
CENTRAL MICHIGAN UNIVERSITY CAD STANDARD

1.0.0 OVERVIEW

This standard pertains to the use, production and submittal of electronic CAD information to the Plant Engineering and Planning Office of Central Michigan University (CMU). This standard has been developed to provide direction to consultants performing work for CMU. Prior to the commencement of any work, Consultants shall contact the Plant Engineering and Planning Office for the most current release of this document. This information is also available on the Facilities Management Web page at www.fmgt.cmich.edu under Design Standards. It shall be noted that the most efficient and effective use of CAD is not necessarily the initial generation of the drawing file, but the capability to easily modify and reuse the file in the future. Therefore, there shall be no restriction by the provider on the ownership of the files including the distribution of CAD files, or parts thereof, at CMU's discretion. By establishing and adhering to a common set of standards, CMU can achieve significant benefits including a layering and file naming standard based on the U.S. National CAD Standard, AIA Layer Guidelines, and the Uniform Drawing System. It is important to note that these standards, as with any office standards are constantly being revised and updated to keep pace with changing technology and construction practices.

2.0.0 USER RESPONSIBILITY

Adherence to the standards and procedures contained herein is essential to preserving a consistent and standardized character in the drawings maintained by CMU. This will increase the efficient use of project time and management. Modifications to the standards and procedures in this manual may be necessary for specific situations. Proposed modifications and or deviations from this standard must be approved in writing by the CAD Manager. **Do not make arbitrary changes without prior approval.** Internal change recommendations to this manual shall be directed to the CAD Manager in writing detailing:

- Why the current procedure is not adequate
- What the proposed modification or addition should be
- How it would improve the existing standards and procedures
- Use of the CAD Standard Modification form in Appendix A is required

3.0.0 GENERAL REQUIREMENTS

3.0.1 RECORD Drawing Building Set

1) CD in AutoCAD Architecture 2009 format. For Civil Engineering project AutoCAD Civil 3D 2009. **No other formats will be accepted.**

| Contact the CAD Manager for the most current version used by CMU.

2) Other software may be used in the production of CAD files for CMU; however, it is the Consultant's responsibility to ensure **COMPLETE** AutoCAD compatibility and data integrity. CAD drawings shall be identical to hard copy versions submitted.

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- 3) A complete list of layers for each drawing and descriptions of each layer, as well as color, line type, line weight and text styles shall be part of submittal of record information. A hard copy and electronic matrix format is recommended.

3.0.2 CMU Drawing Template

Architects and Engineers shall use “CMU_Master” drawing template when creating a drawing. This template contains CMU’s standard title block(s), in various size formats and layering system. If the architect or engineers has a need to create additional layers they must follow the naming convention identified for each discipline. Unused layers shall be purged from the drawing prior to submitting final record CAD drawings.

3.0.3 Terms and Abbreviations

Architects and Engineers shall use CMU Standard terms and Abbreviations as found in Appendix A.

4.0.0 MEDIA

4.0.1 MEDIA TYPES and COMPRESSION

Electronic data shall be submitted to CMU on CD (2 copies required). All submittals are required to be submitted to the University Project Manager via CD (2 copies required). The Project Manager shall distribute one copy to the CAD Manager who will transfer the files onto the server and be copied to the appropriate titled project folder.

4.0.2 REQUIRED DOCUMENTATION

The electronic data deliverable package shall be submitted on accepted media and accompanied by a hardcopy description of the submittal. The package will include:

- A hard copy on color bond paper identical to the electronic file, for maximum reproducibility.
- An electronic file of **Final Record Drawings in PDF format and CAD format**

4.0.3 MEDIA LABELLING

All media submitted to CMU shall be labeled as follows:

CENTRAL MICHIGAN UNIVERSITY	<i>Example</i>
Date	<i>Jan 1, 2005</i>
Facility Building Code	<i>MU</i>
Facility Name	<i>Music Building</i>
Central Michigan University CMU Proj #	<i>652811</i>
Project Title	<i>Music Building Construction Plans</i>
Discipline Folder	<i>Mechanical</i>
Filename(s) on disk	<i>List by Title and drawing number</i>

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4.0.4 FILE DESCRIPTION

Each submittal shall be accompanied by a Letter of Transmittal that identifies the media, quantity, status, and description of its contents including file names.

5.0.0 REQUIRED DATA

5.0.1. FILE TYPES

The files which are to be included in any submittal shall fall into the following three categories: Text, Drawing and Raster.

5.0.1.1 Text Files

The only types of text files to be included in the deliverables are File Descriptions and Specifications unless otherwise directed by CMU. File descriptions shall be in ASCII file format and will have the extension TXT. Specifications shall be submitted in Microsoft Word (DOC) or Adobe Acrobat (PDF). *No other formats will be accepted.*

5.0.1.2 Drawing Files

The only types of drawing files to be included in the deliverables shall be in AutoCAD and will have the DWG extension. *DXF files will not be accepted.*

5.0.1.3 Raster Files

The only types of raster or image files that shall be accepted are TIFF, JPG, BMP or WMF.

5.0.2 FILE INFORMATION

All information included in hard copy submittals shall be included in electronic data deliverables.

- If blocks are used in the documents, then they are to be consistent throughout. For example, if fixture “A” is a block, then all locations where fixture “A” is shown shall be of the same block.
- Any reference files or block files pertinent to the content of the master file are required data and shall be included in the File Description.

5.0.2.1 File Format

All submittals shall be clearly and systematically organized incorporating acceptable standard drafting practices. All submittals to CMU shall have colors set by layer, not by entity. Graphic elements representing a physical component of the project (i.e., lines indicating a wall or a block indicating a light fixture) shall be shown only one time in the submittals. If additional references to the object are needed in additional drawing files they shall be shown via an external reference of the original file.

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5.0.2.2 File Size and Organization

It is the responsibility of the Consultant to organize drawing information coherently and maintain reasonable file sizes. Major contributors to excessive file sizes are unreferenced blocks, redundant line work and hatches. Files **shall be purged** before submittal to remove unnecessary data to reduce file size.

5.0.2.3 Copy and Compression Format

Files requiring less than one disk for transmittal shall be written to a CD-R disk and be properly labeled.

5.0.2.4 Externally Referenced Files

When submitting the electronic AutoCAD drawings, Consultants **must bind all externally referenced drawings. Drawings submitted without external references bound shall be rejected.**

5.0.2.5 Document File Format

There shall be one drawing file, saved in a plot-ready format, corresponding to each hard copy submittal sheet. Document files shall be formatted utilizing paper space. Plotting shall take place from paper space at a scale of 1 = 1.

5.0.2.6 File Naming

All files included in the electronic data deliverable package shall conform to the file naming convention that is based on Uniform Drawing System published by CSI. Alternative file naming conventions may be utilized only with prior written approval. Approval of alternate naming conventions is solely at the discretion of the CAD Manager.

Similar name guidelines have been defined for both Model and Sheet file types. The first character is the discipline code designator, then a hyphen.

5.0.2.6a Model file name example: A-111

This applies to both file types and must be one of the following:

- A Architectural
- C Civil
- E Electrical
- FA Fire Alarm
- FP Fire Protection
- G General
- H Hazardous Material
- I Interiors

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K	Kitchen Equipment
L	Landscape
M	Mechanical
P	Plumbing
Q	Equipment
R	Resource
S	Structural
T	Communications
X	Other disciplines
U	Utilities Infrastructure
Z	Contractor/Shop drawings

5.0.2.6b Sheet File Names and Numbering

Refer to the CMU Sheet Number Matrix in Appendix B.

6.0.0 DRAWING FORMATS AND GRAPHICS

Sheet borders, title block and data, Consultant's license stamp, logos, and all other components of the master drawing sheet shall be located in paper space. All graphic representations of the project or facility and all related notes, dimensions, symbols, etc., shall be constructed in model space. All graphic entities shall be comprised of representational and geometrically accurate entities, e.g. a circle shall be represented by circle entity and not a visually equivalent collection of line segments. Items shown in a dashed line type shall be created with the "LINETYPE" feature and not by individual line elements.

6.0.1 AutoCAD compatibility

CAD File deliverables shall be in AutoCAD format. All files delivered to CMU shall be thoroughly tested for compatibility and integrity. Files delivered to CMU shall be free of any copyrighted or other material whose distribution is prohibited.

6.0.2 Entities

All graphic entities shall be comprised of representational and geometrically accurate entities.

- For example: A circle shall be represented by a circle entity and not a visually equivalent collection of line segments. Items shown in a dashed line type shall be created with the "LINETYPE" feature and not by individual line elements. These characteristics are typical of files that have been converted from some other format and are not be acceptable.
- Files in which all blocks are exploded or all data is on a single layer *are unacceptable*. Good drawing technique goes a long way in AutoCAD drawings and all submittals to CMU shall be of the highest quality.

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- The following are considered poor technique and shall not be present in CAD products delivered to CMU. **Redundant Lines - There shall be no redundant lines.** These typically are forms of multiple line segments in the same place or two segments joined to make a single segment. This also applies to text entities.
- Redundant Blocks— Care shall be taken to ensure that only one insertion occurs for a block and that the block itself only contains one copy of the image.
- Open Intersections— One of the most important and basic tools used in CAD is object snap. By using snap, the CAD operator is sure to produce clean and closed intersections. Intersections are very important since they provide accurate snap positions and are required as part of area boundaries.
- All entities shall be colored ‘BYLAYER’ and not individually by entity. No use of Yellow is permitted. It may be desirable on-screen but is practically illegible when plotted.
- If the drawing is to be three dimensional than it should be consistently and accurately drawn as such, otherwise it is a two dimensional drawing and all ‘Z’ coordinates shall be 0, 0.
- All blocks shall be created from layer “0”.
- Nested blocks shall be avoided.
- No information shall be stored on layer “0”.
- Blocks shall not be mirrored. (Mirrored blocks cannot be exploded and their attributes cannot be edited).
- Temporary blocks used during file creation or editing shall be exploded and purged.
- Both model and **paper space** (preferred) origins shall be 0, 0.
- Drawings shall be saved with the ACAD.MNU as the current menu.
- Exterior drawings shall be created with appropriate University Control Points as their starting point.

7.0.0 DRAWING ENVIRONMENT

AutoCAD allows the choice between two drawing environments: model space and paper space. Model space is AutoCAD’s working mode for creating the model. The model is a subset of a building’s geometry and its physical components such as walls, doors, windows, columns, beams, outlets, ducts, etc. The model **shall always be** drawn at full scale (1:1). Paper space enables one to take the model and create a variety of views or scales for plotting. Each sheet represents one plotted drawing at full scale.

7.0.1 Paper Space

The primary drawing shall be submitted in paper space or converted from model space to paper space for an As-Built submission. The features represented in paper space shall be scaled to fit on the sheet. The various views of the drawings are referenced. General project graphic elements

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such as title blocks, legends, key plans, plan titles, riser, schematic diagrams, and sheet specific notes shall be drawn in paper space.

7.0.2 Model Space

The drawing or model shall be created in model space and drawn at full scale (1:1). Any additional items that help define the model or add model data such as details, schedules, or sections shall also be drawn at full scale in model space. Consistency in keeping related model elements in model space along with proper layer assignments will allow the use of x-refs and the ability to keep information dynamic and updated among disciplines.

7.0.3 Standard Coordinate System

All drawings utilizing a coordinate system shall correspond to the North American Datum, 1983 (NAD 83), Michigan State Plane System, South Zone in international feet, for all map and plan view files.

7.0.4 Prototype Drawing Files

Prototype drawing files and symbols shall be utilized as provided by the CMU. These shall include but not be limited to title sheets, formatted drawing files, drawing symbology, and other blocks. Blocks containing attribute fields shall be filled out.

8.0.0 STANDARD SHEET SIZES AND FORMATS

All project drawing sheets shall be D size 24 x 36. Alternate sheet sizes must be approved by CMU prior to implementation. They are as follows:

- A size Plot - 8 1/2" x 11"
- B size Plot- 11" x 17"
- E size Plot - 30" x 42"

9.0.0 GRAPHICS

9.0.1 Text

All text shall be created only with standard AutoCAD or standard Windows TrueType fonts. Exceptions shall **be approved by the CAD Manager**, and the source font files **shall be** included in the root directory of all electronic submittals. All text sizes shall be plotted and displayed in accordance with the following minimum sizes:

- Schedules — 3/32"
- Dimensions and Notes — 3/32"
- Grid Numbers — 3/16"
- Sheet Detail Title — 3/16"
- Sheet Title— 3/16"
- Sheet Number — 3/16'

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9.0.2 Special Entity Requirements

Common symbols, doors, windows, equipment, etc. shall be inserted as blocks. Room numbers are very important to CMU's CAD files. They are used to provide real data throughout the CMU. A standard block named "RMNO" shall be used and shall contain attribute data including not only associative data such as room number, area and perimeter, but also the entity handle of the polyline with which it is associated. **All Record Drawing submissions shall contain CMU building room numbers, not the Construction or Consultant's numbers. This information shall be included in the ANNO-IDEN layer within the drawing.**

9.0.3 Dimensioning

All dimensions shown in the project submittals shall be fully associative. Dimension definition points shall be located with an appropriate Object Snap (End Point, Mid Point, etc.) or otherwise located precisely on the project geometry. Manual input of dimension text or over-riding the actual dimensions are **not acceptable**. With the following exception, CMU will allow over-riding of associative dimensions in "Enlarged Detail" where building components must be exaggerated for clarity.

9.0.4 Line types

It is recommended that only standard AutoCAD line types shall be used. If custom or compound line types are necessary, then their definition file(s) shall have a .LIN extension and shall be included in the root directory of the files with which they are associated and shall be included in the root directory of any electronic submittal. Civil line types shall be a continuous line with text. The text shall be the standard abbreviation for the utility along with the size of the utility pipe. For example 12" Sanitary Sewer would be ——— 12" SAN ———.

9.0.5 Fill and Hatch Patterns

Vector fill patterns are acceptable but excessive use is discouraged as they make files unnecessarily large. In many circumstances solids may be used instead of hatches. All consultants shall be responsible for keeping files sizes within manageable limits.

9.06 Line Weights

Preliminary Recommendations:

Consultants shall be solely responsible for the production and appearance of their hard copy submittals. Consultants shall supply line weight requirements for proper printing of documentation by CMU personnel and shall include this information on submitted CD's.

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DEVIATION FORM

All proposals, that have any practice deviation (modifies, substitutes or deletes) from CMU's CAD Standards must be accompanied by this form, submitted to the CAD Manager for approval.

CMU Project #: _____
(To be filled in by CMU)

Project Title: _____

CSI related section: _____

CMU Standards related section: _____

New proposed practice: _____

Rationale for using new practice: _____

State operational benefits (if any) that accrue to CMU as a result of the proposed deviation: ____

Estimated project cost increase or decrease: \$ _____

Failure to comply with this requirement shall result in the Responsible Party, being obligated for all costs associated with changes in the field that are necessary to comply with CMU's Planning and Design Standards, in accordance with Section 00010.02.

Signature & Date: Consultant

Signature & Date of CMU Approval
Facilities Management
Plant Engineering and Planning Office
CAD Manager

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DOCUMENT CONTROL PAGE:

Document Published:	January 24, 2006
Prepared By:	John Latoski, Dan Methner
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Approved By:	Steve Lawrence

Revision History:

Date	Revision	Approved By:
1.31.12	Revised standard based upon deviation requests and comments from architects and engineers using the standard	Steve Lawrence

APPENDIX A

Central Michigan University Standard Abbreviations

Abbreviation	Term	Shared Abbreviation
1PH	Single-phase	
1P	Single pole	
1WAY	One way	
2/C	Two-conductor	
2WAY	Two-way	
3/C	Three-conductor	
3PH	Three-phase	
3PLY	Three-ply	
3WAY	Three-way	
4/C	Four-conductor	
4OUT	Quadruple receptacle outlet	
4PDT	Four-pole double throw	
4PST	Four-pole single throw	
4W	Four-wire	
4WAY	Four-way	
	A	
ABAN	Abandon	
ABBRV	Abbreviation	
ABNL	Abnormal	
AFC	Above finished counter	automatic frequency control
AFF	Above finished floor	
AFG	Above finished grade	
AFS	Above finished slab	
ASC	Above suspended ceiling	amps short circuit; asphalt surface course
ABRSV	Abrasive	
Ha	Abrasive hardness	
ABRSV RES	Abrasive resistant	
ABS	Absolute	acrylonitrile butadiene styrene
ABSORB	Absorption	
ACS DR	Access door	
ACS FLR	Access floor	
ACS PNL	Access panel	
ACC	Accessible	
ACID RES	Acid resistant	
ACID RES CI	Acid resistant cast iron	
ACID RES P	Acid resistant pipe	

ACID RES V	Acid resistant vent	
ACID RES W	Acid resistant waste	
AV	Acid vent	air vent; audio visual
AW	Acid waste	actual weight; architectural woodwork
AWL	Acid waste line	
pH	Acid/Alkaline scale	
ACST	Acoustic	
-----	Acoustic Calking	
ACT	Acoustical ceiling tile	
ACOUS INSUL	Acoustical insulation	
ACOUS PNL	Acoustical panel	
APC	Acoustical panel ceiling	
-----	Acoustical plaster	
ATC	Acoustical tile ceiling	
AWT	Acoustical wall treatment	
ACR	Across	
ABS	Acrylonitrle butadiene styrene	absolute
AW	Actual weight	acid waste; architectural woodwork
ADDM	Addendum	
ADDL	Additional	
ADH	Adhesive	
ADJ	Adjacent	adjoining; adjustable
ADJ	Adjoining	adjacent; adjustable
ADJ	Adjustable	adjacent; adjoining
ADMIN	Administration	
AGGR	Aggregate	
ABC	Aggregate base course	Associated Builders and Contractors
A	Air (compressed)	
A/C	Air condition	
A/C UNIT	Air conditioning unit	
ACCU	Air cooled condensing unit	
AHU	Air handling unit	
APD	Air pressure drop	
APR	Air pressure return line	
AS	Air separator	ammeter switch
ASU	Air supply unit	
AV	Air vent	acid vent; audio visual
AWP	Air water pump	
ALM	Alarm	
AAP	Alarm annunciator panel	
ALNMT	Alignment	
ALLOW	Allowance	
ALTRN	Alteration	
ALT	Alternate	altitude
ALT NO	Alternate number	
AC	Alternating current	armored cable; asbestos cement; asphaltic concrete
-----	Alternative	

ALT	Altitude	alternate
ALUM	Aluminum	
ACSR	Aluminum cable steel reinforced	
AMB	Ambient	
AAMA	American Architectural Manufacturers Association	
AACE	American Association of Cost Engineers	
ACI	American Concrete Institute	
AGA	American Gas Association	
AIA	American Institute of Architects	
AISC	American Institute of Steel Construction	
ANSI	American National Standards Institute	
APA	American Plywood Association	
ASTM	American Society for Testing and Materials	
ASCE	American Society of Civil Engineers	
ASHRAE	American Society of Heating, Refrigerating, and Air Conditioning Engineers	
ASME	American Society of Mechanical Engineers	
ASEC	American Standard Elevator Codes	
ASWG	American steel wire gauge	
AWWA	American Water Works Association	
AWS	American Welding Society	
AWG	American wire gauge	
AWPA	American Wood Preservers' Association	
ADA	Americans with Disabilities Act	
AS	Ammeter switch	air separator
AMT	Amount	
AMP	Ampere	
AH	Ampere hour	
AIC	Ampere interrupting capacity	
AMPL	Amplifier	
AM	Amplitude modulation	
ASC	Amps short circuit	above suspended ceiling; asphalt surface course
AHR	Anchor	
AB	Anchor bolt	
ETC	And so forth	et cetera
L	Angle	liter
ANG BM	Angle beam	
ASV	Angle stop valve	
ANN	Annunciator	
ANOD	Anodize	
ANT	Antenna	
APT	Apartment	Association for Preservation Technology
APP	Appearance	atactic propylene
APPX	Appendix	
-----	Apply	

APPD	Approved	
APPROX	Approximate	
ARCH	Architect	
A/E	Architect/Engineer	
ASI	Architect's Supplemental Instruction	
ARF	Architectural finish	
AW	Architectural woodwork	acid waste; actual weight
AWI	Architectural Woodworking Institute	
AD	Area drain	
AC	Armored cable	alternating current; asbestos cement; asphaltic concrete
ART	Article	
AR	As required	
ASB	Asbestos	
AC	Asbestos cement	alternating current; armored cable; asphaltic concrete
-----	As-built	
ASPH	Asphalt	
AI	Asphalt Institute	
-----	Asphalt roofing	
ASC	Asphalt surface course	above suspended ceiling; amps short circuit
AC	Asphaltic concrete	alternating current; armored cable; asbestos cement
ACP	Asphaltic concrete paving	automatic control panel
ACU	Assembled cooling unit	
ASSY	Assembly	
ABC	Associated Builders and Contractors	aggregate base course
AGC	Associated General Contractors	
ASSN	Association	
APT	Association for Preservation Technology	apartment
ASYM	Asymmetrical	
APP	Atactic propylene	appearance
ATM	Atmosphere	automatic teller machine
ATCH	Attachment	
ATTN	Attention	
AF	Audio frequency	
AV	Audio visual	acid vent; air vent
AHJ	Authority having jurisdiction	
AUTO XFMR	Auto transformer	
AUTO	Automatic	
AAD	Automatic air damper	
AAV	Automatic air vent	
ACHKV	Automatic check valve	
ACP	Automatic control panel	asphaltic concrete paving
ACS	Automatic control system	
ACV	Automatic control valve	
ADC	Automatic door closer	

ADS	Automatic door seal	
AFC	Automatic frequency control	above finished counter
ASKLR	Automatic sprinkler	
ASD	Automatic sprinkler drain	
ASR	Automatic sprinkler riser	
ATM	Automatic teller machine	atmosphere
ATS	Automatic transfer switch	
AUX	Auxiliary	
APU	Auxiliary power unit	
AVE	Avenue	
AVG	Average	
AWN WDW	Awning window	
AX FL	Axial flow	
AZ	Azimuth	
	B	
BC	Back of Curb	between centers; bolt circle; bookcase; bottom chord; brick color; building code
B/B	Back to back	
BKBD	Backboard	
BDD	Backdraft damper	
BFP	Backflow preventer	
BKGD	Background	
BKG	Backing	
-----	Backing rope	
BAF	Baffle	
BAG	Baggage	
BAL	Balance	
BALC	Balcony	
-----	Balestrades	
BV	Ball valve	
BLST	Ballast	
B&B	Balled and Burlapped	bell and bell; grade B or better (lumber)
-----	Bar joists	
BBR	Base board radiator	
BL	Base line	building line
B PL	Base plate	
BB	Baseboard	bulletin board
BSMT	Basement	
BIL	Basic insulation level	
BT	Bathtub	
-----	Batt insulation	
BAT	Batten	battery
BAT	Battery	batten
BAY WDW DH	Bay window double hung	
BM	Beam	benchmark; bending moment
S BM	Beam, standard	

WF BM	Beam, wide flange	
BRG	Bearing	
BRG PL	Bearing plate	
BJT	Bed joint	
BDNG	Bedding	
BR	Bedroom	
B&B	Bell and bell	balled and burlapped; grade B or better (lumber)
B&F	Bell and flange	
B&S	Bell and spigot	
BL MTH	Bell mouth	
BLW	Below	
BLW CLG	Below ceiling	
BFF	Below finish floor	
BM	Benchmark	beam; bending moment
BM	Bending moment	beam; benchmark
BTR	Better	
BTWN	Between	
BC	Between centers	back of curb; bolt circle; bookcase; bottom chord; brick color; building code
BEV	Bevel	
BI FLD DR	Bifolding doors	
BWG	Birmingham wire gauge	
BITUM	Bituminous	
BSP	Black steel pipe	
-----	Blackboard	
BLKT	Blanket	
-----	Block	
BLWDN	Blowdown	
BLO	Blower	
BO	Blowoff	
BO	Board	butterfly damper
BD FT	Board feet (foot)	
B/M	Board measure	
BLR	Boiler	
BFBP	Boiler feed booster pump	
BFW	Boiler feedwater	
BFWP	Boiler feedwater pump	
BLR HP	Boiler horsepower	
BC	Bolt circle	back of curb; between centers; bookcase; bottom chord; brick color; building code
BNDG	Bonding	
BC	Bookcase	back of curb; between centers; bolt circle; bottom chord; brick color; building code
BSTR	Booster	

BLT	Borrowed light	built
BF	Both faces	bottom face
BS	Both sides	
BW	Both ways	
BOT	Bottom	bottom
BC	Bottom chord	back of curb; between centers; bolt circle; bottom chord; brick color; building code
BOT F	Bottom face	
BOT D	Bottom of duct	bottom of duct
BOT P	Bottom of pipe	bottom of pipe
BOS	Bottom of steel	
BLVD	Boulevard	
BDRY	Boundary	
BRCG	Bracing	
BRKT	Bracket	
BHP	Brake horsepower	
BRKR	Breaker	
BC	Brick color	back of curb; between centers; bolt circle; bookcase; bottom chord; building code
BIA	Brick Institute of America	
BRDG	Bridging	
BRDG JST	Bridging joist	
BA	Bright annealed	
Btu	British thermal unit	
Mbtu	British thermal unit (1000)	
BtuH	British thermal unit per hour	
BRZ	Bronze	
B CL	Broom closet	
BB XFMR	Buck-boast transformer	
BLD	Build	
BHMA	Builder's Hardware Manufacturer's Association	
BLDG	Building	
BAS	Building automation system	
BC	Building code	back of curb; between centers; bolt circle; bookcase; bottom chord; brick color
BL	Building line	
BOCA	Building Officials and Code Administrators Association International	
BP	Building paper	
BLT	Built	borrowed light
BLT IN	Built-in	
BU	Built-up	bushel
BUR	Built-up roofing	
BLB T BM	Bulb tee beam	

BLKHD	Bulkhead	
BB	Bulletin board	baseboard
BPRF	Bulletproof (bullet-resistant)	
BN	Bullnose	
BRLP	Burlap	
BU	Bushel	built-up
BT WLD	Butt weld	
BCV	Butterfly check valve	
BD	Butterfly damper	board
BFV	Butterfly valve	
BYP	By pass	
	C	
CAB	Cabinet	
CUH	Cabinet unit heater	
CTV	Cable television	
CALC	Calculate	
CLKJ	Calked joint	
-----	Calking	
CAL	Calorie	
CAM	Camber	
cd	Candela	construction documents; contract documents
CP	Candlepower	concrete pipe; control panel
CAN	Canopy	
CANTIL	Cantilever	
CANV	Canvas	
CAP	Capacitor	capacity
CAP	Capacity	capacitor
CO2	Carbon dioxide	
CO	Carbon monoxide	cased opening; Certificate of Occupancy; cleanout; company; cutout
CPT	Carpet	control power transformer
C&P	Carpet and pad	
CB	Carriage bolt	catch basin; cement base; ceramic base; corner bead
CO	Cased opening	carbon monoxide; Certificate of Occupancy; cleanout; company; cutout
CSMT	Casement	
CW	Casement window	chemical waste line; clockwise; cold water piping; cool white
CSWK	Casework	
CSG	Casing	
-----	Casing bead	
C CONC	Cast concrete	
CIP	Cast iron	curb inlet
CIP	Cast iron pipe	cast in place
CISP	Cast iron soil pipe	

CSTL	Cast steel	
CS	Cast stone	commercial standard; control switch
CIP	Cast-in-place	cast iron pipe
CAT	Catalog	
CB	Catch basin	carriage bolt; cement base; ceramic base; corner bead
CATW	Catwalk	
CAV	Cavity	
CLG	Ceiling	
CAC	Ceiling attenuation class	
CLG DIFF	Ceiling diffuser	
CLG DCT OUT	Ceiling duct outlet	
CLG GRL	Ceiling grille	
CLG HT	Ceiling height	
-----	Ceiling panel	
CLG REG	Ceiling register	
-----	Ceiling tile	
C	Celsius	channel
CEM	Cement	cemetery
CB	Cement base	carriage bolt; ceramic base; corner bead
CEM FIN	Cement finish	
CF	Cement floor	contractor furnished
CEM PLAS	Cement plaster	
CEM PLAS CLG	Cement plaster ceiling	
CBB	Cementitious (backer) board	
CEM	Cemetery	cement
CTR	Center	contour; cooling tower return
CL	Center line	class; close
CM	Center matched	construction management
CG	Center of gravity	common ground; corner guard
C TO C	Center to center	
-----	Centigrade	
cm	Centimeter	
cm/s	Centimeter per second	
CER	Ceramic	
CB	Ceramic base	carriage bolt; catch basin; cement base; corner bead
CGSFU	Ceramic glazed structural facing units	
CT	Ceramic tile	count; current transformer
CTB	Ceramic tile base	
CTF	Ceramic tile floor	
CTI	Ceramic Tile Institute of America	
CO	Certificate of Occupancy	carbon monoxide; cased opening; cleanout; company; cutout
CERT	Certify	
CLFMI	Chain Link Fence Manufacturers Institute	
CHBD	Chalkboard	

CHMBR	Chamber	
CHFR	Chamfer	
COR	Change order request	
C	Channel	Celsius
CHG	Charge	
CHK	Check	
CHKV	Check valve	
CHEM	Chemical	
CW	Chemical waste line	casement window; clockwise; cold water piping; cool white
CDW	Chilled drinking water	
CDWR	Chilled drinking water return	
CDWS	Chilled drinking water supply	
CHW	Chilled water	circulating hot water
CHWPP	Chilled water primary pump	
CHWP	Chilled water pump	
CHWRP	Chilled water recirculating pump	
CHWR	Chilled water return	
CHWSP	Chilled water secondary pump	
CHWS	Chilled water supply	
CH	Chiller	coat hook
CPVC	Chlorinated polyvinyl chloride	
CFC	Chlorofluorocarbons	
CHR PL	Chrome plated	
CIR	Circle	
CKT	Circuit	
CKT BRKR	Circuit breaker	
CIRC	Circular	
CHW	Circulating hot water	chilled water
CWP	Circulating water pump	condenser water pump
CRCMF	Circumference	
CLDG	Cladding	
CL	Class	center line; close
A LABEL	Class A door	
B LABEL	Class B door	
C LABEL	Class C door	
D LABEL	Class D door	
E LABEL	Class E door	
CLASS	Classification	
CLRM	Classroom	
CO	Cleanout	carbon monoxide; cased opening; Certificate of Occupancy; company; cutout
COTG	Cleanout to grade	
CLR	Clear	color; cooler
CLWG	Clear wired glass	
CLT	Cleat	

CW	Clockwise	casement window; chemical waste line; cold water piping; cool white
CL	Close	centerline; class
CCTV	Closed circuit television	
CLO	Closet	
CRCMF	Closet rod	control relay; control room
CLOS	Closure	
CL D	Clothes dryer	
CH	Coat hook	chiller
CTD	Coated	
CTG	Coating	
COAX	coaxial cable	
COEFF	Coefficient	
COP	Coefficient of performance (heating)	coping
CU	Coefficient of utilization	cubic; copper
CRS	Cold rolled steel	
CW	Cold water	
CW SFT	Cold water soft	
CW	Cold water, piping	casement window; chemical waste line; clockwise; cool white
CFMF	Cold-formed metal framing	
CLR	Color	clear; cooler
CRI	Color rendering index	
COL	Column	
CLL	Column line	contract limit line
COMB	Combination, combined	
CS	Commercial standard	cast stone; control switch
COM	Common	
CG	Common ground	center of gravity; corner guard
CMR	Common mode rejection	
COMM	Communication	
CATV	Community antenna television	
CO	Company	carbon monoxide; cased opening; Certificate of Occupancy; cleanout; cutout
COMPT	Compartment	
COMPL	Complete	
COMP	Component	
CMPST	Composite	
CPRS	Compressible	
COMPR	Compressor	
CMPTR	Computer	
-----	Computer floor	
CNCL	Concealed	
CONC	Concentric	concrete
CONC	Concrete	concentric
-----	Concrete block	
CONC FLR	Concrete floor	

CMU	Concrete masonry unit	
CONC OPNG	Concrete opening	
PCCP	Concrete pavement	
CP	Concrete pipe	candlepower; control panel
CRSI	Concrete Reinforcing Steel Institute	
CSP	Concrete sewer pipe	
CSB	Concrete splash block	casing bead
CNDS	Condensate	
CNDP	Condensate pumped	
CNDR	Condensate return	
CRP	Condensate return pump	
CNDTP	Condensate transfer pump	
CONDN	Condensation	
COND	Condenser	condition
CWP	Condenser water pump	circulating water pump
CWR	Condenser water return	
CWS	Condenser water supply	
COND	Condition	condenser
CND	Conduit	
CONF	Conference	
CONN	Connect	
CONSTR	Construction	
CD	Construction documents	candela; contract documents
CJ	Construction joint	control joint
CM	Construction management	center matched
CSI	Construction Specifications Institute	
CONSULT	Consultant	
CNTOR	Contact	
CONT	Continue	controller
CTR	Contour	center; cooling tower return
CONTR	Contract	contractor
CCD	Contract change directive	
CD	Contract documents	candela; construction documents
CLL	Contract limit line	column line
CONTR	Contractor	contract
CF	Contractor furnished	cement floor
CFE	Contractor furnished equipment	
CF/CI	Contractor furnished/contractor installed	
CF/OI	Contractor furnished/owner installed	
CTRL	Control	
CCR	Control contactor	
CJ	Control joint	construction joint
CP	Control panel	candlepower; concrete pipe
CPT	Control power transformer	carpet
CR	Control relay	closet rod; control room
CR	Control room	closet rod; control relay
CS	Control switch	cast stone; commercial standard
CV	Control valve	

CONT	Controller	continue
CONV	Convert	
CNVR	Conveyor	
CK TP	Cook top	
CW	Cool white	casement window; chemical waste line; clockwise; cold water piping
CWX	Cool white deluxe	
CLR	Cooler	color; clear
C/C	Cooling coil	
C/T	Cooling tower	
CTR	Cooling tower return	contour; center
CTS	Cooling tower supply	
COWR	Cooling water return	
COWS	Cooling water supply	
COORD	Coordinate	
COP	Coping	coefficient of performance (heating)
CU	Copper	coefficient of utilization; cubic
-----	Cork tackboard	
-----	Corkboard	
CNR	Corner	
CB	Corner bead	carriage bolt; catch basin; cement base; ceramic base
CG	Corner guard	center of gravity; common ground
CORN	Cornice	
CORR	Correct	corridor
CORRES	Correspond	
CORR	Corridor	correct
-----	Corrugated deck	
CMP	Corrugated metal pipe	
CT	Count	ceramic tile; current transformer
CNTR	Counter	
CSK	Counter sink	
CCW	Counterclockwise	
CFLG	Counterflashing	
CPLG	Coupling	
CRT YD	Courtyard	
COV	Cover	cut off valve
COV PL	Cover plate	
CPM	Critical path method	
X BRACE	Cross brace	
X SECT	Cross section	
XBRA	Crossbracing	
CRN	Crown	
-----	Crushed stone	
CU	Cubic	coefficient of utilization; copper
cm3	Cubic centimeter	
CU FT	Cubic feet	
CFM	Cubic feet per minute	

CFS	Cubic feet per second	
CU IN	Cubic inch	
m3	Cubic meter	
m3/S	Cubic meter per second	
mm3	Cubic millimeter	
CU YD	Cubic yard	
CUB	Cubicle	
C&G	Curb and gutter	
CI	Curb inlet	cast iron
CUR	Current	
CLF	Current limiting fuse	
CT	Current transformer	ceramic tile; count
CURT	Curtain	
CUST	Custodian	
COV	Cut off valve	cover
CT STN	Cut stone	
CO	Cutout	carbon monoxide; cased opening; Certificate of Occupancy; cleanout; company
CYL	Cylinder	
CYL L	Cylinder lock	
KA	Cylinder locks keyed alike	
CYP	Cypress	
	D	
DF	Damage free	diesel fuel; drinking fountain
DMPR	Damper	
DPC	Dampproof course	
DMPF	Dampproofing	
DB	Database	dry bulb
DAT	Datum	
DL	Dead load	
dB	Decibel	
dg	Decigram	
dL	Deciliter	
dm	Decimeter	
D	Deep	depth; penny (nail)
DEF	Definition	
DFLCT	Deflection	
DFR	Defrost	
DGR	Degrease	
DEG	Degree	
DEG C	Degrees Celsius	
DEG F	Degrees Fahrenheit	
DIW	Deionized water	
DEL	Delete	deliver
DEL	Deliver	delete
-----	Delta	

DEMO	Demolition	demonstration
DEMO	Demonstration	demolition
DPTN	Demountable partition	
DENS	Density	
DEPT	Department	
D	Depth	deep; penny (nail)
DESCR	Describe	description
DESCR	Description	describe
DSGN	Design	
DES	Designation	
D-B	Design-build	
DTCH	Detach	
DET	Detail	
DETN	Detention	
DEV	Development	
DP	Dew point	
DPT	Dew point temperature	differential pressure transmitter
DIAG	Diagonal	diagram
DIAG	Diagram	diagonal
DIA	Diameter	
DF	Diesel fuel	damage free; drinking fountain
DIFF	Difference	differential; diffuser
DIFF	Differential	difference; diffuser
DPS	Differential pressure sensor	
DPT	Differential pressure transmitter	dew point temperature
DIFF	Diffuser	difference; differential
DGTL	Digital	
DIM	Dimension	
DMR	Dimmer	
DCP	Dimmer control panel	
DMR SW	Dimmer switch	
DR	Dining room	door; drain; dressing room; drive
DC	Direct current	
DDC	Direct digital control	
DIR	Direction	
-----	Dirt	
DSBL	Disable	
DA	Disabled	drainage area
DISCH	Discharge	
DISC	Disconnect	
DS	Disconnect switch	double strength (glass); downspout
DW	Dishwasher	distilled water; domestic water
DISP	Dispenser	
D&S	Display and storage	
DSPL	Disposal	
DIST	Distance	district
DW	Distilled water	dishwasher; domestic water
DISRT PNL	Distribution panel	

DIST	District	distance
DIV	Divide	division
DIV	Division	divide
DOC	Document	
-----	Domelite	
DOM	Domestic	
DWC	Domestic water cold	
DWH	Domestic water hot	double hung windows
DW	Domestic water	dishwasher; distilled water
DWH	Domestic water heater	
DW H R	Domestic water hot return	drawer
DW H S	Domestic water hot supply	
DR	Door	dining room; drain; dressing room; drive
DR CL	Door closer	
CR FR	Door frame	
DHI	Door Hardware Institute	
DRH	Door holder	
DRLV	Door louver	
DR OPNG	Door opening	
DRST	Door stop	
DRSW	Door switch	
DBL	Double	
DBL ACT DR	Double acting door	
XXH	Double extra heavy	
DBL GLZ	Double glaze	
DH	Double hung (door, window)	
DHW	Double hung windows	domestic hot water
DJ	Double joist	
DPDT	Double pole, double throw	
DPST	Double pole, single throw	
DS	Double strength (glass)	disconnect switch; downspout
DOUG FIR	Douglas fir	
DVTL	Dovetail	
DN	Down	
DS	Downspout	disconnect switch; double strength (glass)
DOZ	Dozen	
DFTG	Drafting	
DR	Drain	dining room; door; dressing room; drive
DT	Drain tile	
DWV	Drain, waste, and vent	
DA	Drainage area	disable
DWR	Drawer	domestic water return
DWG	Drawing	
D4S	Dressed four sides	
D1S	Dressed one side	
D2S	Dressed two sides	
DR AREA	Dressing area	
DR	Dressing room	dining room; door; drain; drive

DF	Drinking fountain	damage free; diesel fuel
DF WL MTD	Drinking fountain, wall mounted	
D & T	Drip and trap	
DR	Drive	dining room; door; drain; dressing room
DI	Drop inlet	
DB	Dry bulb	database
DBT	Dry bulb temperature	
D CHEM	Dry chemical	
DFT	Dry film thickness	
DSP	Dry standpipe	
-----	Drywall	
DAP	Duct access panel	
DCI	Duct covering insulation	
DLI	Duct liner insulation	
DCT/RT	Duct return	
DCT/RS	Duct rising; duct riser	
DCT SUP	Duct supply	
DIP	Ductile iron pipe	
DWTR	Dumbwaiter	
DX	Duplex	
DX OUT	Duplex outlet	
DUPL	Duplicate	
DT DR	Dutch Door	
	E	
EA	Each	
EE	Each end	
EF	Each face	exterior finish
EL	Each layer	easement line; elevation
EW	Each way	
ESMT	Easement	
EL	Easement line	each layer; elevation
E	East	modulus of elasticity
ECC	Eccentric	
ECC RDCR	Eccentric reducer	
ECON	Economizer	
EG	Edge grain	
EC	Edge of curb	
EP	Edge of pavement (paving)	electrical panel (panelboard)
ES	Edge of shoulder	electrostatic
EOS	Edge of slab	
EFT	Effect	
EFF	Effective	efficiency
EHP	Effective horsepower	electric heating panel
ET	Effective temperature	
EFF	Efficiency	effective
ELAST	Elastomeric	
ELEC	Electric	

ELEC DR OP	Electric door opener	
EHD	Electric hand dryer	
EH	Electric heater	
EHP	Electric heating panel	effective horsepower
EMT	Electric metallic tubing	
ENT	Electric nonmetallic tubing	
EPB	Electric panel board	
EWC	Electric water cooler	
EWH	Electric water heater	
ELEC CV	Electrical control voltage	
EO	Electrical outlet	
EP	Electrical panel (panelboard)	edge of pavement (paving)
ELEC PV	Electrical primary voltage ≥ 4160	
ERW	Electrical resistance welding	
ELEC SV	Electrical secondary voltage ≤ 480	
EOV	Electrically operated valve	
EM	Electromagnetic	expanded metal
EMI	Electromagnetic interference	
EDP	Electronic data processing	
-----	Electro-pneumatic	
ES	Electrostatic	edge of shoulder
ELEM	Element	elementary
ELEM	Elementary	element
EL	Elevation	each layer; easement line
ELEV	Elevator	
-----	Elevator cab	
EMER	Emergency	
EMCP	Emergency monitoring control panel	
EPO	Emergency power off	
EMER SHR	Emergency shower	
ENAM	Enamel	
ENCL	Enclosure	
ENGY	Energy	
EER	Energy efficiency ratio	
EMS	Energy management system	
ENG	Engine	
ENGR	Engineer	
EWA	Engineered Wood Association	
EJCDC	Engineers Joint Contract Documents Committee	
EAT	Entering air temperature	
EDBT	Entering dry bulb temperature	
EWT	Entering water temperature	
EWBT	Entering wet bulb temperature	
ENTR	Entrance	
ENVIR	Environment	
EPA	Environmental Protection Agency	
EQ	Equal	

EQL SP	Equally spaced	
EQUIP	Equipment	
EQUIV	Equivalent	
ESCAL	Escalator	
ESC	Escape	escutcheon
ESC	Escutcheon	escape
ESP	Especially	
ESTB	Establish	
EST	Estimate	
ETC	Et cetera	and so forth
EPDM	Ethylene propylene diene monomer	
EVAC	Evacuate	
EVAP	Evaporate	
ECU	Evaporating cooling unit	
EX	Example	
EXC	Excavate	
EXCH	Exchanger	
EXCL	Exclude	
EXEC	Execute	
EXH	Exhaust	exhibit
EXH A	Exhaust air	
EXH GR	Exhaust air grille	
EAR	Exhaust air register	
EXH DT	Exhaust duct	
EXH FN	Exhaust fan	
EXH HD	Exhaust hood	
EXHV	Exhaust vent	
EXH	Exhibit	exhaust
EXIST	Existing	
EXST GR	Existing grade	
ERD	Existing roof drain	
EXT LT	Exit light	
EXP	Expand	expansion; exposed
EM	Expanded metal	electromagnetic
EPS	Expanded polystyrene board (insulation)	
EXP	Expansion	expand; exposed
EXP BT	Expansion bolt	
EJ	Expansion joint	
EPRF	Expansion proof	
EXP	Exposed	expand; expansion
EXTN	Extension	
EXT	Exterior	external; extinguisher
EF	Exterior finish	each face
EFS	Exterior finish system	
EXT GR	Exterior grade	
EGB	Exterior gypsum board	
EGSB	Exterior gypsum sheathing board	
EIFS	Exterior Insulation and finish system	

EXT	External	exterior; extinguisher
EPT	External pipe thread	
ESP	External static pressure	
EXT	Extinguisher	exterior; external
XL	Extra large	
XPS	Extruded polystyrene board (insulation)	
EXTRU	Extrusion	
EGRD	Eye guard	
EWS	Eye wash station	
	F	
FAB	Fabric	
FWC	Fabric wallcovering	
FA	Face area	final assembly; fire alarm; fresh air
FC BRK	Face brick	
FOC	Face of concrete	face of curb
FOC	Face of curb	face of concrete
FOF	Face of finish	fuel oil return line
FOM	Face of masonry	
FOS	Face of slab	face of stud; fuel oil supply
FOS	Face of stud	face of slab; fuel oil supply
FOW	Face of wall	
F/F	Face to face	
FV	Face velocity	flush valve; foot valve
FTD	Facial tissue dispenser	
FACIL	Facility	
FAX	Facsimile	
FAC	Factor	
FCTY	Factory	
FM	Factory mutual	
F	Fahrenheit	female; fire line
FCU	Fan coil unit	
FPT	Fan powered terminal	
FF	Far face	finish face
FS	Far side	Federal Specification; fire station; full scale; full size
FAS	Fascia	fire alarm station
FAS BD	Fascia board	
FSTNR	Fastener	
FED	Federal	
FEA	Federal Energy Administration	
FHWA	Federal Highway Administration	
FHA	Federal Housing Administration	
FS	Federal Specification	far side; fire station; full scale; full size
FSN	Federal stock number	
FSC	Federal supply classification	
FTM	Federal test methods	
FDBK	Feedback	

FDR	Feeder	fire door
FDO	Feedout	
FDW	Feedwater	
FT	Feet	fire treated; foot; fully tempered (glass)
FPM	Feet per minute	
FPS	Feet per second	
F	Female	Fahrenheit; fire line
-----	Feminine napkin disposal	
-----	Feminine napkin vendor	
FN	Fence	
-----	Fiber insulation	
FRG	Fiber reinforced gypsum	
FRP	Fiber reinforced polyester	fiberglass reinforced plastic
-----	Fiberboard	
FGL	Fiberglass	
FRP	Fiberglass reinforced plastic	fiber reinforced polyester
FIG	Figure	
FC	File cabinet	footcandle
FLR	Filler	floor
FIL	Fillet	
FLTR	Filter	
FWR P	Filter water return pool	
FWS P	Filter water supply pool	
FA	Final assembly	face area; fire alarm; fresh air
FNGR JT	Finger joint	
FIN	Finish	
FIN BS	Finish both sides	
FF	Finish face	far face
FIN FLR	Finish floor	
FF EL	Finish floor elevation	
F4S	Finish four sides	
FIN GR	Finish grade	
F2S	Finish two sides	
FIN WD	Finish wood	
F1S	Finished one side	
FO	Finished opening	fuel oil
FTR	Finned tube radiation	
FA	Fire alarm	face area; final assembly; fresh air
FAAP	Fire alarm annunciator panel	
FABL	Fire alarm bell	
FABX	Fire alarm box	
FACP	Fire alarm control panel	
FAS	Fire alarm station	fascia
FB	Fire blanket	flat bar
F BRK	Fire brick	
FDMPR	Fire damper	
FDC	Fire department connection	
FDCC	Fire department connection cabinet	

FDV	Fire department valve	
FDR	Fire door	feeder
FE	Fire extinguisher	
FEC	Fire extinguisher cabinet	
FH	Fire hose	fire hydrant; flat head; flat head screws
FHC	Fire hose cabinet	
FHR	Fire hose rack	
FH	Fire hydrant	fire hose; flat head; flat head screws
F	Fire line	Fahrenheit; female
FP	Fire protection	fireproof; flag pole; freezing point
FPW	Fire protection water supply	
FPA	Fire rated assembly	
FR	Fire rating	fire resistant; frame
FR	Fire resistant	fire rating; frame
FRTW	Fire retardant treated wood	
FSH	Fire sprinkler head	
FSP	Fire standpipe	
FS	Fire station	far side; Federal Specifications; full scale; full size
FT	Fire treated	feet; foot; fully tempered (glass)
FW	Fire wall	flood wall
FPL	Fireplace	
FP	Fireproof	fire protection; flagpole; freezing point
FIXT	Fixture	
FP	Flagpole	fire protection; fireproof; freezing point
FLMB	Flammable	
FLG	Flange	flooring
FLRD	Flared	
FLASH	Flashing	
FB	Flat bar	fire blanket
FH	Flat head	fire hose; fire hydrant; flat head screws
FHMS	Flat head machine screw	
FH	Flat head screws	fire hose; fire hydrant; flat head
FHWS	Flat head wood screw	
FLEX	Flexible	
FL FIN CONC	Float finish concrete	
FLT GL	Float glass	
FW	Flood wall	fire wall
FLT	Floodlight	
FLR	Floor	filler
FAR	Floor area ratio	
FCO	Floor cleanout	
FD	Floor drain	
FLR FIN	Floor finish	
FL OUT	Floor outlet	
FLR PL	Floor plate	
FLR REG	Floor register	
FLR SK	Floor sink	

FLG	Flooring	flange
FL	Floorline	foot-lambert
FLL	Flow line	
FSS	Flow sensing switch	
FL SW	Flow switch	
F METER	Flowmeter	
FL OZ	Fluid ounce	
FLUOR	Fluorescent	
FLUOR FIX	Fluorescent fixture	
LT FLUOR	Fluorescent lighting	
FLMT	Flush mount	
FV	Flush valve	face velocity; foot valve
FR SNK	Flushing rim sink	
FLUT CMU	Fluted concrete masonry unit	
FLUT	Fluting	
-----	Foam backer	
FF BATT	Foil backed batt insulation	
FF INSUL	Foil backed insulation	
-----	Foil faced drywall	
-----	Foil faced gypsum wallboard	
FLDG	Folding	
FT	Foot	feet; fire treated; fully tempered (glass)
FBM	Foot board measure	
FV	Foot valve	face velocity; flush valve
FT/LB	Foot/pound	
FT/LBF	Foot/pound force	
FC	Footcandle	file cabinet
FTG	Footing	
FL	Foot-lambert	floorline
FMBD	Form board	
-----	Formica	
FWRK	Formwork	
FDTN	Foundation	
FOUNT	Fountain	
FR	Frame	fire rating; fire resistant
FR MIR	Framed mirror	
FR MIR/SHF	Framed mirror and shelf	
FRMG	Framing	
FRWY	Freeway	
FRZ	Freezer	
FSTAT	Frezestat	
FP	Freezing point	fire protection; fireproof; flagpole
FRT	Freight	
FREQ	Frequency	
FA	Fresh air	face area; final assembly; fire alarm
FAI	Fresh air inlet (intake)	
FR GL	Fritted glass	
FFA	From floor above	

FFB	From floor below	
FRST GL	Frosted glass	
FO	Fuel oil	finished opening
FO 1	Fuel oil #1	
FO 2	Fuel oil #2	
FO 2R	Fuel oil #2 return	
FO 6	Fuel oil #6	
FO 6R	Fuel oil #6 return	
FOP	Fuel oil pump	
FOR	Fuel oil return	
FOF	Fuel oil return line	face of finish
FOTK	Fuel oil storage tank	
FOS	Fuel oil supply	face of slab; face of stud
FOV	Fuel oil vent	
FHP	Full height partition	
FLA	Full load amps	
FS	Full scale	far side; Federal Specifications; fire station; full size
FS	Full size	far side; Federal Specifications; fire station; full scale
FVNR	Full voltage non-reversing	
FVR	Full voltage reversing	
FT	Fully tempered (glass)	feet; fire treated; foot
FURN	Furnace	furnish; furniture
FURN	Furnish	furnace; furniture
-----	Furnished by owner	
FURN	Furniture	furnace; furnish
FF&E	Furniture, fixture, and equipment	
FURG	Furring	
-----	Fuse box	
FU SW	Fused switch	
FUS LINK	Fusible link	
FUT	Future	
	G	
GA	Gage	Gypsum Association
GAL	Gallon	
GPD	Gallons per day	
GPH	Gallons per hour	
SGPH	Gallons Per Hour, Standard	
GPM	Gallons per minute	
GPS	Gallons per second	
GALV	Galvanic	galvanized
GALV	Galvanized	galvanic
GI	Galvanized iron	
GIP	Galvanized iron pipe	
GSM	Galvanized sheet metal	
GALV STL	Galvanized steel	

G DISP	Garbage disposal	
GRDN	Garden	
GB	Gas bibb	grab bar
GWH	Gas fired water heater	
G LN	Gas line	
GPR	Gas pressure regulator	
GVTR	Gas vent through roof	
GV	Gasoline vent	gravity vent
GTV	Gate valve	
-----	Gauge	
GEN	General	generator
GEN COND	General conditions	
GC	General contractor	
GEN PURP	General purpose	
GEN	Generator	general
G	Girder	ground; natural gas
GL	Glass	ground level
GL BLK	Glass block	
GFRC	Glass-fiber reinforced concrete	
GFRG	Glass-fiber reinforced gypsum	
GFRP	Glass-fiber reinforced plaster	glass-fiber-reinforced plastic
GFRP	Glass-fiber reinforced plastic	glass-fiber-reinforced plaster
GLZ CMU	Glazed concrete masonry unit	
GSU	Glazed structural unit	
GWT	Glazed wall tile	
GLZ	Glazing	
GLV	Globe valve	
-----	Glue	
GLU LAM	Glued laminated wood	
GOVT	Government	
GB	Grab bar	gas bibb
B&B	Grade B or better (lumber)	balled and burlapped; bell and bell
FR BM	Grade beam	
C&BTR	Grade C and better	
GCO	Grade cleanout	
GR LN	Grade line	
GRAD	Gradient	
GMK	Grand master key	
GMKD	Grand master keyed	
GRAN	Granite	
GRTG	Grating	
-----	Gravel	
GRV	Gravity roof ventilator	groove
GV	Gravity vent	gasoline vent
-----	Graylite	
GT	Grease trap	gross ton; grout
GRL	Grille	
GROM	Grommet	

GRV	Groove	gravity roof ventilator
GR	Gross	
GT	Gross ton	grease trap; grout
GR WT	Gross weight	
G	Ground	girder; natural gas
GFCI	Ground fault circuit interrupter	
-----	Ground fault interrupter	
GR FL	Ground floor	
GL	Ground level	glass
GRD OUT	Grounded outlet	
GP	Group	
GT	Grout	grease trap; gross ton
GUAR	Guarantee	
GMP	Guaranteed maximum price	
GD	Guard	
GDR	Guard rail	
GUT	Gutter	
GYM	Gymnasium	
-----	Gyplath	
GYP	Gypsum	
GA	Gypsum Association	gage
GYP BD	Gypsum board	
-----	Gypsum panel	
GYP PLAS	Gypsum plaster	
GPC	Gypsum plaster ceiling	
GSB	Gypsum sheathing board	
-----	Gypsum wallboard	
	H	
HMR	Hammer	
HD	Hand dryer	heavy duty
HH	Hand hole	
HS	Hand sink	heat-strengthened (glass); high strength
HC	Handicap	heating coil; heavy commercial; hollow core; hose cabinet
HCP	Handicapped	
HOA	Hand-off-automatic	
HNDRL	Handrail	
HGR	Hanger	
HDBD	Hardboard	
HDNR	Hardener	
HDW	Hardware	
HDWD	Hardwood	
H	Hatch (roof)	high
HAZ	Hazard	
HAZ MAT	Hazardous materials	
HD JT	Head joint	
HDR	Header	

HQ	Headquarters	
HDWL	Headwall	
HAGL	Heat absorbing glass	
HEX	Heat exchanger	hexagon
HG	Heat gain	
HP	Heat pump	high pressure; horsepower
Q	Heat transfer	rate of flow
U	Heat transfer coefficient	
HT TRD	Heat treated (glass)	
HC	Heating coil	handicap; heavy commercial; hollow care; hose cabinet
	Heating water pump	
HTWR	Heating water return	
HTWS	Heating water supply	
HVAC	Heating, ventilating, and air conditioning	
HS	Heat-strengthened (glass)	hand sink; high strength
HVY	Heavy	
HC	Heavy commercial	handicap; heating coil; hollow core; hose cabinet
HD	Heavy duty	hand dryer
ha	Hectare	
hL	Hectoliter	
hm	Hectometer	
HT	Height	
HEM	Hemlock	
-----	Herculite	
Hz	Hertz	
HEX	Hexagon	heat exchanger
H	High	hatch (roof)
HDO	High density overlay	
HDPE	High density polyethylene	
HEPA	High efficiency particulate air (filter)	
HF	High frequency	
HID	High intensity discharge	
HPF	High power factor	
HP	High pressure	heat pump; horsepower
HPA	High pressure air	high pressure air
HPB	High pressure boiler	
HPDT	High pressure drip trap	
HPG	High pressure gas	
H PLAM	High pressure plastic laminate	
HPR	High pressure return	
HPS	High pressure sodium	high pressure steam
HPS	High pressure steam	high pressure sodium
HPT	High pressure trap	
HS	High strength	hand sink; heat-strengthened (glass)
HTHW	High temperature hot water	
HVD	High velocity diffuser	

HVT	High velocity terminal	
HV	High voltage	hose valve
HWY	Highway	
HST	Hoist	
HO	Hold open	
HLDN	Holddown	
HCMU	Hollow concrete masonry unit	
HC	Hollow core	handicap; heating coil; heavy commercial; hose cabinet
HCWD	Hollow core wood door	
HM	Hollow metal	
HMD	Hollow metal door	humidity
HMDF	Hollow metal door and frame	
HMF	Hollow metal frame	
HMMA	Hollow Metal Manufacturers Association	
HORIZ	Horizontal	
SLD WDW	Horizontal sliding window	
HP	Horsepower	heat pump; high pressure
HB	Hose bibb	
HC	Hose cabinet	handicap; heating coil; heavy commercial; hollow core
HCONN	Hose connector	
HGV	Hose gate valve	
HV	Hose valve	high voltage
HOSP	Hospital	
H&CW	Hot and cold water	
HW	Hot water	
HWB	Hot water boiler	
HWCP	Hot water circulating pump	
HWC	Hot water coil	HWRC
-----	Hot water heater	
HWHR	Hot water heating return	
HWHS	Hot water heating supply	
HWP	Hot water pump	
HWRC	Hot water recirculating	
HWR	Hot water return	
HWS	Hot water supply	
HWT	Hot water tank	
HSE	House	
HSKPG	Housekeeping	
HSTAT	Humidistat	
HMD	Humidity	hollow metal door
CCF	Hundred cubic feet	
CWT	Hundred weight	
HYD	Hydrant	
HYDR	Hydraulic	
HCFC	Hydrochlorofluorocarbons	

	I	
IB	I Beam	
ID	Identification	inside diameter; inside dimensions; interior design
ID NO	Identification number	
IGN	Ignition	
ILLUM	Illumination	
IESNA	Illumination Engineering Society of North America	
ILLUS	Illustrate	
IMED	Immediate	
IIC	Impact Isolation class	
INR	impact noise rating	
IPM	Impulses per minute	
IPS	Impulses per second	international pipe standard; iron pipe size
INCAND	Incandescent	
IN/S	Inches per second	
IN WC	Inches, water column	
IN-LB	Inch-pound	
IN-LBF	Inch-pound force	
INCIN	Incinerator	
INCL	Included	
INC	Increase	
INCR	Increment	
IND	Independent	industrial
IAQ	Indoor air quality	
IND	Industrial	Independent
INF	Infinite	
INFO	Information	
IR	Infrared	inside radius
IMH	Inlet manhole	
I/O	Input/output	
IS	Insect screen	island
ID	Inside diameter	identification; inside dimension; interior design
ID	Inside dimension	Identification; inside diameter; interior design
IF	Inside face	intake fan
IFS	Inside face of stud	
IR	Inside radius	infrared
INSP	Inspect	
INSTL	Install	
IWH	Instantaneous water heater	
INSTR	Instrument	
INSUF	Insufficient	
INSUL PNL	Insulated metal panel	
INSUL	Insulation	

INS	Insurance	
IF	Intake fan	inside face
INTERCOM	Intercommunication	
INT	Interior	
ID	Interior design	identification; inside diameter; inside dimension
BX	Interlocked armored cable	
IMC	Intermediate metal conduit	
INTL	International	
IBC	International Building Code	
IPS	International pipe standard	impulses per second; iron pipe size
ISO	International Standards Organization	isometric
SI	International System of Units	
IC	Interrupting capacity	ironing cabinet
I	Interstate (highway)	moment of inertia
ITS	Intertek Testing Services	
INV	Invert	
INV EL	Invert elevation	
IRMA	Inverted roof membrane assembly	
IP	Iron pipe	
IPS	Iron pipe size	impulses per second; inches per second; international pipe standard
IPT	Iron pipe threaded	
IC	Ironing cabinet	interrupting capacity
IRREG	Irregular	
IW	Irrigation water	
IS	Island	insect screen
IT	Isolation transformer	
ISO	Isometric	International Standards Organization
	J	
JAL	Jalousie	
JAN	Janitor	
JAN CLO	Janitor closet	
-----	Janitor sink	
JS	Janitor's sink	
-----	Joint filler	
-----	Joint stuffer	
J-BOX	Junction box	
JR	Junior	
	K	
-----	Kalamein door	
K	Kelvin	thousand
KWY	Keyway	
KPL	Kickplate	
KD	Kiln dried	knocked down
k	Kilo	

kCAL	Kilocalorie	
kg	Kilogram	
kHz	Kilohertz	
kL	Kiloliter	
km	Kilometer	
km/h	Kilometers per hour	
km/s	Kilometers per second	
kV	Kilovolt	
kVA	Kilovolt ampere	
kVAh	Kilovolt ampere per hour	
kVAR	Kilovolt ampere reactive	
kW	Kilowatt	
kWh	Kilowatt hour	
kWhm	Kilowatt hour meter	
kPa	Kilopascal	
KLF	Kips per lineal foot	
KSF	Kips per square foot	
KSI	Kips per square inch	
KIT	Kitchen	
KC	Kitchen cabinet	
KB	Knee brace	
KOP	Knock out panel	
KD	Knocked down	kiln dried
KO	Knockout	
	L	
LAB	Laboratory	
LAQ	Lacquer	
LAD	Ladder	
LAG	Lagging	
L COL	Lally column	
LAM	Laminate	
LAM GL	Laminated glass	
LLD	Lamp lumen depreciation	
LDG	Landing	
LDMK	Landmark	
LNDSCP	Landscape	
LN	Lane	
LRG	Large	
LS	Large scale	lawn sprinkling; lump sum
L&L	Latch and lock	
LH	Latent heat	left hand
LHG	Latent heat gain	
LHR	Latent heat ratio	left hand reverse
LATL	Lateral	
-----	Lath	
L&P	Lath and plaster	
LAT	Latitude	lattice; leaving air temperature

LAT	Lattice	latitude; leaving air temperature
LANH	Launch	
LAU	Laundry	
LC	Laundry chute	
LAV	Lavatory	
LS	Lawn sprinkling	large scale; lump sum
LYR	Layer	
LYT	Layout	
LL	Lead lined	live load; low level; lower left
LL GB	Lead lined gypsum board	
LDR	Leader	
LA	Leaving air	lighting arrester
LAT	Leaving air temperature	latitude; lattice
LDBT	Leaving dry bulb temperature	
LWT	Leaving water temperature	
LWBT	Leaving wet bulb temperature	
LH	Left hand	latent heat
LHR	Left hand reverse	latent heat ratio
LHS	Left hand side	
-----	Lexan	
LIB	Library	
LT	Light	
LED	Light emitting diode	
LT GA	Light gage	
LP	Light pole	lightproof; liquid petroleum; low pressure(mechanical)
LT SW	Light switch	
LTG	Lighting	
LTG PNL	Lighting panel	
LTNG	Lightning	
LA	Lightning arrester	leaving air
LP	Lightproof	light pole; liquid petroleum; low pressure(mechanical)
LPL	Lightproof louver	
LPV	Lightproof vent	
LT WT	Lightweight	
LWC	Lightweight concrete	
LCMU	Lightweight concrete masonry unit	
LWIC	Lightweight insulating concrete	
LW PLAS	Lightweight plaster	
LMST	Limestone	
LIM SW	Limit switch	
LTD	Limited	
LG	Line ground	liquid gas
LOS	Line of sight	
LIN	Linear	
LCD	Linear ceiling diffuser	
LD	Linear diffuser	

LF	Linear feet (foot)	
L CL	Linen closet	
LINO	Linoleum	
LIQ	Liquid	liquor
LG	Liquid gas	line ground
LNG	Liquid natural gas	longitude
LOX	Liquid oxygen	
LP	Liquid petroleum	light pole; lightproof; low pressure(mechanical)
LPG	Liquid petroleum gas	low pressure gas
LIQ	Liquor	liquid gas
L	Liter	angle
L/s	Liter per second	
LL	Live load	lead lined; lower left; low level
LRG	Living room	
LD BRG	Load-bearing	
LOC	Location	
LO	Lock on	lubricating oil
LRA	Locked rotor ramps	
LKR	Locker	
LKR RM	Locker room	
LKNT	Locknut	
LKWASH	Lockwasher	
LOG	Logarithm	
LLH	Long leg horizontal	
LLV	Long leg vertical	
LNG	Longitude	liquid natural gas
LONG	Longitudinal	
LCMU	Loose cubic meter	
LCY	Loose cubic yard	
LF INS	Loose fill insulation	
-----	Loudspeaker	
LVR	Louver	
LVDR	Louver door	
LVDR	Louvered	
LRV	Louvered roof vent	
LDPE	Low density polyethylene	
LL	Low level	lead lined; live load; lower left
LPT	Low point	
LPF	Low power factor	
LP	Low pressure (mechanical)	light pole; lightproof; liquid petroleum
LPAS	Low pressure alarm switch	
LPA	Low pressure air	
LPB	Low pressure boiler	
LPCR	Low pressure condensate return	
LPDT	Low pressure drip trap set	
LPG	Low pressure gas	liquid petroleum gas
LPR	Low pressure return	

LPS	Low pressure sodium	low pressure steam
LPS	Low pressure steam	low pressure sodium
LTHW	Low temperature hot water	
LV	Low voltage	
LW	Low water	
LWCO	Low water cut off	
LWM	Low water mark	
LL	Lower left	lead lined; live load; low level
LUB	Lubricate	
LO	Lubricating oil	lock on
LOP	Lubricating oil pump	
LOV	Lubricating oil vent	
----	Lucite	
LBR	Lumber	
LM	Lumen	
LDD	Lumen dirt depreciation	
LPW	Lumen per watt	
LS	Lump sum	larger scale; lawn sprinkling
	M	
MACH	Machine	
MB	Machine bolt	mail box; mixing box
MACH RM	Machine room	
MS	Machine screw	mop sink; motor starter
MAG	Magnet	
MN	Magnetic north	
MAHOG	Mahogany	
MB	Mail box	machine bolt; mixing box
MCH	Mail chute	
MCB	Main circuit breaker	metal corner bead
MAINT	Maintenance	
MAU	Make up air unit	
MAUW	Make up water	
MPT	Male pipe thread	
MGT	Management	
MH	Manhole	
MC	Manhole cover	mechanical contractor; medicine cabinet; metal-clad; moisture content; moment connection
MAN	Manual	
MAV	Manual air vent	
MD	Manual damper	metal deck
MTS	Manual transfer switch	
MVD	Manual volume damper	
MFD	Manufactured	
MFR	Manufacturer	mass flow rate
MFR REC	Manufacturer's recommendation	
MFG	Manufacturing	

MFMA	Maple Flooring Manufacturer's Association	Metal Framing Manufacturer's Association
MRB	Marble base	
MRF	Marble floor	
MIA	Marble Institute of America	
MRT	Marble threshold	
MKR	Marker	
-----	Masonite	
MO	Masonry opening	motor operated
MFR	Mass flow rate	manufacturer
MATV	Master antenna television system	
MBR	Master bedroom	member
MSW	Master switch	
MKD	Masterkeyed	
MHD	Masthead	
-----	Mastic	
MF	Mastic floor	mill finish
MATL	Material	
ML	Materials list	metal lath; monolithic
MTX	Matrix	
MAX	Maximum	
MOCP	Maximum overcurrent protection	
MSL	Mean sea level	
MTD	Mean temperature difference	mounted
MEAS	Measure	
MECH	Mechanical	
MC	Mechanical contractor	manhole cover; medicine cabinet; metal-clad; moisture content; moment connection
ME	Mechanical engineer	medical
MECH RM	Mechanical room	
MED	Medical	
MC	Medical cabinet	
MED	Medium	
MDO	Medium density overlay	
MPT	Medium pressure	
MPG	Medium pressure gas	miles per gallon
MPR	Medium pressure return	
MPS	Medium pressure steam	
MTHW	Medium temperature hot water	
MTG	Meeting	mounting
MHz	Megahertz	
MVA	Megavolt-ampere	
MW	Megawatt	microwave
MWh	Megawatt hour	
MEL	Melamine	
MBR	Member	master bedroom
MEMB	Membrane	
MWP	Membrane waterproofing	

MEMO	Memorandum	
Hg	Mercury	
MER	Meridian	
MTL	Metal	
MTLB	Metal base	
MCB	Metal corner bead	main circuit breaker
MD	Metal deck	manual damper
MTLD	Metal door	
MTLF	Metal flashing	
MFMA	Metal Framing Manufacturer's Association	Maple Flooring Manufacturer's Association
ML	Metal lath	materials list; monolithic
ML&P	Metal lath and plaster	
-----	Metal nosing	
MOS	Metal oxide semiconductor	
MTLP	Metal partition	
MTLR	Metal roof	
MT	Metal threshold	mount
MC	Metal-clad	manhole cover; medicine cabinet; mechanical contractor; moisture content; moment connection
m	Meter	
m/s	Meters per second	
MEK	Methyl ethyl ketone	
MEZZ	Mezzanine	
MIC	Microphone	
MW	Microwave	megawatt
MID	Middle	
MPG	Miles per gallon	medium pressure gas
MPH	Miles per hour	
MIL STD	Military standard	
MF	Mill finish	mastic floor
mA	Milliampere	
mm	Millimeter	
MGD	Million gallons per day	
ms	Millisecond	
mV	Millivolt	
mW	Milliwatt	
MLWK	Millwork	
MIN	Minimum	minute
MCS	Minimum circuit amps	
MIN	Minute	minimum
MIRR	Mirror	
-----	Mirror glass	
MISC	Miscellaneous	
-----	Miscellaneous metal	
MIT	Miter	
MA	Mixed air	
MAT	Mixed air temperature	

MB	Mixing box	machine bolt; mail box
MOD	Model	modify; module; motor operated damper
MOD BIT	Modified bitumen	
MOD	Modify	model; module; motor operated damper
MODEM	Modulator-demodulator	
MOD	Module	model; modify; motor operated damper
E	Modulus of elasticity	east
Z	Modulus of section	
MSTRE	Moisture	
MC	Moisture content	manhole cover; mechanical contractor; medicine cabinet; metal-aid; moment connection
MR	Moisture resistant	
MLDG	Molding (moulding)	
M	Moment	
MC	Moment connection	manhole cover; mechanical contractor; medicine cabinet; metal-clad; moisture content
I	Moment of inertia	interstate (highway)
MON	Monitor	monument
ML	Monolithic	materials list; metal lath
MON	Monument	monitor
MOPR	Mop rack	
MSB	Mop service basin	
MS	Mop sink	machine screw; motor starter
MBH	Mop/broom holder	
MOT	Motor	
MCC	Motor control center	
MDC	Motor direct connect	
MG	Motor generator	
MO	Motor operated	masonry opening
MOD	Motor operated damper	model; modify; module
MOV	Motor operated valve	
MS	Motor starter	machine screw; mop sink
MT	Mount	metal threshold
MPCW	Mount Pleasant city water	
MTD	Mounted	mean temperature differences
MTG	Mounting	meeting
MVBL	Movable	
MULL	Mullion	
MULT	Multiple	
MZ	Multizone	
MUNIC	Municipal	
	N	
NPL	Nameplate	nickel plated
NAR	Narrow	
NS	Narrow stile	near side; no scale

NATL	National	
NAAMM	National Association of Architectural Metal Manufacturer's	
NBC	National Building Code	
NBC	National Bureau of Standards	
NEC	National Electrical Code	
NEMA	National Electrical Manufacturer's Association	
MFRC	National Fenestration Rating Council	
NFC	National Fire Code	
NFPA	National Fire Protection Association	
NIBS	National Institute of Building Sciences	
NIST	National Institute of Standards and Technology	
NPCA	National Paint and Coatings Association	
NRCA	National Roofing Contractor's Association	
NAT	Natural	
G	Natural gas	girder; ground
NF	Near face	
NS	Near side	narrow stile; no scale
NEG	Negative	
NEGTD	Negotiated	
NT WT	Net weight	
NEUT	Neutral	
N	Newton	north
NKL	Nickel	
NICOP	Nickel cooper	
NCA	Nickel cooper alloy	
NPL	Nickel plated	nameplate
NI SL	Nickel silver	
NL	Night light	
NP	No paint	
NS	No scale	narrow stile; near side
NCA	Noise criteria	normally closed
NIC	Noise isolation class	not in contract
NR	Noise reduction	
NRC	Noise reduction coefficient	
NOM	Nominal	
NCOMBL	Noncombustible	
NONFLMB	Nonflammable	
NFSD	Nonfused	
NLB	Nonloadbearing	
NMAG	Nonmagnetic	
NM	Non-metallic	
NRCP	Non-reinforced concrete pipe	
NRP	Nonremovable	
-----	Non-slip stair nosing	
NON STD	Nonstandard	

NORM	Normal	
NC	Normally closed	noise criteria
NO	Normally open	number
N	North	newton
NA	Not applicable	
NE	Not exceeding	
NIC	Not in contract	noise isolation class
NTS	Not to scale	
NOC	Notice of clarification	
NTP	Notice to proceed	
NO	Number	normally open
NUM	Numeral	
	O	
OGL	Obscure glass	
OWGL	Obscure wired glass	
OBW	Observation window	
OSHA	Occupational Safety and Health Administration	
OCC	Occupy	
OCT	Octagon	
OFF	Office	
OCB	Oil circuit breaker	
OCR	Oil circuit recloser	
OGA	Oil gage	
OLVL	Oil level	
OPRS	Oil pressure	
OP	Oil proof	
OSL	Oil seal	
OS	Oil switch	
OTG	Oil temperature gauge	
OC	On center	
MGPH	One thousand gallons per hour	
MSF	One thousand square feet	
OPQ	Opaque	
	Open web steel joists	
OPNG	Opening	
OPR	Operable	
OR	Operating room	outside radius
OSP	Operating steam pressure	
OPP	Opposite	
OPH	Opposite hand	
OPT	Optimum	optional
OPT	Optional	optimum
ORD	Ordnance	overflow roof drain
ORG	Organic	
ORIG	Original	
ORN	Ornamental	

OZ	Ounce	
O/O	Out to out	
OUT	Outlet	
OA	Outside air	overall
OAD	Outside air damper	
OAG	Outside air grille	
OAI	Outside air intake	
OD	Outside diameter	outside dimension
OD	Outside dimension	outside diameter
OF	Outside face	
OFS	Outside face of studs	
OR	Outside radius	operating room
O/	Over	
OA	Overall	outside air
OVC	Overcurrent	
OVFL	Overflow	
OFD	Overflow drain	
ORD	Overflow roof drain	ordnance
OH	Overhang	
OH DR	Overhead (coiling) door	
OL	Overload	
OVRD	Override	
OF/CI	Owner furnished/contractor installed	
OF/OI	Owner furnished/owner installed	
O	Oxygen	
	P	
PKG	Package	
PTAC	Packaged terminal air conditioner	
PT	Paint	pipe thread; pneumatic tube; post-tensioned; pressure treated
PB	Painted base	panelboard; panic bar; pull box; pushbutton
PMET	Painted metal	
PDCA	Painting and Decorating Contractors of America	
PR	Pair	pipe rail; pumped return
PNL	Panel	
PP	Panel point	polypropylene (plastic); push/pull
PB	Panelboard	painted base; panic bar; pull box; pushbutton
PB	Panic bar	painted base; panelboard; pull box; pushbutton
PANB	Panic bolt	
PCD	Paper cup dispenser	
PTD	Paper towel dispenser	printed
PTDR	Paper towel dispenser and receptacle	
PTR	Paper towel receptacle	
PARA	Paragraph	

PAR	Parallel	parapet
PAR	Parapet	parallel
PAREN	Parenthesis	
PARG	Parging	
PRKG	Parking	
PK GAR	Parking garage	
PK LOT	Parking lot	
PKWY	Parkway	
PN	Part number	
PART	Partial	
PBD	Particleboard	
PTN	Partition	
PPM	Parts per million	
Pa	Pascal	
PW	Pass window	
PASS	Passenger	
-----	Pass-through window	
-----	Paste	
PAT	Pattern	
PV	Paved	
PV RD	Paved road	
-----	Pavement	
PVG	Paving	
PED	Pedestal	
PGBD	Pegboard	
PEND	Pendant	
PEN	Penetrate	
D	Penny (nail)	deep; depth
PH	Penthouse	phase
PCT	Percent	
PERF	Perforated	perform
PERF	Perform	perforated
PERIM	Perimeter	
PER	Period	
PERM	Permanent	
PERP	Perpendicular	
PETRO	Petroleum	
PHAR	Pharmacy	
PH	Phase	penthouse
PM	Phase meter	
PHS	Phillips head screw	
PE	Photoelectric	pneumatic electric
PEC	Photoelectric cell	
PHOTO	Photograph	
PC	Piece	point of curve; polycarbonate; portland cement
PIL	Pilaster	
PLG	Piling	

PA	Pipe anchor	power amplifier; public address
PR	Pipe rail	pair; pumped return
PSL	Pipe sleeve	
PT	Pipe thread	paint; pneumatic tube; post-tensioned; pressure treated
-----	Pitch pocket	
PIV	Pivoted	post indicator valve
PLC	Place	
PMBC	Plant mix bituminous concrete	
PLAS	Plaster	plastic
PLST WL	Plaster wall	
PLAS	Plastic	plaster
PLAM	Plastic laminate	
PL GL	Plate glass	
PLAT	Platform	
-----	Plexiglass	
PLB	Plumb	
PLBG	Plumbing	
PLYWD	Plywood	
PNEU	Pneumatic	
PE	Pneumatic electric	photoelectric
PT	Pneumatic tube	paint; pipe thread; post-tensioned; pressure-treated
PC	Point of curve	piece; polycarbonate; portland cement
PI	Point of intersection	
P	Pole	pump
POL	Polished	
PPGL	Polished plate glass	
PC	Polycarbonate	piece; point of curve; portland cement
PCB	Polychlorinated biphenyl	
POLY	Polyethylene (plastic)	
PIB	Polyisobutylene (plastic)	
PP	Polypropylene (plastic)	panel point; push/pull
PSL	Polystyrene (plastic)	pull station
PVA	Polyvinyl acetate	
PVC	Polyvinyl chloride (plastic)	
PVF	Polyvinyl fluoride (plastic)	
PORC	Porcelain	
PORT	Portable	
POTW	Portable water	
PC	Portland cement	piece; point of curve; polycarbonate
PCA	Portland Cement Association	
PCP	Portland cement plaster	
POS	Position	positive
POS	Positive	position
PIV	Post indicator valve	pivoted
PO	Post office	purchase order

PT	Post-tensioned	paint; pipe thread; pneumatic tube; pressure-treated
PT CONC	Post-tensioned concrete	
LB	Pound	
LBF	Pound-force	
LBF/CF	Pound-force per cubic foot	
LBF/FT	Pound-force per foot	
LBF/HP	Pound-force per horsepower	
LBF/H	Pound-force per hour	
LBF/IN	Pound-force per inch	
LBF/MIN	Pound-force per minute	
LBF/SF	Pound-force per square foot	
LBF/SI	Pound-force per square inch	
PCF	Pounds per cubic foot	
PLF	Pounds per linear foot	
PSF	Pounds per square foot	
PSI	Pounds per square inch	
PSIA	Pounds per square inch absolute	
PSIG	Pounds per square inch, gage	
-----	Pour	
-----	Poured in place	
PWR	Power	
PA	Power amplifier	pipe anchor; public address
PF	Power factor	
POW LN	Power line	
-----	Power panel	
-----	Power pole	
PRE	Power roof exhaust	
PRV	Power roof ventilator	pressure reducing valve; pressure regulator valve; pressure relief valve.
PRCST	Precast	
PCC	Precast concrete	precool coil
PCI	Precast/Pressed Concrete Institute	
PCC	Precool coil	precast concrete
-----	Precut	
PREFAB	Prefabricate	
PREF	Preference	
PREFIN	Prefinish	
-----	Pre-fit	
PREFMD	Preformed	
PHC	Preheat coil	
PRELIM	Preliminary	
PRMLD	Premolded	
PEJ	Premolded expansion joint	
PREP	Preparation	
PRESS	Pressure	
PD	Pressure drop or difference	
PG	Pressure gage	profile grade

PRS	Pressure reducing station	
PRV	Pressure reducing valve	power roof ventilator; pressure regulator valve; pressure relief valve
PRV	Pressure regulator valve	power roof ventilator; pressure reducing valve; pressure relief valve
PRV	Pressure relief valve	power roof ventilator; pressure regulator valve; pressure reducing valve
PRESS SW	Pressure switch	
PTRV	Pressure temperature relief valve	
PT	Pressure treated	paint; pipe thread; pneumatic tube; post-tensioned
PS CONC	Prestressed concrete	
-----	Pre-trimmed	
PREV	Previous	
PRI	Primary	
PMP	Primary chill water pump	
PCHWR	Primary chilled water return	
PCHWS	Primary chilled water supply	
PHWR	Primary hot water return	
PHWS	Primary hot water supply	
-----	Prime coat	
-----	Primer	
PRIN	Principal	
PTD	Printed	paper towel dispenser
PMF	Probable maximum flood	
PROD	Production	
PG	Profile grade	pressure gage
PROJ	Project	
PROP	Property	
PL	Property line	
PROV	Provisional	
PSFA	PSF absolute	
PSFG	PSF gage	
PA	Public address	pipe anchor; power amplifier
PB	Pull box	painted base; panelboard; panic bar; pushbutton
PS	Pull station	polystyrene (plastic)
P	Pump	pole
PDISCH	Pump discharge	
PMPST	Pump suction	
CNDP	Pumped condensate	
PR	Pumped return	pair; pipe rail
PO	Purchase order	post office
PUR	Purlins	
PSH	Purse shelf	
PRD	Push rod	
PP	Push/pull	panel point; polypropylene (plastic)
PP PL	Push/pull plate	

PB	Pushbutton	painted base; panelboard; panic bar; pull box
	Q	
QUAD	Quadrangle	quadrant
QUAD	Quadrant	quadrangle
4OUT	Quadruple receptacle outlet	
QUAL	Quality	
QA	Quality assurance	
QC	Quality control	
QCR	Quality control review	
QM	Quality management	
QTY	Quantity	
QRY	Quarry	
QT	Quarry tile	
QTB	Quarry tile base	
QTF	Quarry tile floor	
QTR	Quarter	
QUOT	Quotation	
	R	
RAB	Rabbeted	
RAD	Radian	radiator; return air duct
RADN	Radiation	
RAD HAZ	Radiation hazard	
RAD	Radiator	radian; return air duct
RF	Radio frequency	resilient flooring
R	Radius	range; riser; thermal resistance
RLG	Railing	
RR	Railroad	roll roofing
RDS	Rain water downspout	
RGUT	Rain water gutter	
RWL	Rain water leader	
R	Range	radius; riser; thermal resistance
RS	Rapid start	rough sawn
Q	Rate of flow	heat transfer
RTG	Rating	
RKVA	Reactive kilovolt amperes	
RECD	Received	
RCVR	Receiver	
RECPT	Receptacle	
RCPTN	Reception	
REC	Recessed	
RWR	Recessed waste receptacle	
RECIP	Reciprocal	
RECIRC	Recirculate	
RECIRCP	Recirculate pump	
REC ROOM	Recreation room	

RECT	Rectangle	
RDC	Reducer	
RWD	Redwood	
REF	Reference	refrigerator
REFL	Reflect	
RCP	Reflected ceiling plan	reinforced concrete pipe
REFR	Refractory	refrigeration
RFGT	Refrigerant	
RD	Refrigerant discharge	road; roof drain
RHG	Refrigerant hot gas	
RLL	Refrigerant liquid line	
RSL	Refrigerant suction line	
REFR	Refrigeration	refractory
REF	Refrigerator	reference
REG	Register	regulation
REG	Regulation	register
RHC	Reheat coil	
RHV	Reheat valve	
REINF	Reinforce	
RBM	Reinforced brick masonry	
RC	Reinforced concrete	remote control
RCB	Reinforced concrete box	
RCCP	Reinforced concrete culvert pipe	
RCP	Reinforced concrete pipe	reflected ceiling plan
-----	Reinforcement	
-----	Reinforcing bar	
RST	Reinforcing steel	
REBAR	Reinforcing steel bars	
RH	Relative humidity	right hand; roof hatch
RV	Relief valve	roof vent; roof ventilator
-----	Remodel	
RC	Remote control	reinforced concrete
REM	Removable	
REP	Repair	
REPL	Replace	
REPRO	Reproduce	
RFI	Request for information	
RFP	Request for proposal	
REQ	Require	
REQD	Required	
R&D	Research and development	
RESIL	Resilient	
RB	Resilient base	rubber base
RF	Resilient flooring	radio frequency
REST	Restroom	
RET	Return	
RA	Return air	
RAD	Return air duct	radian; radiator

RA FAN	Return air fan	
RA GR	Return air grille	
RAT	Return air temperature	
RVL	Reveal	
RVS	Reverse	
RVSO	Reverse osmosis	
REV	Revision	revolutions
REV	Revolutions	revisions
RPM	Revolutions per minute	
RPS	Revolutions per second	
RHEO	Rheostat	
RTG	Right	
RH	Right hand	relative humidity; roof hatch
RHR	Right hand reverse	
ROW	Right of way	
RDG INS	Rigid insulation, solid	
R	Riser	radius; range; thermal resistance
RD	Road	refrigerant discharge; roof drain
RW	Roadway	
RB HK	Robe hook	
-----	Rocklath	
RR	Roll roofing	railroad
RSD	Rolling steel door	
RD	Roof drain	refrigerant discharge; road
RH	Roof hatch	relative humidity; right hand
RL	Roof leader	
RTU	Roof top unit	
RV	Roof vent	relief valve; roof ventilator
RV	Roof ventilator	relief valve; roof vent
RFG	Roofing	
RM	Room	
RAC	Room air conditioner	
RMS	Room monitor system	root mean square
RMS	Root mean square	room monitor system
RO	Rough opening	
RS	Rough sawn	rapid start
RND	Round	
RHMS	Round head machine screw	
RHWS	Round head wood screw	
RBR	Rubber	
RB	Rubber base	resilient base
RTF	Rubber tile floor	
RWY	Runway	
-----	Rusting steel	
	S	
SDL	Saddle	
SF	Safety factor	square foot (feet); supply fan

-----	Safety nosing	
SV	Safety valve	sheet vinyl
SALV	Salvage	
SAMP	Sample	
-----	Sand	
SDBL	Sandblast	
SAN	Sanitary	
SND	Sanitary napkin dispenser	
SNDU	Sanitary napkin disposal unit	
SS	Sanitary Sewer	service sink; standing seam (roof); steam supply; storm sewer
SAT	Saturate	suspended acoustical tile
SCHEM	Schedule	
SOV	Schedule of values	shut off valve
SCHEM	Schematic	
SCH	School	
SJ	Scored joint	slip joint
SCRN	Screen	
SCP	Scupper	
-----	Scuttle	
SL	Sea level	spot light
SLNT	Sealant	
SMLS	Seamless	
SCD	Seat cover dispenser	
SCHWP	Secondary chilled water pump	
SCHWR	Secondary chilled water return	
SCHWS	Secondary chilled water supply	
SHWR	Secondary hot water return	
SHWS	Secondary hot water supply	
SECT	Section	
SEG	Segment	
SEL	Select	
SCR	Semiconductor controlled rectifier	shower curtain rod
SH	Sensible heat	shingles; single hung (window)
SHG	Sensible heat gain	
SHR	Sensible heat ratio	shower
SNSR	Sensor	
SEP	Separate	
SEP TNK	Septic tank	
SVCE	Service	
SS	Service sink	sanitary sewer; standing seam (roof); steam supply; storm sewer
SWG	Sewage	
SWR	Sewer	
SC	Shading coefficient	solid core
SHT	Shaft	sheet
SHFT	Shaft (elevator)	
SFT HP	Shaft horsepower	

SHTHG	Sheathing	
SHT	Sheet	shaft
SM	Sheet metal	silty sand; small; smooth
SHT MTL FLASH	Sheet metal (flashing)	
SV	Sheet vinyl	safety valve
-----	Sheeting	
SHV	Shelving	
SH	Shingles	sensible heat; single hung (window)
SD	Shop drawings	smoke detector; soap dispenser; storm drain; supply duct
SCC	Short circuit capacity	
SHLDR	Shoulder	
SHR	Shower	sensible heat ratio
SCR	Shower curtain rod	semiconductor controlled rectifier
SHRD	Shower drain	
SHR HD	Shower head	
SOV	Shut off valve	schedule of values
SHTR	Shutter	
SW	Sidewalk	switch
SDG	Siding	
SIG	Signal	
GM	Silty gravel	
SM	Silty sand	sheet metal; small; smooth
SIM	Similar	
SGL	Single	
SA	Single acting (door)	supply air
SH	Single hung (window)	sensible heat; shingles
SPDT	Single pole, double throw	
SPST	Single pole, single throw	
FLOUTS	Single receptacle floor outlet	
SOUT	Single receptacle outlet	
ST	single throw	stairs; street
-----	Sink	
SK	Sketch	
-----	Skydome	
SKLT	Skylight	
-----	Skylite	
SLV	Sleeve	
SLDG	Sliding	
SGD	Sliding glass door	
SJ	Slip joint	scored joint
-----	Slop sink	
SM	Small	sheet metal; silty sand; smooth
SMK	Smoke	
SDMPR	Smoke damper	
SD	Smoke detector	shop drawings; soap dispenser; storm drain; supply duct

SM	Smooth	sheet metal; silty sand; small
SMHS	Snow melt heating system	
SD	Soap dispenser	shop drawings; smoke detector; storm drain; supply duct
SARA	Society of American Registered Architects	
SFTWD	Softwood	
SLDR	Solder	
SOLV	Solenoid valve	
SCMU	Solid concrete masonry unit	
SC	Solid core	shading coefficient
SCWD	Solid core wood door	
SP	Solid plastic	standpipe; sump pit
SOLN	Solution	
SLVT	Solvent	
SND INS	Sound insulation	
STC	Sound transmission class	
S	South	
SBCCI	Southern Building Code Congress International	
SPH	Space heater	
SPKR	Speaker	
SPCL	Special	
SP FIN	Special finish	
SP GR	Specific gravity	
SPEC	Specification	
SB	Splash block	
SPL	Spline	
SP EL	Spot elevation	
SL	Spot light	sea level
SPKLR	Sprinkler	
SPR	Sprinkler line	
SPF	Spruce-pine-fir	
SQ	Square	
SQ BR	Square bar	
cm2	Square centimeter; centimeter squared	
SF	Square foot (feet)	safety factor; supply fan
SQ IN	Square inch	
KM2	Square kilometer	
M2	Square meter	
MM2	Square millimeter	
SQ YD	Square yard	
STAG	Staggered	
ST GL	Stained glass	
STNLS	Stainless	
SST	Stainless steel	
SSP	Stainless steel pipe	
ST	Stairs	single throw; street
STD	Standard	

SCFM	Standard cubic feet per minute	
SCFS	Standard cubic feet per second	
STP	Standard temperature and pressure	
SS	Standing seam (roof)	sanitary sewer; service sink; steam supply; storm sewer
SP	Standpipe	solid plastic; sump pit
S/S	Start/stop	
ST PR	Static pressure	
STAG	Station	
STM	Steam	
STM 150	Steam 150	
STM 450	Steam 450	
SG	Steam gage	
ST GEN	Steam generator	
SMH	Steam manhole	
STMR	Steam return	
STMS	Steam supply	sanitary sewer; service sink; standing seam (roof); storm sewer
STWP	Steam working pressure	
SDI	Steel Deck Institute	Steel Door Institute
SDI	Steel Door Institute	Steel Deck Institute
STL JST	Steel joist	
SJI	Steel Joist Institute	
STL LNTL	Steel lintel	
STL PL	Steel plate	
STL RF DK	Steel roof deck	
STL TR	Steel truss	
STL TB	Steel tube	
SWI	Steel Window Institute	
STPG	Stepping	
STIF	Stiffener	
STIR	Stirrup	
STOR	Storage	
STRM	Storerroom	
SD	Storm drain	shop drawings; smoke detector; smoke dispenser; supply duct
SDMH	Storm drain manhole	
SS	Storm sewer	sanitary sewer; service sink; standing seam (roof); steam supply
ST W	Storm water	
STR	Straight	strike; stringers
STNLS	Strainer	
ST	Street	single throw; stairs
STR	Strike	straight; stringers
STR	Stringers	straight; strike
STRB	Strobe	
STRB/HRN	Strobe/horn	
STRUCT	Structural	

SCT	Structural clay tile	
SE	Structural engineer	
STRUCT STL	Structural steel	
-----	Stucco	
SBS	Styrene butadiene styrene	
SUB FL	Subfloor	
SUBPAR	Subparagraph	
SSD	Subsoil drain	
SUB	Substitute	
SBSTR	Substrate	
SUCT	Suction	
SUF	Sufficient	
SUM	Summary	
SP	Sump pit	solid plastic; standpipe
SMP	Sump pump	
SUTK	Sump tank	
SUPVR	Supervisor	
SUPPL	Supplement	
SUP	Supplementary	
SPLY	Supply	
SA	Supply air	single acting (door)
SAG	Supply air grille	
SD	Supply duct	shop drawings; smoke detector; soap dispenser; storm drain
SF	Supply fan	safety factor; square foot (feet)
SPRT	Support	
SUPN	Suppression	
SURF	Surface	
S4S	Surfaced four sides	
S1S	Surfaced one side	
S2S	Surfaced two sides	
SURR	Surround	
SURV CAM	Surveillance camera	
SURV EQUIP	Surveillance equipment	
SURV MON	Surveillance monitor	
SURV	Survey	
SUSP	Suspend	
SAPC	Suspended acoustical plaster ceiling	
SAT	Suspended acoustical tile	saturate
SATC	Suspended acoustical tile ceiling	
SUSP CLG	Suspended ceiling	
SPC	Suspended plaster ceiling	
SUH	Suspended unit heater	
SWDR	Swing door	
SW	Switch	sidewalk
SWBD	Switchboard	
SWGR	Switchgear	
SYM	Symbol	

SYMM	Symmetrical	
SYNTH	Synthetic	
SYS	System	
	T	
TOC	Table of content	top of concrete; top of curb
TAB	Tabulate	
TK BD	Tackboard	
TAN	Tangent	
-----	Tar	
TECH	Technical	
TEL	Telephone	
TCP	Telephone control panel	temperature control panel; traffic control plan
TER	Telephone equipment room	terrazzo
FOUTT	Telephone floor outlet	
TEL JK	Telephone jack	
TEL OUT	Telephone outlet	
TP	Telephone pole	total pressure; twisted pair
TTB	Telephone terminal board	
TV	Television	
TVOUT	Television outlet	
TEMP	Temperature	temporary
T&P VALVE	Temperature and pressure valve	
TCP	Temperature control panel	telephone control panel; traffic control plan
TCV	Temperature control valve	
TD	Temperature difference	towel dispenser; trench drain
TMPD	Tempered	
TMPD GL	Tempered glass	
TEMP HDBD	Tempered hardboard	
TEMP	Temporary	temperature
TBM	Temporary benchmark	
TS	Tensile strength	tube steel
TERM	Terminal	
TUC	Terminal unit controller	
TC	Terra cotta	
TER	Terrazzo	telephone equipment room
TB-xx	Test boring-xx (e.g. TB-01)	
THERM	Thermal	
C VALUE	Thermal conductance	
K VALUE	Thermal conductivity	
R	Thermal resistance	radius; range; riser
-----	Thermopane	
TSTAT	Thermostat	
THK	Thickness	
K	Thousand	kelvin
MBF	Thousand board feet	
MBtuH	Thousand Btu per hour	

MCF	Thousand cubic feet	
MBM	Thousand feet board measure	
KIP FT	Thousand foot/pounds	
KIP	Thousand pounds	
THD	Thread	
THRES	Threshold	
THRU	Through	
TB	Through bolt	towel bar
THRUOUT	Throughout	
TCA	Tile Council of America	
T&M	Time and materials	
TFA	To floor above	
TFB	To floor below	
-----	Toilet (plumbing fixture)	
TPD	Toilet paper dispenser	
TPH	Toilet paper holder	
TOL	Tolerance	
T&G	Tongue and groove	
T&B	Top and bottom	
TE	Top elevation	
TO	Top of -----	
TOB	Top of beam	
TOC	Top of concrete	table of content; top of curb
TOC FTG	Top of concrete footing	
TOC WALL	Top of concrete wall	
TOC	Top of curb	table of content; top of concrete
TFF	Top of finish floor	
TOF	Top of floor	top of footing; top of frame
TOF	Top of footing	top of floor; top of frame
TO FDN	Top of foundation	
TOF	Top of frame	top of floor; top of footing
TOJ	Top of joist	
TMH	Top of manhole	
TOM	Top of masonry	
TOP	Top of parapet	top of pavement
TOP	Top of pavement	top of parapet
TR	Top of rim	towel rack
TOS	Top of slab	top of steel
TOS	Top of steel	top of slab
TOT	Top of truss	
TOW	Top of wall	
TOPO	Topography	
TDH	Total dynamic head	
TP	Total pressure	telephone pole; twisted pair
TQM	Total quality management	
TB	Towel bar	through bolt
TD	Towel dispenser	temperature difference; trench drain
TDR	Towel dispenser/receptacle	

TR	Towel rack	top of rim
TSH	Towel shelf	
TW	Tower water	
TWR	Tower water return	
TWS	Tower water supply	
TCP	Traffic control plan	telephone control panel; temperature control panel
XFER	Transfer	
TG	Transfer grille	
XFMR	Transformer	
TRANS	Transom	transparent
TRANS	Transparent	transom
TRANS WD FIN	Transparent wood finish	
TEJ	Transverse expansion joint	
T	Tread	
TRTD	Treated	
TWR	Treated water return	
TWS	Treated water supply	
TD	Trench drain	temperature difference; towel dispenser
TN	True north	
T/S	Tub/shower	
TS	Tube steel	tensile strength
TNL	Tunnel	
TRNBKL	Turnbuckle	
TNPK	Turnpike	
-----	Twindow	
TL	Twist lock	
TP	Twisted pair	telephone pole; total pressure
TPS	Twisted pair shielded	
TYP	Typical	
	U	
ULT	Ultimate	
UV	Ultraviolet	
UC	Undercut	
UCD	Undercut door	
UFD	Underfloor duct	
UGND	Underground	
UL	Underwriters Laboratories	
UNEX	Unexcavated	
UNFIN	Unfinish	
UNIF	Uniform	
UBC	Uniform Building Code	
UFC	Uniform Fire Code	
UMC	Uniform Mechanical Code	
UPC	Uniform Plumbing Code	
UPS	Uninterruptible power supply	

UH	Unit heater	
dB	Unit of sound level	
UWT	Unit weight	
UNIV	Universal	
UN	Unless noted	
UNO	Unless noted otherwise	
UON	Unless otherwise noted	
UNPV RD	Unpaved road	
UTP	Untwisted pair	
UR	Urinal	
URTIL	Utility	
UP	Utility pole	
	V	
VJ	V joint	
VAC	Vacuum	vacuum line
VB	Vacuum breaker	valve box; vinyl base
VCO	Vacuum cleaner outlet	
VAC	Vacuum line	vacuum
VP	Vacuum pump	vanishing point; vapor pressure; velocity pressure; veneer plaster
VRP	Vacuum return pump	
VB	Valve box	vacuum breaker; vinyl base
VP	Vanishing point	vacuum pump; vapor pressure; velocity pressure; veneer plaster
VAN	Vanity	
-----	Vapor barrier	
VP	Vapor pressure	vacuum pump; vanishing point; velocity pressure; veneer plaster
VAP PRF	Vapor proof	
VRP	Vapor retarder	voltage regulator
VAV	Variable air volume box	
VAVR	Variable air volume box w/reheat	
VF	Variable frequency	
VFD	Variable frequency drive	
VAR	Variation	varies; volt ampere reactive
VAR	Varies	variation; volt ampere reactive
VEH	Vehicle	
VEL	Velocity	
VP	Velocity pressure	vacuum pump; vanishing point; vapor pressure; veneer plaster
VNR	Veneer	
VP	Veneer plaster	vacuum pump; vanishing point; vapor pressure; velocity pressure
VS	Vent stack	voltmeter switch
VTR	Vent through roof	
VENT	Ventilation	ventilator
VENT	Ventilator	ventilation

VRNDA	Veranda	
VERFY	Verify	
VIF	Verify in field	
VERT	Vertical	
VC	Vertical curve	
VG	Vertical grain	
VUH	Vertical unit heater	
VHF	Very high frequency	
VHO	Very high output	
VEST	Vestibule	
VIB	Vibration	
VIC	Vicinity	
VID	Video	
VIDAMP	Video amplifier	
VINT	Video integration	
VIL	Village	
VB	Vinyl base	vacuum breaker; valve box
VCT	Vinyl composition tile	vittrified clay tile
VFAT	Vinyl faced acoustical tile	
-----	Vinyl tile	
VWC	Vinyl wall covering	
VWF	Vinyl wall fabric	
VISC	Viscosity	
-----	Visqueen	
VIS	Visual	
VIT	Vitreous	
VCT	Vitrified clay tile	vinyl composition tile
VOC	Volatile organic compound	
V	Volt	
VA	Volt ampere	
VAR	Volt ampere reactive	variation; varies
VOLT	Voltage	
VD	Voltage drop	volume damper
VR	Voltage regulator	vapor retarder
VRLY	Voltage relay	
VAM	Volt-ammeter	
VS	Voltmeter switch	vent stack
VOL	Volume	
VFR	Volume damper	voltage drop
-----	Volumeric flow rate	
	W	
WSCT	Wainscot	
WAU	Wall ash urn	
-----	Wall board	
W CAB	Wall cabinets	
WCO	Wall cleanout	
WC	Wall covering	water closet; water column

WFAB	Wall fabric	
WH	Wall hung	wall hydrant; water heater; weep hole
WH	Wall hydrant	wall hung; water heater; weep hole
W/W	Wall to wall	
WHSE	Warehouse	
WW	Warm white	wastewater; wireway
WWX	Warm white deluxe	
WARR	Warranty	
WF	Wash fountain	wide flange
W	Waste	watt; west; wide
WDSP	Waste disposer	
WW	Waste water	warm white; wireway
WTR	Water	
WTR B	Water brine	
WCHR	Water chiller	
WTR C	Water city	
WC	Water closet	wall covering; water column
WC WL HNG	Water closet, wall hung	
WC	Water column	wall covering; water closet
WCLD	Water cooled	
WCLR	Water cooler	
WCL WL MTD	Water cooler, wall hung	
	Water cooling tower	
WT EL	Water elevation	
WG	Water gage	
WHA	Water hammer arrestor	
WH	Water heater	wall hung; wall hydrant; weep hole
WJ	Water jacket	
WL	Water line	wind load
WM	Water meter	wire mesh
WPD	Water pressure drop	
WP	Water pump	waterproofing; weatherproof; working point weather resistant; wire rope
WR	Water repellent	watertight; weight
WT	Water table	
WPM	Waterproof membrane	
WP	Waterproofing	water pump; weatherproof; working point
WT	Watertight	water table; weight
W	Watt	waste; west; wide
WHM	Watthour meter	
WEA	Weather	
WR	Weather resistant	water repellent; wire rope
WSL	Weather seal	
WP	Weatherproof	water pump; waterproofing; working point
WS	Weatherstrip	
WH	Weep hole	wall hung; wall hydrant; water heater
WT	Weight	water table; watertight

WLD	Welded	
WWF	Welded wire fabric	
WWM	Welded wire mesh	
W	West	waste; watt; wide
WB	Wet bulb	wood base
WBT	Wet bulb temperature	
WO	Where occurs	work order
W	Wide	waste; watt; west
WF	Wide flange	wash fountain
WL	Wind load	water line
WDW	Window	
WDMA	Window and Door Manufacturers Association	
WU	Window unit	
-----	Wire glass	
WM	Wire mesh	water meter
WR	Wire rope	water repellent; weather resistant
WGL	Wired glass	
WW	Wireway	warm white; waste water
W/	With	
W/O	Without	
WD	Wood	wood door
WB	Wood base	wet bulb
WBL	Wood blocking	
WD	Wood door	wood
WDF	Wood door and frame	
WFR	Wood frame	
WFS	Wood furring strips	
WD LOUV	Wood louvers	
WDP	Wood paneling	
WO	Work order	where occurs
WP	Working point	water pump; waterproofing; weatherproof
WPR	Working pressure	
WSP	Working steam pressure	
WBS	Wrought brass	
WI	Wrought iron	
	Y	
YD	Yard	yard drain; yard drainage pipe
YCO	Yard cleanout	
YD	Yard drain	yard; yard drainage pipe
YD	Yard drainage pipe	yard; yard drain
YH	Yard hydrant	
YI	Yard inlet	
YR	Year	

Central Michigan University Standard Terms

Single-phase	1PH	
Single pole	1P	
One way	1WAY	
Two-conductor	2/C	
Two-way	2WAY	
Three-conductor	3/C	
Three-phase	3PH	
Three-ply	3PLY	
Three-way	3WAY	
Four-conductor	4/C	
Quadruple receptacle outlet	4OUT	
Four-pole double throw	4PDT	
Four-pole single throw	4PST	
Four-wire	4W	
Four-way	4WAY	
A		
Abandon	ABAN	
Abbreviation	ABBRV	
Abnormal	ABNL	
Above finished counter	AFC	automatic frequency control
Above finished floor	AFF	
Above finished grade	AFG	
Above finished slab	AFS	
Above suspended ceiling	ASC	amps short circuit; asphalt surface course
Abrasive	ABRSV	
Abrasive hardness	Ha	
Abrasive resistant	ABRSV RES	
Absolute	ABS	acrylonitrile butadiene styrene
Absorption	ABSORB	
Access door	ACS DR	
Access floor	ACS FLR	
Access panel	ACS PNL	
Accessible	ACC	
Acid resistant	ACID RES	
Acid resistant cast iron	ACID RES CI	
Acid resistant pipe	ACID RES P	
Acid resistant vent	ACID RES V	
Acid resistant waste	ACID RES W	
Acid vent	AV	air vent; audio visual
Acid waste	AW	actual weight; architectural woodwork

Acid waste line	AWL	
Acid/Alkaline scale	pH	
Acoustic	ACST	
Acoustic Calking	-----	
Acoustical ceiling tile	ACT	
Acoustical insulation	ACOUS INSUL	
Acoustical panel	ACOUS PNL	
Acoustical panel ceiling	APC	
Acoustical plaster	-----	
Acoustical tile ceiling	ATC	
Acoustical wall treatment	AWT	
Across	ACR	
Acrylonitrle butadiene styrene	ABS	absolute
Actual weight	AW	acid waste; architectural woodwork
Addendum	ADDM	
Additional	ADDL	
Adhesive	ADH	
Adjacent	ADJ	adjoining; adjustable
Adjoining	ADJ	adjacent; adjustable
Adjustable	ADJ	adjacent; adjoining
Administration	ADMIN	
Aggregate	AGGR	
Aggregate base course	ABC	Associated Builders and Contractors
Air (compressed)	A	
Air condition	A/C	
Air conditioning unit	A/C UNIT	
Air cooled condensing unit	ACCU	
Air handling unit	AHU	
Air pressure drop	APD	
Air pressure return line	APR	
Air separator	AS	ammeter switch
Air supply unit	ASU	
Air vent	AV	acid vent; audio visual
Air water pump	AWP	
Alarm	ALM	
Alarm annunciator panel	AAP	
Alignment	ALNMT	
Allowance	ALLOW	
Alteration	ALTRN	
Alternate	ALT	altitude
Alternate number	ALT NO	
Alternating current	AC	armored cable; asbestos cement; asphaltic concrete
Alternative	-----	
Altitude	ALT	alternate
Aluminum	ALUM	
Aluminum cable steel reinforced	ACSR	
Ambient	AMB	

American Architectural Manufacturers Association	AAMA	
American Association of Cost Engineers	AACE	
American Concrete Institute	ACI	
American Gas Association	AGA	
American Institute of Architects	AIA	
American Institute of Steel Construction	AISC	
American National Standards Institute	ANSI	
American Plywood Association	APA	
American Society for Testing and Materials	ASTM	
American Society of Civil Engineers	ASCE	
American Society of Heating, Refrigerating, and Air Conditioning Engineers	ASHRAE	
American Society of Mechanical Engineers	ASME	
American Standard Elevator Codes	ASEC	
American steel wire gauge	ASWG	
American Water Works Association	AWWA	
American Welding Society	AWS	
American wire gauge	AWG	
American Wood Preservers' Association	AWPA	
Americans with Disabilities Act	ADA	
Ammeter switch	AS	air separator
Amount	AMT	
Ampere	AMP	
Ampere hour	AH	
Ampere interrupting capacity	AIC	
Amplifier	AMPL	
Amplitude modulation	AM	
Amps short circuit	ASC	above suspended ceiling; asphalt surface course
Anchor	AHR	
Anchor bolt	AB	
And so forth	ETC	et cetera
Angle	L	liter
Angle beam	ANG BM	
Angle stop valve	ASV	
Annunciator	ANN	
Anodize	ANOD	
Antenna	ANT	
Apartment	APT	Association for Preservation Technology
Appearance	APP	atactic propylene
Appendix	APPX	
Apply	-----	
Approved	APPD	
Approximate	APPROX	
Architect	ARCH	
Architect/Engineer	A/E	

Architect's Supplemental Instruction	ASI	
Architectural finish	ARF	
Architectural woodwork	AW	acid waste; actual weight
Architectural Woodworking Institute	AWI	
Area drain	AD	
Armored cable	AC	alternating current; asbestos cement; asphaltic concrete
Article	ART	
As required	AR	
Asbestos	ASB	
Asbestos cement	AC	alternating current; armored cable; asphaltic concrete
As-built	-----	
Asphalt	ASPH	
Asphalt Institute	AI	
Asphalt roofing	-----	
Asphalt surface course	ASC	above suspended ceiling; amps short circuit
Asphaltic concrete	AC	alternating current; armored cable; asbestos cement
Asphaltic concrete paving	ACP	automatic control panel
Assembled cooling unit	ACU	
Assembly	ASSY	
Associated Builders and Contractors	ABC	aggregate base course
Associated General Contractors	AGC	
Association	ASSN	
Association for Preservation Technology	APT	apartment
Asymmetrical	ASYM	
Atactic propylene	APP	appearance
Atmosphere	ATM	automatic teller machine
Attachment	ATCH	
Attention	ATTN	
Audio frequency	AF	
Audio visual	AV	acid vent; air vent
Authority having jurisdiction	AHJ	
Auto transformer	AUTO XFMR	
Automatic	AUTO	
Automatic air damper	AAD	
Automatic air vent	AAV	
Automatic check valve	ACHKV	
Automatic control panel	ACP	asphaltic concrete paving
Automatic control system	ACS	
Automatic control valve	ACV	
Automatic door closer	ADC	
Automatic door seal	ADS	
Automatic frequency control	AFC	above finished counter
Automatic sprinkler	ASKLR	
Automatic sprinkler drain	ASD	

Automatic sprinkler riser	ASR	
Automatic teller machine	ATM	atmosphere
Automatic transfer switch	ATS	
Auxiliary	AUX	
Auxiliary power unit	APU	
Avenue	AVE	
Average	AVG	
Awning window	AWN WDW	
Axial flow	AX FL	
Azimuth	AZ	
B		
Back of Curb	BC	between centers; bolt circle; bookcase; bottom chord; brick color; building code
Back to back	B/B	
Backboard	BKBD	
Backdraft damper	BDD	
Backflow preventer	BFP	
Background	BKGD	
Backing	BKG	
Backing rope	-----	
Baffle	BAF	
Baggage	BAG	
Balance	BAL	
Balcony	BALC	
Balestrades	-----	
Ball valve	BV	
Ballast	BLST	
Balled and Burlapped	B&B	bell and bell; grade B or better (lumber)
Bar joists	-----	
Base board radiator	BBR	
Base line	BL	building line
Base plate	B PL	
Baseboard	BB	bulletin board
Basement	BSMT	
Basic insulation level	BIL	
Bath tub	BT	
Batt insulation	-----	
Batten	BAT	battery
Battery	BAT	batten
Bay window double hung	BAY WDW DH	
Beam	BM	benchmark; bending moment
Beam, standard	S BM	
Beam, wide flange	WF BM	
Bearing	BRG	
Bearing plate	BRG PL	
Bed joint	BJT	

Bedding	BDNG	
Bedroom	BR	
Bell and bell	B&B	balled and burlapped; grade B or better (lumber)
Bell and flange	B&F	
Bell and spigot	B&S	
Bell mouth	BL MTH	
Below	BLW	
Below ceiling	BLW CLG	
Below finish floor	BFF	
Benchmark	BM	beam; bending moment
Bending moment	BM	beam; benchmark
Better	BTR	
Between	BTWN	
Between centers	BC	back of curb; bolt circle; bookcase; bottom chord; brick color; building code
Bevel	BEV	
Bifolding doors	BI FLD DR	
Birmingham wire gauge	BWG	
Bituminous	BITUM	
Black steel pipe	BSP	
Blackboard	-----	
Blanket	BLKT	
Block	-----	
Blowdown	BLWDN	
Blower	BLO	
Blowoff	BO	
Board	BO	butterfly damper
Board feet (foot)	BD FT	
Board measure	B/M	
Boiler	BLR	
Boiler feed booster pump	BFBP	
Boiler feedwater	BFW	
Boiler feedwater pump	BFWP	
Boiler horsepower	BLR HP	
Bolt circle	BC	back of curb; between centers; bookcase; bottom chord; brick color; building code
Bonding	BNDG	
Bookcase	BC	back of curb; between centers; bolt circle; bottom chord; brick color; building code
Booster	BSTR	
Borrowed light	BLT	built
Both faces	BF	bottom face
Both sides	BS	
Both ways	BW	

Bottom	BOT	bottom
Bottom chord	BC	back of curb; between centers; bolt circle; bottom chord; brick color; building code
Bottom face	BOT F	
Bottom of duct	BOT D	bottom of duct
Bottom of pipe	BOT P	bottom of pipe
Bottom of steel	BOS	
Boulevard	BLVD	
Boundary	BDRY	
Bracing	BRCG	
Bracket	BRKT	
Brake horsepower	BHP	
Breaker	BRKR	
Brick color	BC	back of curb; between centers; bolt circle; bookcase; bottom chord; building code
Brick Institute of America	BIA	
Bridging	BRDG	
Bridging joist	BRDG JST	
Bright annealed	BA	
British thermal unit	Btu	
British thermal unit (1000)	Mbtu	
British thermal unit per hour	BtuH	
Bronze	BRZ	
Broom closet	B CL	
Buck-boast transformer	BB XFMR	
Build	BLD	
Builder's Hardware Manufacturer's Association	BHMA	
Building	BLDG	
Building automation system	BAS	
Building code	BC	back of curb; between centers; bolt circle; bookcase; bottom chord; brick color
Building line	BL	
Building Officials and Code Administrators Association International	BOCA	
Building paper	BP	
Built	BLT	borrowed light
Built-in	BLT IN	
Built-up	BU	bushel
Built-up roofing	BUR	
Bulb tee beam	BLB T BM	
Bulkhead	BLKHD	
Bulletin board	BB	baseboard
Bulletproof (bullet-resistant)	BPRF	
Bullnose	BN	

Burlap	BRLP	
Bushel	BU	built-up
Butt weld	BT WLD	
Butterfly check valve	BCV	
Butterfly damper	BD	board
Butterfly valve	BFV	
By pass	BYP	
C		
Cabinet	CAB	
Cabinet unit heater	CUH	
Cable television	CTV	
Calculate	CALC	
Calked joint	CLKJ	
Calking	-----	
Calorie	CAL	
Camber	CAM	
Candela	cd	construction documents; contract documents
Candlepower	CP	concrete pipe; control panel
Canopy	CAN	
Cantilever	CANTIL	
Canvas	CANV	
Capacitor	CAP	capacity
Capacity	CAP	capacitor
Carbon dioxide	CO2	
Carbon monoxide	CO	cased opening; Certificate of Occupancy; cleanout; company; cutout
Carpet	CPT	control power transformer
Carpet and pad	C&P	
Carriage bolt	CB	catch basin; cement base; ceramic base; corner bead
Cased opening	CO	carbon monoxide; Certificate of Occupancy; cleanout; company; cutout
Casement	CSMT	
Casement window	CW	chemical waste line; clockwise; cold water piping; cool white
Casework	CSWK	
Casing	CSG	
Casing bead	-----	
Cast concrete	C CONC	
Cast iron	CIP	curb inlet
Cast iron pipe	CIP	cast in place
Cast iron soil pipe	CISP	
Cast steel	CSTL	
Cast stone	CS	commercial standard; control switch
Cast-in-place	CIP	cast iron pipe
Catalog	CAT	

Catch basin	CB	carriage bolt; cement base; ceramic base; corner bead
Catwalk	CATW	
Cavity	CAV	
Ceiling	CLG	
Ceiling attenuation class	CAC	
Ceiling diffuser	CLG DIFF	
Ceiling duct outlet	CLG DCT OUT	
Ceiling grille	CLG GRL	
Ceiling height	CLG HT	
Ceiling panel	-----	
Ceiling register	CLG REG	
Ceiling tile	-----	
Celsius	C	channel
Cement	CEM	cemetery
Cement base	CB	carriage bolt; ceramic base; corner bead
Cement finish	CEM FIN	
Cement floor	CF	contractor furnished
Cement plaster	CEM PLAS	
Cement plaster ceiling	CEM PLAS CLG	
Cementitious (backer) board	CBB	
Cemetery	CEM	cement
Center	CTR	contour; cooling tower return
Center line	CL	class; close
Center matched	CM	construction management
Center of gravity	CG	common ground; corner guard
Center to center	C TO C	
Centigrade	-----	
Centimeter	cm	
Centimeter per second	cm/s	
Ceramic	CER	
Ceramic base	CB	carriage bolt; catch basin; cement base; corner bead
Ceramic glazed structural facing units	CGSFU	
Ceramic tile	CT	count; current transformer
Ceramic tile base	CTB	
Ceramic tile floor	CTF	
Ceramic Tile Institute of America	CTI	
Certificate of Occupancy	CO	carbon monoxide; cased opening; cleanout; company; cutout
Certify	CERT	
Chain Link Fence Manufacturers Institute	CLFMI	
Chalkboard	CHBD	
Chamber	CHMBR	
Chamfer	CHFR	
Change order request	COR	
Channel	C	Celsius

Charge	CHG	
Check	CHK	
Check valve	CHKV	
Chemical	CHEM	
Chemical waste line	CW	casement window; clockwise; cold water piping; cool white
Chilled drinking water	CDW	
Chilled drinking water return	CDWR	
Chilled drinking water supply	CDWS	
Chilled water	CHW	circulating hot water
Chilled water primary pump	CHWPP	
Chilled water pump	CHWP	
Chilled water recirculating pump	CHWRP	
Chilled water return	CHWR	
Chilled water secondary pump	CHWSP	
Chilled water supply	CHWS	
Chiller	CH	coat hook
Chlorinated polyvinyl chloride	CPVC	
Chlorofluorocarbons	CFC	
Chrome plated	CHR PL	
Circle	CIR	
Circuit	CKT	
Circuit breaker	CKT BRKR	
Circular	CIRC	
Circulating hot water	CHW	chilled water
Circulating water pump	CWP	condenser water pump
Circumference	CRCMF	
Cladding	CLDG	
Class	CL	center line; close
Class A door	A LABEL	
Class B door	B LABEL	
Class C door	C LABEL	
Class D door	D LABEL	
Class E door	E LABEL	
Classification	CLASS	
Classroom	CLRM	
Cleanout	CO	carbon monoxide; cased opening; Certificate of Occupancy; company; cutout
Cleanout to grade	COTG	
Clear	CLR	color; cooler
Clear wired glass	CLWG	
Cleat	CLT	
Clockwise	CW	casement window; chemical waste line; cold water piping; cool white
Close	CL	centerline; class
Closed circuit television	CCTV	
Closet	CLO	

Closet rod	CRCMF	control relay; control room
Closure	CLOS	
Clothes dryer	CL D	
Coat hook	CH	chiller
Coated	CTD	
Coating	CTG	
coaxial cable	COAX	
Coefficient	COEFF	
Coefficient of performance (heating)	COP	coping
Coefficient of utilization	CU	cubic; copper
Cold rolled steel	CRS	
Cold water	CW	
Cold water soft	CW SFT	
Cold water, piping	CW	casement window; chemical waste line; clockwise; cool white
Cold-formed metal framing	CFMF	
Color	CLR	clear; cooler
Color rendering index	CRI	
Column	COL	
Column line	CLL	contract limit line
Combination, combined	COMB	
Commercial standard	CS	cast stone; control switch
Common	COM	
Common ground	CG	center of gravity; corner guard
Common mode rejection	CMR	
Communication	COMM	
Community antenna television	CATV	
Company	CO	carbon monoxide; cased opening; Certificate of Occupancy; cleanout; cutout
Compartment	COMPT	
Complete	COMPL	
Component	COMP	
Composite	CMPST	
Compressible	CPRS	
Compressor	COMPR	
Computer	CMPTR	
Computer floor	-----	
Concealed	CNCL	
Concentric	CONC	concrete
Concrete	CONC	concentric
Concrete block	-----	
Concrete floor	CONC FLR	
Concrete masonry unit	CMU	
Concrete opening	CONC OPNG	
Concrete pavement	PCCP	
Concrete pipe	CP	candlepower; control panel
Concrete Reinforcing Steel Institute	CRSI	

Concrete sewer pipe	CSP	
Concrete splash block	CSB	casing bead
Condensate	CNDS	
Condensate pumped	CNDP	
Condensate return	CNDR	
Condensate return pump	CRP	
Condensate transfer pump	CNDTP	
Condensation	CONDN	
Condenser	COND	condition
Condenser water pump	CWP	circulating water pump
Condenser water return	CWR	
Condenser water supply	CWS	
Condition	COND	condenser
Conduit	CND	
Conference	CONF	
Connect	CONN	
Construction	CONSTR	
Construction documents	CD	candela; contract documents
Construction joint	CJ	control joint
Construction management	CM	center matched
Construction Specifications Institute	CSI	
Consultant	CONSULT	
Contact	CNTOR	
Continue	CONT	controller
Contour	CTR	center; cooling tower return
Contract	CONTR	contractor
Contract change directive	CCD	
Contract documents	CD	candela; construction documents
Contract limit line	CLL	column line
Contractor	CONTR	contract
Contractor furnished	CF	cement floor
Contractor furnished equipment	CFE	
Contractor furnished/contractor installed	CF/CI	
Contractor furnished/owner installed	CF/OI	
Control	CTRL	
Control contactor	CCR	
Control joint	CJ	construction joint
Control panel	CP	candlepower; concrete pipe
Control power transformer	CPT	carpet
Control relay	CR	closet rod; control room
Control room	CR	closet rod; control relay
Control switch	CS	cast stone; commercial standard
Control valve	CV	
Controller	CONT	continue
Convert	CONV	
Conveyor	CNVR	
Cook top	CK TP	

Cool white	CW	casement window; chemical waste line; clockwise; cold water piping
Cool white deluxe	CWX	
Cooler	CLR	color; clear
Cooling coil	C/C	
Cooling tower	C/T	
Cooling tower return	CTR	contour; center
Cooling tower supply	CTS	
Cooling water return	COWR	
Cooling water supply	COWS	
Coordinate	COORD	
Coping	COP	coefficient of performance (heating)
Copper	CU	coefficient of utilization; cubic
Cork tackboard	-----	
Corkboard	-----	
Corner	CNR	
Corner bead	CB	carriage bolt; catch basin; cement base; ceramic base
Corner guard	CG	center of gravity; common ground
Cornice	CORN	
Correct	CORR	corridor
Correspond	CORRES	
Corridor	CORR	correct
Corrugated deck	-----	
Corrugated metal pipe	CMP	
Count	CT	ceramic tile; current transformer
Counter	CNTR	
Counter sink	CSK	
Counterclockwise	CCW	
Counterflashing	CFLG	
Coupling	CPLG	
Courtyard	CRT YD	
Cover	COV	cut off valve
Cover plate	COV PL	
Critical path method	CPM	
Cross brace	X BRACE	
Cross section	X SECT	
Crossbracing	XBRA	
Crown	CRN	
Crushed stone	-----	
Cubic	CU	coefficient of utilization; copper
Cubic centimeter	cm ³	
Cubic feet	CU FT	
Cubic feet per minute	CFM	
Cubic feet per second	CFS	
Cubic inch	CU IN	
Cubic meter	m ³	
Cubic meter per second	m ³ /S	

Cubic millimeter	mm ³	
Cubic yard	CU YD	
Cubicle	CUB	
Curb and gutter	C&G	
Curb inlet	CI	cast iron
Current	CUR	
Current limiting fuse	CLF	
Current transformer	CT	ceramic tile; count
Curtain	CURT	
Custodian	CUST	
Cut off valve	COV	cover
Cut stone	CT STN	
Cutout	CO	carbon monoxide; cased opening; Certificate of Occupancy; cleanout; company
Cylinder	CYL	
Cylinder lock	CYL L	
Cylinder locks keyed alike	KA	
Cypress	CYP	
D		
Damage free	DF	diesel fuel; drinking fountain
Damper	DMPR	
Dampproof course	DPC	
Dampproofing	DMPF	
Database	DB	dry bulb
Datum	DAT	
Dead load	DL	
Decibel	dB	
Decigram	dg	
Deciliter	dL	
Decimeter	dm	
Deep	D	depth; penny (nail)
Definition	DEF	
Deflection	DFLCT	
Defrost	DFR	
Degrease	DGR	
Degree	DEG	
Degrees Celsius	DEG C	
Degrees Fahrenheit	DEG F	
Deionized water	DIW	
Delete	DEL	deliver
Deliver	DEL	delete
Delta	-----	
Demolition	DEMO	demonstration
Demonstration	DEMO	demolition
Demountable partition	DPTN	
Density	DENS	

Department	DEPT	
Depth	D	deep; penny (nail)
Describe	DESCR	description
Description	DESCR	describe
Design	DSGN	
Designation	DES	
Design-build	D-B	
Detach	DTCH	
Detail	DET	
Detention	DETN	
Development	DEV	
Dew point	DP	
Dew point temperature	DPT	differential pressure transmitter
Diagonal	DIAG	diagram
Diagram	DIAG	diagonal
Diameter	DIA	
Diesel fuel	DF	damage free; drinking fountain
Difference	DIFF	differential; diffuser
Differential	DIFF	difference; diffuser
Differential pressure sensor	DPS	
Differential pressure transmitter	DPT	dew point temperature
Diffuser	DIFF	difference; differential
Digital	DGTL	
Dimension	DIM	
Dimmer	DMR	
Dimmer control panel	DCP	
Dimmer switch	DMR SW	
Dining room	DR	door; drain; dressing room; drive
Direct current	DC	
Direct digital control	DDC	
Direction	DIR	
Dirt	-----	
Disable	DSBL	
Disabled	DA	drainage area
Discharge	DISCH	
Disconnect	DISC	
Disconnect switch	DS	double strength (glass); downspout
Dishwasher	DW	distilled water; domestic water
Dispenser	DISP	
Display and storage	D&S	
Disposal	DSPL	
Distance	DIST	district
Distilled water	DW	dishwasher; domestic water
Distribution panel	DISRT PNL	
District	DIST	distance
Divide	DIV	division
Division	DIV	divide
Document	DOC	

Domelite	-----	
Domestic	DOM	
Domestic water cold	DWC	
Domestic water hot	DWH	double hung windows
Domestic water	DW	dishwasher; distilled water
Domestic water heater	DWH	
Domestic water hot return	DW H R	drawer
Domestic water hot supply	DW H S	
Door	DR	dining room; drain; dressing room; drive
Door closer	DR CL	
Door frame	CR FR	
Door Hardware Institute	DHI	
Door holder	DRH	
Door louver	DRLV	
Door opening	DR OPNG	
Door stop	DRST	
Door switch	DRSW	
Double	DBL	
Double acting door	DBL ACT DR	
Double extra heavy	XXH	
Double glaze	DBL GLZ	
Double hung (door, window)	DH	
Double hung windows	DHW	domestic hot water
Double joist	DJ	
Double pole, double throw	DPDT	
Double pole, single throw	DPST	
Double strength (glass)	DS	disconnect switch; downspout
Douglas fir	DOUG FIR	
Dovetail	DVTL	
Down	DN	
Downspout	DS	disconnect switch; double strength (glass)
Dozen	DOZ	
Drafting	DFTG	
Drain	DR	dining room; door; dressing room; drive
Drain tile	DT	
Drain, waste, and vent	DWV	
Drainage area	DA	disable
Drawer	DWR	domestic water return
Drawing	DWG	
Dressed four sides	D4S	
Dressed one side	D1S	
Dressed two sides	D2S	
Dressing area	DR AREA	
Dressing room	DR	dining room; door; drain; drive
Drinking fountain	DF	damage free; diesel fuel
Drinking fountain, wall mounted	DF WL MTD	
Drip and trap	D & T	
Drive	DR	dining room; door; drain; dressing room

Drop inlet	DI	
Dry bulb	DB	database
Dry bulb temperature	DBT	
Dry chemical	D CHEM	
Dry film thickness	DFT	
Dry standpipe	DSP	
Drywall	-----	
Duct access panel	DAP	
Duct covering insulation	DCI	
Duct liner insulation	DLI	
Duct return	DCT/RT	
Duct rising; duct riser	DCT/RS	
Duct supply	DCT SUP	
Ductile iron pipe	DIP	
Dumbwaiter	DWTR	
Duplex	DX	
Duplex outlet	DX OUT	
Duplicate	DUPL	
Dutch Door	DT DR	
E		
Each	EA	
Each end	EE	
Each face	EF	exterior finish
Each layer	EL	easement line; elevation
Each way	EW	
Easement	ESMT	
Easement line	EL	each layer; elevation
East	E	modulus of elasticity
Eccentric	ECC	
Eccentric reducer	ECC RDCR	
Economizer	ECON	
Edge grain	EG	
Edge of curb	EC	
Edge of pavement (paving)	EP	electrical panel (panelboard)
Edge of shoulder	ES	electrostatic
Edge of slab	EOS	
Effect	EFT	
Effective	EFF	efficiency
Effective horsepower	EHP	electric heating panel
Effective temperature	ET	
Efficiency	EFF	effective
Elastomeric	ELAST	
Electric	ELEC	
Electric door opener	ELEC DR OP	
Electric hand dryer	EHD	
Electric heater	EH	
Electric heating panel	EHP	effective horsepower

Electric metallic tubing	EMT	
Electric nonmetallic tubing	ENT	
Electric panel board	EPB	
Electric water cooler	EWC	
Electric water heater	EWH	
Electrical control voltage	ELEC CV	
Electrical outlet	EO	
Electrical panel (panelboard)	EP	edge of pavement (paving)
Electrical primary voltage ≥ 4160	ELEC PV	
Electrical resistance welding	ERW	
Electrical secondary voltage ≤ 480	ELEC SV	
Electrically operated valve	EOV	
Electromagnetic	EM	expanded metal
Electromagnetic interference	EMI	
Electronic data processing	EDP	
Electro-pneumatic	-----	
Electrostatic	ES	edge of shoulder
Element	ELEM	elementary
Elementary	ELEM	element
Elevation	EL	each layer; easement line
Elevator	ELEV	
Elevator cab	-----	
Emergency	EMER	
Emergency monitoring control panel	EMCP	
Emergency power off	EPO	
Emergency shower	EMER SHR	
Enamel	ENAM	
Enclosure	ENCL	
Energy	ENGY	
Energy efficiency ratio	EER	
Energy management system	EMS	
Engine	ENG	
Engineer	ENGR	
Engineered Wood Association	EWA	
Engineers Joint Contract Documents Committee	EJCDC	
Entering air temperature	EAT	
Entering dry bulb temperature	EDBT	
Entering water temperature	EWT	
Entering wet bulb temperature	EWBT	
Entrance	ENTR	
Environment	ENVIR	
Environmental Protection Agency	EPA	
Equal	EQ	
Equally spaced	EQL SP	
Equipment	EQUIP	
Equivalent	EQUIV	
Escalator	ESCAL	

Escape	ESC	escutcheon
Escutcheon	ESC	escape
Especially	ESP	
Establish	ESTB	
Estimate	EST	
Et cetera	ETC	and so forth
Ethylene propylene diene monomer	EPDM	
Evacuate	EVAC	
Evaporate	EVAP	
Evaporating cooling unit	ECU	
Example	EX	
Excavate	EXC	
Exchanger	EXCH	
Exclude	EXCL	
Execute	EXEC	
Exhaust	EXH	exhibit
Exhaust air	EXH A	
Exhaust air grille	EXH GR	
Exhaust air register	EAR	
Exhaust duct	EXH DT	
Exhaust fan	EXH FN	
Exhaust hood	EXH HD	
Exhaust vent	EXHV	
Exhibit	EXH	exhaust
Existing	EXIST	
Existing grade	EXST GR	
Existing roof drain	ERD	
Exit light	EXT LT	
Expand	EXP	expansion; exposed
Expanded metal	EM	electromagnetic
Expanded polystyrene board (insulation)	EPS	
Expansion	EXP	expand; exposed
Expansion bolt	EXP BT	
Expansion joint	EJ	
Expansion proof	EPRF	
Exposed	EXP	expand; expansion
Extension	EXTN	
Exterior	EXT	external; extinguisher
Exterior finish	EF	each face
Exterior finish system	EFS	
Exterior grade	EXT GR	
Exterior gypsum board	EGB	
Exterior gypsum sheathing board	EGSB	
Exterior Insulation and finish system	EIFS	
External	EXT	exterior; extinguisher
External pipe thread	EPT	
External static pressure	ESP	
Extinguisher	EXT	exterior; external

Extra large	XL	
Extruded polystyrene board (insulation)	XPS	
Extrusion	EXTRU	
Eye guard	EGRD	
Eye wash station	EWS	
F		
Fabric	FAB	
Fabric wallcovering	FWC	
Face area	FA	final assembly; fire alarm; fresh air
Face brick	FC BRK	
Face of concrete	FOC	face of curb
Face of curb	FOC	face of concrete
Face of finish	FOF	fuel oil return line
Face of masonry	FOM	
Face of slab	FOS	face of stud; fuel oil supply
Face of stud	FOS	face of slab; fuel oil supply
Face of wall	FOW	
Face to face	F/F	
Face velocity	FV	flush valve; foot valve
Facial tissue dispenser	FTD	
Facility	FACIL	
Facsimile	FAX	
Factor	FAC	
Factory	FCTY	
Factory mutual	FM	
Fahrenheit	F	female; fire line
Fan coil unit	FCU	
Fan powered terminal	FPT	
Far face	FF	finish face
Far side	FS	Federal Specification; fire station; full scale; full size
Fascia	FAS	fire alarm station
Fascia board	FAS BD	
Fastener	FSTNR	
Federal	FED	
Federal Energy Administration	FEA	
Federal Highway Administration	FHWA	
Federal Housing Administration	FHA	
Federal Specification	FS	far side; fire station; full scale; full size
Federal stock number	FSN	
Federal supply classification	FSC	
Federal test methods	FTM	
Feedback	FDBK	
Feeder	FDR	fire door
Feedout	FDO	
Feedwater	FDW	
Feet	FT	fire treated; foot; fully tempered (glass)

Feet per minute	FPM	
Feet per second	FPS	
Female	F	Fahrenheit; fire line
Feminine napkin disposal	-----	
Feminine napkin vendor	-----	
Fence	FN	
Fiber insulation	-----	
Fiber reinforced gypsum	FRG	
Fiber reinforced polyester	FRP	fiberglass reinforced plastic
Fiberboard	-----	
Fiberglass	FGL	
Fiberglass reinforced plastic	FRP	fiber reinforced polyester
Figure	FIG	
File cabinet	FC	footcandle
Filler	FLR	floor
Fillet	FIL	
Filter	FLTR	
Filter water return pool	FWR P	
Filter water supply pool	FWS P	
Final assembly	FA	face area; fire alarm; fresh air
Finger joint	FNGR JT	
Finish	FIN	
Finish both sides	FIN BS	
Finish face	FF	far face
Finish floor	FIN FLR	
Finish floor elevation	FF EL	
Finish four sides	F4S	
Finish grade	FIN GR	
Finish two sides	F2S	
Finish wood	FIN WD	
Finished one side	F1S	
Finished opening	FO	fuel oil
Finned tube radiation	FTR	
Fire alarm	FA	face area; final assembly; fresh air
Fire alarm annunciator panel	FAAP	
Fire alarm bell	FABL	
Fire alarm box	FABX	
Fire alarm control panel	FACP	
Fire alarm station	FAS	fascia
Fire blanket	FB	flat bar
Fire brick	F BRK	
Fire damper	FDMPR	
Fire department connection	FDC	
Fire department connection cabinet	FDCC	
Fire department valve	FDV	
Fire door	FDR	feeder
Fire extinguisher	FE	
Fire extinguisher cabinet	FEC	

Fire hose	FH	fire hydrant; flat head; flat head screws
Fire hose cabinet	FHC	
Fire hose rack	FHR	
Fire hydrant	FH	fire hose; flat head; flat head screws
Fire line	F	Fahrenheit; female
Fire protection	FP	fireproof; flag pole; freezing point
Fire protection water supply	FPW	
Fire rated assembly	FPA	
Fire rating	FR	fire resistant; frame
Fire resistant	FR	fire rating; frame
Fire retardant treated wood	FRTW	
Fire sprinkler head	FSH	
Fire standpipe	FSP	
Fire station	FS	far side; Federal Specifications; full scale; full size
Fire treated	FT	feet; foot; fully tempered (glass)
Fire wall	FW	flood wall
Fireplace	FPL	
Fireproof	FP	fire protection; flagpole; freezing point
Fixture	FIXT	
Flagpole	FP	fire protection; fireproof; freezing point
Flammable	FLMB	
Flange	FLG	flooring
Flared	FLRD	
Flashing	FLASH	
Flat bar	FB	fire blanket
Flat head	FH	fire hose; fire hydrant; flat head screws
Flat head machine screw	FHMS	
Flat head screws	FH	fire hose; fire hydrant; flat head
Flat head wood screw	FHWS	
Flexible	FLEX	
Float finish concrete	FL FIN CONC	
Float glass	FLT GL	
Flood wall	FW	fire wall
Floodlight	FLT	
Floor	FLR	filler
Floor area ratio	FAR	
Floor cleanout	FCO	
Floor drain	FD	
Floor finish	FLR FIN	
Floor outlet	FL OUT	
Floor plate	FLR PL	
Floor register	FLR REG	
Floor sink	FLR SK	
Flooring	FLG	flange
Floorline	FL	foot-lambert
Flow line	FLL	
Flow sensing switch	FSS	

Flow switch	FL SW	
Flowmeter	F METER	
Fluid ounce	FL OZ	
Fluorescent	FLUOR	
Fluorescent fixture	FLUOR FIX	
Fluorescent lighting	LT FLUOR	
Flush mount	FLMT	
Flush valve	FV	face velocity; foot valve
Flushing rim sink	FR SNK	
Fluted concrete masonry unit	FLUT CMU	
Fluting	FLUT	
Foam backer	-----	
Foil backed batt insulation	FF BATT	
Foil backed insulation	FF INSUL	
Foil faced drywall	-----	
Foil faced gypsum wallboard	-----	
Folding	FLDG	
Foot	FT	feet; fire treated; fully tempered (glass)
Foot board measure	FBM	
Foot valve	FV	face velocity; flush valve
Foot/pound	FT/LB	
Foot/pound force	FT/LBF	
Footcandle	FC	file cabinet
Footing	FTG	
Foot-lambert	FL	floorline
Form board	FMBD	
Formica	-----	
Formwork	FWRK	
Foundation	FDTN	
Fountain	FOUNT	
Frame	FR	fire rating; fire resistant
Framed mirror	FR MIR	
Framed mirror and shelf	FR MIR/SHF	
Framing	FRMG	
Freeway	FRWY	
Freezer	FRZ	
Freezestat	FSTAT	
Freezing point	FP	fire protection; fireproof; flagpole
Freight	FRT	
Frequency	FREQ	
Fresh air	FA	face area; final assembly; fire alarm
Fresh air inlet (intake)	FAI	
Fritted glass	FR GL	
From floor above	FFA	
From floor below	FFB	
Frosted glass	FRST GL	
Fuel oil	FO	finished opening
Fuel oil #1	FO 1	

Fuel oil #2	FO 2	
Fuel oil #2 return	FO 2R	
Fuel oil #6	FO 6	
Fuel oil #6 return	FO 6R	
Fuel oil pump	FOP	
Fuel oil return	FOR	
Fuel oil return line	FOF	face of finish
Fuel oil storage tank	FOTK	
Fuel oil supply	FOS	face of slab; face of stud
Fuel oil vent	FOV	
Full height partition	FHP	
Full load amps	FLA	
Full scale	FS	far side; Federal Specifications; fire station; full size
Full size	FS	far side; Federal Specifications; fire station; full scale
Full voltage non-reversing	FVNR	
Full voltage reversing	FVR	
Fully tempered (glass)	FT	feet; fire treated; foot
Furnace	FURN	furnish; furniture
Furnish	FURN	furnace; furniture
Furnished by owner	-----	
Furniture	FURN	furnace; furnish
Furniture, fixture, and equipment	FF&E	
Furring	FURG	
Fuse box	-----	
Fused switch	FU SW	
Fusible link	FUS LINK	
Future	FUT	
G		
Gage	GA	Gypsum Association
Gallon	GAL	
Gallons per day	GPD	
Gallons per hour	GPH	
Gallons Per Hour, Standard	SGPH	
Gallons per minute	GPM	
Gallons per second	GPS	
Galvanic	GALV	galvanized
Galvanized	GALV	galvanic
Galvanized iron	GI	
Galvanized iron pipe	GIP	
Galvanized sheet metal	GSM	
Galvanized steel	GALV STL	
Garbage disposal	G DISP	
Garden	GRDN	
Gas bibb	GB	grab bar
Gas fired water heater	GWH	

Gas line	G LN	
Gas pressure regulator	GPR	
Gas vent through roof	GVTR	
Gasoline vent	GV	gravity vent
Gate valve	GTV	
Gauge	-----	
General	GEN	generator
General conditions	GEN COND	
General contractor	GC	
General purpose	GEN PURP	
Generator	GEN	general
Girder	G	ground; natural gas
Glass	GL	ground level
Glass block	GL BLK	
Glass-fiber reinforced concrete	GFRC	
Glass-fiber reinforced gypsum	GFRG	
Glass-fiber reinforced plaster	GFRP	glass-fiber-reinforced plastic
Glass-fiber reinforced plastic	GFRP	glass-fiber-reinforced plaster
Glazed concrete masonry unit	GLZ CMU	
Glazed structural unit	GSU	
Glazed wall tile	GWT	
Glazing	GLZ	
Globe valve	GLV	
Glue	-----	
Glued laminated wood	GLU LAM	
Government	GOVT	
Grab bar	GB	gas bibb
Grade B or better (lumber)	B&B	balled and burlapped; bell and bell
Grade beam	FR BM	
Grade C and better	C&BTR	
Grade cleanout	GCO	
Grade line	GR LN	
Gradient	GRAD	
Grand master key	GMK	
Grand master keyed	GMKD	
Granite	GRAN	
Grating	GRTG	
Gravel	-----	
Gravity roof ventilator	GRV	groove
Gravity vent	GV	gasoline vent
Graylite	-----	
Grease trap	GT	gross ton; grout
Grille	GRL	
Grommet	GROM	
Groove	GRV	gravity roof ventilator
Gross	GR	
Gross ton	GT	grease trap; grout
Gross weight	GR WT	

Ground	G	girder; natural gas
Ground fault circuit interrupter	GFCI	
Ground fault interrupter	-----	
Ground floor	GR FL	
Ground level	GL	glass
Grounded outlet	GRD OUT	
Group	GP	
Grout	GT	grease trap; gross ton
Guarantee	GUAR	
Guaranteed maximum price	GMP	
Guard	GD	
Guard rail	GDR	
Gutter	GUT	
Gymnasium	GYM	
Gyplath	-----	
Gypsum	GYP	
Gypsum Association	GA	gage
Gypsum board	GYP BD	
Gypsum panel	-----	
Gypsum plaster	GYP PLAS	
Gypsum plaster ceiling	GPC	
Gypsum sheathing board	GSB	
Gypsum wallboard	-----	
H		
Hammer	HMR	
Hand dryer	HD	heavy duty
Hand hole	HH	
Hand sink	HS	heat-strengthened (glass); high strength
Handicap	HC	heating coil; heavy commercial; hollow core; hose cabinet
Handicapped	HCP	
Hand-off-automatic	HOA	
Handrail	HNDRL	
Hanger	HGR	
Hardboard	HDBD	
Hardener	HDNR	
Hardware	HDW	
Hardwood	HDWD	
Hatch (roof)	H	high
Hazard	HAZ	
Hazardous materials	HAZ MAT	
Head joint	HD JT	
Header	HDR	
Headquarters	HQ	
Headwall	HDWL	
Heat absorbing glass	HAGL	
Heat exchanger	HEX	hexagon

Heat gain	HG	
Heat pump	HP	high pressure; horsepower
Heat transfer	Q	rate of flow
Heat transfer coefficient	U	
Heat treated (glass)	HT TRD	
Heating coil	HC	handicap; heavy commercial; hollow care; hose cabinet
Heating water pump		
Heating water return	HTWR	
Heating water supply	HTWS	
Heating, ventilating, and air conditioning	HVAC	
Heat-strengthened (glass)	HS	hand sink; high strength
Heavy	HVY	
Heavy commercial	HC	handicap; heating coil; hollow core; hose cabinet
Heavy duty	HD	hand dryer
Hectare	ha	
Hectoliter	hL	
Hectometer	hm	
Height	HT	
Hemlock	HEM	
Herculite	-----	
Hertz	Hz	
Hexagon	HEX	heat exchanger
High	H	hatch (roof)
High density overlay	HDO	
High density polyethylene	HDPE	
High efficiency particulate air (filter)	HEPA	
High frequency	HF	
High intensity discharge	HID	
High power factor	HPF	
High pressure	HP	heat pump; horsepower
High pressure air	HPA	high pressure air
High pressure boiler	HPB	
High pressure drip trap	HPDT	
High pressure gas	HPG	
High pressure plastic laminate	H PLAM	
High pressure return	HPR	
High pressure sodium	HPS	high pressure steam
High pressure steam	HPS	high pressure sodium
High pressure trap	HPT	
High strength	HS	hand sink; heat-strengthened (glass)
High temperature hot water	HTHW	
High velocity diffuser	HVD	
High velocity terminal	HVT	
High voltage	HV	hose valve
Highway	HWY	
Hoist	HST	

Hold open	HO	
Holddown	HLDN	
Hollow concrete masonry unit	HCMU	
Hollow core	HC	handicap; heating coil; heavy commercial; hose cabinet
Hollow core wood door	HCWD	
Hollow metal	HM	
Hollow metal door	HMD	humidity
Hollow metal door and frame	HMDF	
Hollow metal frame	HMF	
Hollow Metal Manufacturers Association	HMMA	
Horizontal	HORIZ	
Horizontal sliding window	SLD WDW	
Horsepower	HP	heat pump; high pressure
Hose bibb	HB	
Hose cabinet	HC	handicap; heating coil; heavy commercial; hollow core
Hose connector	HCONN	
Hose gate valve	HGV	
Hose valve	HV	high voltage
Hospital	HOSP	
Hot and cold water	H&CW	
Hot water	HW	
Hot water boiler	HWB	
Hot water circulating pump	HWCP	
Hot water coil	HWC	HWRC
Hot water heater	-----	
Hot water heating return	HWHR	
Hot water heating supply	HWHS	
Hot water pump	HWP	
Hot water recirculating	HWRC	
Hot water return	HWR	
Hot water supply	HWS	
Hot water tank	HWT	
House	HSE	
Housekeeping	HSKPG	
Humidistat	HSTAT	
Humidity	HMD	hollow metal door
Hundred cubic feet	CCF	
Hundred weight	CWT	
Hydrant	HYD	
Hydraulic	HYDR	
Hydrochlorofluorocarbons	HCFC	
I		
I Beam	IB	
Identification	ID	inside diameter; inside dimensions; interior design

Identification number	ID NO	
Ignition	IGN	
Illumination	ILLUM	
Illumination Engineering Society of North America	IESNA	
Illustrate	ILLUS	
Immediate	IMED	
Impact Isolation class	IIC	
impact noise rating	INR	
Impulses per minute	IPM	
Impulses per second	IPS	international pipe standard; iron pipe size
Incandescent	INCAND	
Inches per second	IN/S	
Inches, water column	IN WC	
Inch-pound	IN-LB	
Inch-pound force	IN-LBF	
Incinerator	INCIN	
Included	INCL	
Increase	INC	
Increment	INCR	
Independent	IND	industrial
Indoor air quality	IAQ	
Industrial	IND	Independent
Infinite	INF	
Information	INFO	
Infrared	IR	inside radius
Inlet manhole	IMH	
Input/output	I/O	
Insect screen	IS	island
Inside diameter	ID	identification; inside dimension; interior design
Inside dimension	ID	Identification; inside diameter; interior design
Inside face	IF	intake fan
Inside face of stud	IFS	
Inside radius	IR	infrared
Inspect	INSP	
Install	INSTL	
Instantaneous water heater	IWH	
Instrument	INSTR	
Insufficient	INSUF	
Insulated metal panel	INSUL PNL	
Insulation	INSUL	
Insurance	INS	
Intake fan	IF	inside face
Intercommunication	INTERCOM	
Interior	INT	

Interior design	ID	identification; inside diameter; inside dimension
Interlocked armored cable	BX	
Intermediate metal conduit	IMC	
International	INTL	
International Building Code	IBC	
International pipe standard	IPS	impulses per second; iron pipe size
International Standards Organization	ISO	isometric
International System of Units	SI	
Interrupting capacity	IC	ironing cabinet
Interstate (highway)	I	moment of inertia
Intertek Testing Services	ITS	
Invert	INV	
Invert elevation	INV EL	
Inverted roof membrane assembly	IRMA	
Iron pipe	IP	
Iron pipe size	IPS	impulses per second; inches per second; international pipe standard
Iron pipe threaded	IPT	
Ironing cabinet	IC	interrupting capacity
Irregular	IRREG	
Irrigation water	IW	
Island	IS	insect screen
Isolation transformer	IT	
Isometric	ISO	International Standards Organization
J		
Jalousie	JAL	
Janitor	JAN	
Janitor closet	JAN CLO	
Janitor sink	-----	
Janitor's sink	JS	
Joint filler	-----	
Joint stuffer	-----	
Junction box	J-BOX	
Junior	JR	
K		
Kalamein door	-----	
Kelvin	K	thousand
Keyway	KWY	
Kickplate	KPL	
Kiln dried	KD	knocked down
Kilo	k	
Kilocalorie	kCAL	
Kilogram	kg	
Kilohertz	kHz	
Kiloliter	kL	

Kilometer	km	
Kilometers per hour	km/h	
Kilometers per second	km/s	
Kilovolt	kV	
Kilovolt ampere	kVA	
Kilovolt ampere per hour	kVAh	
Kilovolt ampere reactive	kVAR	
Kilowatt	kW	
Kilowatt hour	kWh	
Kilowatt hour meter	kWhm	
Kilpascal	kPa	
Kips per lineal foot	KLF	
Kips per square foot	KSF	
Kips per square inch	KSI	
Kitchen	KIT	
Kitchen cabinet	KC	
Knee brace	KB	
Knock out panel	KOP	
Knocked down	KD	kiln dried
Knockout	KO	
L		
Laboratory	LAB	
Lacquer	LAQ	
Ladder	LAD	
Lagging	LAG	
Lally column	L COL	
Laminate	LAM	
Laminated glass	LAM GL	
Lamp lumen depreciation	LLD	
Landing	LDG	
Landmark	LDMK	
Landscape	LNDSCP	
Lane	LN	
Large	LRG	
Large scale	LS	lawn sprinkling; lump sum
Latch and lock	L&L	
Latent heat	LH	left hand
Latent heat gain	LHG	
Latent heat ratio	LHR	left hand reverse
Lateral	LATL	
Lath	-----	
Lath and plaster	L&P	
Latitude	LAT	lattice; leaving air temperature
Lattice	LAT	latitude; leaving air temperature
Launch	LANH	
Laundry	LAU	
Laundry chute	LC	

Lavatory	LAV	
Lawn sprinkling	LS	large scale; lump sum
Layer	LYR	
Layout	LYT	
Lead lined	LL	live load; low level; lower left
Lead lined gypsum board	LL GB	
Leader	LDR	
Leaving air	LA	lighting arrester
Leaving air temperature	LAT	latitude; lattice
Leaving dry bulb temperature	LDBT	
Leaving water temperature	LWT	
Leaving wet bulb temperature	LWBT	
Left hand	LH	latent heat
Left hand reverse	LHR	latent heat ratio
Left hand side	LHS	
Lexan	-----	
Library	LIB	
Light	LT	
Light emitting diode	LED	
Light gage	LT GA	
Light pole	LP	lightproof; liquid petroleum; low pressure(mechanical)
Light switch	LT SW	
Lighting	LTG	
Lighting panel	LTG PNL	
Lightning	LTNG	
Lightning arrester	LA	leaving air
Lightproof	LP	light pole; liquid petroleum; low pressure(mechanical)
Lightproof louver	LPL	
Lightproof vent	LPV	
Lightweight	LT WT	
Lightweight concrete	LWC	
Lightweight concrete masonry unit	LCMU	
Lightweight insulating concrete	LWIC	
Lightweight plaster	LW PLAS	
Limestone	LMST	
Limit switch	LIM SW	
Limited	LTD	
Line ground	LG	liquid gas
Line of sight	LOS	
Linear	LIN	
Linear ceiling diffuser	LCD	
Linear diffuser	LD	
Linear feet (foot)	LF	
Linen closet	L CL	
Linoleum	LINO	
Liquid	LIQ	liquor

Liquid gas	LG	line ground
Liquid natural gas	LNG	longitude
Liquid oxygen	LOX	
Liquid petroleum	LP	light pole; lightproof; low pressure(mechanical)
Liquid petroleum gas	LPG	low pressure gas
Liquor	LIQ	liquid gas
Liter	L	angle
Liter per second	L/s	
Live load	LL	lead lined; lower left; low level
Living room	LRG	
Load-bearing	LD BRG	
Location	LOC	
Lock on	LO	lubricating oil
Locked rotor ramps	LRA	
Locker	LKR	
Locker room	LKR RM	
Locknut	LKNT	
Lockwasher	LKWASH	
Logarithm	LOG	
Long leg horizontal	LLH	
Long leg vertical	LLV	
Longitude	LNG	liquid natural gas
Longitudinal	LONG	
Loose cubic meter	LCMU	
Loose cubic yard	LCY	
Loose fill insulation	LF INS	
Loudspeaker	-----	
Louver	LVR	
Louver door	LVDR	
Louvered	LVDR	
Louvered roof vent	LRV	
Low density polyethylene	LDPE	
Low level	LL	lead lined; live load; lower left
Low point	LPT	
Low power factor	LPF	
Low pressure (mechanical)	LP	light pole; lightproof; liquid petroleum
Low pressure alarm switch	LPAS	
Low pressure air	LPA	
Low pressure boiler	LPB	
Low pressure condensate return	LPCR	
Low pressure drip trap set	LPDT	
Low pressure gas	LPG	liquid petroleum gas
Low pressure return	LPR	
Low pressure sodium	LPS	low pressure steam
Low pressure steam	LPS	low pressure sodium
Low temperature hot water	LTHW	
Low voltage	LV	

Low water	LW	
Low water cut off	LWCO	
Low water mark	LWM	
Lower left	LL	lead lined; live load; low level
Lubricate	LUB	
Lubricating oil	LO	lock on
Lubricating oil pump	LOP	
Lubricating oil vent	LOV	
Lucite	-----	
Lumber	LBR	
Lumen	LM	
Lumen dirt depreciation	LDD	
Lumen per watt	LPW	
Lump sum	LS	larger scale; lawn sprinkling
M		
Machine	MACH	
Machine bolt	MB	mail box; mixing box
Machine room	MACH RM	
Machine screw	MS	mop sink; motor starter
Magnet	MAG	
Magnetic north	MN	
Mahogany	MAHOG	
Mail box	MB	machine bolt; mixing box
Mail chute	MCH	
Main circuit breaker	MCB	metal corner bead
Maintenance	MAINT	
Make up air unit	MAU	
Make up water	MAUW	
Male pipe thread	MPT	
Management	MGT	
Manhole	MH	
Manhole cover	MC	mechanical contractor; medicine cabinet; metal-clad; moisture content; moment connection
Manual	MAN	
Manual air vent	MAV	
Manual damper	MD	metal deck
Manual transfer switch	MTS	
Manual volume damper	MVD	
Manufactured	MFD	
Manufacturer	MFR	mass flow rate
Manufacturer's recommendation	MFR REC	
Manufacturing	MFG	
Maple Flooring Manufacturer's Association	MFMA	Metal Framing Manufacturer's Association
Marble base	MRB	
Marble floor	MRF	
Marble Institute of America	MIA	

Marble threshold	MRT	
Marker	MKR	
Masonite	-----	
Masonry opening	MO	motor operated
Mass flow rate	MFR	manufacturer
Master antenna television system	MATV	
Master bedroom	MBR	member
Master switch	MSW	
Masterkeyed	MKD	
Masthead	MHD	
Mastic	-----	
Mastic floor	MF	mill finish
Material	MATL	
Materials list	ML	metal lath; monolithic
Matrix	MTX	
Maximum	MAX	
Maximum overcurrent protection	MOCP	
Mean sea level	MSL	
Mean temperature difference	MTD	mounted
Measure	MEAS	
Mechanical	MECH	
Mechanical contractor	MC	manhole cover; medicine cabinet; metal-clad; moisture content; moment connection
Mechanical engineer	ME	medical
Mechanical room	MECH RM	
Medical	MED	
Medical cabinet	MC	
Medium	MED	
Medium density overlay	MDO	
Medium pressure	MPT	
Medium pressure gas	MPG	miles per gallon
Medium pressure return	MPR	
Medium pressure steam	MPS	
Medium temperature hot water	MTHW	
Meeting	MTG	mounting
Megahertz	MHz	
Megavolt-ampere	MVA	
Megawatt	MW	microwave
Megawatt hour	MWh	
Melamine	MEL	
Member	MBR	master bedroom
Membrane	MEMB	
Membrane waterproofing	MWP	
Memorandum	MEMO	
Mercury	Hg	
Meridian	MER	
Metal	MTL	

Metal base	MTLB	
Metal corner bead	MCB	main circuit breaker
Metal deck	MD	manual damper
Metal door	MTLD	
Metal flashing	MTLF	
Metal Framing Manufacturer's Association	MFMA	Maple Flooring Manufacturer's Association
Metal lath	ML	materials list; monolithic
Metal lath and plaster	ML&P	
Metal nosing	-----	
Metal oxide semiconductor	MOS	
Metal partition	MTLP	
Metal roof	MTLR	
Metal threshold	MT	mount
Metal-clad	MC	manhole cover; medicine cabinet; mechanical contractor; moisture content; moment connection
Meter	m	
Meters per second	m/s	
Methyl ethyl ketone	MEK	
Mezzanine	MEZZ	
Microphone	MIC	
Microwave	MW	megawatt
Middle	MID	
Miles per gallon	MPG	medium pressure gas
Miles per hour	MPH	
Military standard	MIL STD	
Mill finish	MF	mastic floor
Milliampere	mA	
Millimeter	mm	
Million gallons per day	MGD	
Millisecond	ms	
Millivolt	mV	
Milliwatt	mW	
Millwork	MLWK	
Minimum	MIN	minute
Minimum circuit amps	MCS	
Minute	MIN	minimum
Mirror	MIRR	
Mirror glass	-----	
Miscellaneous	MISC	
Miscellaneous metal	-----	
Miter	MIT	
Mixed air	MA	
Mixed air temperature	MAT	
Mixing box	MB	machine bolt; mail box
Model	MOD	modify; module; motor operated damper
Modified bitumen	MOD BIT	
Modify	MOD	model; module; motor operated damper

Modulator-demodulator	MODEM	
Module	MOD	model; modify; motor operated damper
Modulus of elasticity	E	east
Modulus of section	Z	
Moisture	MSTRE	
Moisture content	MC	manhole cover; mechanical contractor; medicine cabinet; metal-aid; moment connection
Moisture resistant	MR	
Molding (moulding)	MLDG	
Moment	M	
Moment connection	MC	manhole cover; mechanical contractor; medicine cabinet; metal-clad; moisture content
Moment of inertia	I	interstate (highway)
Monitor	MON	monument
Monolithic	ML	materials list; metal lath
Monument	MON	monitor
Mop rack	MOPR	
Mop service basin	MSB	
Mop sink	MS	machine screw; motor starter
Mop/broom holder	MBH	
Motor	MOT	
Motor control center	MCC	
Motor direct connect	MDC	
Motor generator	MG	
Motor operated	MO	masonry opening
Motor operated damper	MOD	model; modify; module
Motor operated valve	MOV	
Motor starter	MS	machine screw; mop sink
Mount	MT	metal threshold
Mount Pleasant city water	MPCW	
Mounted	MTD	mean temperature differences
Mounting	MTG	meeting
Movable	MVBL	
Mullion	MULL	
Multiple	MULT	
Multizone	MZ	
Municipal	MUNIC	
N		
Nameplate	NPL	nickel plated
Narrow	NAR	
Narrow stile	NS	near side; no scale
National	NATL	
National Association of Architectural Metal Manufacturer's	NAAMM	
National Building Code	NBC	

National Bureau of Standards	NBC	
National Electrical Code	NEC	
National Electrical Manufacturer's Association	NEMA	
National Fenestration Rating Council	MFRC	
National Fire Code	NFC	
National Fire Protection Association	NFPA	
National Institute of Building Sciences	NIBS	
National Institute of Standards and Technology	NIST	
National Paint and Coatings Association	NPCA	
National Roofing Contractor's Association	NRCA	
Natural	NAT	
Natural gas	G	girder; ground
Near face	NF	
Near side	NS	narrow stile; no scale
Negative	NEG	
Negotiated	NEGTD	
Net weight	NT WT	
Neutral	NEUT	
Newton	N	north
Nickel	NKL	
Nickel cooper	NICOP	
Nickel cooper alloy	NCA	
Nickel plated	NPL	nameplate
Nickel silver	NI SL	
Night light	NL	
No paint	NP	
No scale	NS	narrow stile; near side
Noise criteria	NCA	normally closed
Noise isolation class	NIC	not in contract
Noise reduction	NR	
Noise reduction coefficient	NRC	
Nominal	NOM	
Noncombustible	NCOMBL	
Nonflammable	NONFLMB	
Nonfused	NFSD	
Nonloadbearing	NLB	
Nonmagnetic	NMAG	
Non-metallic	NM	
Non-reinforced concrete pipe	NRCP	
Nonremovable	NRP	
Non-slip stair nosing	-----	
Nonstandard	NON STD	
Normal	NORM	
Normally closed	NC	noise criteria
Normally open	NO	number
North	N	newton

Not applicable	NA	
Not exceeding	NE	
Not in contract	NIC	noise isolation class
Not to scale	NTS	
Notice of clarification	NOC	
Notice to proceed	NTP	
Number	NO	normally open
Numeral	NUM	
O		
Obscure glass	OGL	
Obscure wired glass	OWGL	
Observation window	OBW	
Occupational Safety and Health Administration	OSHA	
Occupy	OCC	
Octagon	OCT	
Office	OFF	
Oil circuit breaker	OCB	
Oil circuit recloser	OCR	
Oil gage	OGA	
Oil level	OLVL	
Oil pressure	OPRS	
Oil proof	OP	
Oil seal	OSL	
Oil switch	OS	
Oil temperature gauge	OTG	
On center	OC	
One thousand gallons per hour	MGPH	
One thousand square feet	MSF	
Opaque	OPQ	
Open web steel joists		
Opening	OPNG	
Operable	OPR	
Operating room	OR	outside radius
Operating steam pressure	OSP	
Opposite	OPP	
Opposite hand	OPH	
Optimum	OPT	optional
Optional	OPT	optimum
Ordnance	ORD	overflow roof drain
Organic	ORG	
Original	ORIG	
Ornamental	ORN	
Ounce	OZ	
Out to out	O/O	
Outlet	OUT	
Outside air	OA	overall

Outside air damper	OAD	
Outside air grille	OAG	
Outside air intake	OAI	
Outside diameter	OD	outside dimension
Outside dimension	OD	outside diameter
Outside face	OF	
Outside face of studs	OFS	
Outside radius	OR	operating room
Over	O/	
Overall	OA	outside air
Overcurrent	OVC	
Overflow	OVFL	
Overflow drain	OFD	
Overflow roof drain	ORD	ordnance
Overhang	OH	
Overhead (coiling) door	OH DR	
Overload	OL	
Override	OVRD	
Owner furnished/contractor installed	OF/CI	
Owner furnished/owner installed	OF/OI	
Oxygen	O	
P		
Package	PKG	
Packaged terminal air conditioner	PTAC	
Paint	PT	pipe thread; pneumatic tube; post-tensioned; pressure treated
Painted base	PB	panelboard; panic bar; pull box; pushbutton
Painted metal	PMET	
Painting and Decorating Contractors of America	PDCA	
Pair	PR	pipe rail; pumped return
Panel	PNL	
Panel point	PP	polypropylene (plastic); push/pull
Panelboard	PB	painted base; panic bar; pull box; pushbutton
Panic bar	PB	painted base; panelboard; pull box; pushbutton
Panic bolt	PANB	
Paper cup dispenser	PCD	
Paper towel dispenser	PTD	printed
Paper towel dispenser and receptacle	PTDR	
Paper towel receptacle	PTR	
Paragraph	PARA	
Parallel	PAR	parapet
Parapet	PAR	parallel
Parenthesis	PAREN	
Parging	PARG	

Parking	PRKG	
Parking garage	PK GAR	
Parking lot	PK LOT	
Parkway	PKWY	
Part number	PN	
Partial	PART	
Particleboard	PBD	
Partition	PTN	
Parts per million	PPM	
Pascal	Pa	
Pass window	PW	
Passenger	PASS	
Pass-through window	-----	
Paste	-----	
Pattern	PAT	
Paved	PV	
Paved road	PV RD	
Pavement	-----	
Paving	PVG	
Pedestal	PED	
Pegboard	PGBD	
Pendant	PEND	
Penetrate	PEN	
Penny (nail)	D	deep; depth
Penthouse	PH	phase
Percent	PCT	
Perforated	PERF	perform
Perform	PERF	perforated
Perimeter	PERIM	
Period	PER	
Permanent	PERM	
Perpendicular	PERP	
Petroleum	PETRO	
Pharmacy	PHAR	
Phase	PH	penthouse
Phase meter	PM	
Phillips head screw	PHS	
Photoelectric	PE	pneumatic electric
Photoelectric cell	PEC	
Photograph	PHOTO	
Piece	PC	point of curve; polycarbonate; portland cement
Pilaster	PIL	
Piling	PLG	
Pipe anchor	PA	power amplifier; public address
Pipe rail	PR	pair; pumped return
Pipe sleeve	PSL	

Pipe thread	PT	paint; pneumatic tube; post-tensioned; pressure treated
Pitch pocket	-----	
Pivoted	PIV	post indicator valve
Place	PLC	
Plant mix bituminous concrete	PMBC	
Plaster	PLAS	plastic
Plaster wall	PLST WL	
Plastic	PLAS	plaster
Plastic laminate	PLAM	
Plate glass	PL GL	
Platform	PLAT	
Plexiglass	-----	
Plumb	PLB	
Plumbing	PLBG	
Plywood	PLYWD	
Pneumatic	PNEU	
Pneumatic electric	PE	photoelectric
Pneumatic tube	PT	paint; pipe thread; post-tensioned; pressure-treated
Point of curve	PC	piece; polycarbonate; portland cement
Point of intersection	PI	
Pole	P	pump
Polished	POL	
Polished plate glass	PPGL	
Polycarbonate	PC	piece; point of curve; portland cement
Polychlorinated biphenyl	PCB	
Polyethylene (plastic)	POLY	
Polyisobutylene (plastic)	PIB	
Polypropylene (plastic)	PP	panel point; push/pull
Polystyrene (plastic)	PSL	pull station
Polyvinyl acetate	PVA	
Polyvinyl chloride (plastic)	PVC	
Polyvinyl fluoride (plastic)	PVF	
Porcelain	PORC	
Portable	PORT	
Portable water	POTW	
Portland cement	PC	piece; point of curve; polycarbonate
Portland Cement Association	PCA	
Portland cement plaster	PCP	
Position	POS	positive
Positive	POS	position
Post indicator valve	PIV	pivoted
Post office	PO	purchase order
Post-tensioned	PT	paint; pipe thread; pneumatic tube; pressure-treated
Post-tensioned concrete	PT CONC	
Pound	LB	

Pound-force	LBF	
Pound-force per cubic foot	LBF/CF	
Pound-force per foot	LBF/FT	
Pound-force per horsepower	LBF/HP	
Pound-force per hour	LBF/H	
Pound-force per inch	LBF/IN	
Pound-force per minute	LBF/MIN	
Pound-force per square foot	LBF/SF	
Pound-force per square inch	LBF/SI	
Pounds per cubic foot	PCF	
Pounds per linear foot	PLF	
Pounds per square foot	PSF	
Pounds per square inch	PSI	
Pounds per square inch absolute	PSIA	
Pounds per square inch, gage	PSIG	
Pour	-----	
Poured in place	-----	
Power	PWR	
Power amplifier	PA	pipe anchor; public address
Power factor	PF	
Power line	POW LN	
Power panel	-----	
Power pole	-----	
Power roof exhaust	PRE	
Power roof ventilator	PRV	pressure reducing valve; pressure regulator valve; pressure relief valve.
Precast	PRCST	
Precast concrete	PCC	precool coil
Precast/Pressed Concrete Institute	PCI	
Precool coil	PCC	precast concrete
Precut	-----	
Prefabricate	PREFAB	
Preference	PREF	
Prefinish	PREFIN	
Pre-fit	-----	
Preformed	PREFMD	
Preheat coil	PHC	
Preliminary	PRELIM	
Premolded	PRMLD	
Premolded expansion joint	PEJ	
Preparation	PREP	
Pressure	PRESS	
Pressure drop or difference	PD	
Pressure gage	PG	profile grade
Pressure reducing station	PRS	
Pressure reducing valve	PRV	power roof ventilator; pressure regulator valve; pressure relief valve

Pressure regulator valve	PRV	power roof ventilator; pressure reducing valve; pressure relief valve
Pressure relief valve	PRV	power roof ventilator; pressure regulator valve; pressure reducing valve
Pressure switch	PRESS SW	
Pressure temperature relief valve	PTRV	
Pressure treated	PT	paint; pipe thread; pneumatic tube; post-tensioned
Prestressed concrete	PS CONC	
Pre-trimmed	-----	
Previous	PREV	
Primary	PRI	
Primary chill water pump	PMP	
Primary chilled water return	PCHWR	
Primary chilled water supply	PCHWS	
Primary hot water return	PHWR	
Primary hot water supply	PHWS	
Prime coat	-----	
Primer	-----	
Principal	PRIN	
Printed	PTD	paper towel dispenser
Probable maximum flood	PMF	
Production	PROD	
Profile grade	PG	pressure gage
Project	PROJ	
Property	PROP	
Property line	PL	
Provisional	PROV	
PSF absolute	PSFA	
PSF gage	PSFG	
Public address	PA	pipe anchor; power amplifier
Pull box	PB	painted base; panelboard; panic bar; pushbutton
Pull station	PS	polystyrene (plastic)
Pump	P	pole
Pump discharge	PDISCH	
Pump suction	PMP SCT	
Pumped condensate	CNDP	
Pumped return	PR	pair; pipe rail
Purchase order	PO	post office
Purlins	PUR	
Purse shelf	PSH	
Push rod	PRD	
Push/pull	PP	panel point; polypropylene (plastic)
Push/pull plate	PP PL	
Pushbutton	PB	painted base; panelboard; panic bar; pull box

Q		
Quadrangle	QUAD	quadrant
Quadrant	QUAD	quadrangle
Quadruple receptacle outlet	4OUT	
Quality	QUAL	
Quality assurance	QA	
Quality control	QC	
Quality control review	QCR	
Quality management	QM	
Quantity	QTY	
Quarry	QRY	
Quarry tile	QT	
Quarry tile base	QTB	
Quarry tile floor	QTF	
Quarter	QTR	
Quotation	QUOT	
R		
Rabbeted	RAB	
Radian	RAD	radiator; return air duct
Radiation	RADN	
Radiation hazard	RAD HAZ	
Radiator	RAD	radian; return air duct
Radio frequency	RF	resilient flooring
Radius	R	range; riser; thermal resistance
Railing	RLG	
Railroad	RR	roll roofing
Rain water downspout	RDS	
Rain water gutter	RGUT	
Rain water leader	RWL	
Range	R	radius; riser; thermal resistance
Rapid start	RS	rough sawn
Rate of flow	Q	heat transfer
Rating	RTG	
Reactive kilovolt amperes	RKVA	
Received	RECD	
Receiver	RCVR	
Receptacle	RECPT	
Reception	RCPTN	
Recessed	REC	
Recessed waste receptacle	RWR	
Reciprocal	RECIP	
Recirculate	RECIRC	
Recirculate pump	RECIRCP	
Recreation room	REC ROOM	
Rectangle	RECT	
Reducer	RDC	

Redwood	RWD	
Reference	REF	refrigerator
Reflect	REFL	
Reflected ceiling plan	RCP	reinforced concrete pipe
Refractory	REFR	refrigeration
Refrigerant	RFGT	
Refrigerant discharge	RD	road; roof drain
Refrigerant hot gas	RHG	
Refrigerant liquid line	RLL	
Refrigerant suction line	RSL	
Refrigeration	REFR	refractory
Refrigerator	REF	reference
Register	REG	regulation
Regulation	REG	register
Reheat coil	RHC	
Reheat valve	RHV	
Reinforce	REINF	
Reinforced brick masonry	RBM	
Reinforced concrete	RC	remote control
Reinforced concrete box	RCB	
Reinforced concrete culvert pipe	RCCP	
Reinforced concrete pipe	RCP	reflected ceiling plan
Reinforcement	-----	
Reinforcing bar	-----	
Reinforcing steel	RST	
Reinforcing steel bars	REBAR	
Relative humidity	RH	right hand; roof hatch
Relief valve	RV	roof vent; roof ventilator
Remodel	-----	
Remote control	RC	reinforced concrete
Removable	REM	
Repair	REP	
Replace	REPL	
Reproduce	REPRO	
Request for information	RFI	
Request for proposal	RFP	
Require	REQ	
Required	REQD	
Research and development	R&D	
Resilient	RESIL	
Resilient base	RB	rubber base
Resilient flooring	RF	radio frequency
Restroom	REST	
Return	RET	
Return air	RA	
Return air duct	RAD	radian; radiator
Return air fan	RA FAN	
Return air grille	RA GR	

Return air temperature	RAT	
Reveal	RVL	
Reverse	RVS	
Reverse osmosis	RVSO	
Revision	REV	revolutions
Revolutions	REV	revisions
Revolutions per minute	RPM	
Revolutions per second	RPS	
Rheostat	RHEO	
Right	RTG	
Right hand	RH	relative humidity; roof hatch
Right hand reverse	RHR	
Right of way	ROW	
Rigid insulation, solid	RDG INS	
Riser	R	radius; range; thermal resistance
Road	RD	refrigerant discharge; roof drain
Roadway	RW	
Robe hook	RB HK	
Rocklath	-----	
Roll roofing	RR	railroad
Rolling steel door	RSD	
Roof drain	RD	refrigerant discharge; road
Roof hatch	RH	relative humidity; right hand
Roof leader	RL	
Roof top unit	RTU	
Roof vent	RV	relief valve; roof ventilator
Roof ventilator	RV	relief valve; roof vent
Roofing	RFG	
Room	RM	
Room air conditioner	RAC	
Room monitor system	RMS	root mean square
Root mean square	RMS	room monitor system
Rough opening	RO	
Rough sawn	RS	rapid start
Round	RND	
Round head machine screw	RHMS	
Round head wood screw	RHWS	
Rubber	RBR	
Rubber base	RB	resilient base
Rubber tile floor	RTF	
Runway	RWY	
Rusting steel	-----	
S		
Saddle	SDL	
Safety factor	SF	square foot (feet); supply fan
Safety nosing	-----	
Safety valve	SV	sheet vinyl

Salvage	SALV	
Sample	SAMP	
Sand	-----	
Sandblast	SDBL	
Sanitary	SAN	
Sanitary napkin dispenser	SND	
Sanitary napkin disposal unit	SNDU	
Sanitary Sewer	SS	service sink; standing seam (roof); steam supply; storm sewer
Saturate	SAT	suspended acoustical tile
Schedule	SCHED	
Schedule of values	SOV	shut off valve
Schematic	SCHEM	
School	SCH	
Scored joint	SJ	slip joint
Screen	SCRN	
Scupper	SCP	
Scuttle	-----	
Sea level	SL	spot light
Sealant	SLNT	
Seamless	SMLS	
Seat cover dispenser	SCD	
Secondary chilled water pump	SCHWP	
Secondary chilled water return	SCHWR	
Secondary chilled water supply	SCHWS	
Secondary hot water return	SHWR	
Secondary hot water supply	SHWS	
Section	SECT	
Segment	SEG	
Select	SEL	
Semiconductor controlled rectifier	SCR	shower curtain rod
Sensible heat	SH	shingles; single hung (window)
Sensible heat gain	SHG	
Sensible heat ratio	SHR	shower
Sensor	SNSR	
Separate	SEP	
Septic tank	SEP TNK	
Service	SVCE	
Service sink	SS	sanitary sewer; standing seam (roof); steam supply; storm sewer
Sewage	SWG	
Sewer	SWR	
Shading coefficient	SC	solid core
Shaft	SHT	sheet
Shaft (elevator)	SHFT	
Shaft horsepower	SFT HP	
Sheathing	SHTHG	
Sheet	SHT	shaft

Sheet metal	SM	silty sand; small; smooth
Sheet metal (flashing)	SHT MTL FLASH	
Sheet vinyl	SV	safety valve
Sheeting	-----	
Shelving	SHV	
Shingles	SH	sensible heat; single hung (window)
Shop drawings	SD	smoke detector; soap dispenser; storm drain; supply duct
Short circuit capacity	SCC	
Shoulder	SHLDR	
Shower	SHR	sensible heat ratio
Shower curtain rod	SCR	semiconductor controlled rectifier
Shower drain	SHRD	
Shower head	SHR HD	
Shut off valve	SOV	schedule of values
Shutter	SHTR	
Sidewalk	SW	switch
Siding	SDG	
Signal	SIG	
Silty gravel	GM	
Silty sand	SM	sheet metal; small; smooth
Similar	SIM	
Single	SGL	
Single acting (door)	SA	supply air
Single hung (window)	SH	sensible heat; shingles
Single pole, double throw	SPDT	
Single pole, single throw	SPST	
Single receptacle floor outlet	FLOUTS	
Single receptacle outlet	SOUT	
single throw	ST	stairs; street
Sink	-----	
Sketch	SK	
Skydome	-----	
Skylight	SKLT	
Skylite	-----	
Sleeve	SLV	
Sliding	SLDG	
Sliding glass door	SGD	
Slip joint	SJ	scored joint
Slop sink	-----	
Small	SM	sheet metal; silty sand; smooth
Smoke	SMK	
Smoke damper	SDMPR	
Smoke detector	SD	shop drawings; soap dispenser; storm drain; supply duct
Smooth	SM	sheet metal; silty sand; small
Snow melt heating system	SMHS	

Soap dispenser	SD	shop drawings; smoke detector; storm drain; supply duct
Society of American Registered Architects	SARA	
Softwood	SFTWD	
Solder	SLDR	
Solenoid valve	SOLV	
Solid concrete masonry unit	SCMU	
Solid core	SC	shading coefficient
Solid core wood door	SCWD	
Solid plastic	SP	standpipe; sump pit
Solution	SOLN	
Solvent	SLVT	
Sound insulation	SND INS	
Sound transmission class	STC	
South	S	
Southern Building Code Congress International	SBCCI	
Space heater	SPH	
Speaker	SPKR	
Special	SPCL	
Special finish	SP FIN	
Specific gravity	SP GR	
Specification	SPEC	
Splash block	SB	
Spline	SPL	
Spot elevation	SP EL	
Spot light	SL	sea level
Sprinkler	SPKLR	
Sprinkler line	SPR	
Spruce-pine-fir	SPF	
Square	SQ	
Square bar	SQ BR	
Square centimeter; centimeter squared	cm ²	
Square foot (feet)	SF	safety factor; supply fan
Square inch	SQ IN	
Square kilometer	KM ²	
Square meter	M ²	
Square millimeter	MM ²	
Square yard	SQ YD	
Staggered	STAG	
Stained glass	ST GL	
Stainless	STNLS	
Stainless steel	SST	
Stainless steel pipe	SSP	
Stairs	ST	single throw; street
Standard	STD	
Standard cubic feet per minute	SCFM	
Standard cubic feet per second	SCFS	

Standard temperature and pressure	STP	
Standing seam (roof)	SS	sanitary sewer; service sink; steam supply; storm sewer
Standpipe	SP	solid plastic; sump pit
Start/stop	S/S	
Static pressure	ST PR	
Station	STAG	
Steam	STM	
Steam 150	STM 150	
Steam 450	STM 450	
Steam gage	SG	
Steam generator	ST GEN	
Steam manhole	SMH	
Steam return	STMR	
Steam supply	STMS	sanitary sewer; service sink; standing seam (roof); storm sewer
Steam working pressure	STWP	
Steel Deck Institute	SDI	Steel Door Institute
Steel Door Institute	SDI	Steel Deck Institute
Steel joist	STL JST	
Steel Joist Institute	SJI	
Steel lintel	STL LNLT	
Steel plate	STL PL	
Steel roof deck	STL RF DK	
Steel truss	STL TR	
Steel tube	STL TB	
Steel Window Institute	SWI	
Stepping	STPG	
Stiffener	STIF	
Stirrup	STIR	
Storage	STOR	
Storeroom	STRM	
Storm drain	SD	shop drawings; smoke detector; smoke dispenser; supply duct
Storm drain manhole	SDMH	
Storm sewer	SS	sanitary sewer; service sink; standing seam (roof); steam supply
Storm water	ST W	
Straight	STR	strike; stringers
Strainer	STNLS	
Street	ST	single throw; stairs
Strike	STR	straight; stringers
Stringers	STR	straight; strike
Strobe	STRB	
Strobe/horn	STRB/HRN	
Structural	STRUCT	
Structural clay tile	SCT	
Structural engineer	SE	

Structural steel	STRUCT STL	
Stucco	-----	
Styrene butadiene styrene	SBS	
Subfloor	SUB FL	
Subparagraph	SUBPAR	
Subsoil drain	SSD	
Substitute	SUB	
Substrate	SBSTR	
Suction	SUCT	
Sufficient	SUF	
Summary	SUM	
Sump pit	SP	solid plastic; standpipe
Sump pump	SMP	
Sump tank	SUTK	
Supervisor	SUPVR	
Supplement	SUPPL	
Supplementary	SUP	
Supply	SPLY	
Supply air	SA	single acting (door)
Supply air grille	SAG	
Supply duct	SD	shop drawings; smoke detector; soap dispenser; storm drain
Supply fan	SF	safety factor; square foot (feet)
Support	SPRT	
Suppression	SUPN	
Surface	SURF	
Surfaced four sides	S4S	
Surfaced one side	S1S	
Surfaced two sides	S2S	
Surround	SURR	
Surveillance camera	SURV CAM	
Surveillance equipment	SURV EQUIP	
Surveillance monitor	SURV MON	
Survey	SURV	
Suspend	SUSP	
Suspended acoustical plaster ceiling	SAPC	
Suspended acoustical tile	SAT	saturate
Suspended acoustical tile ceiling	SATC	
Suspended ceiling	SUSP CLG	
Suspended plaster ceiling	SPC	
Suspended unit heater	SUH	
Swing door	SWDR	
Switch	SW	sidewalk
Switchboard	SWBD	
Switchgear	SWGR	
Symbol	SYM	
Symmetrical	SYMM	
Synthetic	SYNTH	

System	SYS	
T		
Table of content	TOC	top of concrete; top of curb
Tabulate	TAB	
Tackboard	TK BD	
Tangent	TAN	
Tar	-----	
Technical	TECH	
Telephone	TEL	
Telephone control panel	TCP	temperature control panel; traffic control plan
Telephone equipment room	TER	terrazzo
Telephone floor outlet	FOUTT	
Telephone jack	TEL JK	
Telephone outlet	TEL OUT	
Telephone pole	TP	total pressure; twisted pair
Telephone terminal board	TTB	
Television	TV	
Television outlet	TVOUT	
Temperature	TEMP	temporary
Temperature and pressure valve	T&P VALVE	
Temperature control panel	TCP	telephone control panel; traffic control plan
Temperature control valve	TCV	
Temperature difference	TD	towel dispenser; trench drain
Tempered	TMPD	
Tempered glass	TMPD GL	
Tempered hardboard	TEMP HDBD	
Temporary	TEMP	temperature
Temporary benchmark	TBM	
Tensile strength	TS	tube steel
Terminal	TERM	
Terminal unit controller	TUC	
Terra cotta	TC	
Terrazzo	TER	telephone equipment room
Test boring-xx (e.g. TB-01)	TB-xx	
Thermal	THERM	
Thermal conductance	C VALUE	
Thermal conductivity	K VALUE	
Thermal resistance	R	radius; range; riser
Thermopane	-----	
Thermostat	TSTAT	
Thickness	THK	
Thousand	K	kelvin
Thousand board feet	MBF	
Thousand Btu per hour	MBtuH	
Thousand cubic feet	MCF	
Thousand feet board measure	MBM	

Thousand foot/pounds	KIP FT	
Thousand pounds	KIP	
Thread	THD	
Threshold	THRES	
Through	THRU	
Through bolt	TB	towel bar
Throughout	THRUOUT	
Tile Council of America	TCA	
Time and materials	T&M	
To floor above	TFA	
To floor below	TFB	
Toilet (plumbing fixture)	-----	
Toilet paper dispenser	TPD	
Toilet paper holder	TPH	
Tolerance	TOL	
Tongue and groove	T&G	
Top and bottom	T&B	
Top elevation	TE	
Top of -----	TO	
Top of beam	TOB	
Top of concrete	TOC	table of content; top of curb
Top of concrete footing	TOC FTG	
Top of concrete wall	TOC WALL	
Top of curb	TOC	table of content; top of concrete
Top of finish floor	TFF	
Top of floor	TOF	top of footing; top of frame
Top of footing	TOF	top of floor; top of frame
Top of foundation	TO FDN	
Top of frame	TOF	top of floor; top of footing
Top of joist	TOJ	
Top of manhole	TMH	
Top of masonry	TOM	
Top of parapet	TOP	top of pavement
Top of pavement	TOP	top of parapet
Top of rim	TR	towel rack
Top of slab	TOS	top of steel
Top of steel	TOS	top of slab
Top of truss	TOT	
Top of wall	TOW	
Topography	TOPO	
Total dynamic head	TDH	
Total pressure	TP	telephone pole; twisted pair
Total quality management	TQM	
Towel bar	TB	through bolt
Towel dispenser	TD	temperature difference; trench drain
Towel dispenser/receptacle	TDR	
Towel rack	TR	top of rim
Towel shelf	TSH	

Tower water	TW	
Tower water return	TWR	
Tower water supply	TWS	
Traffic control plan	TCP	telephone control panel; temperature control panel
Transfer	XFER	
Transfer grille	TG	
Transformer	XFMR	
Transom	TRANS	transparent
Transparent	TRANS	transom
Transparent wood finish	TRANS WD FIN	
Transverse expansion joint	TEJ	
Tread	T	
Treated	TRTD	
Treated water return	TWR	
Treated water supply	TWS	
Trench drain	TD	temperature difference; towel dispenser
True north	TN	
Tub/shower	T/S	
Tube steel	TS	tensile strength
Tunnel	TNL	
Turnbuckle	TRNBKL	
Turnpike	TNPK	
Twindow	-----	
Twist lock	TL	
Twisted pair	TP	telephone pole; total pressure
Twisted pair shielded	TPS	
Typical	TYP	
U		
Ultimate	ULT	
Ultraviolet	UV	
Undercut	UC	
Undercut door	UCD	
Underfloor duct	UFD	
Underground	UGND	
Underwriters Laboratories	UL	
Unexcavated	UNEX	
Unfinish	UNFIN	
Uniform	UNIF	
Uniform Building Code	UBC	
Uniform Fire Code	UFC	
Uniform Mechanical Code	UMC	
Uniform Plumbing Code	UPC	
Uninterruptible power supply	UPS	
Unit heater	UH	
Unit of sound level	dBA	

Unit weight	UWT	
Universal	UNIV	
Unless noted	UN	
Unless noted otherwise	UNO	
Unless otherwise noted	UON	
Unpaved road	UNPV RD	
Untwisted pair	UTP	
Urinal	UR	
Utility	URTIL	
Utility pole	UP	
V		
V joint	VJ	
Vacuum	VAC	vacuum line
Vacuum breaker	VB	valve box; vinyl base
Vacuum cleaner outlet	VCO	
Vacuum line	VAC	vacuum
Vacuum pump	VP	vanishing point; vapor pressure; velocity pressure; veneer plaster
Vacuum return pump	VRP	
Valve box	VB	vacuum breaker; vinyl base
Vanishing point	VP	vacuum pump; vapor pressure; velocity pressure; veneer plaster
Vanity	VAN	
Vapor barrier	-----	
Vapor pressure	VP	vacuum pump; vanishing point; velocity pressure; veneer plaster
Vapor proof	VAP PRF	
Vapor retarder	VRP	voltage regulator
Variable air volume box	VAV	
Variable air volume box w/reheat	VAVR	
Variable frequency	VF	
Variable frequency drive	VFD	
Variation	VAR	varies; volt ampere reactive
Varies	VAR	variation; volt ampere reactive
Vehicle	VEH	
Velocity	VEL	
Velocity pressure	VP	vacuum pump; vanishing point; vapor pressure; veneer plaster
Veneer	VNR	
Veneer plaster	VP	vacuum pump; vanishing point; vapor pressure; velocity pressure
Vent stack	VS	voltmeter switch
Vent through roof	VTR	
Ventilation	VENT	ventilator
Ventilator	VENT	ventilation
Veranda	VRNDA	
Verify	VRFY	

Verify in field	VIF	
Vertical	VERT	
Vertical curve	VC	
Vertical grain	VG	
Vertical unit heater	VUH	
Very high frequency	VHF	
Very high output	VHO	
Vestibule	VEST	
Vibration	VIB	
Vicinity	VIC	
Video	VID	
Video amplifier	VIDAMP	
Video integration	VINT	
Village	VIL	
Vinyl base	VB	vacuum breaker; valve box
Vinyl composition tile	VCT	vitriified clay tile
Vinyl faced acoustical tile	VFAT	
Vinyl tile	-----	
Vinyl wall covering	VWC	
Vinyl wall fabric	VWF	
Viscosity	VISC	
Visqueen	-----	
Visual	VIS	
Vitreous	VIT	
Vitriified clay tile	VCT	vinyl composition tile
Volatile organic compound	VOC	
Volt	V	
Volt ampere	VA	
Volt ampere reactive	VAR	variation; varies
Voltage	VOLT	
Voltage drop	VD	volume damper
Voltage regulator	VR	vapor retarder
Voltage relay	VRLY	
Volt-ammeter	VAM	
Voltmeter switch	VS	vent stack
Volume	VOL	
Volume damper	VFR	voltage drop
Volumeric flow rate	-----	
W		
Wainscot	WSCT	
Wall ash urn	WAU	
Wall board	-----	
Wall cabinets	W CAB	
Wall cleanout	WCO	
Wall covering	WC	water closet; water column
Wall fabric	WFAB	
Wall hung	WH	wall hydrant; water heater; weep hole

Wall hydrant	WH	wall hung; water heater; weep hole
Wall to wall	W/W	
Warehouse	WHSE	
Warm white	WW	wastewater; wireway
Warm white deluxe	WWX	
Warnock Hershey International	-----	
Warranty	WARR	
Wash fountain	WF	wide flange
Waste	W	watt; west; wide
Waste disposer	WDSP	
Waste water	WW	warm white; wireway
Water	WTR	
Water brine	WTR B	
Water chiller	WCHR	
Water city	WTR C	
Water closet	WC	wall covering; water column
Water closet, wall hung	WC WL HNG	
Water column	WC	wall covering; water closet
Water cooled	WCLD	
Water cooler	WCLR	
Water cooler, wall hung	WCL WL MTD	
Water cooling tower		
Water elevation	WT EL	
Water gage	WG	
Water hammer arrestor	WHA	
Water heater	WH	wall hung; wall hydrant; weep hole
Water jacket	WJ	
Water line	WL	wind load
Water meter	WM	wire mesh
Water pressure drop	WPD	
Water pump	WP	waterproofing; weatherproof; working point weather resistant; wire rope
Water repellent	WR	watertight; weight
Water table	WT	
Waterproof membrane	WPM	
Waterproofing	WP	water pump; weatherproof; working point
Watertight	WT	water table; weight
Watt	W	waste; west; wide
Watthour meter	WHM	
Weather	WEA	
Weather resistant	WR	water repellent; wire rope
Weather seal	WSL	
Weatherproof	WP	water pump; waterproofing; working point
Weatherstrip	WS	
Weep hole	WH	wall hung; wall hydrant; water heater
Weight	WT	water table; watertight
Welded	WLD	
Welded wire fabric	WWF	

Welded wire mesh	WWM	
West	W	waste; watt; wide
Wet bulb	WB	wood base
Wet bulb temperature	WBT	
Where occurs	WO	work order
Wide	W	waste; watt; west
Wide flange	WF	wash fountain
Wind load	WL	water line
Window	WDW	
Window and Door Manufacturers Association	WDMA	
Window unit	WU	
Wire glass	-----	
Wire mesh	WM	water meter
Wire rope	WR	water repellent; weather resistant
Wired glass	WGL	
Wireway	WW	warm white; waste water
With	W/	
Without	W/O	
Wood	WD	wood door
Wood base	WB	wet bulb
Wood blocking	WBL	
Wood door	WD	wood
Wood door and frame	WDF	
Wood frame	WFR	
Wood furring strips	WFS	
Wood louvers	WD LOUV	
Wood paneling	WDP	
Work order	WO	where occurs
Working point	WP	water pump; waterproofing; weatherproof
Working pressure	WPR	
Working steam pressure	WSP	
Wrought brass	WBS	
Wrought iron	WI	
Y		
Yard	YD	yard drain; yard drainage pipe
Yard cleanout	YCO	
Yard drain	YD	yard; yard drainage pipe
Yard drainage pipe	YD	yard; yard drain
Yard hydrant	YH	
Yard inlet	YI	
Year	YR	

APPENDIX B

Central Michigan University Civil Drawing Information Matrix

	CX01-09	CX11-19	CX21-29	CX31-39	CX41-49	CX51-59	CX61-69
C000s	Cover Sheet/Notes	→					
C100s	Existing Conditions	Demolition Plan	→				
C200s	Site Plan	Site Utility Plan	Soil Erosion Plan	→			
C300s	Geometric Plan	→					
C400s	Grading Plan	→					
C500s	Water Main Plan and Profile	Water Main Details	→				
C600s	Sanitary Sewer Plan and Profile	Sanitary Sewer Details	→				
C700s	Storm Sewer Plan and Profile	Storm Sewer Details	→				
C800s	Site Details	→					
C900s	Road Plan and Profile	→					

APPENDIX B

Central Michigan University Architectural Drawing Information Matrix

	AX01-09	AX11-19	AX21-29	AX31-39	AX41-49	AX51-59	AX61-69
A000s	Abb. Conventions Typical Mtg Hts	Code compliance information	Composite Plans (if needed)	Room Finish information	Door Info (Sched / Details)	Wall / Partition information	
AS00s	Architectural Site Plan						
AD00s	Architectural Demo Basement	Architectural Demo 1st Level	Architectural Demo 2nd Level	Architectural Demo 3rd Level	→		
A100s	Floor Plans Basement	Floor Plans 1st Level	Floor Plans 2nd Level	Floor Plans 3rd Level	→	Roof Plan	
A200s	Exterior Elevations	Useful Building Sections					
A300s	Interior General Information	First Floor Interior Elevations	Second Floor Interior Elevations	Third Floor Interior Elevations	Fourth Floor Interior Elevations	Interior sections	Interior Plan Details
A400s	Toilet Rooms - All floors	Enlarged Stairs and elevators					
A500s	Exterior General Information	Exterior Wall Sections	Exterior Section Details	Exterior Plan Details			
A600s	Ceiling Plans Basement	Ceiling Plans 1st Level	Ceiling Plans 2nd Level	Ceiling Plans 3rd Level	→	Ceiling Details	
A700s	FF&E Plan Basement	FF&E Plan 1st Level	FF&E Plan 2nd Level	FF&E Plan 3rdLevel	→		
A800s	Reserved						
A900s	Reserved						

APPENDIX B

Central Michigan University Structural Drawing Information Matrix

	SX01-09	SX11-19	SX21-29	SX31-39	SX41-49	SX51-59	SX61-69
S000s	General Notes	General Notes					
S100s	Floor Plans Basement	Floor Plans 1st Level	Floor Plans 2nd Level	Floor Plans 3rd Level	→	Roof Plan	
S200s	Details	Details					
S300s	Framing Details	Framing Details	Framing Details	Framing Details	→	Framing Details	
S500s	Reserved						
S600s	Reserved						
S700s	Reserved						
S800s	Reserved						
S900s	Reserved						

APPENDIX B

Central Michigan University Electrical Drawing Information Matrix

	EX01-09	EX11-19	EX21-29	EX31-39	EX41-49	EX51-59	EX61-69
E000s	Abbv. Conventions Typical Mtg Hts	Code compliance information	Composite Plans (if needed)				
ES00s	Electrical Site Plan						
ED00s	Electrical Demo Basement	Electrical Demo 1st Level	Electrical Demo 2nd Level	Electrical Demo 3rd Level	→		
E100s	Lighting Plans Basement	Lighting Plans 1st Level	Lighting Plans 2nd Level	Lighting Plans 3rd Level	→		
E200s	Power & Signal Plans Basement	Power & Signal Plans 1st Level	Power & Signal Plans 2nd Level	Power & Signal Plans 3rd Level	→		
E300s	Reserved						
E400s	Enlarged Plans	Enlarged Plans					
E500s	Electrical 1-Line	Fire Alarm 1-Line Riser Diagram					
E600s	Lighting Fixture Schedule	Lighting Fixture Schedule					
E700s	Reserved						
E800s	Reserved						
E900s	Reserved						

APPENDIX B

Central Michigan University Mechanical Drawing Information Matrix

	MX01-09	MX11-19	MX21-29	MX31-39	MX41-49	MX51-59	MX61-69
M000s	Legends	Schedules	Schedules				
MD00s	Mechanical Demo Basement	Mechanical Demo 1st Level	Mechanical Demo 2nd Level	Mechanical Demo 3rd Level	→		
M100s	Floor Plans Basement	Floor Plans 1st Level	Floor Plans 2nd Level	Floor Plans 3rd Level	→	Roof/Penthouse	
M200s	Reserved						
M300s	Enlarged Plans	Elevations					
M400s	Reserved						
M500s	Air Handlers	Steam & Condensate	Domestic Water				
M600s	Ductwork Details	HVAC Piping Details	HVAC Equipment Details				
M700s	Controls						
M800s	Reserved						
M900s	Reserved						

APPENDIX B

Central Michigan University Plumbing Drawing Information Matrix

	PX01-09	PX11-19	PX21-29	PX31-39	PX41-49	PX51-59	PX61-69
P000s	Abbv. Conventions Typical Mtg Hts	Legend	Notes	Schedules			
PS00s	Plumbing Site Plan						
PD00s	Plumbing Demo Basement	Plumbing Demo 1st Level	Plumbing Demo 2nd Level	Plumbing Demo 3rd Level	→		
P100s	Floor Plans Basement	Floor Plans 1st Level	Floor Plans 2nd Level	Floor Plans 3rd Level	→		
P200s	Reserved						
P300s	Reserved						
P400s	Reserved						
P500s	Piping Diagrams						
P600s	Reserved						
P700s	Reserved						
P800s	Reserved						
P900s	Reserved						