

```

1 Imports SwConst
2 Imports SwCommandsSHEET_Template
3 Imports SldWorks
4 Imports System.IO
5
6 Public Class New_Drawing
7
8     Dim swApp As SldWorks.SldWorks
9     Dim swDraw As DrawingDoc
10    Dim swDoc As ModelDoc2
11    Dim CurDoc As ModelDoc2
12    Dim swSheet As Sheet
13    Dim CusProperties As CustomPropertyManager
14    Dim CusProperties_Part As CustomPropertyManager
15    Dim CusProperties_Assy As CustomPropertyManager
16    Dim swModelDocExt As ModelDocExtension
17    Dim swModelDocExt_Part As ModelDocExtension
18    Dim swModelDocExt_Assy As ModelDocExtension
19    Dim Bool_Result As Boolean
20    ReadOnly DRAW_Template As String = "T:\\Engineering\\East Alton\\ENGINEERING
        PROCEDURES\\Structural Drawing Standards\\B SIZE JULY 23 2021.DRWDOT"
21    ReadOnly SHEET_Template As String = "T:\\Engineering\\East Alton\\ENGINEERING
        PROCEDURES\\Structural Drawing Standards\\2021 Cover Sheet.slddrt"
22    Dim PC_USER As String = System.Environment.UserName
23    Dim FullPathName As String
24    Dim swView As View
25    Dim annotations As Object
26    Dim User_Saved As Boolean = False
27    Dim Add_Sheet_Count As Integer = 3
28    Dim Sheet_Count As Integer = 0
29    Dim Drawing_Name_Saved As String
30    Dim Add_Bom As Boolean = False
31    Dim Clicked As Boolean = False
32    Dim Title_ As String
33    Dim Dir As String = "T:\\Engineering\\Engineering Projects\\East Alton"
34    Dim Aircraft_Num As String
35    Dim Add_View_Page As Integer
36    Dim Opened_Files_Names As New List(Of String)
37
38    'Dim Instance_list As New List(Of String)()
39    Dim InstanceID_Added As Boolean = False
40    Dim Main_Assy_Name As String
41    Dim swFiles As New List(Of SW_Opened_Files)()
42
43    Structure SW_Opened_Files
44        Public Parent As String
45        Public Child As String
46        Public Instance_ID As String
47
48
49        Public Sub New(s1 As String, s2 As String, s3 As String)
50            Parent = s1

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```
51         Child = s2
52         Instance_ID = s3
53
54     End Sub
55 End Structure
56
57
58 Private Sub Form_Resize() Handles Me.ResizeEnd
59     Functions.Form_resize(Me)
60 End Sub
61
62 Private Sub New_Drawing_Load(sender As Object, e As EventArgs) Handles MyBase.Load, Reload.Click
63
64     Dim PC_USER As String = System.Environment.UserName
65     Dim Dir As String = "T:\\Engineering\\Engineering Projects\\East Alton"
66     Dim Start_Char As String
67
68
69     SWFunctions.swAssy_Docs.Clear()
70     SWFunctions.swPart_Docs.Clear()
71     SWFunctions.swDwg_Docs.Clear()
72
73     Title_ = Me.Text
74     Me.Height = 250
75
76     Form_Resize()
77
78     Opened_ASSY.Visible = False
79     Opened_ASSY.Items.Clear()
80     Opened_Part.Visible = False
81     Opened_Part.Items.Clear()
82
83     Same_Parts_Page_Checkbox.Checked = False
84     Same_Assy_Page_Checkbox.Checked = False
85     Same_Parts_Page_Checkbox.Visible = False
86     Same_Assy_Page_Checkbox.Visible = False
87
88     Notes_Groups.Visible = True
89     Add_BOM_Hardware.Visible = True
90     Instructions_Label.Visible = False
91
92     Clicked = False
93     Title.Enabled = True
94     AC_Serial.Enabled = True
95     Request.Enabled = True
96     Drawing_Num.Enabled = True
97
98     For Each Folder In System.IO.Directory.GetDirectories(Dir)
99
100         'Dim file = String.Empty
101         Dim File_name As String = System.IO.Path.GetFileNameWithoutExtension
```

```

(Folder)
102     Start_Char = File_name.Substring(0, 4)
103
104     If Start_Char = "BOMB" Or Start_Char = "CESS" Or Start_Char = "CANA" Or
        Or
105         Start_Char = "EMBR" Or Start_Char = "FALC" Or Start_Char =
            "GULF" Or
106         Start_Char = "HAWK" Or Start_Char = "ISRA" Or Start_Char =
            "LEAR" Or
107         Start_Char = "PIAG" Or Start_Char = "PILA" Or Start_Char =
            "TEXT" Then
108
109         Dim AC_Doc_Name As String = File_name.Substring(0,
            (File_name.LastIndexOf("-")))
110
111         AC_Serial.Items.Add(System.IO.Path.GetFileNameWithoutExtension
            (AC_Doc_Name))
112     Else
113
114     End If
115
116 Next
117
118 End Sub
119
120 Sub TraverseComponent(ByVal swComp As Component2, ByVal nLevel As Integer)
121     Dim vChildComp As Object
122     Dim swChildComp As Component2
123     Dim swParent As Component2
124     Dim Parent As String ' = "N/A"
125     Dim Instance_Text As String = "N/A"
126     Dim Temp_Parent As String = "N/A"
127     Dim Temp_Instance As String = "N/A"
128     Dim sPadStr As String = ""
129     Dim i As Integer
130     Dim ChartoTrim As Char() = {"-"}
131     Dim Status As Boolean = False
132     Dim Add_To_Struct As Boolean = False
133     Dim swPart As ModelDoc2
134     Dim swPart3 As ModelDoc2
135     'Dim swAssy As AssemblyDoc
136     'Dim swDwg As DrawingDoc
137
138     Dim errorval As Integer
139
140     Dim ValOut = String.Empty
141     Dim Dash_XX = String.Empty
142     Dim wasResolved As Boolean
143     Dim linkToProp As Boolean
144     Dim Dash_Name = String.Empty
145     Dim Temp_Name = String.Empty
146

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147 Dim Count As Integer = swFiles.Count
148 If nLevel = 1 Then
149     swFiles.Clear()
150
151 End If
152
153 For i = 0 To nLevel - 1
154     sPadStr = sPadStr + " "
155 Next i
156 vChildComp = swComp.GetChildren
157 For i = 0 To UBound(vChildComp)
158     swChildComp = vChildComp(i)
159     If swChildComp.IsSuppressed() = False Then
160
161         'Debug.WriteLine(swChildComp.Name)
162
163         swParent = swChildComp.GetParent
164         'swPart = swParent.GetModelDoc2
165         Add_To_Struct = False
166         If swParent Is Nothing Then
167
168             swPart = swChildComp.GetModelDoc2
169             Parent = swChildComp.Name2
170             If Parent.Substring(0, Parent.IndexOf("-")) <> "" Then
171                 Parent = Parent.Substring(0, Parent.IndexOf("-"))
172             End If
173
174             swPart3 = swApp.ActivateDoc3(Parent, 0, 1, errorval)
175             swModelDocExt_Part = swPart3.Extension
176             CusProperties_Part = ↗
177             swModelDocExt_Part.CustomPropertyManager("")
178             Dash_Name = CusProperties_Part.Get6("PART NUMBER", True, ↗
179             ValOut, Dash_XX, wasResolved, linkToProp)
180
181             If Dash_Name = 2 Then
182                 If Dash_XX <> "" And Dash_XX <> "-XX" Then
183
184                     Temp_Name = Dash_XX.Substring(0, 1)
185
186                     If Temp_Name = "-" Then
187                         Add_To_Struct = True
188                     End If
189                 End If
190             End If
191             swApp.CloseDoc(Parent)
192
193 Else
194     swPart = swParent.GetModelDoc2
195     Parent = swParent.Name2.Substring(0, swParent.Name2.IndexOf ↗
196     ("-"))
197     Instance_Text = swChildComp.Name2

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196
197         If Instance_Text.IndexOf("/") > 0 Then
198             'Debug.WriteLine(Instance_Text)
199
200             Instance_Text = Instance_Text.Remove(0, 1)
201             'Debug.WriteLine(Instance_Text)
202             Temp_Parent = Instance_Text.Substring(0,
203             Instance_Text.LastIndexOf("-"))
204             'Debug.WriteLine(Temp_Parent)
205
206             If Instance_Text.LastIndexOf("-") <> -1 Then
207                 Temp_Parent = Instance_Text.Substring(0,
208                 Instance_Text.LastIndexOf("-"))
209                 If Temp_Parent.IndexOf("/") > 0 Then
210                     Temp_Parent = Temp_Parent.Remove(0,
211                     Temp_Parent.IndexOf("/") + 1)
212                 End If
213                 'Debug.WriteLine(Temp_Parent)
214             End If
215
216             Instance_Text = Instance_Text.Remove(0,
217             Instance_Text.IndexOf("/") + 1)
218             'Debug.WriteLine(Instance_Text)
219             If Temp_Parent = Parent Then
220                 Temp_Parent = "N/A"
221             End If
222             End If
223
224             swPart3 = swApp.ActivateDoc3(Temp_Parent, 0, 1, errorval)
225             swModelDocExt_Part = swPart3.Extension
226             CusProperties_Part =
227             swModelDocExt_Part.CustomPropertyManager("")
228             Dash_Name = CusProperties_Part.Get6("PART NUMBER", True,
229             ValOut, Dash_XX, wasResolved, linkToProp)
230
231             If Dash_Name = 2 Then
232                 If Dash_XX <> "" And Dash_XX <> "-XX" Then
233                     Temp_Name = Dash_XX.Substring(0, 1)
234
235                     If Temp_Name = "-" Then
236                         Add_To_Struct = True
237                     End If
238                 End If
239             End If
240             swApp.CloseDoc(Temp_Parent)
241
242         End If
243
244         If Add_To_Struct = True Then

```

```

241
242
243     If swFiles.Count = 0 Then
244         swFiles.Add(New SW_Opened_Files(Parent, Instance_Text, ↗
                swChildComp.GetSelectByIDString()))
245     Else
246         Status = False
247         Dim j As Integer = 0
248         While j < swFiles.Count
249
250             If swFiles(j).Parent = Parent Then
251
252                 For k = 0 To swFiles.Count - 1
253                     If swFiles(k).Child = Temp_Parent Then
254                         Status = True
255                         Exit While
256                     ElseIf swFiles(k).Child = Instance_Text Then
257                         Status = True
258                         Exit While
259                     ElseIf swFiles(k).Parent = Temp_Parent Then
260                         Status = True
261                         Exit While
262                     ElseIf swFiles(k).Parent = Instance_Text ↗
263
264                         Status = True
265                         Exit While
266                     End If
267                 Next
268             End If
269             j += 1
270
271             If j = swFiles.Count Then
272                 Status = False
273                 Exit While
274             End If
275         End While
276
277         'Add_To_Struct = False
278
279         'If swPart.GetType = swDocumentTypes_e.swDocPART Then
280
281             '    swModelDocExt_Part = swPart.Extension
282             '    CusProperties_Part = ↗
283             swModelDocExt_Part.CustomPropertyManager("")
284             '    Dash_Name = CusProperties_Part.Get6("PART NUMBER", ↗
285             True, ValOut, Dash_XX, wasResolved, linkToProp)
286
287             '    If Dash_Name = 2 Then
288                 '        If Dash_XX <> "" And Dash_XX <> "-XX" Then
289
290                     '            Temp_Name = Dash_XX.Substring(0, 1)
291
292                 '        End If
293             '    End If
294         'End If

```

```

289         '           If Temp_Name = "-" Then
290             '               Add_To_Struct = True
291             '           End If
292         '       End If
293
294         '   End If
295
296         'ElseIf swPart.GetType = swDocumentTypes_e.swDocASSEMBLY ➤
297     Then
298         '       swModelDocExt_Assy = swPart.Extension
299         '       CusProperties_Assy = ➤
300     swModelDocExt_Assy.CustomPropertyManager("")
301         '       Dash_Name = CusProperties_Assy.Get6("PART NUMBER", ➤
302     True, ValOut, Dash_XX, wasResolved, linkToProp)
303
304         '       If Dash_Name = 2 Then
305             '           If Dash_XX <> "" And Dash_XX <> "-XX" Then
306
307                 '               Temp_Name = Dash_XX.Substring(0, 1)
308
309                 '               If Temp_Name = "-" Then
310                     '                   Add_To_Struct = True
311                 '               End If
312             '           End If
313         '       End If
314
315         'End If
316
317         If Status = False And Add_To_Struct = True Then
318
319             If Temp_Parent = "N/A" Then
320                 swFiles.Add(New SW_Opened_Files(Parent, ➤
321     Instance_Text, swChildComp.GetSelectByIDString()))
322             Else
323                 swFiles.Add(New SW_Opened_Files(Parent, ➤
324     Temp_Parent, swChildComp.GetSelectByIDString()))
325             End If
326         End If
327     End If
328
329     End If
330
331     'For z = 0 To swFiles.Count - 1
332     'Debug.Print(swFiles(z).Parent & ", " & swFiles(z).Child & ", " ➤
333     & swFiles(z).Instance_ID)
334     'Next
335
336     TraverseComponent(swChildComp, nLevel + 1)
337
338 Next i
339 End Sub

```

```
335 Private Sub Generate_Drawing_Click(sender As Object, e As EventArgs) Handles Generate_Drawing.Click
336
337     Dim count As Integer
338     Dim index As Integer
339     Dim Open_Docs As Object
340
341     If Clicked = False Then
342
343         Me.BackColor = SystemColors.InactiveCaption
344         Me.Text = Title_ + " - Loading"
345
346         If AC_Serial.SelectedItem <> Nothing Then
347
348             Aircraft_Num = AC_Serial.SelectedItem
349             Aircraft_Num = Aircraft_Num.Substring(Aircraft_Num.IndexOf(" ") + 1, (Aircraft_Num.Length) - (Aircraft_Num.IndexOf(" ") + 1))
350         Else
351             Aircraft_Num = AC_Serial.Text
352         End If
353
354         Notes_Groups.Visible = False
355         Add_BOM_Hardware.Visible = False
356
357         Title.Enabled = False
358         AC_Serial.Enabled = False
359         Request.Enabled = False
360         Drawing_Num.Enabled = False
361
362         swApp = CreateObject("SldWorks.Application")
363         swDoc = swApp.ActiveDoc
364
365         count = swApp.GetDocumentCount
366         Open_Docs = swApp.GetDocuments
367
368         If count = 0 Then
369             Functions.Error_Form("No Documents", "There are no documents loaded",,,, False, Me)
370         Else
371
372             For index = LBound(Open_Docs) To UBound(Open_Docs)
373
374                 Dim swPart As PartDoc
375                 Dim swAssy As AssemblyDoc
376
377                 swDoc = Open_Docs(index)
378
379
380
381                 FullPathName = swDoc.GetPathName()
382                 If FullPathName = "" Then
383
```



```

384         Else
385             Name = SWFunctions.SW_FileName(FullPathName)
386
387             If swDoc.GetType = 2 Then 'Assembly file
388
389                 Dim ValOut = String.Empty
390                 Dim Dash_XX = String.Empty
391                 Dim wasResolved As Boolean
392                 Dim linkToProp As Boolean
393                 Dim Dash_Name = String.Empty
394                 Dim Temp_Name = String.Empty
395
396                 swAssy = Open_Docs(index)
397
398
399                 swModelDocExt_Assy = swAssy.Extension
400                 CusProperties_Assy = ↗
swModelDocExt_Assy.CustomPropertyManager("")
401                 Dash_Name = CusProperties_Assy.Get6("PART NUMBER", ↗
True, ValOut, Dash_XX, wasResolved, linkToProp)
402
403                 If Dash_Name = 2 Then
404                     If Dash_XX <> "" And Dash_XX <> "-XX" Then
405
406
407                         Temp_Name = Dash_XX.Substring(0, 1)
408                         If Temp_Name = "-" Then
409                             'Opened_ASSY.Items.Add(Name)
410                             Opened_ASSY.Items.Add(Dash_XX & " " & ↗
Name)
411                             Opened_Files_Names.Add(Name)
412                         End If
413                     End If
414
415                     'Opened_Part.Items.Add(Dash_XX & "-" & Name)
416                 End If
417
418                 'If InstanceID_Added = False Then
419                 '    'Stole from API site
420                 '    Dim swModel As ModelDoc2
421                 '    Dim swConfMgr As ConfigurationManager
422                 '    Dim swConf As Configuration
423                 '    Dim swRootComp As Component2
424
425                 '    swModel = swApp.ActiveDoc
426                 '    swConfMgr = swModel.ConfigurationManager
427                 '    swConf = swConfMgr.ActiveConfiguration
428                 '    swRootComp = swConf.GetRootComponent3(True) 'Top ↗
level Assy
429                 '    Main_Assy_Name = swRootComp.Name2
430                 '    If swModel.GetType = ↗
swDocumentTypes_e.swDocASSEMBLY Then

```

```

431         ' TraverseComponent(swRootComp, 1)
432         ' InstanceID_Added = True
433         ' End If
434     'End If
435
436     'Opened_ASSY.Items.Add(Name)
437     'Don't sore the Assemblies so the TOP LEVEL ASSY
will be on top
438     Functions.SortListBox(Opened_ASSY, 0)
439
440     ElseIf swDoc.GetType = 1 Then 'Part file
441
442         Dim ValOut = String.Empty
443         Dim Dash_XX = String.Empty
444         Dim wasResolved As Boolean
445         Dim linkToProp As Boolean
446         Dim Dash_Name = String.Empty
447         Dim Temp_Name = String.Empty
448
449         swPart = Open_Docs(index)
450
451         swModelDocExt_Part = swPart.Extension
452         CusProperties_Part =
swModelDocExt_Part.CustomPropertyManager("")
453         Dash_Name = CusProperties_Part.Get6("PART NUMBER",
True, ValOut, Dash_XX, wasResolved, linkToProp)
454
455         'MsgBox(Name & " 1")
456         'MsgBox(ValOut & " 2")
457         'MsgBox(wasResolved & " 3")
458         'MsgBox(linkToProp & " 4")
459         'MsgBox(Dash_Name & " 5")
460         'MsgBox(Dash_XX & " 6")
461
462
463
464         If Dash_Name = 2 Then
465             If Dash_XX <> "" And Dash_XX <> "-XX" Then
466
467
468                 Temp_Name = Dash_XX.Substring(0, 1)
469                 If Temp_Name = "-" Then
470                     Opened_Part.Items.Add(Dash_XX & " " &
Name)
471                     Opened_Files_Names.Add(Name)
472                     'Opened_Part.Items.Add(Name)
473                 End If
474             End If
475
476             'Opened_Part.Items.Add(Dash_XX & "-" & Name)
477         End If
478

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```
479         'Else
480         '     Opened_Part.Items.Add(Name)
481         'End If
482
483         'Opened_Part.Items.Add(Name)
484         Functions.SortListBox(Opened_Part, 0)
485
486         End If
487     End If
488 Next
489
490     'For i = 0 To swFiles.Count - 1
491     '     Debug.Print(swFiles(i).Parent & System.Environment.NewLine &
492     '         "- , " & swFiles(i).Child & " , " & swFiles(i).Instance_ID)
493     'Next
494
495     Opened_ASSY.Visible = True
496
497     Opened_Part.Visible = True
498
499     Me.Height = Height + 115
500
501 End If
502
503 Me.BackColor = SystemColors.Window
504 Me.Text = Title_
505
506 Instructions_Label.Visible = True
507 Instructions_Label.Clear()
508 Instructions_Label.SelectedText = "Start by adding the ASSY:" &
509     System.Environment.NewLine
510 Instructions_Label.SelectionBullet = True
511 Instructions_Label.SelectedText = "Double click the ASSY" &
512     System.Environment.NewLine
513 Instructions_Label.SelectedText = "Save the Doc" &
514     System.Environment.NewLine
515 Instructions_Label.SelectedText = "Double click the Parts"
516 Instructions_Label.SelectionBullet = False
517
518 Clicked = True
519
520 End If
521
522 End Sub
523
524 Private Sub Opened_ASSY_SelectedIndexChanged(sender As Object, e As
525     EventArgs) Handles Opened_ASSY.DoubleClick
526
527     Dim count As Integer
528     Dim index As Integer
529     Dim Open_Docs As Object
530     Dim Sheet_name As String
```

```

526     Dim Sheet_Num As String
527     Dim Last_Sheet As String
528     Dim swSheetNames As Object
529     Dim Same_Page As Boolean = False
530     Dim Boundary_Box_Size As Double() = {0.0, 0.0, 0.0, 0.0}
531     Dim Scale_Factor As Double
532     Dim Prop_Name As String
533
534     Dim i As Integer
535     Dim status As Boolean
536     Dim View_Count As Integer
537
538     Dim sw_View As View
539     Dim swAssy As AssemblyDoc
540
541     Dim View_Name = String.Empty
542     Dim First_View_Name = String.Empty
543     Dim ValOut = String.Empty
544     Dim ResolvedValOut = String.Empty
545     Dim wasResolved As Boolean
546     Dim linkToProp As Boolean
547
548     Dim File_Name As String = Opened_ASSY.Text
549
550     Drawing_Name_Saved = swDoc.GetPathName()
551
552     Prop_Name = File_Name.Substring(0, 1)
553     'MsgBox(Prop_Name)
554
555     If Prop_Name = "-" Then
556         File_Name = File_Name.Substring(File_Name.IndexOf(" ") + 1)
557     End If
558
559     swApp.ActivateDoc(File_Name)
560     'If InstanceID_Added = False Then
561     'Stole from API site
562     Dim swModel As ModelDoc2
563     Dim swConfMgr As ConfigurationManager
564     Dim swConf As Configuration
565     Dim swRootComp As Component2
566
567     swModel = swApp.ActiveDoc
568     swConfMgr = swModel.ConfigurationManager
569     swConf = swConfMgr.ActiveConfiguration
570     swRootComp = swConf.GetRootComponent3(True) 'Top level Assy
571     Main_Assy_Name = swRootComp.Name2
572     If User_Saved = False Then
573
574
575         If swModel.GetType = swDocumentTypes_e.swDocASSEMBLY Then
576             TraverseComponent(swRootComp, 1)
577             'SWFunctions.Add_Docs(swRootComp, 1)

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```
578         InstanceID_Added = True
579         For z = 0 To swFiles.Count - 1
580             Debug.Print(swFiles(z).Parent & ", " & swFiles(z).Child & ", " & swFiles(z).Instance_ID)
581         Next
582     End If
583 End If
584 'End If
585
586 For i = 0 To swFiles.Count - 1
587     Debug.Print(swFiles(i).Parent & System.Environment.NewLine & "- , " & swFiles(i).Child & ", " & swFiles(i).Instance_ID)
588 Next
589
590 Functions.Status = True
591
592
593
594 swAssy = swApp.ActiveDoc
595
596 swModelDocExt_Assy = swAssy.Extension
597 CusProperties_Assy = swModelDocExt_Assy.CustomPropertyManager("")
598 View_Name = CusProperties_Assy.Get6("NOTE INFO", True, ValOut, ResolvedValOut, wasResolved, linkToProp)
599
600 'Update Drawing Number on Assembly File
601 Draw_Num_Update()
602
603 FullPathName = swDoc.GetPathName()
604
605 'Checks if drawing document has been saved previously
606 If User_Saved = False Then
607
608     Open_New_Draw()
609
610 Else
611
612     Same_Assy_Page_Checkbox.Visible = True
613
614     If Same_Assy_Page_Checkbox.Checked = True Then
615         Same_Page = True
616         Add_View_Page += 1
617     Else
618         Same_Page = False
619         Add_View_Page = 0
620     End If
621
622     count = swApp.GetDocumentCount
623     Open_Docs = swApp.GetDocuments
624
625     For index = LBound(Open_Docs) To UBound(Open_Docs)
626         swDoc = Open_Docs(index)
```

```
627      FullPathName = swDoc.GetPathName()
628      Name = SWFunctions.SW_FileName(FullPathName)
629
630      If swDoc.GetType = 3 Then
631          Name = SWFunctions.SW_FileName(FullPathName)
632          swApp.ActivateDoc(Name)
633
634      End If
635  Next
636
637 End If
638
639 Add_Sheet_Count = swDraw.GetSheetCount
640 swSheet = swDraw.GetCurrentSheet
641
642 swSheetNames = swDraw.GetSheetNames
643 Last_Sheet = swSheetNames(UBound(swSheetNames))
644
645 If Same_Page = False Then
646
647     If swSheet.GetName = Last_Sheet Then
648
649         Add_Sheet_Count += 1
650         Sheet_Num = Add_Sheet_Count.ToString
651         Sheet_name = "Sheet" + Sheet_Num
652         swDraw.NewSheet3(Sheet_name, 12, 12, 1, 1, False, "T:
        \\Engineering\\East Alton\\ENGINEERING PROCEDURES\\Structural
        Drawing Standards\\2021 Additional Sheet.sldprt", 0, 0, "")
653         swDraw.ActivateSheet(Sheet_name)
654
655     Else
656         swDraw.SheetNext()
657     End If
658
659 End If
660
661 sw_View = swDraw.GetFirstView
662 First_View_Name = sw_View.Name
663
664 If ResolvedValOut <> "" Then
665
666     Bool_Result = swDraw.Create3rdAngleViews2(File_Name)
667
668     sw_View = sw_View.GetNextView
669     If Same_Page = True Then
670
671         View_Count = Add_View_Page * 3
672         For i = 0 To View_Count - 1 '2
673             sw_View = sw_View.GetNextView
674         Next
675         Dim View_Position As Double() = {0.4318, 0.1143}
676         sw_View.Position = View_Position
```

```
677         End If
678         sw_View.SetName2(ResolvedValOut)
679         Boundary_Box_Size = sw_View.GetOutline()
680
681     Else
682         Bool_Result = swDraw.Create3rdAngleViews2(File_Name)
683     End If
684
685     Dim sw_view1 As View = Nothing
686     Dim sw_view2 As View = Nothing
687     Dim sw_view3 As View = Nothing
688
689     If Same_Page = False Then
690
691         swDraw.ActivateView(ResolvedValOut)
692         'Error gets thrown when the view name has been used already
693         'can be on the same sheet or a different sheet
694         'logic to check all views and names and rename the view if it's already used on a different sheet
695         sw_view1 = swDraw.ActiveDrawingView
696     End If
697     If sw_view1 Is Nothing Then
698         sw_view1 = swDraw.GetFirstView
699         sw_view1 = sw_view1.GetNextView
700         If Same_Page = True Then
701             For j = 0 To View_Count - 1
702                 sw_view1 = sw_view1.GetNextView
703             Next
704         End If
705     End If
706
707     sw_view2 = sw_view1.GetNextView()
708     If sw_view1.Name = ResolvedValOut Then
709         sw_view2.SetName2(ResolvedValOut & " - TOP")
710     End If
711
712     sw_view3 = sw_view2.GetNextView()
713     If sw_view1.Name = ResolvedValOut Then
714         sw_view3.SetName2(ResolvedValOut & " - RIGHT")
715     End If
716
717     Scale_Factor = SWFunctions.View_Scale(sw_view1.GetOutline(),
718         sw_view2.GetOutline(), sw_view3.GetOutline())
719
720     sw_View.ScaleRatio() = {1, Scale_Factor}
721
722     status = swDraw.ActivateView(ResolvedValOut)
723     annotations = swDraw.InsertModelAnnotations3(0, 64, True, False, False,
724         True)
725
726     Dim Open_Doc_Names As New List(Of String)()
```

```

726
727     For i = 0 To Opened_ASSY.Items.Count - 1
728         Open_Doc_Names.Add(Opened_ASSY.Items(i))
729     Next
730     For j = 0 To Opened_Part.Items.Count - 1
731         Open_Doc_Names.Add(Opened_Part.Items(j))
732     Next
733
734     If Same_Page = False And User_Saved = False Then
735         SWFunctions.Add_NoteInfo2(swDoc, ResolvedValOut, File_Name, swFiles, ↗
            Add_BOM_Hardware.Checked)
736     End If
737     .....
738     'MsgBox(Add_BOM_Hardware.Checked)
739     If User_Saved = False Then
740
741         SWFunctions.Save_Doc()
742
743     End If
744
745     Drawing_Name_Saved = swDoc.GetPathName()
746
747     Dim Second_Warning As Integer = 1
748
749     While Drawing_Name_Saved = "" And Second_Warning < 2
750
751         User_Saved = False
752         Functions.Error_Form("Save The File", "Please Save The Drawing ↗
            File",,,, False, Start_Window)
753         .....
754         'SWFunctions.Save_Doc()
755         Drawing_Name_Saved = swDoc.GetPathName()
756         Second_Warning += 1
757
758     End While
759
760     If Drawing_Name_Saved <> "" Then
761         User_Saved = True
762
763     End If
764
765     swDoc.ForceRebuild3(True)
766
767     swApp.CloseDoc(File_Name)
768     Same_Assy_Page_Checkbox.Checked = False
769
770 End Sub
771
772 Private Sub Opened_Part_SelectedIndexChanged(sender As Object, e As ↗
    EventArgs) Handles Opened_Part.DoubleClick
773
774     Dim count As Integer

```



```
775 Dim index As Integer
776 Dim Open_Docs As Object
777 Dim Sheet_Name As String
778 Dim Sheet_Num As String
779 Dim Last_Sheet As String
780 Dim swSheetNames As Object
781 Dim Same_Page As Boolean = False
782 Dim Boundary_Box_Size As Double() = {0.0, 0.0, 0.0, 0.0}
783 Dim Scale_Factor As Double
784 Dim File_Extension As String
785 Dim Prop_Name As String
786
787 Dim sw_View As View
788 Dim swPart As PartDoc
789 'Dim swDoc As ModelDoc2
790 'Dim swExtension As ModelDocExtension
791
792 Dim View_Name = String.Empty
793 Dim View_Count As Integer
794
795 Dim ValOut = String.Empty
796 Dim ResolvedValOut = String.Empty
797 Dim wasResolved As Boolean
798 Dim linkToProp As Boolean
799 'Dim Status As Boolean
800
801 Dim File_Name As String = Opened_Part.Text
802
803 Drawing_Name_Saved = swDoc.GetPathName()
804
805 Prop_Name = File_Name.Substring(0, 1)
806 'MsgBox(Prop_Name)
807
808 If Prop_Name = "-" Then
809     File_Name = File_Name.Substring(File_Name.IndexOf(" ") + 1)
810 End If
811
812
813
814
815 'File_Name = File_Name.Remove(0, File_Name.LastIndexOf(" ") + 1)
816 'MsgBox(File_Name)
817
818 swApp.ActivateDoc(File_Name)
819
820 swPart = swApp.ActiveDoc
821
822 swModelDocExt_Part = swPart.Extension
823 CusProperties_Part = swModelDocExt_Part.CustomPropertyManager("")
824 View_Name = CusProperties_Part.Get6("NOTE INFO", True, ValOut,
    ResolvedValOut, wasResolved, linkToProp)
```

```
826 Draw_Num_Update()
827
828 FullPathName = swDoc.GetPathName()
829
830 File_Extension = SWFunctions.SW_Extension(FullPathName)
831
832 If Drawing_Name_Saved <> "" Then
833     If File_Extension = ".SLDDRW" Then
834         User_Saved = True
835     ElseIf File_Extension <> ".SLDDRW" Then
836         User_Saved = False
837         Functions.Error_Form("Drawing not saved", "Please save the Part ↗
            before continuing.",,,, False, Me)
838     Exit Sub
839 End If
840
841 Else
842     User_Saved = False
843 End If
844
845 If User_Saved = False Then
846     Functions.Error_Form("Drawing not saved", "Please save the drawing ↗
        before continuing.",,,, False, Me)
847 Else
848
849     'Open_New_Draw()
850
851     Same_Parts_Page_Checkbox.Visible = True
852
853     If Same_Parts_Page_Checkbox.Checked = True Then
854         Same_Page = True
855         Add_View_Page += 1
856     Else
857         Same_Page = False
858         Add_View_Page = 0
859     End If
860
861     count = swApp.GetDocumentCount
862     Open_Docs = swApp.GetDocuments
863
864     For index = LBound(Open_Docs) To UBound(Open_Docs)
865         swDoc = Open_Docs(index)
866         FullPathName = swDoc.GetPathName()
867         Name = SWFunctions.SW_FileName(FullPathName)
868
869         If swDoc.GetType = 3 Then
870             Name = SWFunctions.SW_FileName(FullPathName)
871             swApp.ActivateDoc(Name)
872
873         End If
874     Next
875
```

```
876 'Call function to input drawing number into current file
877
878 swDraw = swDoc
879
880 swSheet = swDraw.GetCurrentSheet
881
882 swSheetNames = swDraw.GetSheetNames
883 Last_Sheet = swSheetNames(UBound(swSheetNames))
884
885 If Same_Page = False Then
886
887     If swSheet.GetName = Last_Sheet Then
888
889         Add_Sheet_Count += 1
890         Sheet_Num = Add_Sheet_Count.ToString
891         Sheet_Name = "Sheet" + Sheet_Num
892         swDraw.NewSheet3(Sheet_Name, 12, 12, 1, 1, False, "T:
            \\Engineering\\East Alton\\ENGINEERING PROCEDURES\\Structural
            Drawing Standards\\2021 Additional Sheet.sldprt", 0, 0, "")
893         swDraw.ActivateSheet(Sheet_Name)
894
895     Else
896         swDraw.SheetNext()
897
898     End If
899
900 End If
901
902 sw_View = swDraw.GetFirstView
903
904 If ResolvedValOut <> "" Then
905
906     Bool_Result = swDraw.Create3rdAngleViews2(File_Name)
907
908     sw_View = swDraw.GetFirstView
909     sw_View = sw_View.GetNextView
910     If Same_Page = True Then
911
912         Dim SS As Object
913         Dim VV As Object
914         Dim SheetCount As Integer
915         Dim Views As Integer
916
917         SS = swDraw.GetViews
918         For SheetCount = LBound(SS) To UBound(SS)
919
920             VV = SS(SheetCount)
921
922             For Views = LBound(VV) To UBound(VV)
923
924                 Next
925
```

```
926         Next
927
928         'View_Count = swDraw.GetViewCount - swDraw.GetSheetCount
929         View_Count = Add_View_Page * 3
930         'MsgBox(View_Count)
931         For i = 0 To View_Count - 1
932             sw_View = sw_View.GetNextView
933         Next
934         Dim View_Position As Double() = {0.4318, 0.1143}
935         sw_View.Position = View_Position
936     End If
937     sw_View.SetName2(ResolvedValOut)
938     Boundary_Box_Size = sw_View.GetOutline()
939
940 Else
941     Bool_Result = swDraw.Create3rdAngleViews2(File_Name)
942 End If
943
944 Dim sw_view1 As View = Nothing
945 Dim sw_view2 As View = Nothing
946 Dim sw_view3 As View = Nothing
947
948 If Same_Page = False Then
949
950     swDraw.ActivateView(ResolvedValOut)
951     'Error gets thrown when the view name has been used already
952     'can be on the same sheet or a different sheet
953     'logic to check all views and names and rename the view if it's ↗
954     'already used on a different sheet
955     sw_view1 = swDraw.ActiveDrawingView
956 End If
957 If sw_view1 Is Nothing Then
958     sw_view1 = swDraw.GetFirstView
959     sw_view1 = sw_view1.GetNextView
960     If Same_Page = True Then
961         For j = 0 To View_Count - 1
962             sw_view1 = sw_view1.GetNextView
963         Next
964     End If
965 End If
966
967 sw_view2 = sw_view1.GetNextView()
968 If sw_view1.Name = ResolvedValOut Then
969     sw_view2.SetName2(ResolvedValOut & " - TOP")
970 End If
971
972 sw_view3 = sw_view2.GetNextView()
973 If sw_view1.Name = ResolvedValOut Then
974     sw_view3.SetName2(ResolvedValOut & " - RIGHT")
975 End If
976
```

```

977         Scale_Factor = SWFunctions.View_Scale(sw_view1.GetOutline(),
          sw_view2.GetOutline(), sw_view3.GetOutline())
978
979         sw_view1.ScaleRatio() = {1, Scale_Factor}
980
981         annotations = swDraw.InsertModelAnnotations3(0, 32768, True, True,
          False, True) 'Inserts dimensions marked for drawing
982         annotations = swDraw.InsertModelAnnotations3(0, 1048576, True, True,
          False, True) 'Inserts Hole Callout
983
984         swDoc.ForceRebuild3(True)
985
986     End If
987
988     swApp.CloseDoc(File_Name)
989     Same_Parts_Page_Checkbox.Checked = False
990
991 End Sub
992
993 'Private Sub Opened_ASSY_SelectedIndexChanged_1(sender As Object, e As
          EventArgs) Handles Opened_ASSY.SelectedIndexChanged
994     ' Dim File_Name As String = Opened_ASSY.Text
995     ' swApp.ActivateDoc(File_Name)
996     ' Opened_Part.ClearSelected()
997 'End Sub
998
999 'Private Sub Opened_Part_SelectedIndexChanged(sender As Object, e As
          EventArgs) Handles Opened_Part.SelectedIndexChanged
1000     ' Dim File_Name As String = Opened_Part.Text
1001     ' swApp.ActivateDoc(File_Name)
1002     ' Opened_ASSY.ClearSelected()
1003 'End Sub
1004
1005 Private Sub Add_BOM_Hardware_CheckedChanged(sender As Object, e As
          EventArgs) Handles Add_BOM_Hardware.CheckedChanged
1006     If Add_BOM_Hardware.Checked = True Then
1007         SWFunctions.Add_BOM = True
1008     ElseIf Add_BOM_Hardware.Checked = False Then
1009         SWFunctions.Add_BOM = False
1010     End If
1011 End Sub
1012
1013 Private Sub Draw_Num_Update()
1014     If Drawing_Num.Text <> "Optional" Then
1015
1016         CurDoc = swApp.ActiveDoc
1017         CusProperties = CurDoc.Extension.CustomPropertyManager("")
1018         CusProperties.Set2("DRAWING NUMBER", Drawing_Num.Text)
1019
1020     End If
1021 End Sub
1022

```

```

1023 Private Sub Open_New_Draw()
1024
1025     Dim FolderName As String
1026     Dim swTitle As String
1027     Dim AC_Num As String
1028     Dim Drawings_Major As String
1029     Dim Folder_Check As String
1030     Dim Minor_Check As String
1031     Dim Bool As Boolean
1032
1033     Dim swAnnotation As Annotation
1034     Dim Sheet1_Notes As Object
1035     Dim Sheet1_Annotations As Object
1036     Dim swNote As Note
1037     Dim swAnno As Annotation
1038     Dim swView As View
1039     Dim swLayer As Layer
1040     Dim swLayerMgr As LayerMgr
1041
1042
1043     Dim Structural As String
1044     Dim Note_Style As String = Nothing
1045
1046     swDoc = swApp.NewDocument(DRAW_Template, 0, 0, 0)
1047
1048     swDraw = swDoc
1049     swModelDocExt = swDoc.Extension
1050     CusProperties = swModelDocExt.CustomPropertyManager("")
1051
1052     FolderName = FullPathName.Remove(FullPathName.LastIndexOf("\"))
1053     'MsgBox(FolderName)
1054     Structural = Directory.GetParent(FolderName).FullName
1055     'MsgBox(Structural)
1056     Drawings_Major = Directory.GetParent(Structural).FullName
1057     'MsgBox(Drawings_Major)
1058     AC_Num = Directory.GetParent(Drawings_Major).FullName
1059
1060     Folder_Check = Drawings_Major.Remove(0, Drawings_Major.LastIndexOf("\")
1061     + 1)
1062     Minor_Check = Structural.Remove(0, Structural.LastIndexOf("\") + 1)
1063
1064     If Minor_Check = "(3) Drawings Minor" Then
1065         AC_Num = Directory.GetParent(Structural).FullName
1066     End If
1067
1068     'MsgBox(Folder_Check)
1069     'MsgBox(Minor_Check)
1070     If Folder_Check = "(2) Drawings Major" Or Minor_Check = "(3) Drawings
1071     Minor" Then
1072         AC_Num = AC_Num.Remove(0, AC_Num.LastIndexOf("\") + 1)
1073         AC_Num = AC_Num.Remove(AC_Num.LastIndexOf("-"))

```

```
1073         AC_Serial.Text = AC_Num
1074
1075         swTitle = FolderName.Remove(0, FolderName.LastIndexOf("\\") + 1)
1076         Dim FN As String() = swTitle.Split(New String() {"("}, StringSplitOptions.None)
1077         swTitle = FN(1).Remove(FN(1).LastIndexOf("("))
1078         Title.Text = swTitle
1079
1080         CusProperties.Set2("TITLE", swTitle.ToUpper)
1081         CusProperties.Set2("AIRCRAFT & S/N", AC_Num.ToUpper)
1082
1083     Else
1084
1085         If Title.Text.ToString = "" Then
1086             Title.Text = "N/A"
1087             Title.Enabled = False
1088         Else
1089             CusProperties.Set2("TITLE", Title.Text.ToString.ToUpper)
1090             Title.Enabled = False
1091         End If
1092
1093         If Aircraft_Num = "" Or Aircraft_Num = "Optional - Type your own" Or
1094             Aircraft_Num = "N/A" Then
1095             AC_Serial.Text = "N/A"
1096             AC_Serial.Enabled = False
1097         Else
1098             CusProperties.Set2("AIRCRAFT & S/N", Aircraft_Num.ToUpper)
1099             AC_Serial.Enabled = False
1100         End If
1101
1102     End If
1103
1104     If Request.Text.ToString = "" Then
1105         Request.Text = "N/A"
1106     Else
1107         CusProperties.Set2("RELEASED TO", Request.Text.ToString.ToUpper)
1108         CusProperties.Set2("REQUESTED BY", Request.Text.ToString.ToUpper)
1109
1110     End If
1111
1112     Select Case PC_USER
1113     Case "mfrench"
1114         PC_USER = "M. FRENCH"
1115     Case "scisler"
1116         PC_USER = "S. CISLER"
1117     Case "ehaycraft"
1118         PC_USER = "E. Haycraft"
1119     Case "jfox"
1120         PC_USER = "J. FOX"
1121     Case "nbrown"
1122         PC_USER = "N. BROWN"
1123     Case "lsova"
```

```

1123     PC_USER = "L. SOVA"
1124     Case Else
1125         PC_USER = "UNKNOWN"
1126         Functions.Error_Form("User Name Error", "User Name not
defined",,, "Manually input Drawnby name",, False, Me)
1127
1128     End Select
1129
1130     CusProperties.Set2("DATE", DateTime.Now.ToString("MMM/dd/yyyy").ToUpper)
1131     CusProperties.Set2("DRAWN BY", PC_USER)
1132     'CusProperties.Set2("RELEASED BY", PC_USER)
1133     CusProperties.Set2("CURRENT REV", "$PRP: ""REV 1 """)
1134     CusProperties.Set2("REV DESCRIPTION", "PRELIMINARY RELEASE")
1135
1136     'Adding Notes to Sheet 1
1137     swDraw.ActivateSheet("Sheet1")
1138     If STD_Notes_CheckBox.Checked = True And Insert_Inst1_CheckBox.Checked =
True And
True And Nutplate_Inst1_CheckBox.Checked = True And
Avionics_Inst1_CheckBox.Checked = True Then
1139         'all notes
1140         'STD_Note = swModelDocExt.InsertAnnotationFavorite("T:\\Engineering
\\Non-Site Specific\\PARTS\\LIBRARY\\2019 SolidWorks Structures
Drawing Tools\\Annotation\\Basic Structures Notes\\Modified Note
Groups\\STD, Nutplate, Insert, Avionics.sldnotest1", 1.15 /
39.3701, 9.75 / 39.3701, 0)
1141         'STD_Note = swModelDocExt.InsertAnnotationFavorite("T:\\Engineering
\\Non-Site Specific\\PARTS\\LIBRARY\\2019 SolidWorks Structures
Drawing Tools\\Annotation\\Styles\\STD Note.sldnotest1", 1.15 /
39.3701, 9.75 / 39.3701, 0)
1142         Note_Style = "STD, Nutplate, Insert, Avionics"
1143
1144     ElseIf STD_Notes_CheckBox.Checked = True And
Insert_Inst1_CheckBox.Checked = True And
Nutplate_Inst1_CheckBox.Checked = True Then
1145         'minus avionics
1146         'STD_Note = swModelDocExt.InsertAnnotationFavorite("T:\\Engineering
\\Non-Site Specific\\PARTS\\LIBRARY\\2019 SolidWorks Structures
Drawing Tools\\Annotation\\Basic Structures Notes\\Modified Note
Groups\\STD, Nutplate, Insert.sldnotest1", 1.15 / 39.3701, 9.75 /
39.3701, 0)
1147         'STD_Note = swModelDocExt.InsertAnnotationFavorite("T:\\Engineering
\\Non-Site Specific\\PARTS\\LIBRARY\\2019 SolidWorks Structures
Drawing Tools\\Annotation\\Styles\\STD Note.sldnotest1", 1.15 /
39.3701, 9.75 / 39.3701, 0)
1148         Note_Style = "STD, Nutplate, Insert"
1149
1150     ElseIf STD_Notes_CheckBox.Checked = True And
Insert_Inst1_CheckBox.Checked = True And
Avionics_Inst1_CheckBox.Checked = True Then
1151         'no nutplate notes
1152         'STD_Note = swModelDocExt.InsertAnnotationFavorite("T:\\Engineering
\\Non-Site Specific\\PARTS\\LIBRARY\\2019 SolidWorks Structures

```



```

...\\Engineering Program\\Engineering Assistant\\New Drawing.vb 25
    Drawing Tools\\Annotation\\Basic Structures Notes\\Modified Note
    Groups\\STD, Insert, Avionics.sldnotestl", 1.15 / 39.3701, 9.75 /
    39.3701, 0)
1153 'STD_Note = swModelDocExt.InsertAnnotationFavorite("T:\\Engineering
    \\Non-Site Specific\\PARTS\\LIBRARY\\2019 SolidWorks Structures
    Drawing Tools\\Annotation\\Styles\\STD Note.sldnotestl", 1.15 /
    39.3701, 9.75 / 39.3701, 0)
1154 Note_Style = "STD, Insert, Avionics"
1155
1156 ElseIf STD_Notes_CheckBox.Checked = True And
    Nutplate_Instl_CheckBox.Checked = True And
    Avionics_Instl_CheckBox.Checked = True Then
1157 'minus nutplate and avionics
1158 'STD_Note = swModelDocExt.InsertAnnotationFavorite("T:\\Engineering
    \\Non-Site Specific\\PARTS\\LIBRARY\\2019 SolidWorks Structures
    Drawing Tools\\Annotation\\Basic Structures Notes\\Modified Note
    Groups\\STD, Nutplate, Avionics.sldnotestl", 1.15 / 39.3701, 9.75 /
    39.3701, 0)
1159 'STD_Note = swModelDocExt.InsertAnnotationFavorite("T:\\Engineering
    \\Non-Site Specific\\PARTS\\LIBRARY\\2019 SolidWorks Structures
    Drawing Tools\\Annotation\\Styles\\STD Note.sldnotestl", 1.15 /
    39.3701, 9.75 / 39.3701, 0)
1160 Note_Style = "STD, Nutplate, Avionics"
1161
1162 ElseIf STD_Notes_CheckBox.Checked = True And
    Nutplate_Instl_CheckBox.Checked = True Then
1163 'minus nutplate and avionics
1164 'STD_Note = swModelDocExt.InsertAnnotationFavorite("T:\\Engineering
    \\Non-Site Specific\\PARTS\\LIBRARY\\2019 SolidWorks Structures
    Drawing Tools\\Annotation\\Basic Structures Notes\\Modified Note
    Groups\\STD, Nutplate.sldnotestl", 1.15 / 39.3701, 9.75 / 39.3701,
    0)
1165 'STD_Note = swModelDocExt.InsertAnnotationFavorite("T:\\Engineering
    \\Non-Site Specific\\PARTS\\LIBRARY\\2019 SolidWorks Structures
    Drawing Tools\\Annotation\\Styles\\STD Note.sldnotestl", 1.15 /
    39.3701, 9.75 / 39.3701, 0)
1166 Note_Style = "STD, Nutplate"
1167
1168 ElseIf STD_Notes_CheckBox.Checked = True And
    Insert_Instl_CheckBox.Checked = True Then
1169 'minus nutplate and avionics
1170 'STD_Note = swModelDocExt.InsertAnnotationFavorite("T:\\Engineering
    \\Non-Site Specific\\PARTS\\LIBRARY\\2019 SolidWorks Structures
    Drawing Tools\\Annotation\\Basic Structures Notes\\Modified Note
    Groups\\STD, Insert.sldnotestl", 1.15 / 39.3701, 9.75 / 39.3701, 0)
1171 'STD_Note = swModelDocExt.InsertAnnotationFavorite("T:\\Engineering
    \\Non-Site Specific\\PARTS\\LIBRARY\\2019 SolidWorks Structures
    Drawing Tools\\Annotation\\Styles\\STD Note.sldnotestl", 1.15 /
    39.3701, 9.75 / 39.3701, 0)
1172 Note_Style = "STD, Insert"
1173
1174 ElseIf STD_Notes_CheckBox.Checked = True And

```

```

Avionics_Inst1_CheckBox.Checked = True Then
1175 'standard and avionics
1176 'STD_Note = swModelDocExt.InsertAnnotationFavorite("T:\\Engineering
      \\Non-Site Specific\\PARTS\\LIBRARY\\2019 SolidWorks Structures
      Drawing Tools\\Annotation\\Basic Structures Notes\\Modified Note
      Groups\\STD, Avionics.sldnotest1", 1.15 / 39.3701, 9.75 / 39.3701,
      0)
1177 'STD_Note = swModelDocExt.InsertAnnotationFavorite("T:\\Engineering
      \\Non-Site Specific\\PARTS\\LIBRARY\\2019 SolidWorks Structures
      Drawing Tools\\Annotation\\Styles\\STD Note.sldnotest1", 1.15 /
      39.3701, 9.75 / 39.3701, 0)
1178 Note_Style = "STD, Avionics"
1179
1180 ElseIf STD_Notes_CheckBox.Checked = True Then
1181 'just standard notes
1182 'STD_Note = swModelDocExt.InsertAnnotationFavorite("T:\\Engineering
      \\Non-Site Specific\\PARTS\\LIBRARY\\2019 SolidWorks Structures
      Drawing Tools\\Annotation\\Basic Structures Notes\\Note Groups\\STD
      Note.sldnotest1", 1.15 / 39.3701, 9.75 / 39.3701, 1 / 39.3701)
1183 'STD_Note = swModelDocExt.InsertAnnotationFavorite("T:\\Engineering
      \\Non-Site Specific\\PARTS\\LIBRARY\\2019 SolidWorks Structures
      Drawing Tools\\Annotation\\Styles\\STD Note.sldnotest1", 1.15 /
      39.3701, 9.75 / 39.3701, 0)
1184 Note_Style = "STD Note"
1185
1186 End If
1187
1188 swLayerMgr = swDoc.GetLayerManager
1189
1190 If Note_Style IsNot Nothing Then
1191
1192     swView = swDraw.GetFirstView
1193     Sheet1_Notes = swView.GetNotes
1194
1195
1196     For i = 0 To UBound(Sheet1_Notes)
1197
1198         swNote = Sheet1_Notes(i)
1199         If swNote.GetName = "Drawing-Notes" Then
1200
1201
1202
1203             'swNote.Visible = True
1204
1205             swAnnotation = swNote.GetAnnotation
1206
1207             swAnnotation.SetPosition2(1.15 / 39.3701, 9.75 / 39.3701, 0)
1208             swAnnotation.SetStyleName(Note_Style)
1209             swAnnotation.Visible =
1210             swAnnotationVisibilityState_e.swAnnotationVisible
1211             swAnnotation.Layer = "NOTES"

```

```
1212
1213         End If
1214
1215     Next
1216
1217 End If
1218 Bool = swLayerMgr.SetCurrentLayer("-Per Standard-")
1219 End Sub
1220
1221 Private Sub Add_All_Click(sender As Object, e As EventArgs) Handles Add\_All.Click
1222
1223     'Dim swModel As ModelDoc2
1224     'Dim swConfMgr As ConfigurationManager
1225     'Dim swConf As Configuration
1226     'Dim swRootComp As Component2
1227
1228     'swModel = swApp.ActiveDoc
1229     'swConfMgr = swModel.ConfigurationManager
1230     'swConf = swConfMgr.ActiveConfiguration
1231     'swRootComp = swConf.GetRootComponent3(True) 'Top level Assy
1232     'Main_Assy_Name = swRootComp.Name2
1233
1234     Generate_Drawing.PerformClick()
1235
1236     For i = 0 To Opened_ASSY.Items.Count - 1
1237         Opened_ASSY.SetSelected(i, True)
1238         Opened_ASSY_SelectedIndexChanged(sender, e)
1239         'SWFunctions.Add_Docs(swRootComp, 1)
1240
1241     Next
1242
1243     For j = 0 To Opened_Part.Items.Count - 1
1244
1245         Opened_Part.SetSelected(j, True)
1246         Opened_Part_SelectedIndexChanged(sender, e)
1247     Next
1248
1249     Functions.Error_Form("Done", "All Assemblies and Part files have been added",,,, False,)
1250     SWFunctions.Out_Put()
1251     Me.Close()
1252
1253
1254 End Sub
1255 End Class
```