14th ERRATA

For the electronic updating of the

CADD Users Manual

October 23rd, 2017

Chapter 2.1 Drawing Types and Codes:

Page 4 The drawing name for plan sheet ID SC is changed from Stage Construction to Stage Construction Plan.

Page 7 The print sequence codes for Landscape Layout Plan, Landscape Details and Landscape Quantities are changed to sj, sk and sl, respectively. The plan sheet ID for Planting Details is changed from PD to PLD.

The drawing name Electrical Systems Plan is removed because the name is the bid item description for the individual drawing.

Traffic Control Systems and New Standard Plan are removed from the print sequence code.

Page 8 Vendor Drawings is added as print sequence code vb.

There is edited verbiage throughout the narrative for clarity.

Chapter 2.3:

Chapter 2.3, Drawing Working Units is substantially updated.

Chapter 2.6:

Chapter 2.6, Text is substantially edited for clarity.

Chapter 2.7:

Chapter 2.7, Lines is updated with current information on resource files and to deemphasize linear patterns, and is substantially edited for clarity.

Chapter 2.8:

Chapter 2.8, Color Table/Caltrans Standard Colors is updated to include revised RGB values of colors 8 – 15 and use of colors 0 – 15 as standard colors for roadway design with the Caltrans named level convention. The RGB values for colors 93 – 100 and 109 – 116 are each changed to be the same as color numbers 8 – 15 respectively. The chapter is substantially edited for clarity.

Chapter 2.9:

Chapter 2.9, is updated to document three new cell libraries developed to support the Caltrans named level convention (ctcellib_namedlevels.cel, ct_rw_namedlevels.cel and ct_topo_namedlevels.cel) and graphic cells created on the default-level, and is substantially edited for clarity.

Appendix A10:

New Appendix A10 lists the Caltrans conventional named levels in the Caltrans customized resource (dgn level library) files. The documented files are:

Ct_Alignments.dgnlib
Ct_DrainageFacilities.dgnlib
Ct_ElectricalSystem.dgnlib
Ct_EnvironmentallySensitiveArea.dgnlib
Ct_GIS_AdvPlanning.dgnlib
Ct_Landscape.dgnlib
Ct_MiscellaneousConstruction.dgnlib
Ct_ProjectPlans_BorderSheetInfo.dgnlib
Ct_Roadway.dgnlib
Ct_RW_Mapping.dgnlib
Ct_StageConstruction.dgnlib
Ct_TemporaryItemsOfWork.dgnlib
Ct_Topo-AL_BA.dgnlib
Ct_Topo-MTLS.dgnlib
Ct_Topo-PH_BA.dgnlib.dgnlib
Ct_Topo-SU.dgnlib
Ct_Torus.dgnlib
Ct_TrafficControlDevices.dgnlib
Ct_Utilities.dgnlib
Ct_Visualization.dgnlib
Ct_Walls.dgnlib
Ct_WaterPollutionControl.dgnlib

END of 14th ERRATA

13th ERRATA

For the electronic updating of the

CADD Users Manual

May 9th, 2017

Section 3.7:

The entire section was rewritten to update the roadway design deliverables and the reference to the roadway software Caltrans now uses, Civil 3D instead of CAiCE. MicroStation is still the standard drafting software for design presentation of contract information for all advertised project plans.

Appendix A4:

The line style for the version date “aa001” was changed to reflect the release date of March 2017.

There were two (2) new utility line styles created for fiber optic, “ut-fiberopt-p” and “ut-fiberopt-x.” These are to be used for showing public or private owned fiber optic. The two (2) existing line styles “tr-fiberopt-p” and tr-fiberopt-x” are only to be used for showing Caltrans owned fiber optic.

There were three (3) new roadway line styles created, “rd-ThrieBeam-p,” “rd-ThrieBeam-x” and “rd-CableRailing.”

END of 13th ERRATA (5/9/17)

12th ERRATA

For the electronic updating of the

English CADD Users Manual

October 25th, 2016

Section 2.1:

Two main changes occurred. One was creating a Plan Sheet ID and Print Sequence Code for Electrical Systems Details and Electrical Systems Quantities. The second was reusing Part C for listing the Old Naming Convention instead of Drawing Codes for Landscape projects (which are now fully listed in Part B).

There were also some minor word changes.

Page 1 Last paragraph is now under Part B.

Page 2 Minor word changes to the lead-in paragraph.

Page 3 Removed Erosion Control since it is now under the Landscape Architecture series of sheets.

Page 5 For handling the Print Sequence Code for projects with more than 26 retaining walls, the note was changed to Note 4.

Page 6 For handling the Print Sequence Code for projects with more than 26 sound walls, the note was changed to Note 4.

Page 7 Plant List is now Plant Legend. The Drawing Name for “E” sheets was renamed as Electrical Systems Plan. Electrical Systems Details “ED” and Electrical Systems Quantities “EQ” was added. Traffic Control Systems “TCS” is now obsolete.

Page 8 Under Note 2 the 1st sentence was removed.

Page 9 The paragraph preceding the wall example naming convention was made into Note 4. The Old Naming Convention was moved to Part C.

Page 10 Note 4 was changed to Note 5. The Old Naming Convention was moved to Part C. The last sentence referring to Signal, Lighting and Electrical Systems was deleted.

Page 11 Part C was changed from Drawing Codes- Landscape Projects to Old Naming Convention – Using Expenditure Authorization (EA).

Page 12 The Old Naming Convention was moved to Part C.

END of 12th ERRATA (10/25/16)

11th ERRATA

For the electronic updating of the

English CADD Users Manual

September 13th, 2016

Appendix A1:

The cell "001AAA" that reflects the release date of the cell library has been updated to August 01, 2016.

All the Title Sheet Borders (regardless of the discipline) now reflect a 2015 date for the statement "TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2015."

Pages 1 thru 19 Landscape cells:

New cell – XBPNE – for existing backflow preventer with no enclosure.

Modified cells – symbol and/or description changes:
BPA, XBPA, GARV, XGARV, XBPAE, COND, XCOND, PRV, XPRV, VAU, XVAU, WS, XWS

Deleted cells – BPAE, FAU, GLBV, IRXDEX, IRXEXT, IRXOVR, MCV, MVCB, LALGND, NLTU, NLTUE, PPIL, XGLBV, XIRXOV, XMCV, XNLTU, XPPIL

Deleted cells from Appendix A1 but pending deletion from cell library with next MicroStation update. – IRXDET, MCVB

Pages 24 thru 40 — Project Plans cells:

Deleted cells concerning notes about utility information or statements at the bottom center of a utility contract plan sheet – NOTE23, NOTE26, NOTE38, NOTE39

Pages 64 thru 90 — Traffic/Electrical cells:

New cells – for both existing and new wiring diagrams EWD15, EWD15S, EWD21, EWD21S, EWD30, EWD31, EWD32, NWD15, NWD15S, NWD21, NWD21S, NWD30, NWD31, NWD32

Modified cells – symbol correction – ET15, ECE

Deleted cells – WILEG1, WILEG2, WILEG3, WILEG4, WILEG5, WILEG6, WILEG7

Appendix A4:

There were fifteen (15) new line styles that were added for abandoned utility facilities – ut-elec-Abn, ut-gas-Abn, ut-natgas-Abn, ut-oil-Abn, ut-sewer-Abn, ut-steam-Abn, ut-stormD-Abn, ut-telecom-Abn, ut-teleph-Abn, ut-tv-Abn, ut-water-Abn, ut-fiberopt-Abn, ut-rcwater-Abn, ut-irrc-Abn, ut-esc-Abn

There were two (2) generic line styles created to identify existing irrigation conduit and traffic/electrical systems conduit – ut-irri-x, ut-esc-x

There were three (3) new irrigation line styles and three (3) existing irrigation line styles added for armor-clad conductors, copper pipe and drip irrigation tubing - ls-acc-p, ls-acc-x, ls-cp-p, ls-cp-x, ls-dit-p, ls-dit-x

In order to identify all of the ID numbers for every line style in the Caltrans line style resource file (Ctlstyle-SS3.rsc), Appendix A4 was updated to show all Obsolete, Superseded or Unused ID numbers.

END of 11th ERRATA (9/13/16)

10th ERRATA

For the electronic updating of the

English CADD Users Manual

December 31th, 2012

Section 2.1:

Major changes to the available print sequence codes for Landscape sheets (which now include the "S" series as well as the "T" series. Erosion Control sheets were moved under Landscape in the "T" series. The table under Section C was eliminated. The text referring to Landscape sheets under Section B was modified.

There were modifications to the print sequence codes for the Architectural, Structural, Electrical, Mechanical and Waste Water sheets.

There were also some minor word changes.

Page 1 In the 4th paragraph, added Project Control Sheet.

Page 2 The Plan Sheet ID for Aerial Identification was changed from "A" to "AI" so as not to conflict with architectural sheets.

Page 3 The Erosion Control sheets were moved to the "T" series under Landscape.

Page 7 A new "S" and "T" series for Landscape. The plan sheets for Booster Pumps will now fall under the respective discipline (i.e. Structural, Electrical or Mechanical). The plan sheets for Electrical Systems will now fall under the Electrical Systems plans.

Traffic Control System sheets were added with a print sequence code of "uj" for temporary use until the 2010 Standard Plans for Traffic Control Systems are updated in 2013.

The print sequence code for Log of Test Boring sheets changed from "ui" to "ul" so it falls after the Traffic Control System sheets.

With the 2010 Standards, New Standard Plans (NSPs) are now called Revised Standard Plans (RSPs). Thus the print sequence for NSPs "vb" is now obsolete.

Page 8 Revised print sequence codes for Architecture, Structural, Electrical, Mechanical and Waste Water. Notes 1 and 2 were modified.

Page 10 Note 4 was updated.

Page 11 The text before the table was modified. The Table was eliminated as there is now only one print sequence for Landscape sheets (regardless if it is a highway construction project with some landscaping plan sheets or a landscape project only).

END of 10th ERRATA (12/31/12)

9th ERRATA

For the electronic updating of the

English CADD Users Manual

October 25th, 2012

Section 3.2:

Corrected the page numbers.

Section 5.3:

Pages 2 thru 4 Minor corrections to some of the "Terms and Definitions". Added Terms and Definitions for "Export to PDF", "Dropout", "Grayscale" and "Masking."

Section 5.7:

Page 8 Changed the resolution from 400 DPI to 600 DPI for PDF standards. Also added a section "D" called Use of PDF files.

Section 5.8:

Page 9 A major rewrite for Number 4, including a more comprehensive explanation of "parallel" and "coincident."

Section 5.10:

Pages 10 thru 17 Under C – added additional design scripts for Preliminary Design and Check Prints. Also added a section for 11 x 17 Printers. Additional R/W design scripts were added for plotting at 600 dpi.

Under D #13 – added a more comprehensive write up on translucent plotting.

Under E – This is a new section called "Dropout logic and weight and patterning values." The dropout levels are also listed.

Appendix A1:

All the Title Sheet Borders (regardless of the discipline) now reflect a 2010 date for the statement “TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010.”

Pages 1 thru 21 Under Landscape - 5 cells were modified “IQ1”, “IQ2”, “IQ3”, “IQ4” and “LALGND”. For plastic pipe (lateral supply), Schedule 40 has replaced PR200 and PR315. For plastic pipe (main supply), Schedule 40 has only replaced PR200.

Pages 26 thru 42 Under Project Plans – all the statements (notes) have been changed to say “APPROVED FOR - - - - - - WORK ONLY.”

Two new statements (notes) were added which are for the Typical Cross Section sheets “NOTE40” pavement structure tolerance note and “NOTE41” superelevations are shown on the superelevation diagrams. Three new cells were added for “climate region” which is now to be a part of the Design Designation on the Typical Cross Section sheets. The three cells are “DDCLIM”, “CLIM1” and “CLIM2.”

Templates for various tables; “DTABLE” for drainage, “CAS” for construction area signs, “PLTAB1” and “PLTAB2” for positive location (min and max), “PDTABL” for pavement delineation, “CURVDA” for curve data and “LOC1” and “LOC2” for locations of construction.

Six additional profile grids for stacking profiles on the same plan sheet. Three are for Caltrans use “PROFLS”, “PRF10S” and “PRF20S.” Three are for consultants use “PROFL5”, “PROFL6” and “PROFL7.”

Two new cells for utility sheets, “ABANDN” symbol for abandon utility and “PLSYM” for positive location symbol.

Five new cells were added for PS&E/Addendum situations. The five cells are; “INDEX” template for Index of Plans, “FHWA” symbol for FHWA, “BLANK” statement for leaving sheet blank, “ADDSYM” symbol for addendum, and “ADNOTE” note stating revision made per addendum XX.

A 45 degree arrow for directing traffic “TRF45A.”

Pages 43 thru 52 Under Roadway – there are five new cells for signs/object markers; “OHSIGN” symbol for overhead sign, “SGNATT” symbol for sign attached to a pole, “SGN3P” symbol for existing one-post overhead sign, “SGN4P” symbol for existing two-post overhead sign, and ‘OBJMAR” symbol for object marker/delineator.

There are two new cells for pavement delineation details; “STRPS2” symbol (with masking) for combining 2 different striping details, and “TRAST2” symbol (with no masking) for combining 2 different striping details.

Pages 65 thru 88 Under Traffic Electrical Systems – there were many new cells added because of the 2010 Standards, while some others were modified and some were deleted.

Appendix A2:

All the cells in the Structures English Cell Library (stcel.cel) were renamed. Some cells were deleted and a couple cells are new.

Appendix A3:

There were some minor modifications to several cells.

Appendix A4:

There were four new line styles that were added to the line styles resource file.
“ut-rcwater-p” proposed reclaimed/recycled water line.
“ut-rcwater-x” existing reclaimed/recycled water line.
“sw-cb” compost berm.
“sw-cs” compost sock.

Appendix A9:

There were two levels renamed for the two new utility line styles that were added (see Appendix A4 summary above). The two new levels for the utility line styles are;
850 ut-rcwater-p
851 ut-rcwater-x

Level slot numbers 852 through 863 have been renamed to let users know that these levels are not to be used and will be reserved for future utility use.

END of 9th ERRATA (10/25/12)

8th ERRATA

For the electronic updating of the

English CADD Users Manual

March 30th, 2011

Section 4.3:

Pages 1 thru 19 This update is a substantial re-write of the entire section. Some of the new topics or subjects added were: naming of As-Built Plans that were added during construction, how to identify these additional sheets, establishing that the MicroStation design files (DGN) are NOT to be considered as As-Built Plans but instead be called Archived Vector Data (AVD), and clarifying that the AVD files, as well as the As-Awarded DGN files must be kept on a "Secure Directory" that only a few people have authority to access.

Clarification on other topics and subjects has been updated as necessary.

END of 8th ERRATA (3/30/11)

7th ERRATA

For the electronic updating of the

English CADD Users Manual

September 30th, 2010

Section 2.8:

Page 1 Under B (in table) – added a row for the color table for the Office of Transportation Architecture and The Office of Electrical, Mechanical, Water and Waste Water. The name of the color table is "tameww_color.tbl".

The term "design script" is now used (throughout Section 2.8) in place of the term "pen table". Expanded on the explanation concerning the logic of using colors 0 – 127 and colors 128 – 254 when using the old Caltrans design scripts.

Page 2 Under B – added a paragraph about the new Caltrans design script (CT_FinalPSE.pen) that is to be used by all CADD submittals for final Contract Plans at PS&E.

Page 3 Under D – added information about colors 250 and 251.

Pages 7 thru 14 Under F – This section was added for the Office of Transportation Architecture and the Office of Electrical, Mechanical, Water and Waste Water.

Section 3.8:

Pages 1 thru 11 This update is a "major" rewrite of the entire section.

Section 5.1:

Page 1 The paragraph was rewritten.

Section 5.2:

Page 1 Under A & B – minor word changes.

Section 5.3:

Page 2 Under "Interplot Organizer" – added that it now supports the plotting and creating of PDF files.

Under Iparm (*.i) – changed the term "pen tables" to "design scripts". This will occur throughout Section 5.

Under Interplot Set file (*.ips) – changed HQ-OE to DES-OE.

Page 3 Under #2, Printer Settings – deleted the reference and names of the pen tables.

Page 4 Under Paper Size – changed the heading name from "Form Size" to "Paper Size". Also changed the definition.

Section 5.4:

Page 5 Under B – added that Interplot now supports PDF files.

Section 5.5:

Page 6 Under A, #7 – changed the name of the correct design script to CT_FinalPSE.pen.

Section 5.6:

Page 7 Part A (Primary function of the “Tiff Output” queue was deleted).

Part B (How to plot to a Tiff Image file) was renamed as “A”. The Note was deleted. Part C (Standard Properties of Tiff Images generated by “Tiff Output”) was renamed as “B”.

Part C – (Use of TIFF files) was added.

Section 5.7:

Page 8 “Creating and Plotting PDF files” is a new section that was added. The old Section 5.7 (and subsequent sections) were renumbered.

Section 5.8:

Page 9 Under #5 – the reference to plotting raster images was deleted and replaced with a reference to plotting PDF files using “full paper size”.

Section 5.9:

Page 10 The reference to “Print/Plot” was changed to just “Print”.

Section 5.10:

Pages 11 thru 14 Under C – Included the new design script for all final PS&E submittals “CT_FinalPSE.pen” and all of the Right of Way design scripts.

Under D, (Dropout) – included that this affects the additional dropout levels when using a MicroStation V8 format file.

Under D, (Weights) – also included that this affects the additional dropout levels when using a MicroStation V8 format file.

Under D – renumbered since #6 was originally left off.

Under D, (Using colors to plot) – added #10 for the design script "CT_FinalPSE.pen" printing black for colors 0 through 249.

Appendix A1:

Pages 1 thru 21

Under Landscape, added new cells "IRXDEX", "MVCB", "XGARV" and "XGLBV".

Deleted the following cells, "XBPE" and "NICEC".

Renamed the following cells, "xqcsp" to "XQCVSP" and "prelv" to "PRLV".

The abbreviations within the following cells were removed, "IQ1", "IQ2", "IQ3", "IQ4", "PLTLST" and "PLTLT2".

The following cells had minor changes, "VALVCD", "SPRSCH", "IRXSCH", "IRXDET", "IRXEXT", "VCB", "LALGND" and "LASEAL".

Landscape cells representing existing items (that were comprised of shapes) had "MASKING" applied to them. This makes them consistent with the cells representing proposed items that already had "Masking" applied to the cell.

Pages 26 thru 37

Under Project Plans, added new cells "TRFALR" for left/right arrow depicting direction of traffic, "ROCK" for rock pattern symbology, "NOTE38" and "NOTE39" for statements concerning not showing existing utility information on the plans.

Under Project Plans, updated "001AAA" to September 15, 2010, removed extraneous information from "AVD", re-position "TIME" and "TIME2" to fit appropriately within the border sheets, added a signature line for "CESEAL" and changed the word **work** to **information** within "NOTE36" and "NOTE37".

Removed the word **accurate** from "NOTE6", "NOTE23", "NOTE25" and "NOTE26" so not to infer that the utilities shown on the plans are more accurately placed that what the Caltrans Utility Policy calls for.

Deleted the cells “NOTE1” and “ASBLT4”, as these are not to be used any longer. Cell “NOTE2” is to be used in all instances where R/W is shown on any plan view sheets. Cell “ASBLT4” is replaced with the cell “AVD”, as DGN files are never to be considered as **As-Built plans**.

Pages 26 thru 37 Under Roadway, removed the cell “RWACC”, as R/W depicted on any plan view sheet is only to be shown as a solid line.

END of 7th ERRATA (9/30/10)

6th ERRATA

For the electronic updating of the

English CADD Users Manual

July 30th , 2010

Section 1:

Page 1 Under Part 1.2 – added that any proposed deviation needs to be submitted to HQ CADD with enough time to allow for any changes and suggestions to be incorporated into the plans before final submittal.

Page 2 Under Part 1.3 – Removed a couple of sentences. Also added that the focus of this manual is mainly for roadway standards, but there are some standards for Structures.

Section 2.1:

Pages 2 thru 7 Under B (in the table) – added new Sheet IDs and Print Sequence Codes for “Index of Plans”, “Identification of Project Structures”, “Utility Profiles”, “Special Design Signs”, “Key Map (Overview) for Walls”, “Architectural Treatment”, “Special Electrical Structures” and “Log of Test Boring”.

Roadway Rest Plan is Obsolete.

The Plan Sheet IDs for Retaining Walls and Sound Walls added an additional character (specifically a number). The first wall in the project will have a 1, the second wall will have a 2 and so on…..

Pages 8 and 9 Under B (Note 3) – significant re-write concerning walls; naming of an electronic file if more than 52 walls are in a project, how to handle quantities and showing the new file naming convention using the “Project Number” and “Phase”.

Page 10 Under B (Note 4) – showing the new naming convention using the “Project Number” and “Phase”.

Page 13 Under D - showing the new naming convention using the “Project Number” and “Phase”

Section 2.3:

Page 3 Under C – added the Unit Names for Part 2.

Section 2.4:

Throughout this section, the term “Phase 2 of V8” was changed to “full V8”. Under B & C – added four new utilities (all were Joint Overhead or Joint Trench) to the Utility levels from (846 to 849).

Section 2.6:

Pages 1 thru 3 Under A & B – there were some minor word changes.

Under C – the working units for a pre-V8 DGN and a full V8 DGN was added. The text size values remained the same but the units changed from feet to inches.

Section 2.7:

Minor word changes throughout this section.

Page 5 Under C, #2 – the scale factor for line styles was rewritten.

Page 7 Under F – in the table for color and utility type, added the color “white” (0) for Joint Overhead or Joint Trench.

Page 7 Under G – a new paragraph was added on how to drop out line styles in a full V8 DGN file by using the colors in the color table and not moving the utility information to another level.

Section 2.9:

Page 3 Under C – the size of text was amended to reflect the size for both 3-lines of text and 4-lines of text.

Appendix A4:

Page 1 Changed “aa001” #99 to reflect July 2010.

Page 6 Updated “rd-curb” #403 to reflect that this line style is obsolete. Curbs for design are shown as a solid line, not a dash line.

Updated “rd-flowln” #407 to reflect the correct graphically representation of the line style.

Page 12 Added four new line styles #733 thru #736. The new utility line styles are for Joint Trench and Joint Overhead.

Appendix A9:

Page 26 Changed the name of four levels within the 800 series (utilities). The four levels that were changed were #846 thru #849.

END of 6th ERRATA (7/30/10)

5th ERRATA

For the electronic updating of the

English CADD Users Manual

July 1st, 2010

Section 2.2:

With the rollout of the E-FIS project, the Expenditure Authorization (EA) is being replaced with a “Project Number” and “Phase”. In the past the naming of files has been based on the EA. Now the naming will be based on the Project Number. Throughout this entire section, examples are shown with the “Old Naming Convention” plus each example is now shown with the “New Naming Convention”.

Page 7 Removed Sound Walls and Retaining Walls from Note 4 and 5.

Page 11 Under A – The extension “asb” that Structures uses has been replaced with the extension “avd”.

END of 5th ERRATA (7/1/10)

4th ERRATA

For the electronic updating of the

English CADD Users Manual

October 30th, 2008

Section 2.1:

Page 1 Under A - #1, it is recommended to always maintain CCS coordinates in all plan sheets.

Page 1 Under A - #2, removed the statement that plan sheets do not need to maintain the horizontal coordinates. Added that sheets like cross sections, details and quantities are not coordinately based.

Page 3 Under B - in the Table, added the Water Pollution Control plans, profiles, details and quantities sheets.

Page 5 Under B - in the Table, added reference to Note 3 at the end of the Retaining Wall section.

Page 6 Under B - in the Table, added reference to Note 3 at the end of the Sound Wall section.

Page 8 Note 3, total quantities for walls was further explained to be more than one wall when included in the roadway portion of the project.

Added paragraph explaining that Retaining Walls must be shown as a horizontal to vertical scale ratio of 1 to 1 (no exaggeration). Also added that it is preferred for Sound Walls as well.

Added a naming scheme for walls if there are 27 to 52 walls.

Section 2.2:

Page 2 Under C - #2, added a paragraph under Print Sequence Code concerning the naming of walls when there are 27 to 52 walls.

Section 2.3:

Page 1 Under A - #2, removed the 3rd and 4th paragraphs.

Page 3 Under C - #2, changed the values for Resolution, Working Area and the Structures base scale.

Section 2.4:

Pages 1 thru 27 Highway/Landscape, Structures Design and Right of Way Mapping Products all had a major rewrite to separate the V7 leveling convention and the V8 leveling convention.

Section 2.5:

Page 1 Under A – 2nd paragraph, added an explanation on V8 levels.

Pages 2 thru 4 Under B - in the table, added the corresponding V8 level if applicable. At the end of the table added the explanations for the asterisks.

Page 5 Under C – in the table, added a note to see Appendix A9 for reassigned or expanded levels for Right of Way or Utilities information.

Section 2.6:

Page 2 Under B - in the table, added more text sizes with the corresponding size, font, weight and slant.

Page 3 Under B – Asterisks, rewrote and reordered the statements that refer back to the table on page 2.

Page 4 Under C, changed the Structures Design base-working unit and the resolution.

Section 2.7:

Page 6 Under F, stated that placing existing utilities on Level 5 was set by Photogrammetry years ago for a pre-V8 MicroStation file.

Page 7 Added a new section “G – Leveling Convention for a V8 MicroStation file”.

Section 2.8:

Page 1 Under B – in the table, renamed Structures to Structures Design.

Page 4 Under E – added explanation for V8 leveling convention that Structures Design has now been reassigned to the 200 series.

Pages 4 & 5 Under E - in the table, both levels are identified.

Section 2.9:

Page 1 Under A – in the 1st Table, renamed the Discipline to “Structure Design Projects” to help distinguish it from Structures Architecture or Structures Structural Design. In the 2nd Table, changed the functional unit to “Right of Way Engineering” to help distinguish it from the separate Right of Way cell library for mapping products.

Section 4.1:

Pages 1 thru 5 Under A & C #’s 2 – 4, minor word changes to be consistent with the Memorandum from Terry Abbott dated August 29, 2008 concerning the acceptance of MicroStation V8 format files.

Page 6 Under C #4, added one line referring to additional Stage Construction levels.

Appendix A1:

Pages 1 thru 21 Under Landscape, added new graphic for “BPE”, changed weight to 0 for “CNC”, changed “QCVSP” to “QCSP”, corrected description to A10 for “STA10F” and “STA10P”, added that “XBPE” is obsolete, added “XCCA”, changed weight to 0 for “XCNC”, changed “XPPL” to “XPPSL”, changed “XPPM” to “XPPSM” and added the word “masking” and level “250” to all the cells that now have masking.

Pages 26 thru 37 Under Project Plans, updated “001AAA” to October 2008, corrected “ASBLT4” to level 63, adding the word “masking” and

level “250” to “DCIR” and “DSN”, updated description for “NOTE6” to say Utility Work Only, updated description for “NOTE9” to say Detour Construction Work Only, added “NOTE24” through “NOTE32”, added “PARROW”, added “SRPAR1” and “SRPAR2”.

Pages 38 thru 46 Under Roadway, added 4 new cells with masking. Three cells are for the symbols used for designating signs, “sign4s”, “sign5s”, and “sign6s”. The number within the name represents how many letters can fit within the symbol. The last cell “strpsy” is the symbol used when designating which striping detail.

Pages 59 thru 80 Under Traffic/Electrical, added “EPLAN”, “EPLAN2”, “ETITLE”, “ETITL2” and “ETITL3”.

Page 81 added “TANK”, “SPLAN” and “SPLAN2”.

Appendix A4:

Page 1 updated “aa001” to show June 2008.

Page 19 added “Su-RR2”.

Appendix A6:

Page 9 in the table, added more text sizes with the corresponding size, font and weight.

Page 10 Under Asterisks, rewrote and reordered the statements that refer back to the table.

Appendix A9:

Pages 29 & 30 In the 900 series, added levels 966 through 999 for Stage Construction.

END of 4th ERRATA (10/30/08)

3rd ERRATA

For the electronic updating of the

English CADD Users Manual

January 8th, 2008

Section 3.8:

Page 4 Under C "Master Design Files" - #2 – "Utilizing the Master Design File in DGN Format"; added a paragraph on Functional Unit Master Files.

Page 6 Under D "Master Clip Frame Files"; it was rewritten to include the best practice of using clip frames.

Section 4.2:

Page 1 Under B a new section was inserted called "Certification for Ready-to-List (RTL)". There are 3 parts: Overview, Cross Sections and Survey File Checklist.

Old section 4.3 now labeled Section 4.2.

Page 2 Old Part B now labeled Part C, old Part C now labeled Part D.

Section 4.3:

Page 1 Old section 4.4 now labeled Section 4.3.

END of 3rd ERRATA (01/08/08)

2nd ERRATA

For the electronic updating of the

English CADD Users Manual

November 5th, 2007

Section 2.1:

Page 6 Under B (in the table); removed the row for Existing Utilities Plan. This plan sheet should only be used for a "Stand-alone Landscape Project" and not when there is a Highway Design portion.

END of 2nd ERRATA (11/5/07)

1st ERRATA

For the electronic updating of the

English CADD Users Manual

October 25th, 2007

Section 2.1:

Page 2 Under B (in the table); added Project Control as a sheet following Aerial Identification.

Page 3 Under B (in the table); eliminated Edge Drain Plan and Underdrain Plan and replaced them with Subsurface Drainage Plan, Profiles, Details and Quantities. Also changed the Plan Sheet ID and added additional Print Sequence Codes.

Under B (in the table); replaced the sheet name of Transportation Management with Motorist Information. Also changed the Plan Sheet ID.

Page 6 Under B (in the table); added plan sheets which are developed by Structural Engineers to be included in the roadway portion of the project. These sheets are mostly for the Roadside Rest buildings.

Page 7 Under B (Note 1); add that there is one exception "tt".

Page 10 After the table; added a footnote about the naming convention of Master Design and Master Topographic files.

Section 2.4:

Page 1 Under B – 1, (in the table); added Seal Information for Levels 9 & 10.

Under B – 1, (in the table); removed Seal Information from Level 63.

Page 2 Under B – 2, (in the table); added Seal Information for Level 10.

Page 3 Under B – 2, (in the table); removed Seal Information from Level 63.

Page 4 Under B – 3, (in the table); added Project Engineer's Seal Information and printed name for engineers for Level 10.

Page 5 Under B – 3, (in the table); added the color Green/2 to Level 11.

Page 8 Under B – 3, (in the table); removed Seal Information from Level 63 and changed contract plans to As-Awarded plans.

Page 9 Under C, Note 3; removed the references to the Seal Information. At the end of the last sentence added "instead of a TIFF or PDF file".

Page 10 Under D – 1, (in the table); added Seal Information for Level 10 and removed Seal Information for Level 63.

Under D – 2, (in the table); added Seal Information for Level 10.

Page 12 Under D – 2, (in the table); removed Seal Information for Level 63.

Page 13 Under D – 3, (in the table); removed Seal Information for Level 63.

Section 2.5:

Page 5 Under C, (in the Table); added Seal Information for Level 10 and removed Seal Information for Level 63.

Section 2.6:

Page 2 Under B, (in the Table); added Counties in the same row as City Names along with a footnote.

Under B, (in the Table); changed the Weight for As-Builts from 1 to 2.

Page 3 Under B, (in the footnotes); added footnote explaining that when counties are shown on the Title sheet, then the text size for city names should be reduced.

Section 2.7:

Page 1 Under A; added a 4th paragraph about how written numbers and notes (callouts) on a drawing govern over graphics.

Page 2 Under B, (examples); added “interior horizontal lines in a quantity table” under Weight 0. Added “interior vertical lines and framing lines in a quantity table” under Weight 1. Added “exterior borders for quantity tables” and profile grade line under Weight 2. Removed “borders of charts/tables” and profile grade line under Weight 3.

Page 5 Under F; added the sentence “Some of the Caltrans Line Styles are also shown in the May 2006 Standard Plans”.

Section 5.2:

Page 1 Under A; added the sentence “Another Bentley product, Interplot Professional, is a total plotting solution installed only on the workstation”.

Section 5.3:

Page 4 Deleted “Direct Meta files”.

Section 5.5:

Page 6 Placed all of Section 5.5 under Part A with a heading of “Creating Iparms”

Page 7 Added Part B with a heading of “Modifying Iparms”.

Section 5.7:

Page 8 Deleted number 6.

Section 5.8:

Page 9 Deleted the heading for Part A and deleted all of Part B.

Appendix A4:

Page 7 Added 3 more Line Styles under Roadway. The positive ID values are #425, #426 & #427. These 3 Line Styles are for graphically displaying double traffic stripe.

Appendix A5:

Page 1 Added the table for Design Planes in U.S. Survey Foot - NAD 1983.

END of 1st ERRATA (10/25/07)