# FDOTSS4 CADD Software

## FDOTSS4 Maintenance Release (MR) 2

FDOTSS4 MR2 contains updates necessitated by changes to Design Standards, Plans Preparation Manual (PPM), and the Basis of Estimates (BOE) as well as bug fixes to address reported issues.

FDOTSS4 MR2 will also implement two significant changes for the CADD Office and for FDOT.

- Engineering \ CADD Systems Office (ECSO) has been merged with the Production Support Office. Engineering \ CADD Systems Office will now be referred to as the Production Support Office|CADD or more generally instead of ECSO we will just use CADD. As part of the rebranding effort we tried to update all references to Engineering \ CADD Systems Office or ECSO. As part of the rebranding effort the ecso.support@dot.state.fl.us email address for support requests is being replaced with cadd.support@dot.state.fl.us .

- FDOT's web addresses will be changing after close of business October 7th. All web links in FDOTSS4 MR2, including the help files, have been updated to use the new addresses. More information about the change in web addresses is available below:

## Coming Soon: www.fdot.gov

This year marks the 20th anniversary for the department's internet web address, www.dot.state.fl.us. During the past few years, there has been a steady rise in the number of requests for a shorter web address that can be easily remembered or used for print and online resources. To address this growing need, we have decided to change our current web address to www.fdot.gov.

While employee e-mail addresses are not a part of this transition, we do anticipate that this change will make it easier for our customers to remember our web address and to locate FDOT information online. Several key considerations for this project include:

- Implementation – On Friday, October 7, 2016 (after 7:00 p.m.), the web address for the department's internet website will change from www.dot.state.fl.us to www.fdot.gov. Notifications will be issued to business partners and the general public prior to initiating this change. The first notice will be distributed on September 9th and the second on October 3rd.
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- Office Addresses – Various office web addresses will also be renamed or shortened on the implementation date, so bookmarks/shortcuts may no longer work. To see a list of future office web address, please visit: http://www.dot.state.fl.us/agencyresources/domainchange/websites.shtm
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- Documents/Publications – FDOT documents/publications that include references to www.dot.state.fl.us will need to be updated as soon as possible after the October 7th implementation date.
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- Other Online Resources – On Saturday, November 5, 2016, the web address for the department's File Transfer Protocol (FTP) server will change from ftp://ftp.dot.state.fl.us to https://ftp.fdot.gov and will begin using secured protocols. The appropriate Information Technology staff will contact the individual account owners prior to implementation. Other agency sites, such as www2, www3, etc., are also being evaluated to transition to the fdot.gov domain; however, no decisions have been made at this time.

For additional information on this project, please review the list of frequently asked questions at http://infonet.dot.state.fl.us/domainchange/questions-staff.pdf

## FDOTSS4\Applications

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| **FileChecker** | • Removed warning for empty _meta_info folder.<br>• Removed DWG flag for Non-Standard file type.<br>• Converted to 64 bit. |
| **LandXMLGrouper** | • Added STAL,STAR,TAL,TAR,PAVBRK,UMISC, Updated to show only points or chains for each category (removed extraneous point and chains). |
| **LDM** | • Added SCG Work Table under Misc. Boxes. Removed Project Components List and Strung Project Note. With the changes to Key Sheets, it was decided to create cells for these items for consistency and ease of use for the designers.<br>• Renamed Summary of Curb and Gutter Removal Items as directed in the PPM & bulletin for the Selective Clearing & Grubbing.<br>• Added Drainage map notes from the PPM, Vol. 2, Chapter 5.<br>• Addressed issues with symbols not coming in correctly in Excel links<br>• Summary of Traffic Monitoring Site - Corrected the units for the conduit and vehicle speed/classification unit pay items (630-2-1A & 695-3-AB)<br>• Summary of Pavement - Added new asphalt & friction course pay items per Joint Bulletin.<br>• Summary of Side drain and MES - Added pay items for the pipe and MES's to the summary boxes<br>• Summary of Sidewalk - Corrected bus bay item accuracy for subtotal row.<br>• Summary of Guardrail - Added column for special posts and modified the descriptions in the header columns. Added new pay items (columns) for the special guardrail posts and bridge anchorage assembly connections and approach transition to rigid barrier. |
| **QCInspector** | • Added "_ex" to the legal level names for 3d models |
| **MasterStandards.xlsx** | • Correct the Color setting from 3 to 10 on the following Drainage levels:<br>DrainMisc<br>DrainPipe<br>PipeCulvert_pr<br>PipeCulvertGD<br>PipeCulvertSD<br>PipeCulvertSS |
| | • New Levels:<br>DrainMisc_pm Drainage Items (Proposed Model) (Miscellaneous)<br>PipeCulvert_ex Pipe Culvert in Cross Sections (Existing Cross Section) |

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| | • Corrected new Digital Signatures - Project Network Control sheet from SIGNPNC to SIGNPC*<br>• Corrected MicroStation level filter RDXSRD<br>to include: 6047 PatternLines1_dp, 6049 PatternLines2_dp, 6051 PatternLines3_dp, 6059 SanitarySewer_ex, 6060 SanitarySewer_px<br>to remove: 246 KeyShtMisc, 450 Viewport, 1182 WetlandEdge_ep, 9535 Vehicle<br>• Updated description for MowingAreaSmall level to include: "(Includes Litter Removal Areas)"<br>• Updated descriptions for all CCTV levels to expand "CC" to "Closed Circuit"<br>• - Created new Survey Levels & Feature Codes and added to Rules - TOPORD & SURVRD:<br>Feature Code Level<br>PAVBRK PavtBreak_ep<br>STAL PavemkSTL_ep<br>STAR PavemkSTR_ep<br>TAL PavemkTL_ep<br>TAR PavemkTR_ep |
| | • Removed erroneous level, ConstLines, from Rule: rweng10<br>• - Added existing Roadway level, DitchPavt, to Rules: DRDTRD,DRPRRD, & DRMPRD<br>• - Created new Roadway level, ConcreteRemoval [Description: Concrete Removal(All Types) Quantity Shapes; Color 0 Linestyle 0 Weight 2] to Rule: QTDSRD<br>• - Created new Survey Feature Code, UMISC, to existing Survey level UtilMisc_ep<br>• - Added existing Survey level UtilMisc_ep to Rules - UTEXRD & SURVRD<br>• - Created new Survey Levels & Feature Codes and added to Rules - TOPORD & SURVRD<br>• Updated the following levels:<br>For the new TreeProtection Level, add the new Linestyle and change from "O/Continuous" to "RD-TreeProtection"<br>For the PipeCulvert Level, Linestyle should be changed from "2/DGN2" to "0/Continuous"<br>• Removed the words "Survey" & "Network" from description of PNC sheets so they are now just listed as Project Control Sheets.<br>• removed obsolete filenames (AMGMRD, CORRRD, & RDTMRD)<br>• created a new filename MODLRD for Proposed Design Model<br>• Set Roadway Level ConstLines_pm to non-plotting on the MasterStandards.xlsx > Level_DGNLIB tab<br>• Structural review to update Structures filenames to current usage and sheet ordering.(removed obsolete, created new applicable filenames, updated File Group and File Type for use in the Create File application and to sync with the CADD Manual)<br>• Added columns to record Structures Sheet Order, Sheet Prefix, and Drawing Prefix<br>• Changed Structures "Sheet Order" on following Structure Filenames:<br>Sheet File Name File Description<br>Order<br>120 B#ApproachSlab* Approach Slab<br>47 B#BeamLay* Beam Layout<br>46 B#BearingDet* Bearing Details<br>42 B#BearingPads* Neoprene Bearing Pads<br>43 B#BearingPlates* Beveled Bearing Plates<br>24 B#BotContourMap* Bottom Contour Map<br>247 B#Bulkhead* Bulkhead<br>248 B#BulkheadDet* Bulkhead Details<br>67 B#Camber* Camber Diagrams<br>139 B#CompTestSetup* Compression Test Setup<br>14 B#ConstDet* Construction Details<br>13 B#ConstNotes* Construction Notes<br>15 B#ConstSeq* Construction Sequence<br>261 B#CrashWall* Crash Wall |

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| | 62 B#CrossFrameDet* Cross Frame Details<br>108 B#DrainDet* Drain Details<br>31 B#EndBent* End Bent<br>32 B#EndBentDet* End Bent Details<br>101 B#ErectProced* Erection Procedure for Launching Girder<br>100 B#ErectSeq* Erection Sequence<br>107 B#ExpJointDet* Expansion Joint Details<br>118 B#FenderSystem* Fender System<br>64 B#FieldSplice* Bolted Field Splice<br>65 B#FieldSpliceDet* Bolted Field Splice Details<br>106 B#FinishGrEL* Finish Grade Elevations<br>66 B#FloorBeam* Floor Beams<br>35 B#Footing* Footing<br>36 B#FootingDet* Footing Details<br>26 B#FoundLay* Foundation Layout<br>58 B#FramingPlan* Framing Plan<br>6 B#GeneralNotes* General Notes<br>3 B#Index* Index of Sheets<br>138 B#InstruDet* Instrumentation Details<br>33 B#IntBent* Intermediate Bent<br>34 B#IntBentDet* Intermediate Bent Details<br>116 B#JackingDet* Jacking Details<br>115 B#LadderDet* Ladder Details<br>141 B#LTFrame* Load Test Frame Configuration<br>143 B#LTGirderDet* Load Test Reaction Girder Details<br>104 B#MaintLight* Maintenance Lighting Plan<br>105 B#MaintLightDet* Maintenance Lighting Details<br>117 B#MiscDet* Miscellaneous Details<br>259 B#NoiseWall* Noise Wall<br>243 B#PedBridgeDataTable* Pedestrian Bridge Data<br>37 B#Pier* Pier<br>38 B#PierDet* Pier Details<br>28 B#PileDet* Pile Details<br>8 B#PlanElev* Plan and Elevation<br>144 B#PlatformDet* Service Platform Deck and Frame Details<br>244 B#RebarList* Reinforcing Bar List<br>17 B#RemoveExist* Removal of Existing Structures<br>255 B#RetainingWall* Retaining Wall<br>19 B#RiprapRubble* Rubble Riprap<br>20 B#RiprapSand* Sand Cement Riprap<br>25 B#ScourDetail* Scour Protection Details<br>22 B#ScourPlan* Plan View of Scour Protection<br>23 B#ScourProf* Profile of Scour Protection<br>72 B#SegLayout* Segment Layout<br>109 B#SidewalkDet* Sidewalk Details<br>60 B#SteelDet* Steel Girder Details<br>59 B#SteelGirder* Steel Girder<br>63 B#Stiffener* Stiffener Details<br>57 B#TypicalSection* Typical Section Through Bridge Deck<br><br>• Changed Structures "File Description" and "Sheet Order" - changed on following Structure Filenames:<br>Sheet File Name File Description<br>Order<br>48 B#BeamLayAASHTO* AASHTO Beam Layout<br>174 B#BL-Notes* Bascule Span Notes<br>146 B#BP-Notes* Bascule Pier Notes<br>10 B#BridgeHydro* Bridge Hydraulic Recommendations<br>18 B#BridgeSection* Section Through Bridge<br>113 B#ConduitDet* Conduit Details<br>245 B#DataTableLoadRating* Load Rating Summary Table<br>29 B#DrillShaft* Drilled Shaft Data Table<br>119 B#FenderDet* Fender System Details<br>263 B#MiscStr* Miscellaneous Structure<br>264 B#MiscStrClvt* Box Culvert<br>27 B#PileData* Pile Data Table<br>55 B#PrestSlab* Prestressed Slab Units<br>94 B#PTDet* Post-Tensioning (PT) Details<br>253 B#SheetPileWall* Sheet Pile Wall<br>112 B#SlidingPlate* Traffic / Pedestrian Railing Sliding Plate Assembly<br>5 B#SumOfQuantities* Summary of Structures Quantities<br>68 B#Superst* Superstructure<br>69 B#SuperstDet* Superstructure Details<br>9 B#VertCurveSuperEL* Profile Grade and Superelevation Transition<br>246 B#WallControl* Wall Control Drawing |

2 SIGNST* Digital Signatures

- Created new Structures "Filenames" and changed "Sheet Order":

Sheet Order | File Name | File Description
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84 | B#AbutSegDet* | Abutment Segment Details
83 | B#AbutSegDim* | Abutment Segment Dimensions
85 | B#AbutSegReinf* | Abutment Segment Reinforcing
103 | B#AccessDoor* | Access Door Assembly
102 | B#AccessHatch* | Access Hatch Assembly
51 | B#BeamLayBTB* | Bulb-T Beam Layout
49 | B#BeamLayFIB* | Florida-I Beam (FIB) Layout
50 | B#BeamLayFSB* | Florida Slab Beam (FSB) Layout
52 | B#BeamLayFUB* | Florida-U Beam (FUB) Layout
53 | B#BeamLayITB* | Inverted T Beam Layout
54 | B#BeamLayTB* | T Beam Layout
192 | B#BL-ArmJointDet* | Bascule Span Armored Joint Details
191 | B#BL-ArmJointLay* | Bascule Span Armored Joint Plan Layout
196 | B#BL-BalPlan* | Bascule Span Balance Plan
194 | B#BL-CentDev* | Bascule Span Centering Device
182 | B#BL-CountBoxDet* | Bascule Span Counterweight Box Details
183 | B#BL-CountPlan* | Bascule Span Counterweight Plan
184 | B#BL-CountSections* | Bascule Span Counterweight Sections
188 | B#BL-DeckPanelDet* | Bascule Span Deck Panel Details
187 | B#BL-DeckPanelLay* | Bascule Span Deck Panel Layout
189 | B#BL-DeckPlan* | Bascule Span Deck Plan
190 | B#BL-DeckSectDet* | Bascule Span Deck Sections and Details
147 | B#BL-Elevation* | Bascule Span Elevation
181 | B#BL-FloorBeamDet* | Bascule Span Floor Beam Details
180 | B#BL-ForceDiag* | Bascule Span Force Diagrams
175 | B#BL-FramingPlan* | Bascule Span Framing Plan
177 | B#BL-GirderElev* | Bascule Span Main Girder Elevation
178 | B#BL-GirderSectDet* | Bascule Span Main Girder Sections and Details
186 | B#BL-LatBracDet* | Bascule Span Lateral Bracing Details
185 | B#BL-LatBracPlan* | Bascule Span Lateral Bracing Plan
193 | B#BL-LLShoeAssem* | Bascule Span Live Load (LL) Shoe Assembly
195 | B#BL-LockBarHseDet* | Bascule Span Lock Bar Housing Details
176 | B#BL-TransSect* | Bascule Span Transverse Sections
179 | B#BL-WebGeoCamberDet* | Bascule Span Web Geometry and Camber Details
11 | B#Boring* | Report of Core Borings
153 | B#BP-ClearDiagramX* | "Bascule Pier X Clearance Diagram (X = Pier Number)"
149 | B#BP-ElevationsX* | "Bascule Pier X - BB (X = Pier Number)(BB = East Elevation, West Elevation, North Elevation, South Elevation)"
150 | B#BP-FinishGradeX* | "Bascule Pier X Finish Grade Elevations (X = Pier Number)"
152 | B#BP-LongSectX* | "Bascule Pier X Longitudinal Sections (X = Pier Number)"
156 | B#BP-PierDetX* | "Bascule Pier X Details (X = Pier Number)"
148 | B#BP-PlanViewsX* | "Bascule Pier X - AA (X = Pier Number) (AA = Footing Level Plan, Pit Level Plan, Machinery Level Plan, Trunnion Level Plan, Roadway Level Plan)"
154 | B#BP-RailDetX* | "Bascule Pier X Railing Details (X = Pier Number)"
162 | B#BP-RebarListX* | "Bascule Pier X Reinforcing Bar List (X = Pier Number)"
161 | B#BP-ReinfDetX* | "Bascule Pier X Reinforcing Details (X = Pier Number)"
158 | B#BP-ReinfElevationsX* | "Bascule Pier X Reinforcing - BB(X = Pier Number)(BB = East Elevation, West Elevation, North Elevation, South Elevation)"
160 | B#BP-ReinfLongSectX* | "Bascule Pier X Reinforcing Longitudinal Sections (X = Pier Number)"
157 | B#BP-ReinfPlansX* | "Bascule Pier X Reinforcing - AA (X = Pier Number)(AA = Footing Level Plan, Pit Level Plan, Machinery Level Plan, Trunnion Level Plan, Roadway Level Plan)"
159 | B#BP-ReinfTransSectX* | "Bascule Pier X Reinforcing Transverse Sections (X = Pier Number)"
155 | B#BP-StairDetX* | "Bascule Pier X Stair Details (X = Pier Number)"
151 | B#BP-TransSectX* | "Bascule Pier X Transverse Sections (X = Pier Number)"
167 | B#BT-Details* | Control House Details

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| | 165 B#BT-Elevations* "Control House - BB (BB = East Elevation and Reinforcement, West Elevation and Reinforcement, North Elevation and Reinforcement, South Elevation and Reinforcement)"<br>169 B#BT-HVACPlumb* Control House Heating, Ventilation & Air Conditioning (HVAC) and Plumbing Floor Plans<br>172 B#BT-HVACPlumbDet* Control House Heating, Ventilation & Air Conditioning (HVAC) and Plumbing Details<br>171 B#BT-HVACSchem* Control House Heating, Ventilation & Air Conditioning (HVAC) Schematic<br>163 B#BT-Notes* Control House Notes<br>164 B#BT-PlanViews* "Control House - AA (AA = Foundation Level Plan and Reinforcement , Trunnion Level Plan and Reinforcement, Entry Level Plan and Reinforcement, Tender Level Plan and Reinforcement, Roof Level and Framing Plan)"<br>170 B#BT-PlumbSchem* Control House Plumbing Schematic<br>173 B#BT-RebarList* Control House Reinforcing Bar List<br>166 B#BT-Sections* Control House Sections and Reinforcement<br>168 B#BT-StairDet* Control House Stair Details<br>70 B#ClosureJointDet* Closure Joint Details<br>89 B#ClosurePourDet* Closure Pour Details<br>90 B#ClosurePourReinf* Closure Pour Reinforcing<br>12 B#ConePTGeo* Cone Penetration Test (CPT) Soundings<br>16 B#ConstAcc* Construction Access<br>56 B#DataTableBeams* (Beam Name)Table of Beam Variables<br>78 B#DevSegDet* Deviation Segment Details<br>77 B#DevSegDim* Deviation Segment Dimensions<br>79 B#DevSegReinf* Deviation Segment Reinforcing<br>71 B#DiaphragmConcDet* Diaphragm Details (w/ concrete beams/girders)<br>61 B#DiaphragmSteelDet* Diaphragm Details (w/ steel beams/girders)<br>45 B#DiscBearingDet* Disc Bearing Details<br>30 B#DrillShaftDet* Drilled Shaft Details<br>215 B#Elec-Abbrev* Electrical Abbreviations<br>221 B#Elec-BPElectLay* Bascule Pier Electrical Layout<br>222 B#Elec-BPRefCeilPlan* Bascule Pier Reflected Ceiling Plans<br>220 B#Elec-BTFloorPlan* Control House Floor Plans<br>242 B#Elec-BTReflCeil* Control House Reflected Ceiling Plans<br>234 B#Elec-CCTVSys* Closed Circuit Television (CCTV) System<br>235 B#Elec-CommSys* Communication System<br>241 B#Elec-CondConductSched* Conduit and Conductor Schedule<br>240 B#Elec-CondSchem* Conduit Schematic<br>227 B#Elec-CtlCabDet* Control Cabinet Details<br>226 B#Elec-CtlDeskDet* Control Desk Details<br>225 B#Elec-CtlDeskLay* Control Desk Layout<br>230 B#Elec-CtlSchem* Control Schematics<br>228 B#Elec-CtlSysArchDi* Control System Architectural Diagram<br>224 B#Elec-DriveCabDet* Drive Cabinet Details<br>233 B#Elec-FireAlarm* Fire Alarm System<br>239 B#Elec-FlexCableDet* Flexible Cable Details<br>237 B#Elec-GeneratorDet* Generator Details<br>216 B#Elec-Legend* Electrical Legend<br>236 B#Elec-LighProtSyst* Lightning Protection System<br>219 B#Elec-LightPanCirc* Lighting Panel Circuits<br>218 B#Elec-LightPanSched* Lighting Panel Schedule<br>223 B#Elec-MCCLay* Motor Control Center (MCC) Layout<br>231 B#Elec-NavLight* Navigational Lighting<br>213 B#Elec-Notes* Electrical Notes<br>217 B#Elec-OneLineDia* One Line Diagram<br>229 B#Elec-OperSeqFlow* Operating Sequence Flowchart<br>214 B#Elec-PlanElev* Electrical Plan and Elevation<br>238 B#Elec-SubCondDet* Submarine Conduit Details<br>232 B#Elec-TrafficConDet* Traffic Control Details<br>87 B#ExpJointSegDet* Expansion Joint Segment Details<br>86 B#ExpJointSegDim* Expansion Joint Segment Dimensions<br>88 B#ExpJointSegReinf* Expansion Joint Segment Reinforcing<br>114 B#JunctBoxDet* Junction Box Details<br>137 B#LTDet* Load Test Details<br>134 B#LTDrillShaftDet* Drilled Shaft Load Test Details<br>131 B#LTDrillShaftSum* Drilled Shaft Load Test Program Summary<br>142 B#LTGirderBraceDet* Load Test Reaction Girder Bracing Details<br>136 B#LTLateralDet* Lateral Load Test Details<br>132 B#LTLateralProgSum* Lateral Load Test Program Summary<br>135 B#LTOsterbergCellDet* Osterberg Cell Load Test Details<br>133 B#LTPileDet* Pile Load Test Details<br>130 B#LTPileProgSum* Pile Load Test Program Summary<br>145 B#LTStatnamicDet* Statnamic Load Test Details |

198 B#Mech-BLMachSys* Bascule Span Machinery Systems
203 B#Mech-DiffLock* Differential Lock Out Mechanism Assembly and Floating Shaft
204 B#Mech-DiffLockDet* Differential Lock Out Mechanism Details
197 B#Mech-Notes* Machinery Notes
208 B#Mech-PinionDet* Pinion Assembly Details
207 B#Mech-RackDet* Rack Assembly Details
206 B#Mech-RackPinion* Rack/Pinion and Trunnion Assembly
200 B#Mech-SDMachElev* Span Drive Machinery Elevation
201 B#Mech-SDMachElevDet* Span Drive Machinery Elevation Details
199 B#Mech-SDMachPlan* Span Drive Machinery Plan
205 B#Mech-SDMachSuppDet* Span Drive Machinery Support Details
202 B#Mech-SDMachTable* Span Drive Machinery Tables
210 B#Mech-SLimSwitchDet* Span Limit Switch Details
211 B#Mech-SLockAssemb* Span Lock Assembly
212 B#Mech-SLockDet* Span Lock Details
209 B#Mech-TrunAssemDet* Trunnion Assembly Details
254 B#MSEWall* Mechanically Stabilized Earth (MSE) Wall
256 B#MSEWGeo* Mechanically Stabilized Earth (MSE) Wall Standard Penetration Test (SPT) Borings
260 B#NWGeo* Noise Wall Standard Penetration Test (SPT) Borings
111 B#PedRailing* Pedestrian Railing
40 B#PierCapSegDim* Pier Cap Segment Dimensions
81 B#PierSegDet* Pier Segment Details
80 B#PierSegDim* Pier Segment Dimensions
82 B#PierSegReinf* Pier Segment Reinforcing
44 B#PotBearingDet* Pot Bearing Details
39 B#PrecastPierDet* Precast Pier Details
99 B#PTConstSeq* Construction Sequence Post-Tensioning (PT)
41 B#PTPierDet* Pier Post-Tensioning (PT) Details
92 B#PTTendLayCont* Continuity Post-Tensioning (PT) Tendon Layout
93 B#PTTendLayFuture* Future Post-Tensioning (PT) Tendon Layout
91 B#PTTendLayLong* Longitudinal Post-Tensioning (PT) Tendon Layout
96 B#PTTransAbutSegDet* Abutment Segment Transverse Post-Tensioning (PT) Details
98 B#PTTransDet* Transverse Post-Tensioning (PT) Details
97 B#PTTransExpJtSegDet* Expansion Joint Segment Transverse Post-Tensioning (PT) Details
95 B#PTTransPierSegDet* Pier Segment Transverse Post-Tensioning (PT) Details
262 B#RebarListWall* Reinforcing Bar List (Wall/bulkhead related)
257 B#RTWGeo* Retaining Wall Standard Penetration Test (SPT) Borings
73 B#SegJointCoord* Segment Joint Coordinates
250 B#SheetPileWallAnchConc* Anchored Concrete Sheet Pile Wall
249 B#SheetPileWallAnchSteel* Anchored Steel Sheet Pile Wall
252 B#SheetPileWallCantConc* Cantilever Concrete Sheet Pile Wall
251 B#SheetPileWallCantSteel* Cantilever Steel Sheet Pile Wall
21 B#SlopePavementConcrete* Concrete Slope Pavement
258 B#SPGeo* Sheet Pile Wall Standard Penetration Test (SPT) Borings
4 B#SumOfPayItems* Summary of Pay Items Sheet (For Structures as Lead Component Only Projects)
7 B#SurfaceFinishDet* Surface Finish Details
129 B#TempDetourDet* Temporary Detour Bridge Details
125 B#TempDetourEndBent* Temporary Detour Bridge End Bent
126 B#TempDetourEndBentDet* Temporary Detour Bridge End Bent Details
122 B#TempDetourFoundLay* Temporary Detour Bridge Foundation Layout
127 B#TempDetourIntBent* Temporary Detour Bridge Intermediate Bent
128 B#TempDetourIntBentDet* Temporary Detour Bridge Intermediate Bent Details
123 B#TempDetourPileData* Temporary Detour Bridge Pile Data Table
124 B#TempDetourPileDet* Temporary Detour Bridge Pile Details
121 B#TempDetourPlanElev* Temporary Detour Bridge Plan and Elevation
140 B#TensionTestSetup* Tension Test Setup
110 B#TrafficRailing* Traffic Railing
75 B#TypSegDet* Typical Segment Details
74 B#TypSegDim* Typical Segment Dimensions
76 B#TypSegReinf* Typical Segment Reinforcing
1 KeySheet* Bridge Key Sheet **

- Created a "Non-Bridge Related Structures Table" to create the following non-bridge related files in the Structures workspace using Structures seedfiles. Include mast arm and overhead sign structure sheets in the Roadway plans. Include the sheets for all other listed items in the Roadway plans when no Structures plans are present:

  > Changes made to Non-Bridge Related "File Description" and "Sheet Order":

| Sheet Order | File Name | File Description |
|---|---|---|
| a2 | Bulkhead* | Bulkhead (Non-Bridge Related) |
| a3 | BulkheadDet* | Bulkhead Details (Non-Bridge Related) |
| a17 | CrashWall* | Crash Wall (Non-Bridge Related) |
| a20 | MiscStr* | Miscellaneous Structure (Non-Bridge Related) |
| a21 | MiscStrClvt* | Culvert (Non-Bridge Related) |
| a26 | MiscStrHighMast* | High Mast Light Poles (Non-Bridge Related) |
| a25 | MiscStrMastArm* | Mast Arm Assemblies (Non-standard) (Non-Bridge Related) |
| a29 | MiscStrOHSign* | Overhead Sign Structures (Non-standard) (Non-Bridge Related) |
| a14 | NoiseWall* | Noise Wall (Non-Bridge Related) |
| a10 | RetainingWall* | Retaining Wall (Non-Bridge Related) |
| a8 | SheetPileWall* | Sheet Pile Wall (Non-Bridge Related) |
| a19 | StrBorder* | Referencing Structures Borders (Non-Bridge Related) |
| a1 | WallControl* | Wall Control Drawing (Non-Bridge Related) |

  > Created New Non-Bridge Related "Filenames" and "Sheet Order

| Sheet Order | File Name | File Description |
|---|---|---|
| a16 | ConePTGeo* | Cone Penetration Test (CPT) Soundings (Non-Bridge Related) |
| a24 | MastArmTab* | Mast Arm Tabulation (Non-Bridge Related) |
| a9 | MSEWall* | Mechanically Stabilized Earth (MSE) Wall (Non-Bridge Related) |
| a11 | MSEWallGeo* | Mechanically Stabilized Earth (MSE) Wall Standard Penetration Test (SPT) Borings (Non-Bridge Related) |
| a15 | NoiseWallGeo* | Noise Wall Standard Penetration Test (SPT) Borings (Non-Bridge Related) |
| a18 | RebarList* | Reinforcing Bar List (Non-Bridge Related) |
| a12 | RetainingWallGeo* | Retaining Wall Standard Penetration Test (SPT) Borings (Non-Bridge Related) |
| a5 | SheetPileWallAnchConc* | Anchored Concrete Sheet Pile Wall (Non-Bridge Related) |
| a4 | SheetPileWallAnchSteel* | Anchored Steel Sheet Pile Wall (Non-Bridge Related) |
| a7 | SheetPileWallCantConc* | Cantilever Concrete Sheet Pile Wall (Non-Bridge Related) |
| a6 | SheetPileWallCantSteel* | Cantilever Steel Sheet Pile Wall (Non-Bridge Related) |
| a13 | SheetPileWallGeo* | Sheet Pile Wall Standard Penetration Test (SPT) Borings (Non-Bridge Related) |
| a27 | SignStructCant* | Cantilever Sign Structures Data Table (Non-Bridge Related) |
| a28 | SignStructSpan* | Span Sign Structures Data Table (Non-Bridge Related) |
| a23 | SpecialMastArmDataTable* | Special Mast Arm Assemblies Data Table (Non-Bridge Related) |
| a22 | StandardMastArmDataTable* | Standard Mast Arm Assemblies Data Table (Non-Bridge Related) |

- Marked the following 'Structures Filenames' as 'Obsolete' and Removed:

| File Name | File Description |
|---|---|
| B#AccessOpen* | Access Opening |
| B#BeamLayBulbT* | Bulb-T Beam Layout |
| B#BeamLayFub* | Fl. U-Beam Layout |
| B#BeamLayInvT* | Inverted T Beam Layout |
| B#BeamLayT* | T Beam Layout |
| B#BL-AccPlatforms* | Access Platforms |
| B#BL-Bracing* | Bracing |
| B#BL-CantBracket* | Cantilever Bracket |
| B#BL-ClearDiagram* | Clearance Diagram |
| B#BL-CntrWghtGirder* | Counter Weight Girder |
| B#BL-CounterWeight* | Counter Weight |
| B#BL-Deck* | Deck |

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| | B#BL-Details* Misc Details<br>B#BL-FloorBeams* Floor Beams<br>B#BL-ForceDiagram* Force Diagram<br>B#BL-FramePlan* Framing Plan<br>B#BL-Girders* Main Girders<br>B#BL-JointAssembly* Joint Assemblies<br>B#BL-PedRail* Pedestrian Railing<br>B#BL-Sections* Sections<br>B#BL-SideWalk* Sidewalk<br>B#BL-SpanLockDet* Span Lock Detail<br>B#BL-SpanLockPlan* Span Lock Plan<br>B#BL-Strings* Stringers<br>B#BL-TraffRail* Traffic Railing<br>B#BL-TrunGirder* Trunnion Girder<br>B#BP- ElevationsY* "Bascule Pier Y - AA(Y = Pier Number)(AA = East Elevation, West Elevation, North Elevation, South Elevation)"<br>B#BP- FinishGradeY* "Bascule Pier Y Finish Grade Evaluations (Y = End Pier Number)"<br>B#BP- PlanViewsY* "Bascule Pier Y - AA (Y = Pier Number)(AA = Footing Level Plan, Pit Level Plan, Machinery Level Plan, Trunnion Level Plan, Roadway Level Plan)"<br>B#BP- ReinfElevationsY* "Bascule Pier Y Reinforcing - AA(Y = Pier Number)(AA = East Elevation, West Elevation, North Elevation, South Elevation)"<br>B#BP- ReinfPlansY* "Bascule Pier Y Reinforcing - AA (Y = Pier Number)(AA = Footing Level Plan, Pit Level Plan, Machinery Level Plan, Trunnion Level Plan, Roadway Level Plan)"<br>B#BP-Barlist* Bar Lists<br>B#BP-Details* Details<br>B#BP-Elevations* Elevations<br>B#BP-Misc* Miscellaneous<br>B#BP-Plan* Plan<br>B#BP-Quantities* Quantities<br>B#BP-Reinforcing* Reinforcing<br>B#BP-Sections* Sections<br>B#BP-StlFraming* Steel Framing<br>B#BulkheadSeg* Bulkhead Segment Details<br>B#CatwalkDet* Catwalk Details<br>B#CCTVDet* CCTV Details<br>B#ClosureJoint* Closure Joint Details<br>B#CommLayout* Communications Layout<br>B#ConduitRiser* Conduit Riser<br>B#ContinuityTend* Continuity Tendon<br>B#ControlDesk* Control Desk<br>B#CPTGEO* CPT Soundings<br>B#DataTable* Data Tables<br>B#DiaphragmDet* Diaphragm Details<br>B#DrillShaftDeT* Drilled Shaft Details<br>B#DrillShaftLT123* Drilled Shaft Load Test Sites 1,2 and 3<br>B#DriveAssem* Drive Assembly<br>B#DriveDiag* Drive Diagram<br>B#ElecFloorplan* Electrical Floorplans<br>B#ElecMachLayout* Electrical Machinery Layout<br>B#ElecNotes* Notes<br>B#FuturePTLay* Future Post-Tensioning Layout<br>B#GateAssem* Gate Assembly<br>B#GeneratorDet* Generator Details<br>B#Grounding* Grounding and Lighting Protection<br>B#Handrail* Handrail<br>B#HydraCylDet* Hydraulic Cylinder Details<br>B#HydraNote* Hydraulic Notes<br>B#HydraSchem* Hydraulic Schematic<br>B#IOpoints* Input Output Points, PLC<br>B#JointCoord* Segment Joint Coordinates<br>B#JunctionBox* Junction Box<br>B#KeySheet* Bridge Key Sheet<br>B#LadderLogic* Ladder Logic, PLC<br>B#LateralLT* Lateral Load Test Details<br>B#Legend* Symbol Legend<br>B#LongPT* Longitudinal Post-Tensioning<br>B#LTBraceDet* Load Test Reaction Girder Bracing Details<br>B#LTSumDrillShaft* Drilled Shaft Load Test Program Summary<br>B#LTSumPile* Pile Load Test Program Summary<br>B#MCC* Motor Control Center<br>B#MechDet* Mechanical Details<br>B#MechElev* Mechanical Elevation |

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| | B#MechNotes* Notes<br>B#MechPlan* Mechanical Plan<br>B#MechSect* Mechanical Section<br>B#MiscElecDet* Miscellaneous Electrical Details<br>B#MiscMechDet* Miscellaneous Mechanical Details<br>B#MiscStrHighMast* High Mast Lighting<br>B#MiscStrMastarm* Mast Arm Assemblies<br>B#MiscStrOHSign* Overhead Signs<br>B#MiscStrTempBridge* Temp. Bridge Details<br>B#MSEwall* MSE Wall<br>B#MSEWGEO* MSE Wall SPT Borings<br>B#NaviLightDet* Navigation Lighting System Details<br>B#NWGEO* Noise Wall SPT Borings<br>B#OpSeq* Operating Sequence Flowchart<br>B#OsterbergCell* Osterberg Cell 3000 ton Load Testing Device<br>B#PanelBoardSch* Panel Board Schedule<br>B#PierPTDet* Pier Post-Tensioning (PT) Details<br>B#PinionDet* Pinion Details<br>B#Plumbing* Plumbing<br>B#PotBearing* Pot Bearing Details<br>B#Preliminary* Preliminary Plan and Elevation<br>B#PTQuantities* Post-Tensioning Quantities<br>B#RebarList* Reinforcing Bar List<br>B#ReinfAbutSeg* Reinforcing in Abutment Segments<br>B#ReinfClosureSeg* Closure Segment Reinforcing<br>B#ReinfDevSeg* Deviation Segment Reinforcing<br>B#ReinfPierSeg* Reinforcing in Pier Segments<br>B#ReinfSeg* Reinforcing Segements<br>B#RP-Barlist* Bar Lists<br>B#RP-Details* Details<br>B#RP-Elevations* Elevations<br>B#RP-Misc* Miscellaneous<br>B#RP-Notes* Notes<br>B#RP-Plan* Plan<br>B#RP-Quantities* Quantities<br>B#RP-Reinforcing* Reinforcing<br>B#RP-Sections* Sections<br>B#RP-StlFraming* Steel Framing<br>B#RTWGEO* Retaining Wall SPT Borings<br>B#SegConstSeq* Segment Construction Sequence<br>B#SegDimAbut* Abutment Segment Dimensions<br>B#SegDimBox* Precast Box Segment Dimensions<br>B#SegDimCap* Pier Cap Segment Dimensions<br>B#SegDimDev* Deviation Segment Dimensions<br>B#SegDimPier* Pier Segment Dimensions<br>B#SheetPileWallAnch* Anchored Sheet Pile Wall<br>B#SheetPileWallCant* Cantilever Sheet Pile Wall<br>B#SheetPileWallConc* Concrete Sheet Pile Retaining Wall<br>B#SheetPileWallST* Steel Sheet Pile Retaining Wall<br>B#SingleLine* Single Line Diagram<br>B#SitePlan* Site Plan for Rest Area<br>B#SlopeProtectionConcrete* Concrete Slope Protection<br>B#StatnamicLT* Statnamic Load Test Details<br>B#SubCableDet* Submarine Cable Details<br>B#SurfaceFinish* Surface Finish Details<br>B#SurgeSup* Surge Suppression Details<br>B#TendonCurveDet* Tendon Curvature Details<br>B#ThreeLineDiag* Three Line Diagram<br>B#TowerDet* Control Tower Details<br>B#TowerLayout* Tower, Lighting and Pier Layout<br>B#TowerLighting* Control Tower Lighting<br>B#TrafCtrlDet* Traffic Control Details<br>B#TransPTAbut* Abutment Transverse Post-Tensioning<br>B#TransPTPier* Pier Transverse Post-Tensioning<br>B#TransTendonDet* Transverse Tendon Details<br>B#TRNSPORTStructures* Summary of Pay Items Sheet (For Structures only projects)<br>B#TrunAssem* Trunnion Assembly<br>B#TrunDet* Trunnion Details<br>B#WorkID* Work Identification Sheet<br>MSEwall* MSE Wall<br>SheetPileWallAnch* Anchored Sheet Pile Wall - Non-Bridge Related<br>SheetPileWallCant* Cantilever Sheet Pile Wall - Non-Bridge Related |

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| | SheetPileWallConc* Concrete Sheet Pile Retaining Wall - Non-Bridge Related<br>SheetPileWallST* Steel Sheet Pile Retaining Wall - Non-Bridge Related<br>• Geotech Filenames' - Changes to 'Sheet Order' and 'Descriptions':<br>Sheet Order File Name File Description<br>24 clvgeo* Box Culvert Auger and Standard Penetration Test (SPT) Borings<br>34 cptgeo* Cone Penetration Test (CPT) Soundings (Non-Bridge Related)<br>36 msewgeo* Mechanically Stabilized Earth (MSE) Wall Standard Penetration Test (SPT) Borings<br>37 nwgeo* Noise Wall Standard Penetration Test (SPT) Borings<br>38 rtwgeo* Retaining Wall Standard Penetration Test (SPT) Borings<br>39 spgeo* Sheet Pile Wall Standard Penetration Test (SPT) Borings<br>12 sggeo* Signal Standard Penetration Test (SPT) Borings<br>11 sngeo* Signs Standard Penetration Test (SPT) Borings<br>11 B#Boring* Report of Core Borings<br>• Geotech Filenames' - New Filenames created for "Structures" and "Non-Bridge Related"<br>Sheet Order File Name File Description<br>12 B#ConePTGeo* Cone Penetration Test (CPT) Soundings<br>256 B#MSEWallGeo* Mechanically Stabilized Earth (MSE) Wall Standard Penetration Test (SPT) Borings<br>260 B#NoiseWallGeo* Noise Wall Standard Penetration Test (SPT) Borings<br>257 B#RetainingWallGeo* Retaining Wall Standard Penetration Test (SPT) Borings<br>258 B#SheetPileWallGeo* Sheet Pile Wall Standard Penetration Test (SPT) Borings<br>a11 MSEWallGeo* Mechanically Stabilized Earth (MSE) Wall Standard Penetration Test (SPT) Borings (Non-Bridge Related)<br>a12 RetainingWallGeo* Retaining Wall Standard Penetration Test (SPT) Borings (Non-Bridge Related)<br>a13 SheetPileWallGeo* Sheet Pile Wall Standard Penetration Test (SPT) Borings (Non-Bridge Related)<br>a15 NoiseWallGeo* Noise Wall Standard Penetration Test (SPT) Borings (Non-Bridge Related)<br>a16 ConePTGeo* Cone Penetration Test (CPT) Soundings (Non-Bridge Related)<br>• Roadway Filenames' - Changes to "Description"<br>Sheet Order File Name File Description<br>24 clvgeo* Box Culvert Auger and Standard Penetration Test (SPT) Borings<br>34 cptgeo* Cone Penetration Test (CPT) Soundings<br>36 msewgeo* Mechanically Stabilized Earth (MSE) Wall Standard Penetration Test (SPT) Borings<br>51 mtgeo* Mitigation Borings<br>37 nwgeo* Noise Wall Standard Penetration Test (SPT) Borings<br>28 pdgeo* Pond Borings<br>35 rdgeo* Augers Borings<br>33 rdssgeo* Roadway Soil Survey Sheet<br>38 rtwgeo* Retaining Wall Standard Penetration Test (SPT) Borings<br>39 spgeo* Sheet Pile Wall Standard Penetration Test (SPT) Borings<br>12 sggeo* Signal Standard Penetration Test (SPT) Borings<br>11 sngeo* Signs Standard Penetration Test (SPT) Borings |
| **WorkspaceDoctor** | • WorkspaceDoctor is a new application to assist users when cleaning up temporary files like: User Preference File .UPF, GEOPAK RSC files, Temporary files created in the users profile directory by MicroStation and GEOPAK. |

## FDOTSS4\CAiCE

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| **CAiCE Feature Tables** | • **Add Pavement Marking Turn Arrows: Left, Right, Left/Straight, Right/Straight.**<br>• **Added UMISC feature for Miscellaneous Utilities.**<br>• **Added PAVBRK for break lines where the slope of the pavement changes.** |
| **Util.lis** | • Add FOT (Fiber Optic Telephone (Overhead)) |
| **DGNLevel.tbl** | • Added levels for Turn Arrows and UtilMisc_ep, PavtBreak_ep. |
| **Cells** | • Added STAR,STAL,TAR,TAL - Straight/Right/Left Turn Arrow Cells. |

## FDOTSS4\GEOPAK

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| **FDOTSS4.SMD** | • **Added DTM attributes of Spot and Break Line to selected Features. For use with GEOPAK Survey and other third party software.**<br>• **Added Features: STAL,STAR,TAL,TAR,UMISC,PAVBRK for Straight/Left/Right turn arrows, Miscellaneous Utilities, Pavement Break for slope changes. Changed size of all non-feature point text labels to 0.1' to reduce text clutter.** |
| **Drawsign** | • Corrected the Single and Multi-Post > Proposed > Multi-Post 3Post and 4Post entries to call the correct DDB item to place the correct Sign3Post/Sign4Post cells. |
| **Survey** | • Added Features: STAL,STAR,TAL,TAR,UMISC,PAVBRK for Straight/Left/Right turn arrows, Miscellaneous Utilities, Pavement Break for slope changes.<br>• Updated preset DTM attributes.<br>• Changed size of all non-feature point text labels to 0.1' to reduce text clutter. |
| **Rw_ss4eng.ddb** | • Reset GIS PARCEL Levels for Parent Tract and Takes. |
| **FDOTSS4.itl** | • Included a Multi-Lane Milling & Resurfacing template the SR9 D4 project, placed in the Examples folder.<br>• Revised the Traffic Barrier Component height from 32" to 36" per Structures Design Bulletin 16-04<br>• Added Cut and Fill Slope Components for Urban Driveway Template<br>• Set all trigger lines and switches to be excluded from triangulation.<br>• Added example template for resurfacing where overlay is thicker than the milling<br>• Added Rigid Curb and Gutter for transitioning a Type F to Rigid at Bridge<br>• Added 2 Urban Driveway Templates developed for alternative design methods on projects<br>• Added Variable Milling/Overbuild Cross Slope Correction Templates<br>• Fixed the Combined GWall Component and Point Names<br>• Added a Surface Template for SOD areas<br>• Added template to Examples for Training folder for Superelevation Shoulder Rollover Transitions<br>• Added Element Templates, Component Features, Surface Features for Pavement Asphalt FC and Pavement Asphalt FC |

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| | • Changed the Guardrail top out block point feature to use 3D_pm line<br>• Cleaned the Commmon Ditch components, delete ditch parts, improved the constrainst on the ditch pavement, Angle distance<br>• Made all sidewalk rail search components a child of the SW<br>• Added surface templates for proposed and existing<br>• Added Single Sloped Barriers 36" Templates for Bridge Typicals(3)<br>• Added Single Sloped Barriers 42" Templates for Bridge Typical(3) |
| **FDOTSS4.DDB** | • Deleted category for desilting pipes. Memo coming out soon to discourage its use for construction projects. This is a maintenance issue and it is being over used & misused in construction projects. If an issue is found during design, it should be brought to maintenance's attention.<br>• Added Quantity adhoc to double pipe MES. These are calculated by each pipe not as a single construction. Adhoc value set to 2.<br>• Changed to calculation for the Preformed Thermoplastic, White, Solid, 12" to include paint quantities (Standard Unit LF changed to Adhoc Attributes and adhocs added).<br>• Added Guardrail Special Post items. Right now they are using the ActivePoint cell. Meeting with Standards group to discuss. A new cell may need to be created to represent these posts in the plans since we do not have anything currently.<br>• Added item 0711 11103 (Thermoplastic, Std., White, Solid, 12" For Interchange Markings.<br>• Corrected pay item number in the item name for 711-11-103. I left out one of the 1's<br>• Modified item 0107 1 (Litter Removal and Disposal) to use the level MowingAreaSmall. At a designer's request, this will allow for the level differentiation between litter removal areas and mowing areas so they can more easily turn off the different areas during quantity workflow processes. Both the large and small areas are for mowing and maintenance areas.<br>• Corrected the pay item options for the cement concrete pavement for roundabouts. (Only the 8" option is valid.)<br>• Added new items for selective clearing & grubbing and removal of existing concrete to match up with the 110 specification changes. As of now, it is listed as being effective in January. This may change to July 2017.<br>• Corrected the items under Signing to use Set Scale instead of Active Scale. AS is generating errors in cell placement with Draw Sign.<br>• Corrected the Cell Name to match the cell called for in the Design key-in for 635-2-12.<br>• Added asphalt and friction course pay items per joint bulletin effective January 2017.<br>• Added 2 items for the 12" White Preformed Thermoplastic. Need one to calculate paint quantity for projects with new pavement surfaces and one to not include the paint for stand alone pavement marking plans on existing pavement surfaces.<br>• Corrected typo in the 54" FES description<br>• Updated all Pavement Marking items for consistency. Added yellow 2/4 guide line to preformed items. Changed the FC-5 items to compute using the Standard Unit TN:1:80.<br>• Added standard unit SYV (square yard vertical) so that the D&C will calculate the equation needed to get SY for the concrete removal for walls using a variable for the average height of the wall face when calculating using the Adhoc Attributes option. GEOPAK will not calculate the normal equation (SY=element_length*avgheight/9) from the adhoc since there is a standard unit already for SY which conflicts with the equation.<br>• Deleted the category Highway Lighting > Conductors. Per meeting with Chester, Missy, Mary Jane, & Humberto. This is more complicated than expected and all agreed that the designers are & should continue to calculate by hand. |

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| | • Added SORTBY adhoc to Proposed Drainage items that calculate a sod item by adhoc attribute. This corrects issue with sorting on the Summary of Performance Turf automation.<br>• Deleted the pay item combination items for the Removal of Existing Concrete. Construction wants a single pay item. Modified 0110 4 3 to be 0110 4 10 & to calculate the quantities by adhoc attribute. Added items ConcRemovalPlan and ConcRemovalWall to draw in the areas. Plan = area shapes. Wall = linear element with Unit adhoc set to SYV:avgheight. Designers will need to modify the "avgheight" replacing with the average height of the wall face measured in feet.<br><br>NOTE: There are still 2 outstanding items I'm waiting on for the October 2016 releases. 1 - Roundabout approach arrows. I may need to delete these from the DDB but keep the cells in the cell library. 2 - New Mast Arm Pay Items. Pay items and implementation date have not been finalized yet. If they can finalize on Monday, September 26, 2016, and they maintain the implementation date of July 2017, I will possibly be adding these pay items to the database. Also possible cell modifications. |

# FDOTSS4\MDLAPPS

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| **Sheet Navigator** | SheetSetOrdering:<br>• Update all Descriptions to match CADD Manual<br>• Landscp - Add filenames: GRDTLD<br>• Roadway –<br>Ingore filenames: QUANRD, RWDTRD, SURVRD, TCDSRD, UTEXRD, UTPRRD, SLANRD, SLBRRD, SLSRRD<br>Add filenames: SIGNCB, SIGNPC, SIGNVU, CPTGEO*, MSEWGEO*, NWGEO*, RTWGEO*, SPGEO*, TREERD*,<br>• signals –<br>▪ Remove filename: SNGEO<br>o signing –<br>▪ Ingnore filename: AUTOSP<br>• Restructured Structures Filenames to current usage and updated Sheet Order (SEE MasterStandards.xlsx above for details)<br>• Do not include the following Structure filenames as these have varying placements within the contract set:<br>Note: These are created by Structures and can be placed with Structure Plans or Roadways Plans.<br>WallControl*<br>Bulkhead*<br>BulkheadDet*<br>CrashWall*<br>SheetPileWallAnch*<br>SheetPileWallCant*<br>MSEwall*<br>RetainingWall*<br>SheetPileWall*<br>SheetPileWallST*<br>SheetPileWallConc*<br><br>Note: These are created by Structures to be placed within Roadways Plans in various disciplines.<br>NoiseWall*<br>B*MiscStr*<br>B*DataTable*<br>B*DataTableLoadRating*<br>B*MiscStrClvt*<br>B*MiscStrHighMast* |

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| | B*MiscStrMastarm*<br>B*MiscStrOHSign*<br>B*Preliminary*<br>MiscStr*<br>MiscStrClvt*<br>MiscStrHighMast*<br>MiscStrMastarm*<br>MiscStrOHSign*<br><br>▪Add filenames:<br>B#MSEWGEO*, SIGNST, B*INDEX*, B*SUMOFQUANTITIES*, B*SLOPEPROTECTIONCONCRETE*,<br>B*PEDBRIDGEDATATABLE*, B*SHEETPILEWALLANCH*, B*SHEETPILEWALLCANT*, B*NOISEWALL*,<br>▪Remove from Structures:<br>B*SOUNDBARRIER*, B*EXISTINGPLANS*, RDGEO*, B*DataTable*.dgn, B*DataTableLoadRating*.dgn, B*MiscStr*.dgn,<br>B*MiscStrClvt*.dgn, B*MiscStrHighMast*.dgn, B*MiscStrMastarm*.dgn, B*MiscStrOHSign*.dgn, B*Preliminary*.dgn,<br>MiscStr*.dgn, MiscStrClvt*.dgn, MiscStrHighMast*.dgn, MiscStrMastarm*.dgn, MiscStrOHSign*.dgn,<br>▪Correct filenames:<br>B*DRILLSHAFTLT123*, B*OSTERBERGCELL*, B*BL-COUNTERWEIGHT*, B*HYDRACYLDET*, B*SUBCABLEDET*,<br>▪Reorder Structures filenames to match CADD Manual table<br>o utils –<br>▪Remove filename: UTCPUW*<br>▪Add filenames: PLPRUW*, SBVHUW*<br>- IndexingIgnoreFiles:<br>o Remove duplicates<br>o Leave all files listed currently<br>o Include: SLANRD*, SLSRRD*, SLBRRD*<br>o Change/Add listings from specific files to general:<br>▪ BDBR* ▪ BDXS* ▪ AMGM* ▪ RWDT* ▪ DRPR*<br>▪ BDDM* ▪ CS_* ▪ AUTO* ▪ SURVRD* ▪ PRDS*<br>▪ BDPL* ▪ QTDS* ▪ UTEX* ▪ TCDS* ▪ STRBORDER*<br>▪ BDPP* ▪ RDTM* ▪ UTPR* ▪ CORRRD* ▪ UTVH*<br>▪ BDPR* ▪ TYPD* ▪ QUAN* ▪ DREX*<br>- Add IndexingIgnoreFolders<br>o Shortcuts o maint<br>o 3DDeliverables o out<br>o brinspect o permits<br>o calculations o planning<br>o concepts o preestim<br>o GIS<br>- All filenames “UPPER CASE” |
| **KeyMapPdf** | • New key map clipping application that works with PDFs. |

# FDOTSS4\Menus

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| **Standard Menu** | • Updated FDOT web links to new addresses.<br>• Updated Email link to cadd.support@dot.state.fl.us |
| **Actions Menu** | • Added survey reference tool that will create multiple references to the SURVRD files.<br>• Added “Label Shapes with Area” tool which can assist in calculating overbuild area in cross sections. |
| **Cells** (Structures menu) | • Updated links to address changes in cell library. |

# FDOTSS4\resources\cells

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| **Xsections.cel** | • Changed the origin of the ExPipe Cell to the top of the pipe circle<br>• Added a Cell for External Reference Lines on Cross Sections<br>• Added text to xs cells. Also created xs cell for BL Survey and CL Const. |
| **PavementMarkings.cel** | • Created the DelinFlexibl cell to correct a reported Draw Sign issue.<br>• Added RPM's to the Wrong Way Arrow and corrected the dimensions for the arrow. (The quantities for these is included in the cell calculation anyway. Arrows are currently placed with a 3pc file so this will eliminate the need to keep the 3pc.)<br>• Corrected the Active Cell Scale from 38 to 1 and redrafted the Sign2Post cell. |
| **Roadway.cell** | • Updated key sheet note regarding Standard Specifications and the Program Management Office<br>• Updated Keysheets to match revised Keysheet as defined in Design Bulletin (RDB16-03).<br>• Deleted Cells: KMFloridaMap, KNLengthofProj<br>• Added: KNDevDesStdIndex, KNEarlyWorksNote, KNDigitalSigAppearanceNote, KNEngofRecord<br>• Renamed: KNRevIndxDrw to KNAppDSRs (also modified to match new requirement)<br>• Modified: KMNorthArrXM (removed bar scales), KNContractRev (Removed FPID line, moved data fields to line up with Key Sheet Revision Box, added lines, moved header to left justified and matched header size of Key Sheet Revision box), KNGovStdRev (split into 2 statements to match exhibit), KNKeySheetRev (moved origin) KSBuilding(FF) (changed titles to Architectural Plans and changed the Engineer of Record to Professional of Record), KSLandscape(FF) (changed the Engineer of Record to Professional of Record)<br>• Removed Contract Plans Component header from all the key sheets except Roadway.<br>• Added cell KNComponentHeader for use with other key sheets when they become a lead key sheet in the absence of a roadway component.<br>• Deleted the Strain Pole Detail Cell. This cell has been moved to the Signalization Cell library and split into 2 cells, one for the steel strain pole and one for the concrete strain pole.<br>• Deleted cell SHMonoTubeTab because it was removed from Standards. Deleted cells SHMastArmTabulation, SHPoleDataLegend, SHSpecialMastArmDataTable, and SHStandardMastArmDataTable. These cells have been moved to the Signalization.cel.<br>• Corrected origin location for Architectural Keysheet. Moved all "PLANS" text on all Keysheets up slightly to accommodate for keymap placement. |
| **Signalization.cel** | • Added the cell StrainPoleDetail moved over from Roadway.cel and updated to the latest standards.<br>• Added cells SHMastArmTabulation, SHPoleDataLegend, SHSpecialMastArmDataTable, and SHStandardMastArmDataTable. These cells were moved over from the Roadway.cel.<br>• Updated the text in SHPoleDataLegend to match current standards. |
| **SignalPoles.cel** | • Deleted monotube cells. FDOT is no longer supporting them. |
| **Syeng.cel** | • Added STAR,STAL,TAR,TAL - Straight/Right/Left turn arrow cells.<br>• Survey Cross and GND Cross - Reduced size by 50% to 0.25' |
| **Rweng.cel** | • Added STAR,STAL,TAR,TAL - Straight/Right/Left turn arrow cells.<br>• Removed obsolete S-TA |

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| **TypicalSection.cel** | • Removed references to ARB from the typical section pavement design cells to go with joint bulletin effective January 2017. |
| **Ttf_v8structures.cel** | • Updated the cell library to reflect the changes for the Key Sheet Bulletin. Changes are documented in the default model of the cell library.<br>• Added new cells for Single Slope Railings.<br>• Revised cells for concrete and Steel Sheet Pile Walls.<br>• Revised key Sheet cells and added new Key Sheet component cells. |
| **Ttf_v8simi-standards.cel** | • Removed obsolete cell 21900<br>• Added missing cell PBeamTempBracing |
| **Cell Webpages** | • All cell webpages were updated to reflect changes to the cell libraries. |

## FDOTSS4\resources\control_files (for Create File Application)

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| **Roadway.ctl** | • SIGNEM – Corrected file name<br>• CURCEM – Corrected file name<br>• CORRRD – Added missing filename: CORRRD Corridor Design Model<br>• RDXSSP – Corrected description and set to order correctly<br>• NCSEM – Rename to CTLSEM (for consistency, this was missed when changes were made for CTLSRD)<br>• GCTREM – Removed (GCTRRD is no longer used. GDTMRD file is used for showing contours and triangles.)<br>• Removed the word Survey and the word Network from description of PNC sheets so they are now just listed as Project Control Sheets.<br>• removed obsolete filenames (AMGMRD, CORRRD, & RDTMRD) and created a new filename MODLRD for Proposed Design Model |
| **Rw.ctl** | • RWPR* – Removed. This is a duplicate of RWPS and is obsolete.<br>• RWPS* – Update description to R/W Parcel Sketch Sheets<br>• RWSPS* – Update description to R/W Specific Purpose Survey Sheets<br>• Removed the word Survey and the word Network from description of PNC sheets so they are now just listed as Project Control Sheets. |
| **Mechelec.ctl** | • Removed Movable Bridge filenames |
| **Geotech.ctl** | • Structural review to update Structures filenames to current usage and sheet ordering.<br>• Geotech Filenames' – Changes to 'Sheet Order' and 'Descriptions':<br>Sheet Order / File Name / File Description<br>24 clvgeo* Box Culvert Auger and Standard Penetration Test (SPT) Borings<br>34 cptgeo* Cone Penetration Test (CPT) Soundings (Non-Bridge Related)<br>36 msewgeo* Mechanically Stabilized Earth (MSE) Wall Standard Penetration Test (SPT) Borings<br>37 nwgeo* Noise Wall Standard Penetration Test (SPT) Borings<br>38 rtwgeo* Retaining Wall Standard Penetration Test (SPT) Borings<br>39 spgeo* Sheet Pile Wall Standard Penetration Test (SPT) Borings<br>12 sggeo* Signal Standard Penetration Test (SPT) Borings<br>11 sngeo* Signs Standard Penetration Test (SPT) Borings<br>11 B#Boring* Report of Core Borings<br>• Geotech Filenames' – New Filenames created for "Structures" and "Non-Bridge Related" |

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| | Sheet Order File Name File Description<br>12 B#ConePTGeo* Cone Penetration Test (CPT) Soundings<br>256 B#MSEWallGeo* Mechanically Stabilized Earth (MSE) Wall Standard Penetration Test (SPT) Borings<br>260 B#NoiseWallGeo* Noise Wall Standard Penetration Test (SPT) Borings<br>257 B#RetainingWallGeo* Retaining Wall Standard Penetration Test (SPT) Borings<br>258 B#SheetPileWallGeo* Sheet Pile Wall Standard Penetration Test (SPT) Borings<br>a11 MSEWallGeo* Mechanically Stabilized Earth (MSE) Wall Standard Penetration Test (SPT) Borings (Non-Bridge Related)<br>a12 RetainingWallGeo* Retaining Wall Standard Penetration Test (SPT) Borings (Non-Bridge Related)<br>a13 SheetPileWallGeo* Sheet Pile Wall Standard Penetration Test (SPT) Borings (Non-Bridge Related)<br>a15 NoiseWallGeo* Noise Wall Standard Penetration Test (SPT) Borings (Non-Bridge Related)<br>a16 ConePTGeo* Cone Penetration Test (CPT) Soundings (Non-Bridge Related)<br>Geotech Filenames' for Roadway - Changes to "Description"<br>Sheet Order File Name File Description<br>24 clvgeo* Box Culvert Auger and Standard Penetration Test (SPT) Borings<br>34 cptgeo* Cone Penetration Test (CPT) Soundings<br>36 msewgeo* Mechanically Stabilized Earth (MSE) Wall Standard Penetration Test (SPT) Borings<br>51 mtgeo* Mitigation Borings<br>37 nwgeo* Noise Wall Standard Penetration Test (SPT) Borings<br>28 pdgeo* Pond Borings<br>35 rdgeo* Augers Borings<br>33 rdssgeo* Roadway Soil Survey Sheet<br>38 rtwgeo* Retaining Wall Standard Penetration Test (SPT) Borings<br>39 spgeo* Sheet Pile Wall Standard Penetration Test (SPT) Borings<br>12 sggeo* Signal Standard Penetration Test (SPT) Borings<br>11 sngeo* Signs Standard Penetration Test (SPT) Borings |

## FDOTSS4\resources\dgnlibs

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| **User Interface**<br>(Task Menu Options and right-click menu options) | • Added right-click options to ALGNRD, PLAYRD, and added some tools to the Plans Development Menu.<br>• Added context menu option for Key Sheet file (KEYSRD) to place new cells added to the cell library.<br>• Added Context Menu option to place Component List header cell for component key sheets (not roadway).<br>• Modified KEYSRD to locate by 4 characters so that ALL key sheets would get the options.<br>• Moved the component key sheets to top of list above KEYS so that the option to just place key sheet for that discipline would be at the top.<br>• Added TABQ to the list of files. Set up options for LDM and Quantity Manager for the tab sheet files for all disciplines. |

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| **Horizontal and Vertical Geometry** | • Revised [Horizontal - Interstate/Freeway - Flat Terrain and Rolling Terrain - 70MPH the maximum curvature is 3°00', which corresponds to a minimum radius of 1,910'. Per PPM Vol 1 Table 2.8.3<br>• Corrected a reported issue with the Default and Minimum Hor.Curve Radius Values for Urban Arterials and Collectors > 40 mph |
| **Levels** | • Updated description for MowingAreaSmall level to include: "(Includes Litter Removal Areas)"<br>• Updated descriptions for all CCTV levels to expand "CC" to "Closed Circuit"<br>• Added new level, ConcreteRemoval, needed for area computations for concrete removal (sidewalks/driveways, curb elements, ditch pavement, slope pavement, and concrete rigid pavement). New level added to the QTDSRD filter.<br>• Added #5021 DitchPavt level to the filters: DRDTRD, DRPRRD & DRMPRD<br>• TreeProtection Level, add the new Linestyle and change from "0/Continuous" to "RD-TreeProtection"<br>• PipeCulvert Level, Linestyle should be changed from "2/DGN2" to "0/Continuous"<br>• Corrected spelling in Parent Tract Parcel level descriptions<br>• Created new cross section levels (BLSurvey_px and CLConst_px) and added to Rule Filters: dsgnrd,drxsrd,pdxsrd,rdxsrd,rdxssp,typdrd,qtdsrd,tcdsrd,utadrd,utprrd |
| **Styles**<br>**(text & dimension)** | • Added Text Style - "Text Chain".<br>• Removed Begin/End Key sheet dimension style. |
| **Features** | • Revised 2DPlan features to use the 3D Line from Profile Element Template<br>• Added a Terrain Filter Group for Finish Surface<br>• Add New Feature Definitions for ExistingOnStructure and ExistingBelowStructure Terrains<br>• Added Element Templates, Component Features, Surface Features for Pavement Asphalt FC and Pavement Asphalt FC<br>• Added element template for miscellaneous profile and archaeological sites<br>• Updated feature for projected profiles.<br>• Added existing Drainage folder for existing drainage features.<br>• Changed the ConstLines_pm level to be non-plotting<br>• Updated 3D lines PlanActiveProfile to be on ConstrLines_PM<br>• Miscellaneous changes to features and element templates to allow 3D model to pass QC and for Cross Section cell features to plot on *_px levels<br>• Added feature name prefixes for existing Drainage Pipes<br>• Added existing Drainage Structures for SUE.<br>• Added 3D Drainage features and nodes.<br>• Updated Traffic Plans Feature library to match DDB<br>• Added new level to CL and BL feature for cross sections.<br>• Revised Element Template definitions for the Terrain Existing Boundary, Hole, Island and Void to use level DTM_ex, to differentiate between the level, DTM_ep, that the survey lines are coded<br>• Revised the Feature Name prefix for RW , Fence, and Wetland lines to be use for labeling on cross sections<br>• Added additional Construction Line Features and Element templates for Red, RedDash, Yellow, YellowDash, White and WhiteDash<br>Updated Filters for all Rules (except rweng10,spst10,survrd) to include Construction Element levels: |

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| | ConstLines (non-plotting)<br>ConstLines_pm (non-plotting)<br>ImageAttachment_dp (plotting)<br>Logo_dp (plotting)<br>Miscellaneous1 (1-9) (plotting)<br>NonPlottingEle_dp (non-plotting)<br>Scratch1_dp (plotting)<br>Scratch2_dp (plotting)<br>ScratchEle_dp (non-plotting)<br>ScratchEle2_dp (non-plotting)<br>SpecialDetails (plotting)<br>TextConstEle (non-plotting) |
| **Survey Features** | • Embedded latest ROW_Display.xml to Add Features: STAL,STAR,TAL,TAR,UMISC,PAVBRK for Straight/Left/Right turn arrows, Miscellaneous Utilities, Pavement Break for slope changes. Changed size of all non-feature point text labels to 0.1' to reduce text clutter. |
| **Civil Cells** | • added as Dgnlibs/Civil_Cells/FDOT_RampTerminals.dgnlib |

## FDOTSS4\resources\linestyles

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| **Custom Linestyles** | • Added Selective Clearing And Grubbing LineStyles<br>• Updated spacing in Lane Line linestyle for use in survey. |

## FDOTSS4\vba

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| **VBAs** | • Revised Point Elevation Labeling to replace Bentley's. Used in GEOPAK Survey<br>• Updated Macro Descriptions (header) for Linear Feature Description label, Point Elevation Label, and Point Cell Rotation. Used in GEOPAK Survey<br>• New VBA to Attach the SURVRD01 design file four times with four different level filters.<br>**KeyIn: vba run [AttachSurvRef]modAttachSurvRefFile.main**<br>• Modified the Merge Reference Levels tool to list only one instance of a referenced file using the Logical Name to copy the levels.<br>• Removed extra rows from DrainStructSummary Master File so unused columns would be removed automatically when the Summary of Drainage Structure sheets are created. |

## FDOTSS4\workspace

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| **Sitefdot.txt** | • Added config variable FDOT_KEYMAP_TXT for new key map clipping program |
| **Roadway.txt** | • Added Existing 3D Drainage cell library to cell list.<br>• Added Curve Stroking = 0.01 to "If Survey Features Included". |

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| | • Added Variables CIVIL_CROSSSECTION_ANNOTATION_FEATURENAME_PREFIX=1 to enhance cross section annotation capability. |
| **GIS** | • Updated layer ParentTrackParcel name to ParentTractParcel<br>• changed field lengths for Owner and RoadName<br>• Updated number of characters for instrument number and book number from 8 to 20<br>• Updated number of characters for Description and Comments |
| **RightOfWay.txt** | • Added configuration variable: CIVIL_SURVEY_RETAIN_SURVEY_ON_COPY=1 |

# FDOTSS4 Maintenance Release (MR) 1

FDOTSS4 MR1 contains updates necessitated by changes to Design Standards, Plans Preparation Manual (PPM), and the Basis of Estimates (BOE) as well as bug fixes to address reported issues.

## FDOTSS4\Applications

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| **Create3DDeliverables** | • Added new application that copies know 3DDeliverable files from other directories in the project to the 3D Deliverables directory. Shortcuts are included in the latest versions of the Client and Stand-Alone Workstation installers. |
| **Create Project** | • Added new application to create FDOT project directories. Shortcuts are included in the latest versions of the Client and Stand-Alone Workstation installers. |
| **FileChecker** | • Added exclusions for 3DDeliverables folder and files.<br>• Updated Compliance Data to allow for 3 digit bridge names (against standard naming convention). |
| **LandXMLGrouper** | • Re-compile required for LandXML object change, added Alias property to CgPoint object. Code now differentiates the code and alias template_builder definitions, properly.<br>• Added code to remove extra survey metadata and further description processing.<br>• Added code to process zone property. If a property is found in the CGPoint Feature Properties that conflicts with the CGPoint attribute or is missing, replace the attribute with the property value. The default zone is extracted from the code Group property if available.<br>• Removed apostrophe and feature code STM/STML updates.<br>• Added code to process multiple alias feature code definitions and to convert alias names to feature code names in the point properties and the point code value. |
| **LandXMLVisualizer** | • Added 3 point curve to PlanFeature CoorGeom element. |
| **LDM** | • LDM Application Updates:<br>• Fixed issue when a document uses numbering, and the option to restart numbering has been used, the new value needs to be shown in MicroStation.<br>• Fixed issue where word wrap shown in the Word document is not wrapping in MicroStation.<br>• Template\Table Updates:<br>• Added Summary of Traffic Monitoring Site Items, Existing Pavement Cross Slope Table and Existing Pavement Superelevation Table.<br>• Added table for Existing_Pavement_Cross_Slopes<br>• Added table for Existing_Pavement_Superelevation<br>• Added Digital Signature Appearance docx templates for Roadway and Structures to place the new required text per Board rules effective November 2015. |

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| | • Added DigitalSignatureAppearanceKS.docx for use on the Key Sheets.<br>• Summary_of_Side_Drain_and_MES - Modified to add P & F columns for the quantities.<br>• Soil_Survey - Formatting to match PPM changes.<br>• In many tables, changed SortBy to all caps. This fixes issue when the All Caps option is toggled on, it no longer sorts the data.<br>• Summary_of_Turnouts_Expanded - Corrected the title of the summary box to match the BOE... Summary of Turnouts not Summary of Turnout Construction.<br>• Standard Mast Arm Tabulation.xlsx - Corrected the Print Area.<br>• Summary_of_Misc_Asphalt - Updated formulas.<br>• ProjectNotes.txt - Added note for the special event days. Also being added to the PPM.<br>• PayItemNotes.txt - Removed note #7 for the paint items included are for TTC. Redundant note that is also being removed from the PPM.<br>• PROJECT NOTES.docx - Added note for the special event days.<br>• sbfldt.xlsx - Updated descriptions to match the exhibit 5-1 in the PPM, Vol 2.<br>• Summary Reports/Tabulation_of_QuantitiesSPM.xlsx - Added standard note (per PPM) to bottom of the sheet for 710-90 quantities.<br>• Summary_of_Trench_Drain - Removed Trench Drain Special pay item 436-1-2. Item blocked.<br>• Summary_of_Turf_and_Prepared_Soil_Expanded - Removed Prepared Soil Layer pay item 162-1-33. Blocked.<br>• Summary_of_Guardrail_Expanded - Removed columns for Thrie Beam Guardrail.<br>• Summary_of_Railing_Expanded - Removed columns for obsolete items (515-2-319, 515-2-329, & 515-2-419).<br>• Summary_of_Temporary_Crash_Cushions - Reset the print area in the file to address issue with the automation due to the print area. |
| **SyncXS** | • Added new application to synchronize data created in early stages of cross section development. Things like bore holes, utilities, R\W Lines and such can be created early and referenced into you cross sections eliminating the need to recreate this annotation each time cross section sheets are cut. This utility will synchronize the cross section cells in one model with those from another so the data is properly aligned. |
| **QCInspector** | • Added "Feature Defintion" to gridview report for special handling of 3D models. Any level in a model name that ends in "-3D" must end in " pm" or " px" to be valid.<br>• Fixed meshheader linestyle check failure from moving mesheaders to "Default" level. No longer checks mesh header linestyle<br>• Fixed exception errors when properties of element could not be determined Level - move to default level Color, weight, and/or linestyle set to ByLevel. |
| **MasterStandards.xlsx** | • Corrected Critical settings for the following levels:<br>• Critical Rule File Level Name<br>X rwdtrd GovSectionLine_ep<br>X survrd GovSectionLine_ep<br>X survrd GovTwpRgeLine_ep<br>X survrd LARWLine<br>X survrd LARWLine_ep<br>X utadrd Manhole_px<br>X utprrd Manhole_px<br>X survrd PropertyLine_ep<br>X rwdtrd RefPtLine<br>X survrd RefPtLine<br>X topord RefPtLine<br>X survrd RefPtText<br>X topord RefPtText<br>X topord RRBaseline<br>X rdxsrd RWLine<br>X survrd RWLine_ep |

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| | • Minor Corrections to the Descriptions for the following levels:<br>Rule File Level Name Level Description<br>survrd BankMent_ep Embankment (Manmade, Top or Bottom) (Existing)<br>topord BankMent_ep Embankment (Manmade, Top or Bottom) (Existing)<br>drexrd Basins_ep Sediment Basins, Retention Ponds (Existing)<br>dsgnrd Bridge_px Bridge Component on Cross Sections - Component Property<br>dsgnsg Detector Detector Cabinet, Button and Miscellaneous Assemblies<br>msarsp Detector Detector Cabinet, Button and Miscellaneous Assemblies<br>dsgnrd DTM_ex Digital Terrain Model on Cross Sections (Existing)<br>survrd DTM_ex Digital Terrain Model on Cross Sections (Existing)<br>dsgnrd DTM_px Digital Terrain Model on Cross Sections<br>dtmrd DTM_px Digital Terrain Model on Cross Sections<br>drdtrd GovSectionLine_ep Section Lines (Existing)<br>survrd GovSectionLine_ep Section Lines (Existing)<br>qtdsrd GuardrailBRLt Guardrail Bridge (Left)<br>tcdsrd GuardrailBRLt Guardrail Bridge (Left)<br>typdrd GuardrailBRLt Guardrail Bridge (Left)<br>qtdsrd GuardrailBRRt Guardrail Bridge (Right)<br>tcdsrd GuardrailBRRt Guardrail Bridge (Right)<br>typdrd GuardrailBRRt Guardrail Bridge (Right)<br>qtdsrd GuardrailDbl Guardrail (Double Face)<br>tcdsrd GuardrailDbl Guardrail (Double Face)<br>typdrd GuardrailDbl Guardrail (Double Face)<br>qtdsrd GuardrailEndAch Guardrail (End Anchorage)<br>tcdsrd GuardrailEndAch Guardrail (End Anchorage)<br>typdrd GuardrailEndAch Guardrail (End Anchorage)<br>qtdsrd GuardrailLt Guardrail (Left)<br>tcdsrd GuardrailLt Guardrail (Left)<br>typdrd GuardrailLt Guardrail (Left)<br>qtdsrd GuardrailModThrieDbl Guardrail Modified Thrie Beam (Double Face)<br>tcdsrd GuardrailModThrieDbl Guardrail Modified Thrie Beam (Double Face)<br>typdrd GuardrailModThrieDbl Guardrail Modified Thrie Beam (Double Face)<br>qtdsrd GuardrailModThrieLt Guardrail Modified Thrie Beam (Left)<br>tcdsrd GuardrailModThrieLt Guardrail Modified Thrie Beam (Left)<br>typdrd GuardrailModThrieLt Guardrail Modified Thrie Beam (Left)<br>qtdsrd GuardrailModThrieRt Guardrail Modified Thrie Beam (Right)<br>tcdsrd GuardrailModThrieRt Guardrail Modified Thrie Beam (Right)<br>typdrd GuardrailModThrieRt Guardrail Modified Thrie Beam (Right)<br>dsgnrd GuardrailPanel_px Guardrail Component Property on Cross Sections for 3D Guardrail Panels<br>dsgnrd GuardrailPost_px Guardrail Component Property on Cross Sections for 3D Guardrail Posts<br>survrd LARWLine Limited Access Right of Way Lines<br>survrd LARWLine_ep Limited Access Right of Way Lines (Existing)<br>dsgnsp Pavemk_ep Pavement Markings (All) (Existing)<br>survrd PropertyLine_ep Property Lines (Existing)<br>survrd Railing_ep Railings (All); Piperail, Guiderail, Handrail Used for Pedestrian and Bicycles (Existing)<br>rwdtrd RefPtText Annotation: Text: Survey Data Reference Point (Miscellaneous) |

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| | survrd RefPtText Annotation: Text: Survey Data Reference Point (Miscellaneous)<br>topord RefPtText Annotation: Text: Survey Data Reference Point (Miscellaneous)<br>survrd SateDish_ep Satellite Dish Antenna (Existing)<br>utadrd SateDish_ep Satellite Dish Antenna (Existing)<br>utexrd SateDish_ep Satellite Dish Antenna (Existing)<br>utprrd SateDish_ep Satellite Dish Antenna (Existing)<br>survrd SubDivLine Subdivision Line<br>dsgnrd SubsoilProp_px Subsoil Proposed for Multiline on Cross Sections<br>rdxssp SubsoilProp_px Subsoil Proposed for Multiline on Cross Sections<br>typdrd SubsoilProp_px Subsoil Proposed for Multiline on Cross Sections<br>utprrd TeleAer_ep Telephone Line (Aerial) (Existing)<br>survrd UtilMisc_ep Utility Items (Miscellaneous) (Existing)<br>utexrd UtilMisc_ep Utility Items (Miscellaneous) (Existing)<br>utadrd Vault_ep Vaults Above Grade and Below Grade (Existing)<br>utprrd WaterNP Water Line (Non Potable)<br>rdxssp XSTypical_px Cross Section Roadway Pavement Typical<br>tcdsrd XSTypical_px Cross Section Roadway Pavement Typical<br>Corrected Line Style/Linetype for the following level<br>Rule File Level Name ByLevel Style<br>survrd FOEElecAer_epUT-OverheadFOE-Existing<br>utadrd FOEElecAer_epUT-OverheadFOE-Existing<br>utexrd FOEElecAer_epUT-OverheadFOE-Existing<br>utprrd FOEElecAer_epUT-OverheadFOE-Existing<br>• Corrected Feature Code for the following levels:<br>Rule File Level Name Feature Code<br>utexrd FOTBurC_ep FOC<br>utexrd FOTBurD_ep FOD<br>• Corrected Feature Code<br>Rule File Level Name Feature Code<br>survrd FOTBurB_ep FOB<br>survrd FOTBurC_ep FOC<br>survrd FOTBurD_ep FOD<br>• Level Name Feature Code<br>FOTBurB_ep FOUB<br>FOTBurC_ep FOUC<br>FOTBurD_ep FOUD<br>• Added missing Level Name:<br>Level No Level<br>7014 Gas<br>• Updated AutoCAD Templates for:<br>DRXSCN,GDTMEM,GDTMRD,PDXSCN,RDXSCN,RDXSEM,RDXDRD,<br>TOPOCN,TOPOEM,TOPOLD,TOPOLT,TPOPRD,TOPOSP,TOPOSG,TOPOUW,UTEXCN,UTEXRD,UTVHEM, UTVHRD,UTVHUW<br>• Created new standard roadway filename to accommodate a new PPM change in Jan 2016 for Traffic Monitoring Site: TMSSRD - Traffic Monitoring Site Plans Sheet |

## FDOTSS4\CAiCE

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| **CAiCE Feature Tables** | • Remove "Planter" from STP Feature Code description.<br>• Add FOT (Fiber Optic Telephone (Overhead)), |

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| | • Revise to use survey text levels 328-332 for chain descriptions. |
| **Util.lis** | • Add FOT (Fiber Optic Telephone (Overhead)) |
| **DGNLevel.tbl** | • Added 1374, FOTBurB_ep, 1375, FOTBurC_ep, 1376, FOTBurD_ep. |

## FDOTSS4\GEOPAK

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| **DrawSign** | • Removed Electric Power Ground Mount and Overhead Mount selection and item entries code. |
| **FDOTSS4.itl** | • Made constraint changes to the Driveway modeling template Utility Strip Point and CurbBack Vertical Offsets.<br>• Fixed the PPM EXHIBIT Templates UPSHLDR ranges that cause conflicts in the placement and creation of the 3D Civil Cells.<br>• Corrected the Variable Median Template that had bad Point Feature Definitions on the Median Crossover Slopebreak Points<br>• Fixed the Expavt Slope Templates for the Existing Pavement Slope Reports. I added templates to have the points Project to Surface, but reworked them because the problem with the columns being rearranged came down to the order the components were drawn in the template. However, I created the Existing Pavement Slopes in 2 different ways.<br>1. Points configured to Project to Surface. (PPTS)<br>2. End Condition Components Projecting to Surface. (ECCPTS)<br>• Added Linear Templates for Driveway tie down and Shoulder Only<br>• Revised the Type F Drop Curb Transition template to have the back gutter slope follow driveway slope |
| **FDOTSS4.ddb** | • Corrected compute parameter units for Signal Heads (650), Crash Cushion (544) and TMS items (663, 695, 741 & 744).<br>• Corrected the computation method for pay items 350-5 and 350-6 (cleaning & sealing joints and random cracks for concrete pavement). Changed from SY to LF.<br>• Added 50' Type A loops.<br>• Removed the TL-3 version of the Double Faced Approach Terminal & adjusted the guardrail lengths included in the Type II and CRT to reflect new value in the DSR.<br>• Modified the Guardrail items to include the options for the new End Treatment cells and new guardrail pay item for TL-2 w-beam.<br>• Modified the thermoplastic items to calculate the paint quantities with the thermoplastic.<br>• Paint & Thermoplastic - Arrows - Added name to adhoc for sorting; Messages - changed compute parameter to use Adhoc Attributes and added adhocs with name included for sorting.<br>• Corrected the unit for 695-3-11 and 695-3-12. EA changed to AS.<br>• Paved Shoulder Hatching items corrupted. Recreated the items.<br>• Removed adhocs for thrie beam from guardrail end anchorage assemblies<br>• Correct levels for Drainage flow arrows and contours (these were changed in level library & missed here)<br>• Deleted the thrie beam and double thrie beam items from the guardrail category (blocked 12-31-15);<br>• Deleted special inlets (blocked 12-31-15)<br>• Corrected the line style setting for the silt fence item.<br>• Removed category for Electric Powered Signs - No longer valid.<br>• Deleted obsolete pay items: 515-2-319, 515-2-329, 515-2-419, 102-910, 162-1-33, 436-1-2, 650-1-31, 671-2-31, 671-2-41, 671-2-42, 715-11-121, 715-11-122, 715-11-123, 715-11-124, 715-11-126, 715-11-127, 715-11-131, 715-11-132, 715-11-133, 715-11-134, 715-11- |

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| | 135, ALL of the TMS pay items under the 700 series/Signalization category.<br>• Correct the Compute Parameter from Equation to Standard Unit.<br>• Added Bullet Railing - 515-4-A.<br>• Moved Internally Illuminated Signs from Signalization to Signing and corrected pay item numbers to the correct 700-5-AB pay items. |
| **Superelevation Tables** | Changed the eRounding parameter from 0.1 to 0.001 because the calculation were not accurate enough. |
| **Survey_Display.xml** | • Adjusted point label size to static 0.5 or 0.2 with annotation scale off.<br>• Categorized Existing Topography to display based on intended zone. Removed "Planter" from STP Feature Code Description. |

# FDOTSS4\MDLAPPS

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| **Sheet Navigator** | • Added sheet order entry for traffic monitoring site.<br>• Added new filename to sheet order entry for SIGNUW – Digital Signatures<br>• Added new filename to sheet order entry for CESSUW – Summary of Pay Items Sheets |
| **Fdot.Features** | • Added additional levels to Features to make level management easier. |

# FDOTSS4\Menus

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| **Actions Menu** | • Corrected Trns*port to TRNS*port |
| **Other Menus** | • Updated help files and links.<br>• Began incorporating YouTube videos into help files. This will be an ongoing process. |

# FDOTSS4\Resources

## *Cells*

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| **Roadway.cel** | • Updated the "Standard Specifications note".<br>• Corrected the rule number in the Digital Signature Notes to correspond with latest rule changes. Added the word digitally to the electronic delivery notes and removed the word Notice from the beginning.<br>• Corrected Description for Manual GuidSIGN 3 Pane Sheet.<br>• Added EndTreat* cells to go with the proposed guardrail DSR effective July 2017 (can be implemented earlier starting July 2016) these cells will eventually replace the EndAnch* cells currently in the library.<br>• The option for the TL-2 Double Faced Approach Terminal will not be included in the Design Standards. It has been deleted the cell from the library<br>• Renamed the TL-3 cell to EndTrearDoubleFaced (without the 3 on the end). |
| **Signalization.cel** | • Deleted ped head cells for all but the countdown options per PPM Vol 1 Chapter 7.<br>• Corrected the pay item numbers for the signal head cells and added pay item number to the ped head cells. |

## *Control Files*

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| **ROADWAY.CTL** | • Created new standard roadway filename to accommodate a new PPM change in Jan 2016 for Traffic Monitoring Site: TMSSRD - Traffic Monitoring Site Plans Sheet<br>• Signature Sheets are now required even if only one signatory. Remove verbiage " - Multi" from all descriptions for SIGN## filenames.<br>• Created separate Signature sheets for the Early Works sheets:<br>• SIGNPC - Project Network Control<br>• SIGNCB - Core Borings<br>• SIGNVU - Verified Utilities<br>• Added filenames occur in other discipline to include Utilities:<br>• DSPFUW – Proposed Profile<br>• SIGNUW – Digital Signatures<br>• CESSUW – Summary of Pay Items Sheets<br>• Added syntax for creating SUPERELEVATION model in DSGNRD |

## *DGNLIB Libraries*

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| **FDOT_CivilFeatures_RD.dgnlib** | • **Added wetland features.**<br>• **Moved all of the railings into one category named Railings. Added category for bullet railing 515-4-A.**<br>• **Removed obsolete railing features.**<br>• **Deleted levels that were embedded in the file.** |
| **FDOTtoolboxes.dgnlib** | • Updated Traffic Control cell library tools.<br>• Added Sync XS to Cross Section tool box.<br>• updated tool icons and balloon text for TRNS*port<br>• Added context menus to load and unload the survey labels VBA if the active file begins with TOPORD, UTEXRD, DREXRD, or SURVRD. |
| **FFDOT_DesignGeometricsCriteria.dgnlib** | • Check all the K values for the Design Facility types and set the default vertical design check parameter to K-Value instead of the L min.<br>• Added RRR Vertical and Horizontal Curve Design Standards to provide for checking of crest vertical curves on RRR projects in accordance with PPM Chapter 25.4.10.1, Table 25.4.10.1 and 25.4.11.1, Table 25.4.11.1 respectively. |
| **rwlevels.dgnlib** | • Add levels 328-331 (Survey Text Labels) to TOPORW and D2 TOPORW filters. |
| **survey_levels.dgnlib** | • Add Survey Text label filter. |
| **fdot_v8_levels.dgnlib** | • Changed color on DrainMisc from Red to tan.<br>• Added to UTEXRD filter: levels 1374-1376 (FOTBur*_ep) |
| **FDOT_Styles.dgnlib**<br>**(Dimension and Text Styles)** | • Updated Key sheet labels to be able to have a dimlines in between begin/end project labels.<br>• Updated Note Dimension Style to dynamic justification and the leader to begin at the midpoint of the first line. |
| **FDOT_SidewalkCurbRamps.dgnlib**<br>**(Civil Cells)** | • Re-working the 2D Ramps A, B, C, D, E, F, G, H. Added Left and right versions for D, F, G, H.<br>• Revisions to Type A and Type E for non-perpendicular but parallel ramp lines.<br>• Added Sidewalk Ramp Type L. |
| **FDOT_CurbGutterMaker.dgnlib**<br>**(Civil Cells)** | • New DGNLIB for Curb Line Types and Curb Transitions |
| **FDOT_RampTerminals.dgn**<br>**(Civil Cells)** | • Example RampTerminal Civil Cell |
| **FDOT_Templates.dgnlib** | • Revised PPM templates 3, 4, 5, 6, 6B for 7 foot bike lane. |

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| **(Civil Cells)** | |
| **FDOTtoolboxes.dgnlib**<br>**(Civil Cells)** | • Added selector tool to right-click and main task tools.<br>• Added new right-click to GKLNRD file.<br>• Added tools for Drainage Plans.<br>• Updated cell scales. |
| **survey_levels.dgnlib** | • Delete Handrail_ep (1052), add in its place Railing_ep (1197). |

### *Custom Linetyles*

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| **FDOT_MOT.rsc** | • Updated attenuator linestyle. |

### *Seed Files*

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| **fdotseed3d.dgn** | • Removed embedded element templates and features. |

## FDOTSS4\VBA

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| **FDOTNotes.xls** | • Add survey macro features for auto labeling. |
| **FDOT_DrainStructSummaryMaster.xls** | • Copied and inserted the pre-formatted lines in the template to give the designers more lines to copy to get them started. |
| **DrainStructSummaryApp.dat** | • Increased the text size for the text below the header to 0.07. |
| **LabelShapesWithID.mvba** | • Changed the View Display Setting BACK to Illustration:Ignore Lighting instead of Illustration:Shadows |

## FDOTSS4\Workspace

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| **GIS.txt** | • Added configuration variable ECSDK_GEOMETRY_STROKING_TOLERANCE=0.1 for GIS Shape file exports (curve stroking set to 0.1). |
| **Roadway.txt** | • Added new 3d drainage cell libraries to cell list.<br>• Added Drainage feature to load with Drainage Menu.<br>• Added config variables for SUDA data. |
| **SiteFdot.txt** | • Added variables to support new SyncXS application.<br>• Renamed fdot SS3 to Survey Dislplay for clarity. |