

Florida Department of Transportation

CADD Manual

Record of Changes as of June 30, 2017

NOTE: All headings changed to include update date. All links updated with new FDOT locations.
All "Engineering / CADD Systems Office (ECSSO)" verbiage changed to reflect move to "Production Support CADD Office".

Chapter 1	Introduction
1.2	>Updated links.
1.3	>Included the verbiage "and 3D Models"
1.10	>Updated the Suggestions, Comments, or Questions form for clarification.
Chapter 2	Computer Systems
	No Change
Chapter 3	CADD Production Standards
3.5.2.1	>Added tables for: <input type="checkbox"/> The Department's CADD Standard Seed Files for MicroStation <input type="checkbox"/> The Department's CADD Standard Design Libraries for MicroStation
3.5.2.2	>Added tables for: <input type="checkbox"/> The Department's CADD Standard Design Templates for Civil 3D <input type="checkbox"/> The Department's CADD Standard Sheet Templates for Civil 3D
3.7	>Removed the verbiage regarding the location of the MasterStandard.xlsx file and Note. >Moved to sections 3.5.2.1 and 3.5.2.2 (see above): <input type="checkbox"/> The Department's CADD Standard Design Libraries for MicroStation <input type="checkbox"/> The Department's CADD Standard Design Templates for Civil 3D
3.7.1	>Removed paragraph six regarding compliance enforcement explanation. >Removed verbiage in paragraph 7 regarding QCInspector tool.
3.7.2	>Removed Note regarding Color 255.
3.7.4.1	>Removed unnecessary Note regarding styles listed in following table. >Added Custom Line Styles: RD-FlowLine; RD-SelectiveClearingGrubbing; RD_TreeProtection; RD-TreeRootPruning >Renamed Custom Line Styles: -- SWP-RockBags to SWP-InletProt -- SWP-SiltFence to SWP-SedimentBarrier
3.8	>FDOT Cell Library/Block Drawings -- Updated Main Cell Library table for clarification -- Added user access links to Excel files for each Cell Library -- Added AutoCAD Dynamic Blocks table -- Added AutoCAD Civil Blocks table
3.10	>Added new section heading: "FDOT PRINT RESOURCE FILES"
3.10 3.10.1	>Changed section 3.10 numbering to sub-section 3.10.1 MICROSTATION PRINT RESOURCE FILES
3.11 3.10.2	>Changed section 3.11 numbering to sub-section 3.10.2 3.11 3.10.2 AutoCAD/Civil 3D PRINT RESOURCE FILES
Chapter 4	CADD Production Procedures
4.13.1.1	>Changed "Digital Signatures" file description to "Signature Sheet"
4.13.2.1	>Changed "Digital Signatures" file description to "Signature Sheet"
4.13.3.1	>Changed "Digital Signatures" file description to "Signature Sheet"
4.13.4.1	>Changed "Digital Signatures" file description to "Signature Sheet"
4.13.5.1	>Changed "Digital Signatures" file description to "Signature Sheet"
4.13.6.1	>Changed "Digital Signatures" file description to "Signature Sheet"
4.13.8.1	>Changed "Digital Signatures" file description to "Signature Sheet"
4.13.10.4	>Changed "Digital Signatures" file description to "Signature Sheet"
4.13.12.3	>Added Field Survey Zones: Zone 8 - [User Defined] & Zone 9 - Mapping Features
4.13.12.4	>Added new section: "FDOT Standard Survey Feature Codes" with table of feature codes and link for user access to Excel file of feature codes for their use in the field.
4.13.12.4 4.13.12.5	>Changed sub-section numbering
4.13.12.4 4.13.12.6	>Changed sub-section numbering >Added FDOT_SS4.TBL to list of CAICE Tables and Cell Libraries
4.13.12.4 4.13.12.7	>Changed sub-section numbering
4.13.12.4 4.13.12.8	>Changed sub-section numbering
4.13.12.4 4.13.12.9	>Changed sub-section numbering
4.13.12.4 4.13.12.10	>Changed sub-section numbering
4.13.13.4	>Removed unnecessary Note regarding GEOPAK help.
4.13.14.1	>Changed "Digital Signatures" file description to "Signature Sheet"
4.13.15.1	>Changed "Digital Signatures" file description to "Signature Sheet"
4.13.16.1	>Changed "Digital Signatures" file description to "Signature Sheet"
Chapter 5	Delivery Procedure
	No Change

Florida Department of Transportation
CADD Manual
Record of Changes as of June 30, 2017

Chapter 6	Support
	<i>No Change</i>
Chapter 7	Software Development and Distribution
	<i>No Change</i>
Chapter 8	Quality Assurance
	<i>No Change</i>
Appendix A	CADD Standard Rule Tables
	IMPORTANT: The Standard Rule File tables have been replaced with a link within the CADD Manual for user access (as needed) to an external PDF file with all of the Standard Rule File tables. This reduces the size of the CADD Manual document by half.
	NOTE: All standard rule symbology and descriptions corrected to be in sync with MasterStandards.xlsx.
ALGNRD	>Updated attributes for Levels: ClipBorder_dp; EaseLicLine
AUTOSP	>Updated attributes for Level: EaseLicLine
CLIPRD	>Updated attributes for Level: ConstLimits
DRDTRD	>Updated attributes for Level: EaseLicLine; GovTwpRgeLine_ep; GovTwpRgeLine_ep; InletProt; LARWLine; LARWLine_ep; PropertyLine_ep; RWLine; RWLine_ep >Removed Level: PatternLines_ep >Changed Level SedimentBarrier to reflect LineStyle/Linetype as SWP-SedimentBarrier, removing references to Hay Bales and Silt Fence. >Added Level: XSPatternlines_ep
DREXRD	Survey Feature Codes have been restructured with many new codes to reflect current usage. New levels have been created as well unique to each Feature Code. Duplicate levels across disciplines with differing attributes have been removed. These levels have been moved to the Common Level Library with attributes set to the Right of Way settings.
DRMPRD	>Updated attributes for Level: ConstLimits; EaseLicLine; GovTwpRgeLine_ep; InletProt; LARWLine; LARWLine_ep; PropertyLine_ep >Changed Level SedimentBarrier to reflect LineStyle/Linetype as SWP-SedimentBarrier, removing references to Hay Bales and Silt Fence.
DRPRRD	>Updated attributes for Levels: ClipBorder_dp; EaseLicLine; EasePerpLine; EaseTempLine; GovTwpRgeLine_ep; InletProt; LARWLine; LARWLine_ep; PropertyLine_ep; RWLine; RWLine_ep; Slopes_ep >Changed Level SedimentBarrier to reflect LineStyle/Linetype as SWP-SedimentBarrier, removing references to Hay Bales and Silt Fence. >Added Level: SlopesLevee_ep
DRXSRD	>Corrected Level Names: -- BLSurvey to BLSurvey_px -- FOEElecBur_ex & FOEElecBur_px to FOEBur_ex & FOEBur_px respectively >Updated attributes for Level: EaseLicLine; EaseLine_ep; RWLine; RWLine_ep >Removed Levels: PatternLines_ep; WetlandEdge_ep >Added Levels: WetlandEM_ep; WetlandMAR_ep; XSPatternlines_ep
DSGNLD	Updated attributes for Level: EaseLicLine Added new Levels: PlantPreservation; SelectiveClearingGrubbing; TreeRootPruning
DSGNLT	Updated attributes for Levels: ConstLimits; EaseLicLine
DSGNRD	>Corrected Level Names: -- BLSurvey to BLSurvey_px >Updated attributes for Levels: ClipBorder_dp; ConstLimits; ContoursMajor; ContoursMajor_ep; ContoursMinor; ContoursMinor_ep; DTM; DTM_ep; EaseLicLine; EaseLine_ep; EasePerpLine; EaseTempLine; Gas_ex; Gas_px; GeotechFillPatt1; GeotechFillPatt1_ep thru GeotechFillPatt8; GeotechFillPatt8_ep; GovTwpRgeLine_ep; InletProt; LARWLine; LARWLine_ep; PropertyLine_ep; RWLine; RWLine_ep; SpecialDetails_px; StreetLights_px >Removed Levels: Patternlinge_ep; WetlandEdge_ep >Changed Level SedimentBarrier to reflect LineStyle/Linetype as SWP-SedimentBarrier, removing references to Hay Bales and Silt Fence. >Added new Levels: WetlandEM_ep; WetlandMAR_ep; XSPatternlines_ep
DSGNSG	>Updated attributes for Levels: ConstLimits; EaseLicLine; PMSkip(10-10-20) thru PMSkip9C(10-30); PullBox_ep; SignalSOP >Added Level: SignSupport_ep

Florida Department of Transportation
CADD Manual

Record of Changes as of June 30, 2017

DSGNP	>Updated attributes for Levels: ConstLimits; EaseLicLine; PMSkip(10-10-20) thru PMSkip9C(10-30); SignSupport_ep; SignSingle_ep; >Removed Level: Pavemk_ep >Added new Levels: PMAccessible_ep; PMAHEAD_ep; PMBIKE_ep; PMBUS_ep; PMHUMP_ep; PMLANE_ep; PMMERGE_ep; PMONLY_ep; PMRK_ep; PMRLS_ep; PMRXR_ep; PMSCHOOL_ep; PMSIGNAL_ep; MSLOW_ep; PMSTAL_ep; PMSTAR_ep; PMSTAROW_ep; PMSTOP_ep; PMTAL_ep; PMTALR_ep; PMTAR_ep; PMTURN_ep; PMYIELD_ep; PMZONE_ep; SignTrussOH_ep
DTMRD	>Updated attributes for Levels: ContoursMajor; ContoursMinor; DTM; DTM_px; DTMSource; DTMTriangles; DTMVertices
GDTMRD	>Updated attributes for Levels: ContoursMajor_ep; ContoursMinor_ep; DTM_ep; DTM_ex; DTMSource_ep; DTMTriangles_ep; DTMVertices_ep >Added Level: DTMBoundary_ep
GEOTECH	>Updated attributes for Levels: EaseLicLine >Removed Levels: ActivePointCell_dp; Patternlines_ep
GSWKSP	>Updated attributes for Levels: EaseLicLine >Added Level: SignSupport_ep
IRRGLD	>Updated attributes for Levels: EaseLicLine
ITSSP	>Updated attributes for Levels: ConstLimits; EaseLicLine; PMSkip(10-10-20) thru PMSkip9C(10-30); SignalSOP >Removed Level: Pavemk_ep >Added new Levels: PMAccessible_ep; PMAHEAD_ep; PMBIKE_ep; PMBUS_ep; PMHUMP_ep; PMLANE_ep; PMMERGE_ep; PMONLY_ep; PMRK_ep; PMRLS_ep; PMRXR_ep; PMSCHOOL_ep; PMSIGNAL_ep; MSLOW_ep; PMSTAL_ep; PMSTAR_ep; PMSTAROW_ep; PMSTOP_ep; PMTAL_ep; PMTALR_ep; PMTAR_ep; PMTURN_ep; PMYIELD_ep; PMZONE_ep; SignSupport_ep
KEYSHT	>Updated attributes for Levels: ClipBorder_dp; ConstLimits; EaseLicLine; FLMap4; GovTwpRgeLine_ep
MSARSP	>Updated attributes for Levels: EaseLicLine; SignalSOP >Added new Level: SignSupport_ep
OPEN	"No Change"
PDXSRD	>Corrected Level Names: -- BLSurvey to BLSurvey_px -- FOEElecBur_ex & FOEElecBur_px to FOEBur_ex & FOEBur_px respectively >Updated attributes for Levels: ConstLimits; EaseLicLine; EaseLine_ep; EasePerpLine_px; PropertyLine_ep; RWLine; RWLine_ep; WallFooter_px >Remove Levels: Patternlines_ep; WetlandEdge_ep; >Added new Levels: WetlandEM_ep; WetlandMAR_ep; XSPatternlines_ep
PLANRD	>Updated attributes for Levels: ClipBorder_dp; ConstLimits; EaseLicLine; EaseLine_ep; FLMap4; RefPtAngleTie; RefPtLine >Removed Level: Patternlines_ep >Added new Level: XSPatternlines_ep
PLPRRD	>Updated attributes for Levels: ClipBorder_dp; ConstLimits; EaseLicLine; EaseLine_ep; FLMap4; PropertyLine_ep; RWLine; RWLine_ep
QTDSRD	>Corrected Level Name: BLSurvey to BLSurvey_px >Updated attributes for Levels: ClipBorder_dp; ConstLimits; EaseLicLine; EaseLine_ep; InletProt; PMSkip(10-10-20) thru PMSkip9C(10-30); SignSupport_ep >Changed Level SedimentBarrier to reflectLineStyle/Linetype as SWP-SedimentBarrier, removing references to Hay Bales and Silt Fence. >Removed Levels: Patternlines_ep; WallTempBarrier_px >Added new Levels: SignTrussOH_ep; TempBarrier_px; XSPatternlines_ep
RDXSRD	>Corrected Level Names: -- BLSurvey to BLSurvey_px -- FOEElecBur_ex & FOEElecBur_px to FOEBur_ex & FOEBur_px respectively >Updated attributes for Levels: CLConst_px; ConstLimits; EaseLicLine; EaseLine_ep; EasePerpLine_px; PropertyLine_ep; RWLine; RWLine_ep >Removed Level: Patternlines_ep; >Added new Level: XSPatternlines_ep

Florida Department of Transportation
CADD Manual
Record of Changes as of June 30, 2017

RDXSSP	<p>>Corrected Level Names: -- BLSurvey to BLSurvey_px -- FOEElecBur_ex & FOEElecBur_px to FOEBur_ex & FOEBur_px respectively >Updated attributes for Levels: CLConst_px; ConstLimits; EaseLicLine; EaseLine_ep; EasePerpLine_px; PMSkip(10-10-20) thru PMSkip9C(10-30); PropertyLine_ep; RWLine; RWLine_ep >Removed Levels: WetlandEdge_ep; Patternlines_ep; >Added new Levels: SignSupport_ep; WetlandEM_ep; WetlandMAR_ep; XSPatternlines_ep</p>
RWDTRD	<p>>Updated attributes for Levels: EaseLicLine; EaseLine_ep; EasePerpLine; EaseTempLine; GovCityLimitLine_ep; GovCountyLine_ep; GovQuarterLine_ep; GovSectionLine_ep; GovStateLine_ep; GovTwpRgeLine_ep; LARWLine; LARWLine_ep; PropertyLine_ep; RefPtAngleTie; RRBaseline; RWLine; RWLine_ep; SubDivLine >Added new Level: SpecialDetails</p>
RWENG10	<p>>Updated attributes for Levels: ConstLimits; EaseLicLine; EaseLine_ep; EaseLineLeader_ep; EasePerpLine; EaseTempLine; Fence_ep; FLMap4; GovCityLimitLine_ep; Removed Levels: ClipBorder; GovGreenLeaderWt0_ep; GovGreenLeaderWt2_ep; GovRedLeaderWt0_ep; GovRedLeaderWt2_ep; GovGreenStaTie_ep; GovRedStaTie_ep; GovCountyLine_ep; GovGrantLine_ep; GovLotLine_ep; GovMeanderLine_ep; GovParkLine_ep; GovQtrQtrLine_ep; GovQuarterLine_ep; GovSectionLine_ep; GovStateLine_ep; GovTwpRgeLine_ep; LARWLine; LARWLine_ep; MaintLine; MHWL_TIITF_Line; Monument_ep; PropertyLine_ep; RRBaseline; RWLine; RWLine_ep; SubDivLine; SubVacOrigLotLine >Added new Levels: BuildingOH_ep; EaseTempLine; GovGreenLeaderWt0_ep; GovGreenLeaderWt2_ep; GovGreenStaTie_ep; GovRedLeaderWt0_ep; GovRedLeaderWt2_ep; GovRedStaTie_ep; GovQtrSectCnrEW_ep; GovQtrSectCnrNS_ep; MonumentAT_ep; MonumentCC_ep; MonumentCP_ep; MonumentDH_ep; MonumentDR_ep; MonumentIRC_ep; MonumentNL_ep; MonumentOM_ep; MonumentPIP_ep; MonumentPST_ep; MonumentSAT_ep; MonumentSTD_ep; MonumentSTP_ep; XSPatternlines_ep;</p>
SPST10	"No Change"
SURVRD	<p>>Survey Feature Codes have been restructured with many new codes to reflect current usage. New levels have been created as well unique to each Feature Code. Duplicate levels across disciplines with differing attributes have been removed. These levels have been moved to the Common Level Library with attributes set to the Right of Way settings.</p>
TCDSRD	<p>>Corrected Level Name: BLSurvey to BLSurvey_px >Updated attributes for Levels: CLConst_px; ClipBorder_dp; ClipDrawingBound_dp; ConstLimits; EaseLicLine; EasePerpLine; EaseTempLine; GovTwpRgeLine_ep; InletProt; LARWLine; LARWLine_ep; PipeCulvert; PMSkip(10-10-20) thru PMSkip9C(10-30); SignalSOP >Remove Levels: RailroadMisc_ep; WallTempBarrier; WallTempBarrier_px >Added new Levels: RailroadMP_ep; RailroadSignalG_ep; RailroadSwitch_ep; RailroadWarn_ep; SignSupport_ep; TempBarrier; TempBarrier_px >Changed Level SedimentBarrier to reflect LineStyle/Linetype as SWP-SedimentBarrier, removing references to Hay Bales and Silt Fence.</p>
TOPORD	<p>>Survey Feature Codes have been restructured with many new codes to reflect current usage. New levels have been created as well unique to each Feature Code. Duplicate levels across disciplines with differing attributes have been removed. These levels have been moved to the Common Level Library with attributes set to the Right of Way settings.</p>
TYPDRD	<p>>Corrected Level Name: BLSurvey to BLSurvey_px >Updated attributes for Levels: CLConst_px; ConstLimits; EaseLicLine; EasePerpLine; EaseTempLine; ElecBur_px; GovTwpRgeLine_ep; LARWLine; LARWLine_ep; PMSkip(10-10-20) thru PMSkip9C(10-30); PropertyLine_ep; RWLine; RWLine_ep >Added new Level: TempBarrier_px >Removed Level: WallTempBarrier_px</p>

Florida Department of Transportation
CADD Manual

Record of Changes as of June 30, 2017

UTADRD	<p>>Corrected Level Name: <i>BLSurvey</i> to <i>BLSurvey_px</i></p> <p>>Updated attributes for Levels: <i>Casing; CLConst_px; Duct; EaseLicLine; ElecMisc_ep; JunctBox; JunctBox_ep; JunctBoxA; JunctBoxA_ep; PullBox_ep; SanitaryFM; SanitaryFM_B_ep; SanitaryFM_C_ep; SanitaryFM_D_ep; SanitarySewerDSta; SanitarySewerDSta_ep; SanitarySewerEff_ex; SanitarySewerEff_px; SignMulti_ep; SignSingle_ep; SpanWire_ep; Tower; Tower_ep; ValveCvrSewer_ep; ValveCvrWaterNP; ValveCvrWaterNP_ep; ValveGas_ep; ValveSewer; ValveSewer_ep; ValveWater; ValveWater_ep; ValveWaterNP; ValveWaterNP_ep; Vent_ep; VentSewer; VentSewer_ep; Well; Well_ep; WellMon</i></p> <p>>Added Levels: <i>CATVBurB_ep; CATVCondBurB_ep; ConduitB_ep; ElecAerHVL_ep; ElecBurB_ep; ElecBurPriB_ep; ElecBurSecB_ep; ElecCAPA_ep; ElecCAPB_ep; ElecFuse_ep; FOCBurB_ep; FOEAer; FOEAer_ep; FOEBur; FOEBurB_ep; FOEBurB_ep; FOEBurC_ep; FOEBurD_ep; FOTBurB_ep; GasB_ep; GasTestMisc_ep; GuyWireAnchor_ep; GuyWirePole_ep; GuyWireSpan_ep; Oil_B_ep; PipeEncaseB_ep; PoleElecT_ep; PoleShared_ep; PoleSharedT_ep; SanitaryFM_B_ep; SanitarySewerB_ep; SanitarySewerCLNO_ep; SanitarySewerPSta_ep; SignalControl_ep; SignColumn_ep; SignTrussOH_ep; SpanWireP_ep; SteamB_ep; SU_QLA_ep; Switchgear_ep; TeleBooth_ep; TeleBurB_ep; TelePed_ep; TelePole_ep; TeleServBox_ep; TowerTrans_ep; ValveBFP_ep; ValveBox_ep; ValveBoxGas_ep; ValveBoxSwr_ep; ValveBoxWtr_ep; ValveBoxWtrNP_ep; ValveCvrWtrRaw_ep; VaultsAG_ep; VaultsBG_ep; WaterB_ep; WaterFct_ep; WaterNP_B_ep; WaterStandpipe_ep; XSPatternlines_ep</i></p> <p>>Removed Levels: <i>ElecBurCap_ep; GuyWire_ep; Patterlines_ep; PoleTel_ep; SanitarySewerMisc_ep; SignalMisc_ep; SignSupport_ep; TelMisc_ep; Vault_ep; WaterMisc_ep</i></p>
UTEXRD	<p>>Survey Feature Codes have been restructured with many new codes to reflect current usage. New levels have been created as well unique to each Feature Code.</p> <p>Duplicate levels across disciplines with differing attributes have been removed. These levels have been moved to the Common Level Library with attributes set to the Right of Way settings.</p>
UTPRRD	<p>>Corrected Level Name: <i>BLSurvey</i> to <i>BLSurvey_px</i></p> <p>>Updated attributes for Levels: <i>Casing; CLConst_px; Duct; EaseLicLine; ElecMisc_ep; JunctBox; JunctBoxA; JunctBoxA_ep; LiteCond_ep; Manhole_px; SignSingle_ep; SpanWire_ep; TeleAer_ep; Tower; Tower_ep; Valve; Valve_ep; ValveCvrSewer; ValveCvrSewer_ep; ValveCvrWaterNP_ep; ValveGas_ep; ValveSewer; ValveSewer_ep; ValveWater_ep; ValveWaterNP; ValveWaterNP_ep; Vent_ep; VentSewer; VentSewer_ep; WaterNP_B_ep; WaterNP_C_ep; WaterNP_D_ep; Well; Well_ep; WellMon</i></p> <p>>Added Levels: <i>CATVBurB_ep; CATVCondBurB_ep; ConduitB_ep; ElecAerHVL_ep; ElecBurB_ep; ElecBurPriB_ep; ElecBurSecB_ep; ElecCAPA_ep; ElecCAPB_ep; ElecFuse_ep; FOCBurB_ep; FOEAer; FOEAer_ep; FOEBur; FOEBurB_ep; FOEBurB_ep; FOEBurC_ep; FOEBurD_ep; FOTBurB_ep; GasB_ep; GasReg_ep; GasTestMisc_ep; GuyWireAnchor_ep; GuyWirePole_ep; GuyWireSpan_ep; Oil_B_ep; PipeEncaseB_ep; PoleElecT_ep; PoleShared_ep; PoleSharedT_ep; SanitaryFM_B_ep; SanitarySewerB_ep; SanitarySewerCLNO_ep; SanitarySewerEff_ep; SanitarySewerPSta_ep; SignalControl_ep; SignColumn_ep; SignTrussOH_ep; SpanWireP_ep; SteamB_ep; SU_QLA_ep; Switchgear_ep; TeleBooth_ep; TeleBurB_ep; TelePed_ep; TelePole_ep; TeleServBox_ep; TowerTrans_ep; ValveBFP_ep; ValveBox_ep; ValveBoxGas_ep; ValveBoxSwr_ep; ValveBoxWtr_ep; ValveBoxWtrNP_ep; ValveCvrWtrRaw_ep; VaultsAG_ep; VaultsBG_ep; WaterB_ep; WaterFct_ep; WaterNP_B_ep; WaterStandpipe_ep; XSPatternlines_ep</i></p> <p>>Removed Levels: <i>ElecBurCap_ep; FOEElecAer; FOEElecAer_ep; FOEElecBur; FOEElecBurB_ep; FOEElecBurC_ep; FOEElecBurD_ep; GuyWire_ep; Patterlines_ep; PoleTel_ep; SanitarySewerMisc_ep; SignalMisc_ep; SignSupport_ep; TelMisc_ep; Vault_ep; WaterMisc_ep</i></p>
