

Chatham-Kent CADD Standards & Delivery INFOsheet

The Municipality of Chatham-Kent has initiated the development of a sustainable CADD standard. The purpose of this standard is to achieve accurate and high quality engineering drawings in a manner that is consistent, efficient and will easily evolve with technology and municipal infrastructure trends.

This INFOsheet, in conjunction with the supporting CAD files, are intended to provide the designers with the essential information needed to setup their drawings and design files and progress them through the design, tender and record drawing process.

File Format

Interim submissions prior to and including the “Issued for Construction” set shall be adobe acrobat (.pdf) and full size hard copies*.

“Record Drawing” submissions are to include an adobe acrobat (.pdf), full size hard copies* and the following AutoCAD files (.dwg) with references bound into the file:

- New Construction Plan and Profiles
- Site Servicing, Grading, SWM Pond Plans, etc. (if applicable)
- Typical Sections
- Storm and Sanitary Drainage Plans and Design Sheets

*The number of hard copies is at the discretion of Chatham-Kent’s project manager. *Contact [Chatham-Kent for required year version of .dwg](#)

Zone/Units/Scale

All Chatham-Kent construction projects are to be coordinated in Universal Transverse Mercator NAD 83 (CSRS) zone 17.

Drawing units are in meters unless noted otherwise and dimensions can be expressed to two decimals unless the designer deems it appropriate to go to three.

Plans are to be shown at 1:250 with the exception of key plans, site plans, drainage area plans, etc. Profiles shall be 1:50 or maintain a vertical exaggeration of five for horizontal scales other than 1:250. It is suggested that typical road sections be shown at 1:50 with no vertical exaggeration.

Supporting Files

Included with this package is an autocad template file with layers, text and dimension styles as well as block symbology to aid designers in producing consistent drawings. Publishing of the drawings to PDF for hard copy production is encouraged as the pen and colour controls are set within the layer format. Please avoid the use of custom linetypes, fonts, patterns, etc. that do not install with AutoCAD by default.

Questions/Feedback

Please contact CADD@chatham-kent.ca with questions and comments related to CADD standards.

Chatham-Kent CADD Layer Index

Name	Color	Linetype	Lineweight (mm)	Plotting Color	Plot	Description
ALIGN	red	CENTER2	0.3	7	YES	Alignment: Horizontal Alignment
ALIGN-TEXT	red	Continuous	0.25	7	YES	Alignment: Annotation
BARR	blue	Continuous	0.3	7	YES	Barrier & Fencing
BARR-TEXT	blue	Continuous	0.25	7	YES	Barrier & Fencing: Annotation
BRDG-ABUT	green	Continuous	0.3	7	YES	Bridge: Abutment
BRDG-APPR	cyan	Continuous	0.3	7	YES	Bridge: Approach Slab
BRDG-BARR	cyan	Continuous	0.3	7	YES	Bridge: Barrier and Parapet Wall
BRDG-BRAC	yellow	Continuous	0.2	7	YES	Bridge: Bracing
BRDG-BRNG	red	Continuous	0.2	7	YES	Bridge: Bearing Seat & Components
BRDG-CABL	blue	Continuous	0.4	7	YES	Bridge: Cable
BRDG-DD	cyan	Continuous	0.3	7	YES	Bridge: Deck Drain
BRDG-DECK	yellow	Continuous	0.3	7	YES	Bridge: Deck
BRDG-DIM	white	Continuous	0.25	7	YES	Bridge: Dimensions
BRDG-GIRD	red	Continuous	0.2	7	YES	Bridge: Girder
BRDG-PIER	green	Continuous	0.3	7	YES	Bridge: Pier
BRDG-RAIL	green	Continuous	0.2	7	YES	Bridge: Railing
BRDG-REIN	magenta	Continuous	0.6	7	YES	Bridge: Reinforcing Steel
BRDG-STGR	yellow	Continuous	0.2	7	YES	Bridge: Stringer
BRDG-TEXT	white	Continuous	0.25	7	YES	Bridge: Annotation
BRDG-TRUS	red	Continuous	0.3	7	YES	Bridge: Truss
COMM	190	Continuous	0.3	7	YES	Communication: Infrastructure
COMM-TEXT	190	Continuous	0.25	7	YES	Communication: Annotation
CONT-MAJR	32	Continuous	0.25	7	YES	Contours: Major
CONT-MINR	43	Continuous	0.15	252	YES	Contours: Minor
CONT-TEXT	32	Continuous	0.25	7	YES	Contours: Annotation
DRIV	yellow	Continuous	0.3	7	YES	Private Entrances & Parking Lots
DRIV-TEXT	yellow	Continuous	0.25	7	YES	Private Entrances & Parking Lots: Annotation
ELEC	20	Continuous	0.3	20	YES	Electrical: Infrastructure
ELEC-TEXT	20	Continuous	0.25	20	YES	Electrical: Annotation
GAS	40	Continuous	0.3	40	YES	Gas: Infrastructure
GAS-TEXT	40	Continuous	0.25	40	YES	Gas: Annotation
GEN-CL	red	CENTER2	0.25	7	YES	General: Centerline
GEN-DIM	white	Continuous	0.25	7	YES	General: Dimensions
GEN-GRID	252	Continuous	0.15	252	YES	General: Profile & Section Grid lines
GEN-NPLT	white	Continuous	Default	7	NO	General: No Plot/Construction Lines
GEN-PATT	red	Continuous	0.2	7	YES	General: Hatch Patterns
GEN-REF	white	Continuous	Default	7	YES	General: Reference Drawing, Image, PDF, etc.
GEN-SYMB	white	Continuous	0.4	7	YES	General: North Arrows, Callouts, etc.
GEN-TABL	magenta	Continuous	0.4	7	YES	General: Table, Profile and Section Borders
GEN-TBLK	white	Continuous	0.5	7	YES	General: Titleblock
GEN-TEXT	white	Continuous	0.25	7	YES	General: Annotation
PMK-PATT	yellow	Continuous	0.2	7	YES	Pavement Marking: Hatch Patterns (incl. Bike, Bus, and HOV lanes)
PMK-SIGN	white	Continuous	0.3	7	YES	Pavement Marking: Sign
PMK-TEXT	white	Continuous	0.25	7	YES	Pavement Marking: Annotation
PMK-WHIT	white	Continuous	0.4	7	YES	Pavement Marking: White
PMK-YELL	yellow	Continuous	0.4	7	YES	Pavement Marking: Yellow
PROF	cyan	Continuous	0.4	7	YES	Profile: Design
PROF-LEFT	green	HIDDEN	0.3	7	YES	Profile: Left Offset (incl. ditching)
PROF-PATT	cyan	Continuous	0.2	7	YES	Profile: Hatch Patterns
PROF-RGHT	red	PHANTOM2	0.3	7	YES	Profile: Right Offset (incl. ditching)
PROF-TEXT	white	Continuous	0.25	7	YES	Profile: Annotation
PROP-EASE	white	Continuous	0.3	7	YES	Property: Easement
PROP-LOT	magenta	Continuous	0.3	7	YES	Property: Lot Lines
PROP-PATT	red	Continuous	0.2	7	YES	Property: Hatch Patterns
PROP-ROW	magenta	PHANTOM2	0.3	7	YES	Property: Right of Way
PROP-TEMP	magenta	HIDDEN	0.3	7	YES	Property: Temporary Aquired
PROP-TEXT	magenta	Continuous	0.25	7	YES	Property: Annotation
ROAD-ASPH	yellow	Continuous	0.4	7	YES	Roadway: Asphalt
ROAD-CONC	cyan	Continuous	0.4	7	YES	Roadway: Concrete
ROAD-CURB	green	Continuous	0.4	7	YES	Roadway: Curb
ROAD-CUT	red	Continuous	0.3	7	YES	Roadway: Grading Cut Lines
ROAD-DIM	white	Continuous	0.25	7	YES	Roadway: Dimensions
ROAD-FILL	green	HIDDEN	0.3	7	YES	Roadway: Grading Fill Lines
ROAD-GRAV	yellow	DASHED	0.4	7	YES	Roadway: Gravel
ROAD-PATT	251	Continuous	0.2	7	YES	Roadway: Hatch Patterns
ROAD-TEXT	white	Continuous	0.25	7	YES	Roadway: Annotation
SANI-PATT	10	Continuous	0.2	10	YES	Sanitary: Hatch Patterns
SANI-PIPE	10	Continuous	0.4	10	YES	Sanitary: Piping
SANI-SERV	10	Continuous	0.25	10	YES	Sanitary: Private Service Line
SANI-STRC	10	Continuous	0.4	10	YES	Sanitary: Structures (incl. Maintenance Holes, Chambers, etc.)
SANI-TEXT	10	Continuous	0.25	10	YES	Sanitary: Annotation
SECT	green	Continuous	0.3	7	YES	Sections & Details: Proposed
SECT-PATT	yellow	Continuous	0.2	7	YES	Sections & Details: Hatch Patterns
SECT-TEXT	white	Continuous	0.25	7	YES	Sections & Details: Annotation

Name	Color	Linetype	Lineweight (mm)	Plotting Color	Plot	Description
SITE-ASPH	yellow	Continuous	0.3	7	YES	Site: Asphalt
SITE-BLDG	magenta	Continuous	0.3	7	YES	Site: Building
SITE-BSLP	green	DASHED2	0.3	7	YES	Site: Bottom of Slope
SITE-CONC	green	Continuous	0.3	7	YES	Site: Concrete
SITE-CTRE	104	Continuous	0.2	7	YES	Site: Coniferous Tree
SITE-DTRE	104	Continuous	0.2	7	YES	Site: Deciduous Tree
SITE-ELEV	white	Continuous	0.3	7	YES	Site: Elevation
SITE-EW	blue	Continuous	0.3	7	YES	Site: Edge of Water
SITE-FURN	cyan	Continuous	0.3	7	YES	Site: Furniture (Benches, Mailboxes, Bike Racks, etc.)
SITE-GARD	104	Continuous	0.2	7	YES	Site: Garden
SITE-GRAV	yellow	DASHED	0.3	7	YES	Site: Gravel
SITE-PATT	red	Continuous	0.2	7	YES	Site: Hatch Patterns
SITE-RW	magenta	Continuous	0.3	7	YES	Site: Retaining Wall
SITE-SIGN	white	Continuous	0.3	7	YES	Site: Sign
SITE-TEXT	white	Continuous	0.25	7	YES	Site: Annotation
SITE-TSLP	red	Continuous	0.3	7	YES	Site: Top of Slope
STRM-CB	90	Continuous	0.4	90	YES	Storm: Catch Basin (incl. Ditch Inlets)
STRM-CULV	90	Continuous	0.4	90	YES	Storm: Culvert
STRM-DTCH	82	CENTER2	0.3	7	YES	Storm: Ditching/Swale
STRM-PATT	90	Continuous	0.2	90	YES	Storm: Hatch Patterns
STRM-PIPE	90	DASHED	0.4	90	YES	Storm: Piping
STRM-RIP	90	Continuous	0.2	90	YES	Storm: Rip Rap
STRM-SERV	90	DASHED	0.25	90	YES	Storm: Private Service Line
STRM-STRC	90	Continuous	0.4	90	YES	Storm: Structures (incl. Maintenance Holes, Chambers, Headwalls, Oil-Grit Separators, Check Dams etc.)
STRM-TEXT	90	Continuous	0.25	90	YES	Storm: Annotation
SURV-BL	magenta	DASHED2	0.3	7	NO	Survey: Breakline
SURV-BM	white	Continuous	0.3	7	YES	Survey: Benchmark
SURV-CTRL	white	Continuous	0.3	7	YES	Survey: Control Points & Information
SURV-PT	white	Continuous	0.3	7	YES	Survey: Stakeout Point
SURV-PTIN	white	Continuous	0.3	7	YES	Survey: Stakeout Point Information
SURV-TEXT	white	Continuous	0.25	7	YES	Survey: Annotation
SWLK	cyan	Continuous	0.4	7	YES	Sidewalk
WATR-CTRL	160	Continuous	0.4	160	YES	Water: Valves, Hydrants, Blow-offs, Chambers, etc.
WATR-PATT	160	Continuous	0.2	160	YES	Water: Hatch Patterns
WATR-PIPE	160	ACAD_ISO14W100	0.4	160	YES	Water: Piping
WATR-SERV	160	ACAD_ISO14W100	0.25	160	YES	Water: Private Service Line
WATR-STRC	160	Continuous	0.4	160	YES	Water: Chambers, etc.
WATR-TEXT	160	Continuous	0.25	160	YES	Water: Annotation
X-ALIGN	13	Continuous	0.15	252	YES	Alignment: Existing Horizontal Alignment
X-ALIGN-TEXT	13	Continuous	0.15	252	YES	Alignment: Existing Annotation
X-BARR	153	Continuous	0.15	252	YES	Barrier & Fencing: Existing
X-BARR-TEXT	153	Continuous	0.15	252	YES	Barrier & Fencing: Existing Annotation
X-BRDG-ABUT	73	Continuous	0.15	252	YES	Bridge: Existing Abutment
X-BRDG-BARR	113	Continuous	0.15	252	YES	Bridge: Existing Barrier and Parapet Wall
X-BRDG-BRAC	53	Continuous	0.15	252	YES	Bridge: Existing Bracing
X-BRDG-BRNG	13	Continuous	0.15	252	YES	Bridge: Existing Bearing Seat & Components
X-BRDG-CABL	153	Continuous	0.15	252	YES	Bridge: Existing Cable
X-BRDG-DD	113	Continuous	0.15	252	YES	Bridge: Existing Deck Drain
X-BRDG-DECK	53	Continuous	0.15	252	YES	Bridge: Existing Deck
X-BRDG-APPR	113	Continuous	0.15	252	YES	Bridge: Existing Approach Slab
X-BRDG-GIRD	13	Continuous	0.15	252	YES	Bridge: Existing Girder
X-BRDG-PIER	73	Continuous	0.15	252	YES	Bridge: Existing Pier
X-BRDG-RAIL	73	Continuous	0.15	252	YES	Bridge: Existing Railing
X-BRDG-REIN	233	Continuous	0.15	252	YES	Bridge: Existing Reinforcing Steel
X-BRDG-STGR	53	Continuous	0.15	252	YES	Bridge: Existing Stringer
X-BRDG-TEXT	252	Continuous	0.15	252	YES	Bridge: Existing Annotation
X-BRDG-TRUS	13	Continuous	0.15	252	YES	Bridge: Existing Truss
X-COMM	190	Continuous	0.15	190	YES	Communication: Existing Infrastructure
X-COMM-TEXT	190	Continuous	0.15	190	YES	Communication: Existing Annotation
X-CONT-MAJR	33	Continuous	0.25	252	YES	Contours: Existing Major
X-CONT-MINR	251	Continuous	0.15	252	YES	Contours: Existing Minor
X-CONT-TEXT	33	Continuous	0.25	252	YES	Contours: Existing Annotation
X-DRIV	53	Continuous	0.15	252	YES	Private Entrances & Parking Lots: Existing
X-DRIV-TEXT	53	Continuous	0.15	252	YES	Private Entrances & Parking Lots: Existing Annotation
X-ELEC	20	Continuous	0.15	20	YES	Electrical: Existing Infrastructure
X-ELEC-TEXT	20	Continuous	0.15	20	YES	Electrical: Existing Annotation
X-GAS	40	Continuous	0.15	40	YES	Gas: Existing Infrastructure
X-GAS-TEXT	40	Continuous	0.15	40	YES	Gas: Existing Annotation
X-PMK-SIGN	253	Continuous	0.15	252	YES	Pavement Marking: Existing Sign
X-PMK-TEXT	252	Continuous	0.15	252	YES	Pavement Marking: Existing Annotation
X-PMK-WHIT	253	Continuous	0.15	252	YES	Pavement Marking: Existing White
X-PMK-YELL	53	Continuous	0.15	252	YES	Pavement Marking: Existing Yellow
X-PROF	113	DASHED	0.15	252	YES	Profile: Existing Surface
X-PROF-LEFT	73	HIDDEN	0.15	252	YES	Profile: Existing Left Offset (incl. ditching)
X-PROF-RGHT	13	PHANTOM2	0.15	252	YES	Profile: Existing Right Offset (incl. ditching)
X-PROF-TEXT	113	Continuous	0.15	252	YES	Profile: Existing Annotation

Name	Color	Linetype	Lineweight (mm)	Plotting Color	Plot	Description
X-PROP-EASE	white	Continuous	0.15	7	YES	Property: Existing Easement
X-PROP-LOT	white	Continuous	0.15	7	YES	Property: Existing Lot Lines
X-PROP-ROW	white	PHANTOM2	0.15	7	YES	Property: Existing Right of Way
X-PROP-TEXT	white	Continuous	0.15	7	YES	Property: Existing Annotation
X-ROAD-ASPH	53	Continuous	0.15	252	YES	Roadway: Existing Asphalt
X-ROAD-CONC	53	Continuous	0.15	252	YES	Roadway: Existing Concrete
X-ROAD-CURB	53	Continuous	0.15	252	YES	Roadway: Existing Curb
X-ROAD-GRAV	53	DASHED	0.15	252	YES	Roadway: Existing Gravel
X-ROAD-TEXT	53	Continuous	0.15	252	YES	Roadway: Existing Annotation
X-SANI-PIPE	10	Continuous	0.15	10	YES	Sanitary: Existing Piping
X-SANI-SERV	10	Continuous	0.15	10	YES	Sanitary: Existing Private Service Line
X-SANI-STRC	10	Continuous	0.15	10	YES	Sanitary: Existing Structures (incl. Maintenance Holes, Chambers, etc.)
X-SANI-TEXT	10	Continuous	0.15	10	YES	Sanitary: Existing Annotation
X-SECT	red	Continuous	0.15	252	YES	Sections & Details: Existing
X-SECT-TEXT	13	Continuous	0.15	252	YES	Sections & Details: Existing Annotation
X-SITE-ASPH	53	Continuous	0.15	252	YES	Site: Existing Asphalt
X-SITE-BLDG	233	Continuous	0.15	252	YES	Site: Existing Building
X-SITE-BSLP	73	DASHED2	0.15	252	YES	Site: Existing Bottom of Slope
X-SITE-BUSH	73	Continuous	0.15	252	YES	Site: Existing Bushline (5mm Rev Cloud)
X-SITE-CONC	73	Continuous	0.15	252	YES	Site: Existing Concrete
X-SITE-CTRE	73	Continuous	0.15	252	YES	Site: Existing Coniferous Tree
X-SITE-DTRE	73	Continuous	0.15	252	YES	Site: Existing Deciduous Tree
X-SITE-ELEV	253	Continuous	0.15	252	YES	Site: Existing Elevation
X-SITE-EW	153	Continuous	0.15	252	YES	Site: Existing Edge of Water
X-SITE-FURN	113	Continuous	0.15	252	YES	Site: Furniture (Benches, Mailboxes, Bike Racks, etc.)
X-SITE-GARD	73	Continuous	0.15	252	YES	Site: Existing Garden
X-SITE-GRAV	53	DASHED	0.15	252	YES	Site: Existing Gravel
X-SITE-HEDG	73	Continuous	0.15	252	YES	Site: Existing Hedge (5mm Rev Cloud)
X-SITE-RW	233	Continuous	0.15	252	YES	Site: Existing Retaining Wall
X-SITE-SIGN	253	Continuous	0.15	252	YES	Site: Existing Sign
X-SITE-TEXT	253	Continuous	0.15	252	YES	Site: Existing Annotation
X-SITE-TSLP	13	Continuous	0.15	252	YES	Site: Existing Top of Slope
X-STRM-CB	90	Continuous	0.15	90	YES	Storm: Existing Catch Basin (incl. Ditch Inlets)
X-STRM-CULV	90	Continuous	0.15	90	YES	Storm: Existing Culvert
X-STRM-DTCH	73	CENTER2	0.15	252	YES	Storm: Existing Ditching/Swale
X-STRM-PIPE	90	DASHED	0.15	90	YES	Storm: Existing Piping
X-STRM-RIP	90	Continuous	0.15	90	YES	Storm: Existing Rip Rap
X-STRM-SERV	90	DASHED	0.15	90	YES	Storm: Existing Private Service Line
X-STRM-STRC	90	Continuous	0.15	90	YES	Storm: Existing Structures (incl. Maintenance Holes, Chambers, Headwalls, Oil-Grit Separators, Check Dams etc.)
X-STRM-TEXT	90	Continuous	0.15	90	YES	Storm: Existing Annotation
X-SURV-PT	253	Continuous	0.15	252	YES	Survey: Existing Point
X-SURV-PTIN	253	Continuous	0.15	252	YES	Survey: Existing Point Information
X-SURV-TEXT	253	Continuous	0.15	252	YES	Survey: Existing Annotation
X-SWLK	113	Continuous	0.15	252	YES	Sidewalk: Existing
X-WATR-CTRL	160	Continuous	0.15	160	YES	Water: Existing Valves, Hydrants, Blow-offs, etc.
X-WATR-PIPE	160	ACAD_ISO14W100	0.15	160	YES	Water: Existing Piping
X-WATR-SERV	160	ACAD_ISO14W100	0.15	160	YES	Water: Existing Private Service Line
X-WATR-STRC	160	Continuous	0.15	160	YES	Water: Existing Chambers, etc.
X-WATR-TEXT	160	Continuous	0.15	160	YES	Water: Existing Annotation