignment Standards: The Room Numbering Systems delivered to the University by Consultants shall comply with the University "Space Inventory Room Number Assignment Standards" in effect during the current Project.

The University requires sample submittals at key milestones during development of the room numbering system in accordance with the Professional Services Consultant Contract.

Sample submittals are not intended to be a burden on the Consultant, and typically will involve a very limited number of drawings. The University requires digital media submittals, as a minimum, be provided at the first and final submittal milestones.

Providing digital media at the first submittal milestone will allow the University to verify the room numbering system being used by the Consultant conforms to the University's *Space Inventory - Room Number Assignment Standards* and can be readily used in the University's Space Inventory database.

## **EXHIBITS**

EXHIBIT A: SUBMITTAL REQUIREMENTS & SPACE INVENTORY CHECKLIST

**EXHIBIT B: CAD STANDARD MASTER LAYER LIST** 

### **Exhibit A: Submittal Requirements & Space Inventory Checklist**

Project		Phase
Project Mar	nager	Review Date
	Compliant with  O CAD Standards (see separate CAD Standards  O Space Inventory – Room Number Assignment  ■ Room Number Systems <sup>2</sup> ■ Actual Room Use Assignments <sup>3</sup> ■ Area Polylines <sup>4</sup>	
	Transmittal Form (including, but not limited to:) <sup>5</sup> o University Project Number o University Project Name as approved by Board o Phase	d of Trustees
	CD-Rom or DVD <sup>6</sup> Label      University Project – Name, Number and University Building – Name, Number     University Project Manager     Consultant – Name, Contact Information Phase     Content Description (e.g. Project Manu Date of Submittal Documents     Date Submitted  Files     One project per CD or DVD     Uncompressed files     Folder structure:     Drawings Project Manu Drawings Project Manu Drawings Project Manu Drawings Project Manu Date Submitted      All sheets submitted in hard copy are states.	al and Project Drawings)
	Review Copies Delivered to: <sup>7</sup> O Project Manager – 1 half-size O Code Compliance Officer – 1 half-size O Quality Assurance – 1 full-size, 1 half-size, e-c  At Bid – 2 full-size, 1 half-size, e-copy ( CITES Plant Design – 1 full-size O CITES Classroom & Conference Media Engine O Project Department – 1 full-size (if Deferred Material College – 1size O Other	opy (all with manuals) all with manuals) eering – 1 full-size

Project Submittal Requirements: Section B

<sup>2</sup> Space Inventory – Room Number Assignment Standards: Section E, and Drawing 00100-1

<sup>3</sup> Space Inventory – Room Number Assignment Standards: Section F, and Drawing 00100-2

<sup>4</sup> Space Inventory – Room Number Assignment Standards: Section H, and Drawing 00100-3

<sup>5</sup> Project Submittal Requirements: Section F1 Project Submittal Requirements: Section F1

<sup>&</sup>lt;sup>7</sup> Project Submittal Requirements: Section F

	Close-Out <sup>8</sup>
	o Quality Assurance:
	1 paper copy of both Drawings (full-size) and Project Manual
	<ul> <li>1 electronic sets of both Drawings and Project Manual</li> </ul>
	<ul> <li>Project Department/College:</li> </ul>
	<ul><li>number ofsize paper Drawings and Project Manuals</li></ul>
	<ul> <li>number of electronic sets of both Drawings and Project Manuals</li> </ul>
_	D : (14 19
	Project Manual <sup>9</sup>
	o Cover
	<ul> <li>Project Title as appears in PRZM, or approved by Board of Trustees</li> </ul>
	UIUC Project Number
	<ul> <li>Building Name and Number OR</li> </ul>
	<ul> <li>Utility Name</li> </ul>
	■ Phase
	Logo in compliance with Campus Identity Standards
	o Paper Copy
	<ul> <li>Bound (no ACCO-style bare metal fasteners, staples, or post bindings)</li> </ul>
	<ul> <li>Split if over 300 pages or over 1.5" thick</li> </ul>
	o E-copy
	MS Word     Uncompressed
	<ul><li>Uncompressed</li><li>Files named by spec section</li></ul>
	<ul><li>pdf</li></ul>
	<u>Drawings</u> 10
	o Title Block
	<ul> <li>Project Title as appears in PRZM, or as approved by Board of Trustees</li> </ul>
	<ul> <li>UIUC Project Number</li> </ul>
	<ul> <li>Building Name and Number or Utility Name</li> </ul>
	<ul><li>Phase</li></ul>
	<ul> <li>Drafting Person's Initials</li> </ul>
	<ul><li>Reviewer's Initials</li></ul>
	<ul> <li>Drawing Title</li> </ul>
	<ul> <li>Drawing Number</li> </ul>
	<ul> <li>Revision Number, Date, and Description</li> </ul>
	<ul> <li>Logo in compliance with Campus Identity Standards</li> </ul>
	o Paper Copy
	<ul> <li>Complies with CAD Standards</li> </ul>
	<ul><li>Bound (no single corner staples)</li></ul>
	<ul> <li>Volumes no more than 100 sheets</li> </ul>
	o E-copy
	Complies with CAD Standards     Total CAD Standards
	<ul> <li>1 set unbound CAD drawings – eTransmit or Pack-n-go, "Place all files in one folder"</li> </ul>
	Transmittal Option
	<ul> <li>1 set pdf (1 drawing per file, searchable, rotated to correct direction)</li> </ul>
	<ul> <li>Uncompressed</li> <li>Drawing files named by sheet number(s) (if multiple levent tabled and files are</li> </ul>
	<ul> <li>Drawing files named by sheet number(s) (if multiple layout tabbed cad files are submitted, tabs named same as drawing number)</li> </ul>
	No file prefixes or suffixes, except to help sort files per paper set
	e.g. G-1.dwg may be named 001_G-1.dwg
	C100-C104.dwg may be named 001_G-1.dwg
	<ul> <li>Remove extraneous objects, purge, zoom to display sheet or model, remove non-</li> </ul>
	pertinent files, do not explode blocks.
	<ul> <li>Include all necessary associated files (e.g. fonts, plot styles).</li> </ul>
	morade an necessary accordated most (o.g. fortie, plot styles).

<sup>&</sup>lt;sup>8</sup> Project Submittal Requirements: Section F3 <sup>9</sup> Project Submittal Requirements: Section G <sup>10</sup> Project Submittal Requirements: Section H

## **EXHIBIT B: CAD STANDARD MASTER LAYER LIST**

General Information			
Annotation Layers			
Annotation Layers Key Plans, Schedules, Legends &			
Misc			
		Line	
Layer Name	Layer Description	Type	Color #
*-ANNO-TEXT	Text	Varies	Varies
*-ANNO-REDL	Redline	Varies	Varies
*-ANNO-SYMB	Symbols	Varies	Varies
*-ANNO-LEGN	Legends and schedules	Varies	Varies
*-ANNO-DIMS	Dimensions	Varies	Varies
*-ANNO-TTLB	Border and title block	Varies	Varies
*-ANNO-NOTE	Notes	Varies	Varies
*-ANNO-NPLT	Construction lines, nonplotting information	Varies	Varies
*-ANNO-KEYN	Key notes	Varies	Varies
*-ANNO-REVS	Revisions	Varies	Varies
*-ANNO-XREF	Reference files	Varies	Varies
*-ANNO-GRID	Grid Index	Varies	Varies
	*Note: Annotation layer names may be appended		
	with a four-character sheet name designator when		
	needed.		
Common Modifiers			
*-****-PATT	Cross - hatching, poch'e	Varies	Varies
*-***-IDEN	Identification tags	Varies	Varies
*-***-ELEV	Elevation (vertical surfaces in 3D)	Varies	Varies
X-RDME	Read - me layer, not to be plotted	Varies	Varies
Status Field Modifiers			
*-****-NEWW	New work	Varies	Varies
*-****-EXST	Existing to remain	Varies	Varies
*-****-DEMO	Demolition	Varies	Varies
*-****-FUTR	Future work	Varies	Varies
*-****-ABND	Abandoned	Varies	Varies
*-****-TEMP	Temporary work	Varies	Varies
*-****-MOVE	Items to be moved	Varies	Varies
*-****-RELO	Relocated items	Varies	Varies
*-****-NICN	Not in contract	Varies	Varies
*-****-PHS1-9	Phase numbers (1-9)	Varies	Varies
111010	*Note: The status field may also occur as the fourth	Variou	Variou
	field, following a minor group.		
	, ··		
One-Line Diagram Layers			
Line Work			
*-1LIN-LWRK-IDEN	One-line line work identification - annotation	Varies	Varies
*-1LIN-LWRK-FINE	One-line line work - fine ( 0.000 - 0.009 )	Varies	Varies
*-1LIN-LWRK-THIN	One-line line work - thin ( 0.000 - 0.009 )	Varies	Varies
*-1LIN-LWRK-MEDM	One-line line work - medium ( 0.020 - 0.029 )	Varies	Varies
. L. I. N. L. V V I N I N I L. L. I V I	One into into work - inculatin ( 0.020 - 0.023 )	vancs	v antos

*-1LIN-LWRK-EXWD	One-line line work - extra wide ( 0.040 - )	Varies	Varies
Devices			
*-1LIN-DEVC-IDEN	One-line devices identification - annotation	Varies	Varies
*-1LIN-DEVC-FINE	One-line devices - fine ( 0.000 - 0.009 )	Varies	Varies
*-1LIN-DEVC-THIN	One-line devices - thin ( 0.010 - 0.019 )	Varies	Varies
*-1LIN-DEVC-MEDM	One-line devices - medium ( 0.020 - 0.029 )	Varies	Varies
*-1LIN-DEVC-WIDE	One-line devices - wide ( 0.030 - 0.039 )	Varies	Varies
*-1LIN-DEVC-EXWD	One-line devices - extra wide ( 0.040 - )	Varies	Varies
Riser Diagram Layers			
*-RISR-LWRK-IDEN	Riser diagram line work identification - annotation	Varies	Varies
*-RISR-LWRK-FINE	Riser diagram line work - fine ( 0.000 - 0.009 )	Varies	Varies
*-RISR-LWRK-THIN	Riser diagram line work - thin ( 0.010 - 0.019 )	Varies	Varies
*-RISR-LWRK-MEDM	Riser diagram line work - medium ( 0.020 - 0.029 )	Varies	Varies
	· · · · · · · · · · · · · · · · · · ·		
*-RISR-LWRK-WIDE	Riser diagram line work - wide ( 0.030 - 0.039 )	Varies	Varies
*-RISR-LWRK-EXWD	Riser diagram line work - extra wide ( 0.040 - )	Varies	Varies
Detail Layers			
*-DETL-ACCS	Detail accessories	Varies	Varies
	Detail concrete masonry unit (CMU) outline (no		
*-DETL-CMUW	patterning)	Varies	Varies
*-DETL-CONC	Detail concrete	Varies	Varies
*-DETL-COVR	Detail covers and fittings	Varies	Varies
*-DETL-DEVC	Detail devices (e.g. valves, meters, pump stations etc.)	Varies	Varies
	Detail witness/extension lines, dimension		
*-DETL-DIMS	arrowheads/dots/slashes, dimension text	Varies	Varies
*-DETL-ERTH	Detail earth	Varies	Varies
*-DETL-FAST	Detail fasteners	Varies	Varies
*-DETL-FENC	Detail fencing	Varies	Varies
*-DETL-FILL	Detail fill	Varies	Varies
*-DETL-FNGR	Detail finished grade	Varies	Varies
*-DETL-FTTG	Detail fittings (e.g. tees, crosses, reducers etc.)	Varies	Varies
-	Detail general features (miscellaneous items		
*-DETL-GENF	including details within the detail)  Detail junctions (e.g. manholes, pedestals,	Varies	Varies
*-DETL-JUNC	handholes etc.)		
* DET! AID! T	Detail non-plotting - construction lines, reference	., .	., .
*-DETL-NPLT	targets, area calculations, review comments	Varies	Varies
*-DETL-MISC	Detail joint materials (e.g. felt), vapor barrier, other	Varies	Varies
*-DETL-MODL	Detail model		
*-DETL-PIPE	Detail piping	Varies	Varies
*-DETL-PATT	Detail miscellaneous patterning	Varies	Varies
*-DETL-PAVE	Detail pavement	Varies	Varies
*-DETL-REIN	Detail reinforcement rebar, welded wire mesh	Varies	Varies
*-DETL-SPCF	Detail special features	Varies	Varies
*-DETL-STLS	Detail steel structure wide flange shapes, plates, open web joists, decking, bolts, nails	Varies	Varies
			<u> </u>
*-DETL-STRC	Detail structural metal  Detail reference bubbles, match lines and break	Varies	Varies
*-DETL-SYMB	lines	Varies	Varies
*-DETL-SHDE	Detail shaded line work	Varies	Varies

*-DETL-TANK	Detail tanks	Varies	Varies
*-DETL-TEXT	Detail title text, text and associated leader lines and arrowheads, notes	Varies	Varies
*-DETL-TTLB	Detail border and title block		
*-DETL-WELD	Detail weld symbols	Varies	Varies
*-DETL-WOOD	Detail wood outline (no patterning)	Varies	Varies

Architectural			
		Line	Color
Layer Name	Layer Description	Туре	#
Architectural Layers			
A-AREA-GROS	Architectural area - Exterior and Interior Gross Area each floor plan shall consist of two (2) separate closed polylines. One (1) polyline shall be drawn around the interior face of the exterior wall of the building. One (1) polyline shall be drawn around the exterior face of the exterior wall of the building - See <i>Drawing 00100-3</i> .	Continuous	3
A-AREA-RM	Architectural area - <b>Room Interior Area</b> One (1) closed polyline shall be drawn around the interior face of the walls for each individual room on a floor. See <i>Drawing 00100-3</i> .	Continuous	2
A-AREA-RMID	Architectural area - <b>Room Numbers</b> shall be assigned according to the University's "Space Inventory - Room Number Assignment Standards". See Drawing 00100-1 - annotation	Continuous	4
A-AREA-RUID	Architectural area - <b>Actual Room Use Identifications</b> shall be acquired according to the University's "Space Inventory - Room Number Assignment Standards". See Drawing 00100-2 annotation	Continuous	4
A-AREA-PATT	Architectural area cross hatching	Continuous	Varies
A-CLNG	Architectural ceiling information	Varies	Varies
A-CLNG-ACCS	Architectural ceiling access	Varies	Varies
A-CLNG-CONT	Architectural ceiling control joints	Varies	Varies
A-CLNG-GRID	Architectural ceiling grid	Varies	Varies
A-CLNG-OPEN	Architectural ceiling / roof penetrations	Varies	Varies
A-CLNG-PATT	Architectural ceiling patterns (e.g. gypsum, plaster, user defined)	Varies	Varies
A-CLNG-TEES	Architectural ceiling main tees	Varies	Varies
A-CLNG-SUSP	Architectural ceiling suspended: ceiling mounted specialities (e.g. clocks, fans, etc.)	Varies	Varies
A-COLS-ENCL	Architectural column enclosures / fire protection	Varies	Varies
A-DOOR	Architectural doors	Varies	Varies
A-DOOR-ELEV	Architectural doors: 3D views	Varies	Varies
A-DOOR-FULL	Architectural doors full-height (to ceiling) door: swing and leaf	Varies	Varies
A-DOOR-IDEN	Architectural doors door number, hardware group, etc annotation	Varies	Varies
A-DOOR-PRHT	Architectural doors partial-height door: swing and leaf	Varies	Varies
A-DOOR-SYMB	Architectural doors miscellaneous symbols (e.g. overhead, bifold, pocket, etc.)	Varies	Varies
A-ELEV	Architectural elevations interior and exterior	Varies	Varies

A-ELEV-CASE	Architectural elevations wall-mounted casework	Varies	Varies
A-ELEV-OTLN	Architectural elevations building outlines	Varies	Varies
A-ELEV-FIXT	Architectural elevations miscellaneous fixtures	Varies	Varies
A-ELEV-FNSH	Architectural elevations finishes, woodwork, trim	Varies	Varies
*-***-ABND	Abandoned	Varies	Varies
	Architectural elevations component identification		
A-ELEV-IDEN	numbers - annotation	Varies	Varies
A-ELEV-PATT	Architectural elevations textures and hatch patterns	Varies	Varies
A-ELEV-PFIXT	Architectural elevations plumbing fixtures	Varies	Varies
A-ELEV-SIGN	Architectural elevations signage	Varies	Varies
A-EQPM	Architectural equipment	Varies	Varies
A-EQPM-ACCS	Architectural equipment access	Varies	Varies
A-EQPM-CLNG	Architectural equipment ceiling-mounted or suspended	Varies	Varies
A-EQPM-ELEV	Architectural equipment surfaces: 3D views	Varies	Varies
A-EQPM-FIXD	Architectural equipment fixed (non-moveable)	Varies	Varies
A-EQPM-IDEN	Architectural equipment identification numbers	Varies	Varies
A-EQPM-MOVE	Architectural equipment moveable	Varies	Varies
A-EQPM-NICN	Architectural equipment not in contract	Varies	Varies
A-FLOR	Architectural floor information	Varies	Varies
A-FLOR-CASE	Architectural floor casework (manufacture cabinets)	Varies	Varies
A-FLOR-EVTR	Architectural floor elevator cars and equipment	Varies	Varies
A-FLOR-FIXT	Architectural floor mounted/free standing miscellaneous fixtures (not including toilet fixtures)	Varies	Varies
A-FLOR-HRAL	Architectural floor stair and balcony handrails, guard rails (except handicap grab bars)	Varies	Varies
A-FLOR-IDEN	Architectural floor targets, notes etc - annotation	Varies	Varies
	Architectural floor level changes, ramps, pits,		
A-FLOR-LEVL	depressions, breaks in construction	Varies	Varies
A-FLOR-OTLN	Architectural floor or building outline	Varies	Varies
A-FLOR-OVHD	Architectural floor overhead items (skylights, overhangs usually dashed line)	Varies	Varies
A-FLOR-PATT	Architectural floor paving, tile, carpet patterns	Varies	Varies
A-FLOR-PFIX	Architectural floor plumbing fixtures	Varies	Varies
A-FLOR-RAIS	Architectural floor: raised	Varies	Varies
A-FLOR-RISR	Architectural floor stair risers	Varies	Varies
A-FLOR-SIGN	Architectural floor signage	Varies	Varies
A-FLOR-SPCL	Architectural floor specialties (toilet room accessories - floor mounted only, display cases)	Varies	Varies
A-FLOR-STRS	Architectural floor stair treads, escalators, ladders	Varies	Varies
A-FLOR-TPTN	Architectural floor toilet partitions and handicap grab bars	Varies	Varies
A-FLOR-WDWK	Architectural floor woodwork (field-built cabinets and counters)	Varies	Varies
A-FURN	Architectural furniture	Varies	Varies
A-FURN-CHAR	Architectural furniture chairs and other seating	Varies	Varies
A-FURN-ELEV	Architectural furniture elevations: 3D views	Varies	Varies
A-FURN-FILE	Architectural furniture file cabinets	Varies	Varies
	Architectural furniture: freestanding (desks, credenzas,		
A-FURN-FREE	etc.)	Varies	Varies
A-FURN-IDEN	Architectural furniture numbers	Varies	Varies
A-FURN-PATT	Architectural furniture finish patterns	Varies	Varies
A-FURN-PLNT	Architectural furniture plants	Varies	Varies

A-FURN-PNLS	Architectural furniture system panels	Varies	Varies
A-FURN-POWR	Architectural furniture system power designations	Varies	Varies
A-FURN-STOR	Architectural furniture system storage components	Varies	Varies
	Architectural furniture system work surface		
A-FURN-WKSF	components	Varies	Varies
	Architectural glazing windows, window walls, curtain		
A-GLAZ	walls, glazed partitions	Varies	Varies
A-GLAZ-ELEV	Architectural glazing and mullions elevation views	Varies	Varies
	Architectural glazing full-height glazed walls and		l
A-GLAZ-FULL	partitions	Varies	Varies
A-GLAZ-IDEN	Architectural glazing window number	Varies	Varies
A OLAZ DDUT	Architectural glazing windows and partial-height glazed	\	\/i
A-GLAZ-PRHT	partitions	Varies	Varies
A-GLAZ-SILL	Architectural glazing windowsills	Varies	Varies
A-ROOF ORTO	Architectural roof	Varies	Varies
A-ROOF-CRTS	Architectural roof cricketts flow arrows flow info	Varies	Varies
A-ROOF-DRNS	Architectural roof drains	Varies	Varies
A-ROOF-EDGE	Architectural roof internal gutters	Varies	Varies
A-ROOF-EXPN	Architectual roof expansion joints	Varies	Varies
A-ROOF-HRAL	Architectural roof stair handrails, nosings, guardrails	Varies	Varies
A-ROOF-LEVL	Architectural roof level changes	Varies	Varies
A-ROOF-OTLN	Architectural roof outline	Varies	Varies
A-ROOF-PATT	Architectural roof surfaces patterns, hatching	Varies	Varies
	Architectural roof specialities, accessories, access		
A-ROOF-SPCL	hatches	Varies	Varies
A-ROOF-STRS	Architectural roof stair risers / treads, ladders	Varies	Varies
A-ROOF-WALK	Architectural roof walkways	Varies	Varies
A-WALL	Architectural wall	Varies	Varies
A-WALL-CAVI	Architectural wall: cavity lines	Varies	Varies
A-WALL-CNTR	Architectural wall: centerlines	Varies	Varies
A-WALL-CWMG	Architectural wall: curtain, mullions, & glass	Varies	Varies
A-WALL-ELEV	Architectural wall surfaces: 3D views	Varies	Varies
A-WALL-EXTR	Architectural wall: exterior full height	Varies	Varies
A-WALL-FIRE	Architectural wall: fire wall designators (patterning)	Varies	Varies
A-WALL-HEAD	Architectural wall Door and window headers (appear on reflected ceiling plans)	Varies	Varies
	Architectural wall identification / type text or tags -		
A-WALL-IDEN	annotation	Varies	Varies
A-WALL-INTR	Architectural wall: interior full height	Varies	Varies
	Door and window jambs (do not appear on reflected		
A-WALL-JAMB	ceiling plans)	Varies	Varies
A-WALL-MOVE	Architectural wall: moveable partitions	Varies	Varies
A-WALL-PATT	Wall insulation, hatching and fill	Varies	Varies
A-WALL-PRHT	Partial-height walls (do not appear on reflected ceiling plans)	Varies	Varies
Electrical Layers			
E-LITE	Lighting	Varies	Varies
E-LITE-SPCL	Special lighting	Varies	Varies
E-LITE-EMER	Emergency lighting	Varies	Varies
E-LITE-EXIT	Exit lighting	Varies	Varies
E-LITE-CLNG	Ceiling - mounted lighting	Varies	Varies

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E-LITE-WALL	Wall - mounted lighting	Varies	Varies
E-LITE-FLOR	Floor - mounted lighting	Varies	Varies
E-LITE-OTLN	Lighting outline for background (optional)	Varies	Varies
E-LITE-NUMB	Lighting circuit numbers	Varies	Varies
E-LITE-ROOF	Roof lighting	Varies	Varies
E-LITE-SITE	Site lighting (see also civil group)	Varies	Varies
E-LITE-SWCH	Lighting switches	Varies	Varies
E-LITE-CIRC	Lighting circuits	Varies	Varies
E-LITE-IDEN	Luminaire identification and text	Varies	Varies
E-LITE-JBOX	Junction box	Varies	Varies
E-POWR	Power	Varies	Varies
E-POWR-WALL	Power wall outlets and receptacles	Varies	Varies
E-POWR-CLNG	Power ceiling receptacles and devices	Varies	Varies
E-POWR-PANL	Power panels	Varies	Varies
E-POWR-EQPM	Power equipment	Varies	Varies
E-POWR-SWBD	Power switchboards	Varies	Varies
E-POWR-CIRC	Power circuits	Varies	Varies
E-POWR-URAC	Underfloor raceways	Varies	Varies
E-POWR-UCPT	Under - carpet wiring	Varies	Varies
E-POWR-CABL	Cable trays	Varies	Varies
E-POWR-FEED	Feeders	Varies	Varies
E-POWR-BUSW	Busways	Varies	Varies
E-POWR-NUMB	Power circuits numbers	Varies	Varies
E-POWR-IDEN	Power identification, text	Varies	Varies
E-POWR-SITE	Site power (see also civil group)	Varies	Varies
E-POWR-ROOF	Roof power	Varies	Varies
E-POWR-OTLN	Power outline for backgrounds	Varies	Varies
E-POWR-JBOX	Junction box	Varies	Varies
E-CTRL	Electric control systems	Varies	Varies
E-CTRL-DEVC	Control system devices	Varies	Varies
E-CTRL-WIRE	Control system wiring	Varies	Varies
E-GRND	Ground system	Varies	Varies
E-GRND-CIRC	Ground system circuits	Varies	Varies
E-GRND-REFR	Reference ground system	Varies	Varies
E-GRND-EQUI	Equipotential ground system	Varies	Varies
E-GRND-DIAG	Ground system diagam	Varies	Varies
E-AUXL	Auxiliary systems	Varies	Varies
E-LTNG	Lighting protection system	Varies	Varies
E-FIRE	Fire alarm, fire extinguishers	Varies	Varies
E-COMM	Telephone, communication outlets	Varies	Varies
E-DATA	Data outlets	Varies	Varies
E-SOUN	Sound / PA system	Varies	Varies
E-TVAN	TV antenna system	Varies	Varies
E-CCTV	Closed - circuit TV	Varies	Varies
E-NURS	Nurse call system	Varies	Varies
E-SERT	Security	Varies	Varies
E-PGNG	Paging system	Varies	Varies
E-DICT	Central dictation system	Varies	Varies
E-BELL	Bell system	Varies	Varies
E-CLOK	Clock system	Varies	Varies
E-ALRM	Miscellaneous alarm system	Varies	Varies
E-INTC	Intercom system	Varies	Varies

E-LEGN	Legend of symbols	Varies	Varies
E-1LIN	One - line diagrams	Varies	Varies
E-RISR	Riser diagram	Varies	Varies
E-SITE	Site electrical substations, poles	Varies	Varies
E-SITE-LITE	Site lighting	Varies	Varies
E-SITE-UNDR	Underground electrical lines	Varies	Varies
E-SITE-POLE	Electric poles	Varies	Varies
E-SITE-OVHD	Overhead lines	Varies	Varies
Fire Protection Layers			
F-CO2S	CO <sub>2</sub> system	Varies	Varies
F-CO2S-PIPE	CO <sub>2</sub> sprinkler piping	Varies	Varies
F-CO2S-EQPM	CO <sub>2</sub> equipment	Varies	Varies
F-HALN	Halon	Varies	Varies
F-HALN-EQPM	Halon equipment	Varies	Varies
F-HALN-PIPE	Halon piping	Varies	Varies
F-IGAS	Inert gas	Varies	Varies
F-IGAS-EQPM	Inert gas equipment	Varies	Varies
F-IGAS-PIPE	Inert gas piping	Varies	Varies
F-SPRN	Fire protections sprinkler system	Varies	Varies
F-SPRN-CLHD	Sprinkler head ceiling	Varies	Varies
F-SPRN-OTHD	Sprinkler head other	Varies	Varies
F-SPRN-PIPE	Sprinkler piping	Varies	Varies
F-SPRN-STAN	Sprinkler system standpipe	Varies	Varies
F-STAN	Fire protection standpipe system	Varies	Varies
F-PROT	Fire protection systems	Varies	Varies
F-PROT-EQPM	Fire system equipment (fire hose cabinet extinguishers)	Varies	Varies
F-PROT-ALRM	Fire alarm	Varies	Varies
F-PROT-SMOK	Smoke detectors/heat sensors	Varies	Varies
General Layers			
G-PLAN	Floor plan key plan	Varies	Varies
G-SITE	Site plan key map	Varies	Varies
G-ACCS	Access plan	Varies	Varies
G-FIRE	Fire protection plan	Varies	Varies
G-EVAC	Evacuation plan	Varies	Varies
G-CODE	Code compliance plan	Varies	Varies
Hazardous Layers			
HZ-PLAN	Floor plan	Varies	Varies
HZ-SITE	Site plan	Varies	Varies
Interior Layers			
I-WALL-FULL	Full - height walls, stair and shaft walls, walls to structure	Varies	Varies
	Partial - height walls (do not appear on reflected ceiling	<del></del>	
I-WALL-PRHT	plans)	Varies	Varies
I-WALL-MOVE	Moveable partitions	Varies	Varies
I-WALL-HEAD	Door and window headers (appear on reflected ceiling plan)	Varies	Varies

I-WALL-JAMBceiling plans)VariesI-WALL-PATTWall insulation, hatching and fillVaries	Varies Varies
LWALL-PATT Wall insulation, batching and fill	Varios
TOVALLE ATT   VVAII ITSUIALIOTI, HALCHING AND THE   ValleS	valles
I-WALL-ELEV Wall surfaces: 3D views Varies	Varies
I-WALL-FIRE Fire wall patterning Varies	Varies
I-DOOR Doors Varies	Varies
I-DOOR-FULL Full - height (to ceiling) door: swing and leaf Varies	Varies
I-DOOR-PRHT Partial - height door: swing and leaf Varies	Varies
I-DOOR-IDEN Door number, hardware group, etc. Varies	Varies
I-DOOR-ELEV Doors: 3D views Varies	Varies
I-GLAZ Glazing Varies	Varies
I-GLAZ-FULL Full - height glazed walls and partitions Varies	Varies
I-GLAZ-PRHT Windows and partial - height glazed partitions Varies	Varies
I-GLAZ-SILL Windowsills Varies	Varies
I-GLAZ-IDEN Window number Varies	Varies
I-GLAZ-ELEV Glazing and mullions elevation views Varies	Varies
I-FLOR Floor information Varies	Varies
I-FLOR-OTLN Floor or building outline Varies	Varies
I-FLOR-LEVL Level changes, ramps, pits, depressions Varies	Varies
I-FLOR-STRS Stairs treads, escalators, ladders Varies	Varies
I-FLOR-RISR Stair risers Varies	Varies
I-FLOR-HRAL Stair and balcony handrails, guard rails Varies	Varies
I-FLOR-EVTR Elevator cars and equipment Varies	Varies
I-FLOR-TPTN Toliet partitions Varies	Varies
Architectural specialties (toilet room accessories,	
I-FLOR-SPCL display cases) Varies	Varies
Architectural woodwork (field - built cabinets and	
I-FLOR-WDWK counters) Varies	Varies
I-FLOR-CASE Casework (manufactured cabinets) Varies	Varies
Overhead items (skylights, overhangs usually	
I-FLOR-OVHD dashed lines) Varies	Varies
I-FLOR-RAIS Raised floors Varies	Varies
I-FLOR-IDEN Room numbers, names, targets, etc. Varies	Varies
I-FLOR-PATT Paving, tile, carpet patterns Varies	Varies
I-FLOR-PFIX Plumbing fixture Varies	Varies
I-FLOR-FIXT Miscellaneous fixtures Varies	Varies
I-FLOR-SIGN Signage Varies	Varies
I-EQPM Equipment Varies	Varies
I-EQPM-FIXD Fixed equipment Varies	Varies
I-EQPM-MOVE Moveable equipment Varies	Varies
I-EQPM-NICN Equipment not in contract Varies	Varies
I-EQPM-ACCS Equipment access Varies	Varies
I-EQPM-IDEN Equipment identification numbers Varies	Varies
I-EQPM-ELEV Equipment surfaces: 3D views Varies	Varies
I-EQPM-CLNG Ceiling - mounted or suspended equipment Varies	Varies
I-FURN Furniture Varies	Varies
I-FURN-FREE Furniture: freestanding (desks, credenzas, etc.) Varies	Varies
I-FURN-CHAR Chairs and other seating Varies	Varies
I-FURN-FILE File cabinets Varies	Varies
I-FURN-PNLS Furniture system panels Varies	Varies
I-FURN-WKSF Furniture system work surface components Varies	Varies
I-FURN-STOR Furniture system storage components Varies	Varies

I-FURN-POWR	Furniture system power designations	Varies	Varies
I-FURN-IDEN	Furniture numbers	Varies	Varies
I-FURN-PLNT	Plants	Varies	Varies
I-FURN-PATT	Finish patterns	Varies	Varies
I-FURN-ELEV	Furniture: 3D views	Varies	Varies
I-CLNG	Ceiling information	Varies	Varies
I-CLNG-GRID	Ceiling grid	Varies	Varies
I-CLNG-OPEN	Ceiling / roof penetrations	Varies	Varies
I-CLNG-TEES	Main tees	Varies	Varies
I-CLNG-SUSP	Suspended elements	Varies	Varies
I-CLNG-PATT	Ceiling patterns	Varies	Varies
I-CLNG-ACCS	Ceiling access	Varies	Varies
I-LITE	Light fixtures	Varies	Varies
I-COLS	Columns	Varies	Varies
I-HVAC-SDFF	Supply diffusers	Varies	Varies
I-HVAC-RDFF	Return air diffusers	Varies	Varies
I-GRID	Planning grid or column grid	Varies	Varies
I-AREA	Area calculation lines		
I-AREA I-AREA-PATT		Varies	Varies
	Area cross hatching	Varies	Varies
I-AREA-IDEN	Room numbers, tenant identifications, area calculation	Varies	Varies
I-AREA-OCCP	Occupant or employee names	Varies	Varies
I-ELEV	Interior and exterior elevations	Varies	Varies
I-ELEV-FNSH	Finishes, woodwork, trim	Varies	Varies
I-ELEV-CASE	Wall - mounted casework	Varies	Varies
I-ELEV-FIXT	Miscellaneous fixtures	Varies	Varies
I-ELEV-PFIXT	Plumbing fixtures in elevation	Varies	Varies
I-ELEV-SIGN	Signage	Varies	Varies
I-ELEV-PATT	Textures and hatch patterns	Varies	Varies
I-ELEV-IDEN	Component identification numbers	Varies	Varies
I-SECT	Sections	Varies	Varies
I-SECT-MCUT	Material cut by section	Varies	Varies
I-SECT-MBND	Material beyond section cut	Varies	Varies
I-SECT-PATT	Textures and hatch patterns	Varies	Varies
I-SECT-IDEN	Component identification numbers	Varies	Varies
I-DETL	Details	Varies	Varies
I-DETL-MCUT	Material cut by section	Varies	Varies
I-DETL-MBND	Material beyond section cut	Varies	Varies
I-DETL-PATT	Textures and hatch patterns	Varies	Varies
I-DETL-IDEN	Component identification numbers	Varies	Varies
Mechanical Layers			
M-BRIN	Brine systems	Varies	Varies
M-BRIN-EQPM	Brine system equipment	Varies	Varies
M-BRIN-PIPE	Brine system equipment  Brine system piping	Varies	Varies
M-CHIM	Prefabricated chimneys	Varies	Varies
M-CMPA	Compressed air systems	Varies	Varies
M-CMPA-CEQP		Varies	
	Compressed air equipment		Varies
M-CMPA-CPIP	Compressed air piping	Varies	Varies
M-CMPA-PEQP	Process air equipment	Varies	Varies
M-CMPA-PPIP	Process air piping	Varies	Varies
M-CONT THER	Controls and instrumentation	Varies	Varies
M-CONT-THER	Thermostats	Varies	Varies

M-CONT-WIRE	Low voltage wiring	Varies	Varies
M-DUST	Dust and fume collection system	Varies	Varies
M-DUST-EQPM	Dust and fume collection equipment	Varies	Varies
M-DUST-DUCT	Dust and fume ductwork	Varies	Varies
M-ELHT-EQPM	Electric heat equipment	Varies	Varies
M-ENER	Energy management system	Varies	Varies
M-ENER-EQPM	Energy management equipment	Varies	Varies
M-ENER-WIRE	Energy management wiring	Varies	Varies
M-RCOV	Energy recovery	Varies	Varies
M-RCOV-EQPM	Energy recovery equipment	Varies	Varies
M-RCOV-PIPE	Energy recovery piping	Varies	Varies
M-FUME-EXHS	Fume hood exhaust system	Varies	Varies
M-FUME-EQPM	Fume hoods	Varies	Varies
M-EXHS	Exhaust system	Varies	Varies
M-EXHS-EQPM	Exhaust system equipment	Varies	Varies
M-EXHS-DUCT	Exhaust system ductwork	Varies	Varies
M-EXHS-RFEQ	Rooftop exhaust equipment	Varies	Varies
M-FUEL	Fuel system piping	Varies	Varies
M-FUEL-GPRP	Fuel gas process piping	Varies	Varies
M-FUEL-GGEP	Fuel gas general piping	Varies	Varies
M-FUEL-OPRP	Fuel oil process piping	Varies	Varies
M-FUEL-OGEP	Fuel oil general piping	Varies	Varies
M-HVAC	HVAC system	Varies	Varies
M-HVAC-CDFF	HVAC ceiling diffusers	Varies	Varies
M-HVAC-ODFF	HVAC other diffusers	Varies	Varies
M-HVAC-DUCT	HVAC ductwork	Varies	Varies
M-HVAC-EQPM	HVAC equipment	Varies	Varies
M-HVAC-SDFF	Supply diffusers	Varies	Varies
M-HVAC-RDFF	Return air diffusers	Varies	Varies
M-HOTW	Hot water heating system	Varies	Varies
M-HOTW-EQPM	Hot water equipment	Varies	Varies
M-HOTW-PIPE	Hot water piping	Varies	Varies
M-CWTR	Chilled water system	Varies	Varies
M-CWTR-PIPE	Chilled water piping	Varies	Varies
M-CWTR-EQPM	Chilled water equipment	Varies	Varies
M-MACH	Machine shop equipment	Varies	Varies
M-MDGS	Medical gas systems	Varies	Varies
M-MDGS-EQPM	Medical gas equipment	Varies	Varies
M-MDGS-PIPE	Medical gas piping	Varies	Varies
M-LGAS	Laboratory gas systems	Varies	Varies
M-LGAS-EQPM	Laboratory gas equipment	Varies	Varies
M-LGAS-PIPE	Laboratory gas piping	Varies	Varies
M-NGAS	Natural gas systems	Varies	Varies
M-NGAS-EQPM	Natural gas equipment	Varies	Varies
M-NGAS-PIPE	Natural gas piping	Varies	Varies
M-PROC	Process systems	Varies	Varies
M-PROC-EQPM	Process equipment	Varies	Varies
M-PROC-PIPE	Process piping	Varies	Varies
M-REFG	Refrigeration systems	Varies	Varies
M-REFG-EQPM	Refrigeration equipment	Varies	Varies
M-REFG-PIPE	Refrigeration piping	Varies	Varies
M-SPCL	Special systems	Varies	Varies

M-SPEM Special systems piping Varies Varies M-STEM Steam systems condensate piping Varies Varies M-STEM-CONP Steam systems condensate piping Varies Varies M-STEM-EQPM Steam systems equipment Varies Varies M-STEM-LEP Low pressure steam piping Varies Varies M-STEM-HPIP High pressure steam piping Varies Varies M-TEST-EQPM Test equipment Varies Varies M-TEST-EQPM Test equipment Varies Varies Varies M-ACID Acid, alkaline, oil waste systems Varies Varies Varies P-ACID Acid, alkaline, oil waste systems Varies Varies P-ACID-PIPE Acid, alkaline, oil waste systems Varies Varies Varies P-DOMW-EQPM Domestic hot and cold water systems Varies Varies Varies P-DOMW-EQPM Domestic hot and cold water equipment Varies Varies Varies P-DOMW-FIPP Domestic hot water piping Varies Varies Varies P-DOMW-FIPP Domestic hot water piping Varies Varies Varies P-DOMW-FIPP Domestic hot water piping Varies Varies Varies P-SANR-FIPE Sanitary piping Varies Varies Varies Varies P-SANR-FIXT Plumbring fixtures Varies Varies Varies Varies P-SANR-FIXT Plumbring fixtures Varies Varies Varies P-SANR-FIXT Plumbring fixtures Varies Varies Varies P-SANR-FIPP Storm drain piping Varies Varies Varies P-SANR-FIPP Storm drain piping Varies Varies Varies Varies Varies P-SANR-FIPP Storm drain piping Varies Varies Varies Varies Varies	M-SPCL-EQPM	Special systems equipment	Varies	Varies
M-STEM Steam systems condensate piping Varies Varies M-STEM-CONP Steam systems condensate piping Varies Varies M-STEM-EQPM Steam systems equipment Varies Varies M-STEM-LPIP Low pressure steam piping Varies Varies M-STEM-HPIP High pressure steam piping Varies Varies M-STEM-HPIP High pressure steam piping Varies Varies M-STEM-MPIP Medium pressure steam piping Varies Varies M-STEM-MPIP Acid, alkaline, oil waste systems Varies Varies P-ACID Acid, alkaline, oil waste systems Varies Varies P-ACID-PIPE Acid, alkaline, oil waste systems Varies Varies P-DOMW-EOPM Domestic hot and cold water systems Varies Varies P-DOMW-EOPM Domestic hot and cold water systems Varies Varies P-DOMW-HPIP Domestic hot water piping Varies Varies P-DOMW-HPIP Domestic cold water piping Varies Varies P-DOMW-RISR Domestic cold water piping Varies Varies P-SANR Sanitary drainage Varies Varies P-SANR-PIPE Sanitary drainage Varies Varies Varies P-SANR-PIPE Sanitary drainage Varies Varies Varies P-SANR-FIXT Plumbing lixtures Varies Varies Varies P-SANR-FLDR Floor drains Varies Varies P-SANR-EOPM Sanitary risers Varies Varies Varies P-SANR-EOPM Sanitary equipment Varies Varies Varies P-SANR-EOPM Sanitary equipment Varies Varies Varies P-SARM-EOPM Sanitary equipment Varies Varies Varies P-SARM-FIXT Plumbing lixtures Varies Varies Varies P-SARM-FIXT Plumbing fixtures Varies Varies Varies Varies Varies S-SARM-EOPM Sanitary equipment Varies Varie	M-SPCL-PIPE	Special systems piping	Varies	Varies
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S-EVTR-FRAM Structural elevator framing Varies Varies		•		
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S-FNDN-FTNG	Structural foundation footings	Varies	Varies
S-FNDN-GRBM	Structural foundation grade beams	Varies	Varies
S-FNDN-IDEN	Structural foundation component identification numbers	Varies	Varies
S-FNDN-PILE	Structural foundation piles, drilled piers	Varies	Varies
S-FNDN-RBAR	Structural foundation reinforcing	Varies	Varies
S-GRAD-ELEV	Structural grading - elevated	Varies	Varies
S-GRAD-FLOR	Structural grading - floor	Varies	Varies
S-GRAT-ELEV	Structural grating - elevated (catwalks)	Varies	Varies
S-GRAT-FLOR	Structural grating - floor	Varies	Varies
S-GRID	Structural column grid	Varies	Varies
S-GRID-EXTR	Structural column grid lines outside building	Varies	Varies
S-GRID-INTR	Structural column grid lines inside building	Varies	Varies
S-GRID-DIMS	Structural column grid dimensions	Varies	Varies
S-GRID-IDEN	Structural column grid identification tags	Varies	Varies
S-JNTS-CNST	Structural joints - construction	Varies	Varies
S-JNTS-CTRL	Structural joints - control/expansion	Varies	Varies
S-JOIS	Structural joist	Varies	Varies
S-JOIS-BRDG	Structural joist bridging	Varies	Varies
S-JOIS-PRIM	Structural joist bridging  Structural joist - primary	Varies	Varies
S-JOIS-SCND	Structural joist - secondary	Varies	Varies
S-METL-MISC	Structural metal - miscellaneous	Varies	Varies
S-SECT-IDEN	Structural section component identification numbers	Varies	Varies
S-SECT-MBND	Structural section - material beyond section cut	Varies	Varies
S-SECT-MOUT	Structural section - material cut by section	Varies	Varies
S-SECT-PATT	Structural section - material cut by section  Structural section textures and hatch patterns	Varies	Varies
S-SLAB	Structural slab	Varies	Varies
S-SLAB-EDGE	Structural slab edge outline	Varies	Varies
S-SLAB-LDGL S-SLAB-JOIN	Structural slab control joints	Varies	Varies
S-SLAB-RBAR	Structural slab reinforcing	Varies	Varies
	Structural support miscellaneous fasteners, anchor		
S-SPPT-MISC	bolts	Varies	Varies
S-STRS-JOIN	Structural stair control joints	Varies	Varies
C CTDC I ADD	Structural stair - ladders, ladder handrails, safety	Varios	Varios
S-STRS-LADD	guard, grab bars	Varies	Varies
S-STRS-RBAR	Structural stair - reinforcing	Varies	Varies
S-TRUS-UNIT	Structural truss unit Structural wall	Varies	Varies
S-WALL-CONC		Varies	Varies
S-WALL-LOAD	Structural wall - concrete  Structural wall - load bearing concrete masonry unit (CMU)	Varies	Varies
	Structural wall - non-load bearing concrete masonry	Varies	Varies
S-WALL-NONL	unit (CMU)	Varies	Varies
S-WALL-PCST	Structural wall - precast	Varies	Varies
S-WALL-STUD	Structural wall - steel stud	Varies	Varies
S-WELD-SYMB	Structural weld symbols	Varies	Varies
Telecommunication Layers			
T-ELEC-IDEN	Electrical equipment identifiers and leader lines	Varies	Varies
	Electrical equipment physical outline of electrical		
T-ELEC-EQPM	equipment (e.g. cabinets, enclosures, etc.)	Varies	Varies
T-COMM-JBOX	Communication Junction boxes	Varies	Varies
T-BELL-IDEN T-BELL-SYST	Bell system identifier tags, symbol modifier and text Bell system symbols	Varies Varies	Varies Varies

T-DICT-IDEN	Dictation system identifier tags, symbol modifier and text	Varies	Varies
T-DICT-SYST	Dictation system symbols	Varies	Varies
	, , , , , , , , , , , , , , , , , , , ,		
T-CLOK-IDEN	Clock system identifier tags, symbol modifier and text	Varies	Varies
T-CLOK-SYST	Clock system symbols	Varies	Varies
T-ALRM-IDEN	Alarm system identifier tags, symbol modifier and text	Varies	Varies
T-ALRM-SYST	Alarm system symbols	Varies	Varies
	Nurse call system identifier tags, symbol modifier and		
T-NURS-IDEN	text	Varies	Varies
T-NURS-SYST	Nurse call system symbols	Varies	Varies
T-SOUN-IDEN	Sound system identifier tags, symbol modifier and text	Varies	Varies
T-SOUN-SYST	Sound system symbols	Varies	Varies
T-PHON-IDEN	Phone system identifier tags, symbol modifier and text	Varies	Varies
T-PHON-SYST	Phone system symbols	Varies	Varies
	Television system identifier tags, symbol modifier and		
T-CATV-IDEN	text	Varies	Varies
T-CATV-TELE	Television system symbols	Varies	Varies
T-CATV-TVAN	Television system antenna system symbols	Varies	Varies
T-DATA-IDEN	Data / LAN system identifier tags, symbol modifier and text	Varies	Varies
T-DATA-SYST	Data / LAN system symbols	Varies	Varies
T-INTC-IDEN	Intercom / public address system identifier tags, symbol modifier and text	Varies	Varies
T-INTC-INPA	Intercom / public address system symbols	Varies	Varies
T-INTC-PGNG	Intercom / public address: paging system symbols	Varies	Varies
T-FIRE-IDEN	Fire alarm and detection system identifier tags, symbol modifier and text	Varies	Varies
T-FIRE-SYST	Fire alarm and detection system symbols	Varies	Varies
T-EMS-IDEN	Energy management system identifier tags, symbol modifier and text	Varies	Varies
T-EMS-SYST	Energy management system symbols	Varies	Varies
T-SECR-IDEN	Security system identifier tags, symbol modifier and text	Varies	Varies
T-SECR-SYST	Security system symbols	Varies	Varies
T-COMM-COAX	Wiring system coax cable	Varies	Varies
	9 = / =		1
T-COMM-FIBR	Wiring system fiber optics cable	Varies	Varies
T-COMM-IDEN	Wiring system cable identifiers	Varies	Varies
T-COMM-MULT	Wiring system multi-conductor cable	Varies	Varies
T-COMM-TRAY	Wiring system cable trays and wireway symbols	Varies	Varies

Civil - Data collected exterior of the building			
Layer Name	Layer Description	Line Type	Color #
Buildings / Primary Structures			
C-BLDG-IDEN	Building name and location number - annotation	Continuous	Varies
C-BLDG-OTLN	Building footprint - exterior wall of the building	Continuous	Varies

	Building minor (bus-shelter, kiask, information		
C-BLDG-MINR	booth) curbs	Continuous	Varies
C-BLDG-UNDR	Building structure underground	Hidden	Varies
C-BLDG-PATT	Building hatch pattern	Continuous	Varies
C-BLDG-DETAIL  Alignments	Building exterior stairs, fire escapes, porches, and canopies, loading docks attached to the building	Continuous	Varies
C-ALGN-OBJT	Alignments	Varies	Varies
C-ALGN-IDEN	Alignment annotation	Varies	Varies
Embankments	Alignment annotation	varies	varies
C-EMBK-CNTL	Embankment centerline	Varies	Varion
C-EMBK-CNTL		Varies	Varies
C-EMBK-EDGE C-EMBK-IDEN	Embankment edge and object lines		Varies
	Embankment annotation	Continuous	Varies
Property C. DDOD DDNG	Decreate has single and distance and states	O a matimus a com	Mariaa
C-PROP-BRNG	Property bearings and distance - annotation	Continuous	Varies
C-PROP-CONS	Property construction limits / controls	Varies	Varies
C-PROP-ESMT	Property easements with annotation	Varies	Varies
C-PROP-LINE	Property lines with annotation	Varies	Varies
C-PROP-PRVT	Property private	Varies	Varies
C-PROP-LTID	Property lot identification (ie: parcel number, lot number etc.)	Continuous	Varies
C-PROP-DETL	Property details with annotation (scaled views depicting detailed areas of property)	Continuous	Varies
C-PROP-MONU	Property monumentation (includes all monuments found or set, witness corners)	Continuous	Varies
OTTO MOTO	Property record data (data aquired by other sources	Continuous	Variou
C-PROP-RECD	- not as part of the field survey)	Continuous	Varies
C-PROP-RCID	Property record data identification - annotation	Continuous	Varies
Site	1 Toporty Tecord data identification afficiation	Continuous	varios
C-SITE-SIGN	Site signage with annotation (ie: building signs)	Continuous	Varies
C-SITE-CMTY	Site cemetery with annotation	Continuous	Varies
C-SITE-BPTH	Site bicycle path	Varies	Varies
C-SITE-BRCK	Site bicycle patri	Varies	Varies
C-SITE-WALK	Site bicycle rack  Site sidewalks, defined trails - crushed stone, pea- gravel, bark etc.	Varies	Varies
C-SITE-WKID	Site sidewalk material identification: crushed stone, pea-gravel, bark etc annotation	Continuous	Varies
C-SITE-FENC	Site fencing, chain-link, chain, wood rail, barbedwire, etc.	Varies	Varies
C-SITE-FEID	Site fencing type identification: chain-link, chain, wood rail, barbed-wire etc annotation	Continuous	Varies
C-SITE-PTNL	Site pedestrian tunnel	Hidden	Varies
C-SITE-IDEN	Site identification notes - annotation	Continuous	Varies
	Site minor structure including misc impervious		
C-SITE-MSTR	features (example: concrete / asphalt pads etc.)	Continuous	Varies
C-SITE-MSID	Site minor structure identification - annotation		
Survey			
O OLIDIA OTDI	Survey control point - permanent markers including		,, .
C-SURV-CTRL	benchmarks, gps, brass-tablets, stone marker etc	Continuous	Varies
C-SURV-CTID	Survey control point identification	Continuous	Varies
C-SURV-LINE	Survey and control line	Varies	Varies
C-SURV-IDEN	Survey and control line annotation	Varies	Varies

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C-TOPO-BKLN			
C-TOPO-BILIN	Topography break lines	Varies	Varies
C-TOPO-BORE	Topography soil borings	Continuous	Varies
C-TOPO-BOID	Topography soil boring identification tags - annotation	Continuous	Varies
C-TOPO-CORD	Topography coordinates	Continuous	Varies
C-TOPO-SPOT	Topography spot elevations	Continuous	Varies
C-TOPO-MAJR	Topography major contours	Varies	Varies
	Topography major contour identification -		
C-TOPO-MAID	annotation	Continuous	Varies
C-TOPO-MINR	Topography minor contours	Varies	Varies
C-TOPO-MIID	Topography minor contour identification - annotation	Continuous	Varies
C-TOPO-SLOP	Topography cut/fill slopes	Continuous	Varies
C-TOPO-SLID	Topography cut/fill slope identification - annotation	Continuous	Varies
C-TOPO-IDEN	Topography identification notes - annotation	Continuous	Varies
Borrow Areas			
C-BORW-LINE	Borrow area outline	Varies	Varies
C-BORW-IDEN	Borrow area identification - annotation	Varies	Varies
Site Utility Systems			
Chilled Water System			
C-CWTR-JUNC	Chilled water junction: vaults, manholes, handholes and valve vaults (UIUC)	Continuous	200
C-CWTR-JUID	Chilled water junction identification: vaults, manholes, handholes and valve vaults - annotation (UIUC)	Continuous	200
C-CWTR-DEVC	Chilled water devices: test boxes, storage tanks, valves, meters, pumps, & regulators (UIUC)	Continuous	200
C CMTD DVID	Chilled water device identification: test boxes, storage tanks, valves, meters, pumps, & regulators	Continuo	000
C-CWTR-DVID	(UIUC)	Continuous	200
C-CWTR-FTTG	Chilled water fittings caps, crosses, reducers & tees etc. (UIUC)	Continuous	200
C-CWTR-ABND	Chilled water pipe - abandoned (UIUC)	Hidden	253
C-CWTR-MSUP	Chilled water pipe - supply main (UIUC)	Center2	200
C-CWTR-SSUP	Chilled water pipe - supply service (UIUC)	Center2	200
C-CWTR-MRET	Chilled water pipe - return main (UIUC)	Center2	200
C-CWTR-SRET	Chilled water pipe - return service (UIUC)	Center2	200
C-CWTR-ANOD	Chilled water anode test station (UIUC)	Continuous	200
C CWTP STIP	Chilled water station identification: anode -	Continuous	200
C-CWTR-STID	annotation (UIUC)	Continuous	200
C-CWTR-IDEN	Chilled water identification notes (UIUC)	Continuous	200
Domestic Water System	<u> </u>		
C-DOMW-JUNC	Domestic water junction: vaults, manholes, handholes, pump stations and valve vaults (UIUC)	Continuous	5
C-DOMW-JUID	Domestic water junction identification: vaults, manholes, handholes, pump stations and valve vaults - annotation (UIUC)	Continuous	5
C-DOMW-DEVC	Domestic water devices: storage tanks, valves, meters, & hydrants (UIUC)	Continuous	5
C-DOMW-DVID	Domestic water device identification: storage tanks, valves, meters, & hydrants - annotation (UIUC)	Continuous	5
C-DOMW-FTTG	Domestic water fittings caps, crosses, reducers & tees etc. (UIUC)		5

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C-DOMW-ABND	Domestic water pipe - abandoned (UIUC)	Hidden	253
C-DOMW-MAIN	Domestic water pipe - main (UIUC)	Continuous	5
C-DOMW-SERV	Domestic water pipe - service (UIUC)	Continuous	5
C-DOMW-NPOT	Domestic water pipe - non-potable water (UIUC)	Continuous	5
C-DOMW-IDEN	Domestic water identification notes - annotation (UIUC)	Continuous	5
C-DOMW-OTHR-JUNC	Domestic water junction: vaults, manholes, handholes, pump stations and valve vaults (owned or maintained by others)	Continuous	7
C-DOMW-OTHR-JUID	Domestic water junction identification: vaults, manholes, handholes, pump stations and valve vaults - annotation (owned or maintained by others)	Continuous	7
C-DOMW-OTHR-DEVC	Domestic water devices: storage tanks, valves, meters, & hydrants (owned or maintained by others)	Continuous	7
C-DOMW-OTHR-DVID	Domestic water device identification: storage tanks, valves, meters, & hydrants - annotation (owned or maintained by others)	Continuous	7
C-DOMW-OTHR-FTTG	Domestic water fittings caps, crosses, reducers & tees etc. (owned or maintained by others)	Continuous	7
C-DOMW-OTHR-ABND	Domestic water pipe - abandoned (owned or maintained by others)	Hidden	253
C-DOMW-OTHR-MAIN	Domestic water pipe - main (owned or maintained by others)	Continuous	7
C-DOMW-OTHR-SERV	Domestic water pipe - service (owned or maintained by others)	Continuous	7
C-DOMW-OTHR-NPOT	Domestic water pipe - non-potable (owned or maintained by others)	Continuous	7
C-DOMW-OTHR-IDEN	Domestic water identification notes - annotation (owned or maintained by others)	Continuous	7
Electrical Distribution System		Continuous	
C-ELEC-JUNC	Electrical junction: vaults, manholes, handholes, junction boxes, pull boxes, pedestals & splices (UIUC)	Continuous	1
C-ELEC-JUID	Electrical junction identification: vaults, manholes, handholes, junction boxes, pull boxes, pedestals & splices - annotation (UIUC)	Continuous	1
C-ELEC-DEVC	Electrical device: transformers, capacitors, voltage regulators, motors, buses, generators, meters, grounds & markers (UIUC)	Continuous	1
C-ELEC-DVID	Electrical device identification: transformers, capacitors, voltage regulators, motors, buses, generators, meters, grounds & markers - annotation (UIUC)	Continuous	1
C-ELEC-ABND	Electrical cable - abandoned (UIUC)	Hidden	253
C-EPRM-IDEN	Electrical cable - primary identification notes - annotation (UIUC)	Divide2	1
C-EPRM-UNDR	Electrical cable - primary underground (UIUC)	Divide2	1
C-EPRM-OVHD	Electrical cable - primary overhead (UIUC)	Divide2	<u>·</u> 1
C-ESCD-IDEN	Electrical cable - secondary identification notes - annotation (UIUC)	Divide2	1
C-ESCD-UNDR	Electrical cable - secondary underground (UIUC)	Divide2	1
C-ESCD-OVHD	Electrical cable - secondary overhead (UIUC)	Divide2	<u>.</u> 1

0.500///05/	Electrical cable - service identification notes -	D: : 1 0	
C-ESRV-IDEN	annotation (UIUC)	Divide2	1
C-ESRV-UNDR	Electrical cable - service underground (UIUC)	Divide2	1
C-ELEC-DUCT	Electrical ductbanks (UIUC)	Divide2	1
C-ELEC-SUBS	Electrical sub-stations (UIUC)	Continuous	1
C-ELEC-DIST	Electrical distribution centers (UIUC)	Continuous	1
	Electrical switches fuse cutouts, pole mounted switches, circuit breakers, gang operated		
C-ELEC-SWCH	disconnects, reclosers, cubicle switches (UIUC)	Continuous	1
C-ELEC-PDBL	Electrical pole - double (UIUC)	Continuous	1
C-ELEC-PRSR	Electrical pole - risers (UIUC)	Continuous	1
C-ELEC-PTWR	Electrical pole - tower (UIUC)	Continuous	1
C-ELEC-PSGL	Electrical pole - single (UIUC)	Continuous	1
C-ELEC-PDGY	Electrical pole - down guy (UIUC)	Continuous	1
C-ELEC-PSPN	Electrical pole - span guy wires (UIUC)	Continuous	1
C-ELEC-POID	Electrical pole - identification tags - annotation (UIUC)	Continuous	1
C-ELEC-IDEN	Electrical identification notes - annotation (UIUC)	Continuous	1
	Electrical junction: vaults, manholes, handholes, junction boxes, pull boxes, pedestals & splices		
C-ELEC-OTHR-JUID	(owned or maintained by others)  Electrical junction identification: vaults, manholes, handholes, junction boxes, pull boxes, pedestals & splices - annotation (owned or maintained by others)	Continuous	7
O EEEO OTTIK OOID	<u> </u>	Continuous	'
C-ELEC-OTHR-DEVC	Electrical device: transformers, capacitors, voltage regulators, motors, buses, generators, meters, grounds & markers (owned or maintained by others)	Continuous	7
C-ELEC-OTHR-DVID	Electrical device identification: transformers, capacitors, voltage regulators, motors, buses, generators, meters, grounds & markers - annotation (owned or maintained by others)	Continuous	7
C-ELEC-OTHR-ABND	Electrical cable - abandoned (owned or maintained by others)	Hidden	253
C-EPRM-OTHR-IDEN	Electrical cable - primary identification notes - annotation (owned or maintained by others)	Dashed	7
C-EPRM-OTHR-UNDR	Electrical cable - primary underground (owned or maintained by others)	Dashed	7
	Electrical cable - primary overhead ( owned or		
C-EPRM-OTHR-OVHD	maintained by others)	Dashed	7
C-ESCD-OTHR-IDEN	Electrical cable - secondary identification notes - annotation (owned or maintained by others)	Dashed	7
C-ESCD-OTHR-UNDR	Electrical cable - secondary underground (owned or maintained by others)	Dashed	7
C-ESCD-OTHR-OVHD	Electrical cable - secondary overhead (owned or maintained by others)	Dashed	7
C-ESRV-OTHR-IDEN	Electrical cable - service identification notes - annotation ( owned or maintained by others)	Dashed	7
C-ESRV-OTHR-UNDR	Electrical cable - service underground ( owned or maintained by others)	Dashed	7
C-ELEC-OTHR-DUCT	Electrical ductbanks (owned or maintained by others)	Dashed	7

C-ELEC-OTHR-SUBS	Electrical sub-stations (owned or maintained by others)	Continuous	7
C-ELEC-OTHR-DIST	Electrical distribution centers (owned or maintained by others)	Continuous	7
C-ELEC-OTHR-SWCH	Electrical switches fuse cutouts, pole mounted switches, circuit breakers, gang operated disconnects, reclosers, cubicle switches (owned or maintained by others)	Continuous	7
C-ELEC-OTHR-PDBL	Electrical pole - double (owned or maintained by others)	Continuous	7
C-ELEC-OTHR-PRSR	Electrical pole - risers (owned or maintained by others)	Continuous	7
C-ELEC-OTHR-PTWR	Electrical pole - tower (owned or maintained by others)	Continuous	7
C-ELEC-OTHR-PSGL	Electrical pole - single (owned or maintained by others)	Continuous	7
C-ELEC-OTHR-PDGY	Electrical pole - down guy (owned or maintained by others)	Continuous	7
C-ELEC-OTHR-PSPN	Electrical pole - span guy wires (owned or maintained by others)	Continuous	7
C-ELEC-OTHR-POID	Electrical pole - identification tags - annotation (owned or maintained by others)	Continuous	7
C-ELEC-OTHR-TGRD	Electrical tower ground wire (owned or maintained by others	Continous	7
C-ELEC-OTHR-IDEN	Electrical identification notes - annotation (owned or maintained by others)	Continuous	7
Energy Management System (EMS)			
C-EMS-JUNC	Energy management system junction: pull boxes, manholes, handholes, pedestals, splices (UIUC)	Continuous	1
C-EMS-JUID	Energy management system junction identification: pull boxes, manholes, handholes, pedestals, splices - annotation (UIUC)	Continuous	1
C-EMS-DEVC	Energy management system devices: field interfaces, multiplexers, markers (UIUC)	Continuous	1
C-EMS-DVID	Energy management system device identification: field interfaces, multiplexers, markers - annotation (UIUC)	Continuous	1
C-EMS-ABND	Energy management system cable - abandoned (UIUC)	Hidden	253
C-EMS-OVHD	Energy management system cable - overhead (UIUC)	Continuous	5
C-EMS-UNDR	Energy management system cable - underground (UIUC)	Continuous	5
C-EMS-DUCT	Energy management system ductbanks (UIUC)	Dashed	7
Fire Protection System			
C-FIRE-JUNC	Fire protection junction: vaults, manholes, handholes, pump stations and valve vaults (UIUC)	Continuous	5
C-FIRE-JUID	Fire protection junction identification: vaults, manholes, handholes, pump stations and valve vaults - annotation (UIUC)	Continuous	5
C-FIRE-DEVC	Fire protection devices: storage tanks, valves, meters & hydrants (UIUC)	Continuous	5

C-FIRE-DVID	Fire protection device identification: storage tanks, valves, hydrants, & meters - annotation (UIUC)	Continuous	5
C-FIRE-FTTG	Fire protection fittings caps, crosses, reducers & tees etc. (UIUC)	Continuous	5
C-FIRE-ABND	Fire protection pipe - abandoned (UIUC)	Hidden	253
C-FIRE-MAIN	Fire protection pipe - main (UIUC)	Continuous	5
C-FIRE-SERV	Fire protection pipe - service (UIUC)	Continuous	5
C-FIRE-IDEN	Fire protection identification notes - annotation (UIUC)	Continuous	5
C-FIRE-OTHR-JUNC	Fire protection junction: vaults, manholes, handholes, pump stations and valve vaults (owned or maintained by others)	Continuous	7
C-FIRE-OTHR-JUID	Fire protection junction identification: vaults, manholes, handholes, pump stations and valve vaults - annotation (owned or maintained by others)	Continuous	7
C-FIRE-OTHR-DEVC	Fire protection devices: storage tanks, valves, valve vaults, meters (owned or maintained by others)	Continuous	7
C-FIRE-OTHR-DVID	Fire protection device identification: storage tanks, valves, meters - annotation (owned or maintained by others)	Continuous	7
C-FIRE-OTHR-FTTG	Fire protection fittings caps, crosses, reducers & tees etc. (owned or maintained by others)	Continuous	7
C-FIRE-OTHR-ABND	Fire protection pipe - abandoned (owned or maintained by others)	Hidden	253
C-FIRE-OTHR-MAIN	Fire protection pipe - main (owned or maintained by others)	Continuous	7
C-FIRE-OTHR-SERV	Fire protection pipe - service (owned or maintained by others)	Continuous	7
C-FIRE-OTHR-IDEN	Fire protection identification notes - annotation (owned or maintained by others)	Continuous	7
Fuel System			
C-FUEL-JUNC	Fuel system junction: hydrant fill points, vaults, manholes, handholes, test boxes, vent vaults, valve vaults, and hydrant control vaults and valves (UIUC)	Continuous	7
C-FUEL-JUID	Fuel system junction identification: hydrant fill points, vaults, manholes, handholes, test boxes, vent vaults, valve vaults, and hydrant control vaults and valves - annotation (UIUC)	Continuous	7
C-FUEL-DEVC	Fuel system devices: air eliminators, filter strainers, line vents, markers, meters, oil/water separators, pumps, regulators, and tanks (UIUC)	Continuous	7
C-FUEL-DVID	Fuel system device identification: air eliminators, filter strainers, line vents, markers, meters, oil/water separators, pumps, regulators, and tanks - annotation (UIUC)	Continuous	7
C-FUEL-FTTG	Fuel system fittings caps, crosses, reducers & tees etc. (UIUC)	Continuous	7
C-FUEL-ABND	Fuel system pipe - abandoned (UIUC)	Hidden	253
C-FUEL-MAIN	Fuel system pipe - main (UIUC)	Continuous	7
C-FUEL-SERV	Fuel system pipe - service (UIUC)	Continuous	7
C-FUEL-DEFL	Fuel system pipe - defueling (UIUC)	Continuous	7
C-FUEL-ANOD	Fuel system anode test station (UIUC)	Continuous	7
C-FUEL-BOOS	Fuel system booster station (UIUC)	Continuous	7

C-FUEL-REDC	Fuel system reducing station (UIUC)	Continuous	7
C-FUEL-PUMP	Fuel system pumping station (UIUC)	Continuous	7
C-FUEL-IDEN	Fuel system identification notes - annotation (UIUC)	Continuous	7
C-FUEL-OTHR-JUNC	Fuel system junction: hydrant fill points, vaults, manholes, handholes, test boxes, vent vaults, valve vaults, and hydrant control vaults and valves (owned or maintained by others)  Fuel system junction identification: hydrant fill points, vaults, manholes, handholes, test boxes, vent vaults, valve vaults, and hydrant control vaults and valves - annotation (owned or maintained by	Continuous	7
C-FUEL-OTHR-JUID	others)	Continuous	7
C-FUEL-OTHR-DEVC	Fuel system devices: air eliminators, filter strainers, line vents, markers, meters, oil/water separators, pumps, regulators, and tanks (owned or maintained by others)	Continuous	7
C-FUEL-OTHR-DVID	Fuel system device identification: air eliminators, filter strainers, line vents, markers, meters, oil/water separators, pumps, regulators, and tanks - annotation (owned or maintained by others)	Continuous	7
C-FUEL-OTHR-FTTG	Fuel system fittings caps, crosses, reducers & tees etc. (owned or maintained by others)	Continuous	7
C-FUEL-OTHR-ABND	Fuel system pipe - abandoned (owned or maintained by others)	Hidden	253
C-FUEL-OTHR-MAIN	Fuel system pipe - main (owned or maintained by others)	Continuous	7
C-FUEL-OTHR-SERV	Fuel system pipe - service (owned or maintained by others)	Continuous	7
C-FUEL-OTHR-DEFL	Fuel system pipe - defueling (owned or maintained by others)	Continuous	7
C-FUEL-OTHR-ANOD	Fuel system anode test station (owned or maintained by others)	Continuous	7
C-FUEL-OTHR-BOOS	Fuel system booster station (owned or maintained by others)	Continuous	7
C-FUEL-OTHR-REDC	Fuel system reducing station (owned or maintained by others)	Continuous	7
C-FUEL-OTHR-PUMP	Fuel system pumping station (owned or maintained by others)	Continuous	7
C-FUEL-OTHR-IDEN	Fuel system identification notes - annotation (owned or maintained by others)	Continuous	7
Lighting System			
C-LITE-JUNC	Lighting junctions: pull boxes, manholes, handholes, pedestals, splices (UIUC)	Continuous	1
C-LITE-JUID	Lighting junction identification: pull boxes, manholes, handholes, pedestals, splices - annotation (UIUC)	Continuous	1
C-LITE-FLOD	Lighting flood lights (UIUC)	Continuous	11
C-LITE-POLE	Lighting pole mounted light (UIUC)	Continuous	1
C-LITE-STRT	Lighting street lights (UIUC)	Continuous	1
C-LITE-WALK	Lighting walkway lights (UIUC)	Continuous	1
	Lighting switches fuse cutouts, pole mounted switches, circuit breakers, gang operated		
C-LITE-SWCH	disconnects, reclosers, cubicle switches (UIUC)	Continuous	1

	Lighting cable - primary identification notes -		
C-LITE-PRID	annotation (UIUC)	Border2	1
C-LITE-PRUN	Lighting cable - primary underground (UIUC)	Border2	1
C-LITE-PROH	Lighting cable - primary overhead (UIUC)	Border2	1
C-LITE-SCID	Lighting cable - secondary identification notes - annotation (UIUC)	Continuous	1
C-LITE-SCUN	Lighting cable - secondary underground (UIUC)	Border2	1
C-LITE-SCOH	Lighting cable - secondary overhead (UIUC)	Border2	1
C-LITE-SRID	Lighting cable - service identification notes - annotation (UIUC)	Continuous	1
C-LITE-SRUN	Lighting cable - service underground (UIUC)	Border2	1
C-LITE-OTHR-JUNC	Lighting junctions: pull boxes, manholes, handholes, pedestals, splices (owned or maintained by others)	Continuous	7
C-LITE-OTHR-JUID	Lighting junction identification: pull boxes, manholes, handholes, pedestals, splices - annotation (owned or maintained by others)	Continuous	7
C-LITE-OTHR-FLOD	Lighting flood lights (owned or maintained by others)	Continuous	7
C-LITE-OTHR-POLE	Lighting pole mounted light (owned or maintained by others)	Continuous	7
C-LITE-OTHR-STRT	Lighting street lights (owned or maintained by others)	Continuous	7
C-LITE-OTHR-WALK	Lighting walkway lights (owned or maintained by others)	Continuous	7
C-LITE-OTHR-SWCH	Lighting switches fuse cutouts, pole mounted switches, circuit breakers, gang operated disconnects, reclosers, cubicle switches (owned or maintained by others)	Continuous	7
C-LITE-OTHR-ABND	Lighting cable - abandoned (owned or maintained by others)	Hidden	253
C-LITE-OTHR-PRID	Lighting cable - primary identification notes - annotation (owned or maintained by others)	Dashed	7
C-LITE-OTHR-PRUN	Lighting cable - primary underground (owned or maintained by others)	Dashed	7
C-LITE-OTHR-PROH	Lighting cable - primary overhead (owned or maintained by others)	Dashed	7
C-LITE-OTHR-SCID	Lighting cable - secondary identification notes - annotation (owned or maintained by others)	Continuous	7
C-LITE-OTHR-SCUN	Lighting cable - secondary underground (owned or maintained by others)	Dashed	7
C-LITE-OTHR-SCOH	Lighting cable - secondary overhead (owned or maintained by others)	Dashed	7
C-LITE-OTHR-SRID	Lighting cable - service identification notes - annotation (owned or maintained by others)	Continuous	7
C-LITE-OTHR-SRUN	Lighting cable - service underground (owned or maintained by others)	Dashed	7
Natural Gas Distribution			
C-NGAS-JUNC	Natural gas junction: hydrant fill points, vaults, manholes, handholes, test boxes, vent vaults, and valve vaults (UIUC)	Continuous	52

C-NGAS-JUID	Natural gas junction identification: hydrant fill points, vaults, manholes, handholes, test boxes, vent vaults, and valve vaults - annotation (UIUC)	Continuous	52
C-NGAS-DEVC	Natural gas devices: vents, markers, meters, pumps, regulators, tanks, taps, and valves (UIUC)	Continuous	52
	Natural gas device identification: vents, markers,		
C NCAC DVID	meters, pumps, regulators, tanks, taps, and valves -	Cantinuaus	<b>5</b> 0
C-NGAS-DVID C-NGAS-ABND	annotation (UIUC)	Continuous Hidden	52 253
C-NGAS-ABIND  C-NGAS-MAIN	Natural gas pipe - abandoned (UIUC)  Natural gas pipe - main (UIUC)	Continuous	52
C-NGAS-SERV	Natural gas pipe - service (UIUC)	Continuous	52
C-NGAS-ANOD	Natural gas anode test station (UIUC)	Continuous	52 52
C-NGAS-BOOS	Natural gas booster station (UIUC)	Continuous	52
C-NGAS-REDC	Natural gas reducing station (UIUC)	Continuous	52
C-NGAS-PUMP	Natural gas pumping station (UIUC)	Continuous	52
C-NGAS-STID	Natural gas station identification tags: anode test, booster, reducing, pumping - annotation (UIUC)	Continuous	52
C-NGAS-IDEN	Natural gas identification notes - annotation (UIUC)	Continuous	52
C-NGAS-CVNT	Natural gas casing vent (UIUC)	Varies	Varies
C-NGAS-WSGN	Natural gas warning sign (UIUC)	Varies	Varies
C-NGAS-LSTA	Natural gas located station (UIUC)	Varies	Varies
C-NGAS-TRAN-MAIN	Natural gas transmission main (UIUC)	Varies	Varies
C-NGAS-TRAN-ACAN	Natural gas transmission anode canister (UIUC)	Varies	Varies
C-NGAS-TRAN-RWRE	Natural gas transmission rectifier wire (UIUC)	Varies	Varies
C-NGAS-TRAN-RSTA	Natural gas transmission rectifier station (UIUC)	Varies	Varies
C-NGAS-TRAN-GSTA	Natural gas transmission gas station (UIUC)	Varies	Varies
C-GSLP-SERV	LP Gas service (UIUC)	Varies	Varies
C-NGAS-OTHR-JUNC	Natural gas junction: hydrant fill points, vaults, manholes, handholes, test boxes, vent vaults, and valve vaults (owned or maintained by others)	Continuous	7
C-NGAS-OTHR-JUID	Natural gas junction identification: hydrant fill points, vaults, manholes, handholes, test boxes, vent vaults, and valve vaults - annotation (owned or maintained by others)	Continuous	7
C-NGAS-OTHR-DEVC	Natural gas devices: vents, markers, meters, pumps, regulators, tanks, taps, and valves (owned or maintained by others)	Continuous	7
C-NGAS-OTHR-DVID	Natural gas device identification: vents, markers, meters, pumps, regulators, tanks, taps, and valves - annotation (owned or maintained by others)	Continuous	7
C-NGAS-OTHR-ABND	Natural gas pipe - abandoned (owned or maintained by others)	Hidden	253
C-NGAS-OTHR-MAIN	Natural gas pipe - main (owned or maintained by others)	Dashed	7
C-NGAS-OTHR-SERV	Natural gas pipe - service (owned or maintained by others)	Dashed	7
C-NGAS-OTHR-ANOD	Natural gas anode test station (owned or maintained by others)	Continuous	7
C-NGAS-OTHR-BOOS	Natural gas booster station (owned or maintained by others)	Continuous	7
C-NGAS-OTHR-REDC	Natural gas reducing station (owned or maintained by others)	Continuous	7

C-NGAS-OTHR-PUMP	Natural gas pumping station (owned or maintained by others)	Continuous	7
C-NGAS-OTHR-STID	Natural gas station identification tags: anode test, booster, reducing, & pumping - annotation (owned or maintained by others)	Continuous	7
C-NGAS-OTHR-IDEN	Natural gas identification notes - annotation (owned or maintained by others)	Continuous	7
Steam Distribution System			
C-STEA-JUNC	Steam distribution junction: vaults and manholes (UIUC)		
C-STEA-JUID	Steam distribution junction identification: vaults and manholes (UIUC)		
C-STEA-DEVC	Steam distribution devices vaults, traps, condensate pumps (UIUC)	Continuous	211
C-STEA-DVID	Steam distribution device identification tags: vaults, traps, condensate pumps - annotation (UIUC)	Continuous	211
C-STEA-ABND	Steam distribution abandoned tunnels, piping (UIUC)	Hidden	253
C-STEA-STNL	Steam distribution shallow tunnel (UIUC)	Phantom2	211
C-STEA-TUNL	Steam distribution tunnel (UIUC)	Phantom2	211
C-STEA-TRAP	Steam distribution trap (UIUC)	Varies	Varies
C-STEA-UGEC	Steam distribution underground enclosure (UIUC)	Varies	Varies
C-STEA-LP	Steam distribution: low pressure piping (UIUC)	Center2	211
C-STEA-UP	Steam distribution: utility pressure piping (UIUC)	Center2	211
C-STEA-HP	Steam distribution: high pressure piping (UIUC)	Center2	211
C-STEA-CR	Steam distribution: condensate return piping (UIUC)	Center2	211
C-STEA-PR	Steam distribution: pressure return (UIUC)	Center2	211
C-STEA-VR	Steam distribution: vacuum return (UIUC)	Center2	211
C-STEA-IDEN	Steam distribution identification notes (UIUC)	Continuous	211
Sanitary Sewer System			
C-SSWR-JUNC	Sanitary sewer junction: manholes and lift-stations (UIUC)	Continuous	3
C-SSWR-JUID	Sanitary sewer junction identification: manholes and lift-stations - annotation (UIUC)	Continuous	3
C-SSWR-DEVC	Sanitary sewer devices: cleanouts and air-release valves (UIUC)	Continuous	3
C-SSWR-DVID	Sanitary sewer device identification: cleanouts and air-release valves - annotation (UIUC)	Continuous	3
C-SSWR-GSYM	Sanitary sewer graphic symbol	Continuous	3
C-SSWR-UGEC	Sanitary sewer underground enclosure	Continuous	3
C-SSWR-ABND	Sanitary sewer pipe - abandoned (UIUC)	Hidden	253
C-SSWR-MAIN	Sanitary sewer pipe - main (UIUC)	DashDot2	3
C-SSWR-SERV	Sanitary sewer pipe - service (UIUC)	DashDot2	3
C-SSWR-FRCM	Sanitary sewer pipe - forcemain (UIUC)	Hidden	3
C-SSWR-SEPT	Sanitary sewer septic systems (UIUC)	DashDot2	3
C-SSWR-ARRW	Sanitary sewer direction of flow arrows (UIUC)	Continuous	3
C-SSWR-IDEN	Sanitary sewer identification notes - annotation (UIUC)	Continuous	3
C-SSWR-AGEC			
	Sanitary sewer above ground enclosure	Continuous	3

C-SSWR-OTHR-JUNC	Sanitary sewer junction: manholes and lift-stations (owned or maintained by others)	Continuous	7
	Sanitary sewer junction identification: manholes and		
C-SSWR-OTHR-JUID	lift-stations - annotation (owned or maintained by others)	Continuous	7
	Sanitary sewer devices: cleanouts and air-release		
C-SSWR-OTHR-DEVC	valves (owned or maintained by others)	Continuous	7
	Sanitary sewer device identification: cleanouts and		
C-SSWR-OTHR-DVID	air-release valves - annotation (owned or maintained by others)	Continuous	7
C-SSWR-OTHR-UGEC	,	Continuous	,
	Sanitary sewer underground enclosure (owned or maintained by others)	Continuous	7
	Sanitary sewer pipe - abandoned (owned or		
C-SSWR-OTHR-ABND	maintained by others)	Hidden	253
C CCM/D OTHE MAIN	Sanitary sewer pipe - main (owned or maintained by	Doobod	7
C-SSWR-OTHR-MAIN	others) Sanitary sewer pipe - service (owned or maintained	Dashed	7
C-SSWR-OTHR-SERV	by others)	Dashed	7
	Sanitary sewer septic systems (owned or		
C-SSWR-OTHR-SEPT	maintained by others)	Dashed	7
O COMP OTHE FROM	Sanitary sewer forcemain (owned or maintained by		_
C-SSWR-OTHR-FRCM	others)	Hidden	7
C-SSWR-OTHR-ARRW	Sanitary sewer direction of flow arrows (owned or maintained by others)	Continuous	7
	Sanitary sewer identification notes - annotation	Commudae	•
C-SSWR-OTHR-IDEN	(owned or maintained by others)	Continuous	7
Storm Drainage System			
	Storm drainage junction: manholes, curb inlets, catch basins, drainage inlets, and storm drains		
C-STRM-JUNC	(UIUC)	Continuous	70
	Storm drainage junction identification: manholes,		
	curb inlets, catch basins, drainage inlets, and storm		
C-STRM-JUID	drains - annotation (UIUC)	Continuous	70
C-STRM-DEVC	Storm drainage devices: headwalls, cleanouts, downspouts, culverts and air-release valves (UIUC)	Continuous	70
C-STRIM-DEVC		Continuous	70
	Storm drainage device identification: headwalls, cleanouts, downspouts, culverts and air-release		
C-STRM-DVID	valves (UIUC)	Continuous	70
C-STRM-GSYM	Storm sewer graphic symbol	Continuous	70
C-STRM-ABND	Storm drainage pipe - abandoned (UIUC)	Hidden	253
C-STRM-MAIN	Storm drainage pipe - main (UIUC)	Hidden	70
C-STRM-SERV	Storm drainage pipe - service (UIUC)	Hidden	70
C-STRM-UDRN	Storm drainage pipe - underdrain (UIUC)	Hidden	70
C-STRM-FRCM	Storm drainage pipe - forcemain (UIUC)	Hidden	70
C-STRM-ARRW	Storm drainage direction of flow arrows (UIUC)	Continuous	70
C-STRM-POND	Storm drainage detention basins, retention basins with annotation (UIUC)	Continuous	Varies
C-STRM-DTCH	Storm drainage swales / ditches with annotation (UIUC)	Continuous	Varies
	Storm drainage erosion control with annotation		
C-STRM-EROS	(UIUC)	Continuous	Varies
C STPM IDEN	Storm drainage identification notes - annotation	Continuous	\/arico
C-STRM-IDEN	(UIUC)	Continuous	Varies

C-STRM-OTHR-JUNC	Storm drainage junction: manholes, curb inlets, catch basins, drainage inlets, and storm drains (owned or maintained by others)	Continuous	7
C-STRM-OTHR-JUID	Storm drainage junction identification: manholes, curb inlets, catch basins, drainage inlets, and storm drains - annotation (owned or maintained by others)	Continuous	7
O OTTAIN OTTAIN GOLD	Storm drainage devices: headwalls, cleanouts, downspouts, culverts and air-release valves (owned	Continuous	<u> </u>
C-STRM-OTHR-DEVC	or maintained by others)	Continuous	7
C-STRM-OTHR-DVID	Storm drainage device identification: headwalls, cleanouts, downspouts, culverts and air-release valves (owned or maintained by others)	Continuous	7
C-STRM-OTHR-ABND	Storm drainage pipe - abandoned (owned or maintained by others)	Hidden	7
C-STRM-OTHR-MAIN	Storm drainage pipe - main (owned or maintained by others)	Hidden	7
C-STRM-OTHR-SERV	Storm drainage pipe - service (owned or maintained by others)	Hidden	7
C-STRM-OTHR-UDRN	Storm drainage pipe - underdrain (owned or maintained by others)	Hidden	7
C-STRM-OTHR-FRCM	Storm drainage pipe - forcemain (owned or maintained by others)	Hidden	7
C-STRM-OTHR-ARRW	Storm drainage direction of flow arrows (owned or maintained by others)	Continuous	7
C-STRM-OTHR-IDEN	Storm drainage identification notes - annotation (owned or maintained by others)	Continuous	7
Telecommunications System		Continuous	7
C-TELE-JUNC	Telecommunication system junction: vaults, manholes, handholes, junction boxes, pull boxes, pedestals & splices (UIUC)	Continuous	7
C-TELE-JUID	Telecommunication system junction identification: vaults, manholes, handholes, junction boxes, pull boxes, pedestals and splices (UIUC)	Continuous	7
C-TELE-ABND	Telecommunication system conduit, cable, fiber optics - abandoned (UIUC)	Hidden	253
C-TELE-TOWR	Telecommunication system tower	Continuous	7
C-TELE-MAIN	Telecommunication system conduit - main (UIUC)	Continuous	7
C-TELE-SERV	Telecommunication system conduit - service (UIUC)	Continuous	7
C-TELE-DBRY	Telecommunication system cable - direct burried (UIUC)	Continuous	7
C-TELE-FIBR	Telecommunication system fiber optic (UIUC)	Continuous	7
C-TELE-IDEN	Telecommunication system identification notes - annotation (UIUC)	Continuous	7
Site Transportation System			
Road System			
C-ROAD-BRDG	Road bridge	Continuous	Varies
C-ROAD-FLCB	Transportation road flowline curb	Continuous	Varies
C-ROAD-TBCB	Transportation road top back of curb	Continuous	Varies
C-ROAD-RWAY	Transportation road rights-of-way, with markers	Continuous	Varies
C-ROAD-CNTR	Transportation road centerlines	Continuous	Varies
C-ROAD-CNID	Transportation road centerline identification - annotation	Continuous	Varies

C-ROAD-GARD	Transportation road guardrails	Continuous	Varies
C-ROAD-IDEN	Transportation road identification - annotation	Continuous	Varies
C-ROAD-PVID	Transportation road pavement type identification - annotation	Continuous	Varies
C-ROAD-SIGN	Transportation road signage with annotation	Continuous	Varies
	Transportation minor roads (crushed stone, dirt, oil		
C-ROAD-MINR	and chip) <i>not defined by curbs</i>	Continuous	Varies
Parking System	,,		
C-PKNG-CARS	Parking lot graphic illustration of cars	Continuous	Varies
C-PKNG-CNID	Parking lot centerline identification - annotation	Continuous	Varies
C-PKNG-CNTR	Parking lot centerlines	Continuous	Varies
C-PKNG-CURB	Parking lot curbs, parking bumpers, islands	Continuous	Varies
C-PKNG-DRAN	Parking lot drainage slope indications	Continuous	Varies
C-PKNG-SPID	Parking lot space identification - annotation	Continuous	Varies
C-PKNG-IDEN	Parking lot identification - annotation	Continuous	Varies
C-PKNG-SIGN	Parking lot signage with annotation	Continuous	Varies
C-PKNG-PVMK	Parking lot pavement markings (space stripes, handicapped symbols, Right/Left/Straight turn arrows etc.)	Continuous	Varies
Railroad System	anows etc.)	Continuous	vants
C-RAIL-CNID	Railroad centerline identification - annotation	Varies	Varies
C-RAIL-CNTR	Railroad centerline	Center	Varies
C-RAIL-BRDG	Railroad centerine  Railroad bridge structure	Varies	Varies
C-RAIL-BRUG	Railroad bridge structure  Railroad rails	Varies	Varies
C-RAIL-SIGN		†	
	Railroad signage with annotation	Varies	Varies
Site Landscaping			
Plants			
L-PLNT-TREE	Landscape plant trees & hedge rows	Varies	Varies
L-PLNT-TRID	Landscape plant trees identification tags: decidous, coniferous and hedge rows etc annotation	Varies	Varies
L-PLNT-GRND	Landscape plant ground covers and vines	Varies	Varies
L-PLNT-BEDS	Landscape plant rock, bark, and other Landscape beds, planters	Varies	Varies
L-PLNT-TURF	Landscape plant lawn areas	Varies	Varies
Irrigation System	-ssesspe p.sin iami areae	1 01.00	. 4.100
	Landscape irrigation system junction: manholes,	Varios	Varion
L-IRRIG-JUNC L-IRRIG-JUID	vaults, and valve vault (UIUC)  Landscape irrigation system junction identification: manholes, vaults, and valve vault - annotation (UIUC)	Varies Varies	Varies Varies
L-IRRIG-DEVC	Landscape irrigation system devices: valves, meters, sprinkler heads and hydrants (UIUC)	Varies	Varies
L-IRRIG-DVID	Landscape irrigation system device identification: valves, meters, sprinkler heads and hydrants (UIUC)	Varies	Varies
L-IRRIG-ABND	Landscape irrigation system pipe - abandoned (UIUC)	Hidden	253
L-IRRIG-MAIN	Landscape irrigation system pipe - main (UIUC)	Varies	Varies
L-IRRIG-SERV	Landscape irrigation system pipe - service (UIUC)	Varies	Varies
Structures			
L-SITE-WALL	Landscape site retaining walls	Varies	Varies
L-SITE-STEP	Landscape site steps (not attached to buildings)	Varies	Varies
L-SITE-DECK	Landscape site decks	Varies	Varies

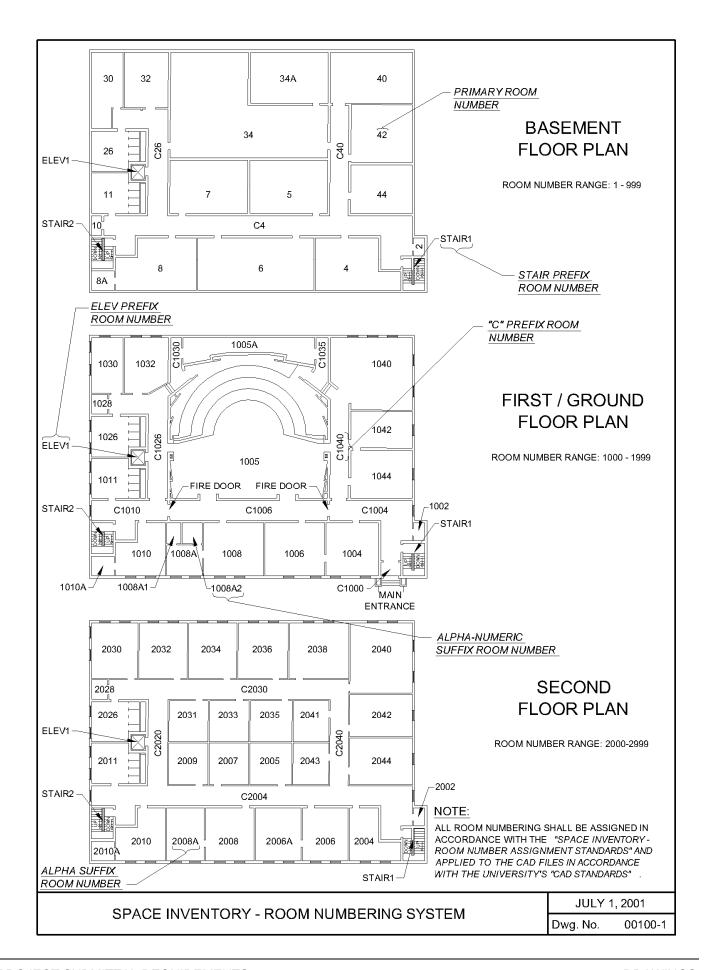
L-SITE-BRDG	Landscape site bridges	Varies	Varies
L-SITE-POOL	Landscape site pools and spas	Varies	Varies
L-SITE-SPRT	Landscape site sports fields	Varies	Varies
L-SITE-PLAY	Landscape site play structures	Varies	Varies
L-SITE-STRC	Landscape site structures for ecstatic purposes (brick columns, concrete benches, statues, etc.)	Varies	Varies
Hydroseeding			
L-HYDR-IDEN	Hydroseeding annotation	Varies	Varies
L-HYDR-GENL	Hydroseeding	Varies	Varies
L-HYDR-SEED	Hydroseeding seed	Varies	Varies
L-HYDR-SODS	Hydroseeding sod	Varies	Varies
L-HYDR-SPRG	Hydroseeding sprigs	Varies	Varies
L-HYDR-SDSD	Hydroseeding seed and sod	Varies	Varies
L-HYDR-SDSG	Hydroseeding seed and sprig	Varies	Varies
L-HYDR-SSSG	Hydroseeding seed, sod, and sprig	Varies	Varies
Turfing			
L-TURF-IDEN	Turfing annotation	Varies	Varies
L-TURF-MLCH	Turfing mulch outlines	Varies	Varies
Seeding			
L-SEED-IDEN	Seeding annotation	Varies	Varies
L-SEED-SDSD	Seeding seed and sod	Varies	Varies
L-SEED-SSSG	Seeding seed, sod, and sprig	Varies	Varies
L-SEED-SDSG	Seeding seed and sprig	Varies	Varies
L-SEED-SODS	Seeding sod	Varies	Varies
L-SEED-GENL	Seeding seed	Varies	Varies

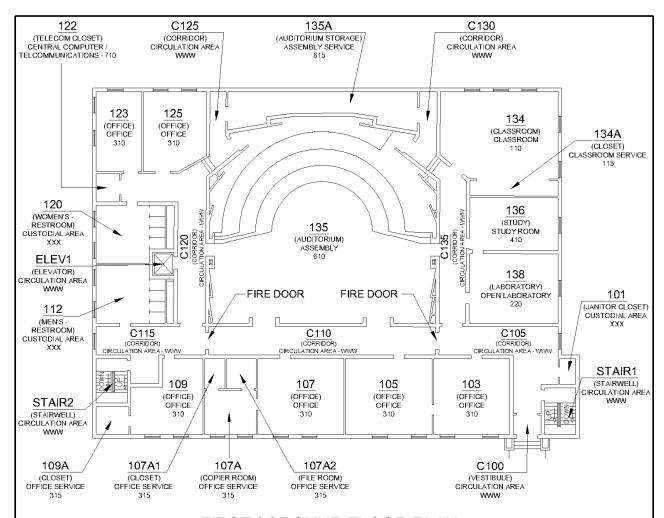
## **DRAWINGS**

DRAWING 00100-1: SPACE INVENTORY – ROOM NUMBERING SYSTEM

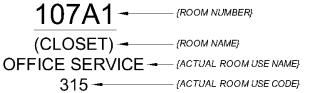
DRAWING 00100-2: SPACE INVENTORY – ACTUAL ROOM USE ASSIGNED

DRAWING 00100-3: SPACE INVENTORY - AREA POLYLINES





## FIRST / GROUND FLOOR PLAN



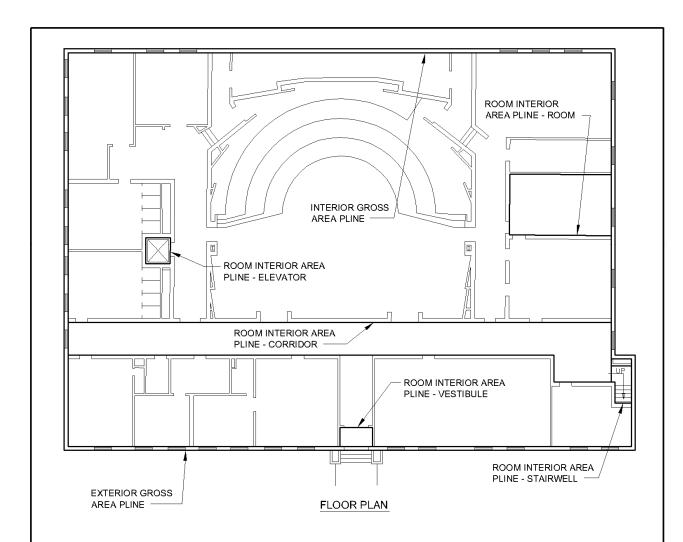
ACTUAL ROOM USE LABEL KEY

### NOTE:

ALL ROOM USAGES SHALL BE ASSIGNED IN ACCORDANCE WITH THE "POSTSECONDARY EDUCATION FACILITIES INVENTORY AND CLASSIFICATION MANUAL" STANDARDS FOR ROOM USAGES TABLE 1 IN THE "SPACE INVENTORY - ROOM NUMBER ASSIGNMENT STANDARDS".

ALL SPACE INVENTORY DATA SHALL BE PLACED IN CAD FILES IN ACCORDANCE WITH THE UNIVERSITY'S " CAD STANDARDS".

SPACE INVENTORY - ACTUAL ROOM USE ASSIGNMENTS	JULY 1, 2001	
	Dwg. No.	00100-2



#### **NOTES**

- EXTERIOR GROSS AREA ONE (1) CLOSED PLINE AROUND THE EXTERIOR FACE OF THE EXTERIOR WALL FOR EACH FLOOR OF THE STRUCTURE (PLINE SHALL BE PLACED ON THE A-AREA-GROS LAYER. SEE EXHIBIT 00100-1, UIUC CAD STANDARD MASTER LAYER LIST.)
- 2. INTERIOR GROSS AREA ONE (1) CLOSED PLINE AROUND THE INTERIOR FACE OF THE EXTERIOR WALL FOR EACH FLOOR OF THE STRUCTURE (PLINE SHALL BE PLACED ON THE A-AREA-GROS LAYER. SEE EXHIBIT 00100-1, UIUC CAD STANDARD MASTER LAYER LIST..)
- 3. ROOM INTERIOR AREA ONE (1) CLOSED PLINE AROUND THE INTERIOR FACE OF THE WALL FOR EACH INDIVIDUAL ROOM INCLUDING CORRIDORS, LOBBIES, VESTIBULES, ELEVATORS, STAIRWELLS, ETC. ON A FLOOR (PLINE SHALL BE PLACED ON THE A-AREA-RM LAYER. SEE EXHIBIT 00100-1, UIUC CAD STANDARD MASTER LAYER LIST.)

- 4. EXAMPLE: EXTERIOR / INTERIOR POLYLINES
  SHALL NOT INCLUDE CORNICES, WINDOW WELLS,
  DOOR OPENINGS, ETC. ROOM AREA POLYLINES
  SHALL NOT INCLUDE DOOR OR WINDOW
  OPENINGS.
- 5. ALL SPACE INVENTORY DATA SHALL BE PLACED IN CAD FILES IN ACCORDANCE TO THE UNIVERSITY'S "CAD STANDARDS".

SPACE INVENTORY - AREA POLYLINES
(INTERIOR / EXTERIOR GROSS FLOOR PLAN AREA AND ROOM AREA)

JULY 1, 2001

Dwg. No. 00100-3

# **CHANGE LOG**

Rev-		
ision		
#	Date	Change(s) Made
4	11-28-12	Part 1, E, 5 – removed Part 1, G, 2, a – added "staples, or post bindings" Part 1, F, 3 – remove (O&M copies and warranties covered in Project Manual) Part 1, F, 4, b (now 3b) – added option for Department/College to specify #/size of copies Part 1, G, 3, a – changed "Word 2003" to "Word 2010 or earlier" Part 1, G, 3, b – added ", searchable" Part 1, G, 3, f – added "and two subfolders titled "pdf" and "Word." There shall not be any further subfolders within the "pdf" and "Word" folders except to denote multiple volumes in accordance with the hardcopy set." Part 1, H, 1, f – added Discipline Designator requirements Part 1, H, 2, a – added "(no single corner staples or bare metal ACCO-style fasteners)" Part 1, H, 3, a – changed "AutoCAD 2006" to "AutoCAD 2012 or earlier" Part 1, H, 3, b – added "searchable, and" Part 1, H, 3, h – corrected typo "C100-C1-4.dwg" to "C100-C104.dwg" Part 2, Chapter II, B, 1 – added "No Metric Equivalents" Part 2, Chapter II, B, 4, a – changed 1986 to 2011 Part 2, Chapter II, C, 2 – Removed Geotechnical, Civil Works, Equipment, Process, Resource, Other Disciplines, Contractor/Shop Drawings, Operations. Added HZ – Hazardous Materials. Changed Discipline Codes H to Heating, and V to Ventilation. Exhibit A, Project Manual, E-copy – corrected typo omission – added "pdf" Exhibit B – Removed Annotation Layers: Q-OTLN, Q-POWR, Q-PIPE, R-****-OTLN, R-****-DETL, R-****-PATT, R-****-ANNO. Added: *-ANNO-GRID, C-PROP-PRVT, C-SITE-BRCK, C-ELEC-OTHR-TGRD, C-NGAS-CVNT, C-NGAS-WSGN, C-NGAS-LSTA, C-NGAS-TRAN-RSTA, C-NGAS-TRAN-ROSTA, C-GSLP-SERV, C-STEA-TRAP, C- STEA-UGEC, C-SSWR-GSYM, C-SSWR-UGEC, C-SSWR-AGEC, C-SSWR-OTHR- UGEC, C-STRM-GSYM, C-TELE-TOWR, L-PLNT-SHRB. Changed H-PLAN to HZ-
3	1-19-11	PLAN and H-SITE to HZ-SITE; and added "kiosk" to C-BLDG-MINR.  Part 1, A – added clarification of document purpose Part 1, D – deleted items 3 through 9. Part 1, F, 2 – clarified department in item d, and moved "Class Tech" from item g to a new item e. Part 1, H, 3, b – added "rotated to the correct direction" Part 1, H, 3 – struck item h Part 1, H, 3, i (now item h) – added clarification for multi-sheet CAD files Part 1, H, 3 – added items I, j, k, I Part 1, I – added item h Part 2, Chapter II, B, 1 – added "No metric equivalents." Part 2, Chapter II, B, 4 – added "The model shall be oriented so North is either to the top (^) or left (<) on the drawing document." Part 2, Chapter II, B, 4, a – updated required version of Illinois State Plan Coordinate System. Part 2, Chapter II, B – added item 11 Part 2, Chapter II, B – added item D Exhibits – made changes in checklist to reflect above changes Change Log – added "Change Log"