

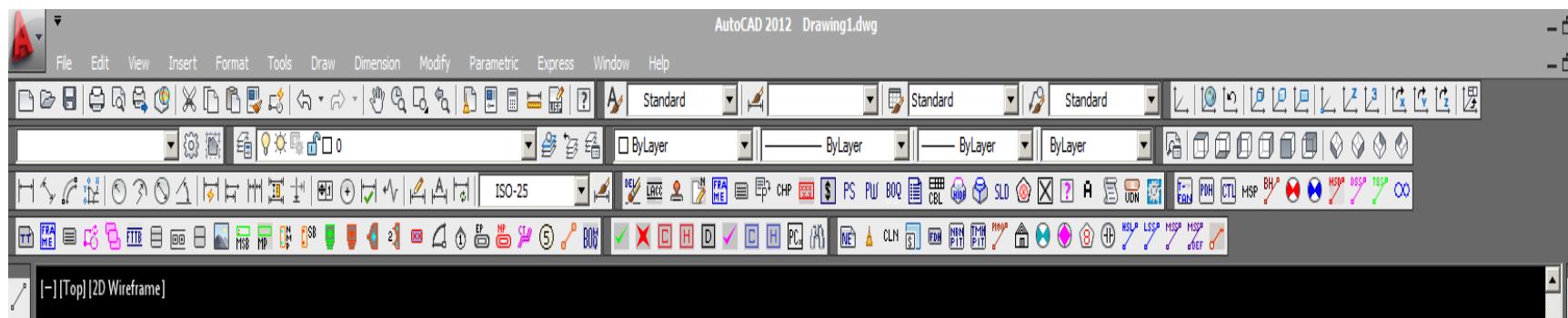
This Document has three Sections

1. Screen Shots of Older Version Toolbars and Newer version of Ribbons
 - a. VB Code Sample of iExtention to Autodesk Application showing User Access, cipher protection, populate resources to the local
 - i. Resources include CAD Templates, CAD Blocks, CAD Assemblies, BOM BOQ Excel Templates, png , bmp associated, clones if any.
 - ii. SQL SERVER Connection.
 - b. WIN API Sample showing user interface
 - c. project main screen shot showing project region and solution explorer
 - d. screen shot of SLD, BOM BOQ Automated output in DWG
2. Second Section Shows Sample file of a ASP Project
3. Third Section Shows ASP in Conjunction with C# for a remote survey or site measure update
 - a. this remote update access is thru iis to site personal to designer.
4. Some ipt, idw, iam attached with email (Since they are designed in very old version may NOT be compatible with Version)
5. A You Tube Demo Link CAD Automation Can be Found at <https://www.youtube.com/watch?v=dKoS8lFOVAA>
6. three mp4 files of inventor animation is also attached in the email.

PLEASE CONTACT ME ON 0425 706 852, if in need of further Information

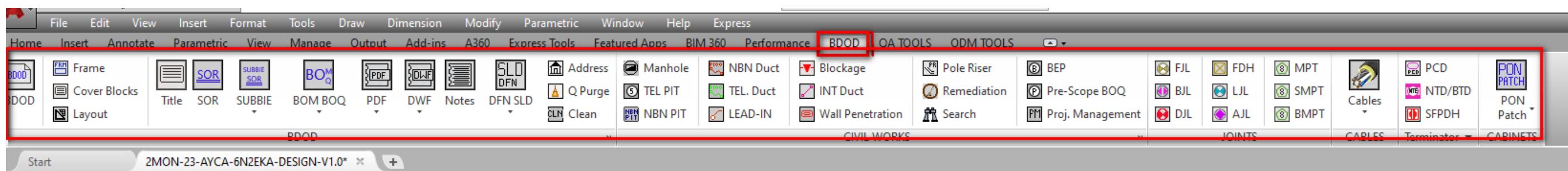
OLDER VERSION OF CAD WITH TOOLBARS

The Same Structure Can Be used for *.ipt (part), *.iam(Assembly), *.ipn(presentation) and (*.idw or *.dwg) formats as well



Newer Version With Ribbons

Please NOTE BDOD, QA Tools and ODM TOOLS are menu with Ribbons Automated Exclusively for NBN Needs



Code Sample For Initialization Shown Below

```
Implements Autodesk.AutoCAD.Runtime.IExtensionApplication
Public Shared docMan As DocumentCollection = Application.DocumentManager
Public Sub Initialize() Implements Autodesk.AutoCAD.Runtime.IExtensionApplication.Initialize
    Try
        Dim BALA_AT_HOME As String = "BALA"
        If Not RMSI_USERS.Contains(UCase(Environment.UserName)) AndAlso Not BDOD_USERS.Contains(UCase(Environment.UserName)) AndAlso Not Environment.UserName =
            BALA_AT_HOME Then
            MsgBox("UNAUTHORISED ACCESS DETECTED" + vbLf + "CONTACT ADMINISTRATOR,", vbOKOnly + vbCritical, "AUTHORISATION FAILURE.")
        End If
        If Not Environment.UserName = BALA_AT_HOME Then
            CheckCipherValue() ACCESS PROTECTION
        ElseIf Environment.UserName = BALA_AT_HOME Then
            LogName = Split("BALAKRISHNA.YADAV", ".")
        End If
        Autodesk.AutoCAD.Internal.Utils.SetFocusToDwgView()
        AddToolTips()
        CreateBDODCADRibbon() CREATE RIBBON
        AddHandler Autodesk.AutoCAD.Ribbon.RibbonServices.RibbonPaletteSetCreated, AddressOf RibbonServices_RibbonPaletteSetCreated
        UpdateBDODTempFolder() POPULATE DESIGN BLOCKS
        PopulateADA() POPULATE NEEDED EXCEL DOCUMENTS
        AddHandler docMan.DocumentActivated, AddressOf docMan_DocumentActivated
```

```

AddHandler docMan.DocumentCreated, AddressOf docMan_DocumentActivated
GenerateNBNLayerStandards() CREATE LAYERS
GenerateSORComboCol() POPULATE DATA
GenerateSORDataCollection() POPULATE DATA
GenerateODMSORComboCol() POPULATE DATA
GenerateODMSORDataCollection() POPULATE DATA
GenerateNBN_Item_code() POPULATE DATA
GenerateODM_Item_code() POPULATE DATA
Generate_BNTD_WALL_MOUNTED_OPTIONAL() POPULATE DATA
Generate_BNTD_RACK_MOUNTED_AC_OPTIONAL() POPULATE DATA
Catch ex As System.Exception
    MsgBox(ex.Message)
End Try
End Sub

```

CORDINATES CALCULATION SAMPLE

```

Using DocLock As DocumentLock = acDoc.LockDocument
Using acTrans As Transaction = acDB.TransactionManager.StartTransaction
    Dim acblkTbl As BlockTable = acTrans.GetObject(acDB.BlockTableId, OpenMode.ForRead)
    Dim acblkTblRec As BlockTableRecord = acTrans.GetObject(acblkTbl(BlockTableRecord.ModelSpace), OpenMode.ForWrite)
    Dim blkRef As BlockReference = acTrans.GetObject(SelectedObjID, OpenMode.ForRead)
    Dim blkRefInsPt As Point3d = blkRef.Position
    Dim AttCol As AttributeCollection = blkRef.AttributeCollection
    Dim AttRef As AttributeReference = acTrans.GetObject(AttCol(0), OpenMode.ForRead)
    Dim AttRefPosition As Point3d = AttRef.AlignmentPoint
    Dim acLinePlane As Plane = New Plane(AttRefPosition, Vector3d.ZAxis)
    Dim acVec3d As Vector3d = AttRefPosition - blkRefInsPt
    Dim REFobjRotation As Double = acVec3d.AngleOnPlane(acLinePlane)
    Dim acAngInDeg = REFobjRotation / Math.PI * 180
    'Dim StaticAnnoOffset As Double = 3.5
    Dim Add90DegToRadian As Double = 90 * (Math.PI / 180)
    Dim NextRefPoint As New Point3d
    NextRefPoint = New Point3d(blkRefInsPt.X - Math.Cos(REFobjRotation) * ObjOffset, blkRefInsPt.Y - Math.Sin(REFobjRotation) * ObjOffset, blkRefInsPt.Z)
    Select Case True
        Case acAngInDeg > 0 AndAlso acAngInDeg < 90
            AssignSideOffset(JointCount, ObjSideOffset)
            blkRotation = REFobjRotation - Add90DegToRadian
        Case acAngInDeg >= 90 AndAlso acAngInDeg < 180
            AssignSideOffset(JointCount, ObjSideOffset)
            blkRotation = REFobjRotation - Add90DegToRadian
        Case acAngInDeg >= 180 AndAlso acAngInDeg < 270
            ObjSideOffset = ObjSideOffset * -1
            AssignSideOffset(JointCount, ObjSideOffset)
            blkRotation = REFobjRotation + Add90DegToRadian
        Case acAngInDeg >= 270 AndAlso acAngInDeg < 360
            ObjSideOffset = ObjSideOffset * -1
            AssignSideOffset(JointCount, ObjSideOffset)
            blkRotation = REFobjRotation + Add90DegToRadian
    End Select

```

```
End Select
blkInsPt = New Point3d(NextRefPoint.X + Math.Cos(REFobjRotation + Add90DegToRadian) * ObjSideOffset, NextRefPoint.Y + Math.Sin(REFobjRotation + Add90DegToRadian) *
ObjSideOffset, NextRefPoint.Z)
FJLAnnoOffset = New Point3d(blkInsPt.X + Math.Cos(REFobjRotation) * StaticAnnoOffset, blkInsPt.Y + Math.Sin(REFobjRotation) * StaticAnnoOffset, blkInsPt.Z)
acTrans.Commit()
End Using
End Using
```

Cad Title Block Update API

NBN MINOR WORKS Title Information

Project Information		Design Option:	
Application Name:		<input type="radio"/> New Description Entry	<input type="radio"/> Design Re-Submission
Project Type:		<input type="radio"/> Design QA	
Location / Address:		Design History	
Suburb:		Rev No:	
Sheet Name:	EXTERNAL FIBRE PATHWAYS	Date:	16-12-2020
LOTS / EUP Count:		Drafted By:	
SIO:	Mobil:	Desc:	
Post Code:		Apprd By:	
State:		Approv. Date:	16-12-2020
FSAM / SAM:	FDA / ADA:		
FSA:		< >	
Issue Date:			
Project ID:	16-12-20		
REFERENCE NO:			
MPS/FOD ID:			
CAD Ref No:			
Scale:			
<input type="button" value="OK"/> <input type="button" value="Cancel"/>			

BOM BOQ API Interface NOTE Vertical Button is USER UI

BDOD BOM BOQ

Application Name:	RAMSAY HEALTH - ALBURY/WODONGA PRIVATE HOSPITAL	ADA:	2ALB-03-18																																																																																																																								
Address:	1125 PEMBERTON ST, WEST ALBURY, NSW-2640																																																																																																																										
Project Type:	GPON	Project ID:	AYCA-6GZD40																																																																																																																								
<table border="1"> <thead> <tr> <th>Items</th> <th>Fibre Size / Ratio</th> <th>New</th> <th>Existing</th> <th>Length</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>PON PATCHING</td> <td></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>5.5</td> <td></td> </tr> <tr> <td>SMALL DJL</td> <td></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>1</td> <td></td> </tr> <tr> <td>LARGE DJL</td> <td></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>1</td> <td></td> </tr> <tr> <td>DSS-12F</td> <td>12F</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>DSS-72F</td> <td>72F</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>DSS-144F</td> <td>144F</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>DSS-288F</td> <td>288F</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>DSS-432F</td> <td>432F</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>DSS-576F</td> <td>576F</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>BMPT</td> <td></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>1</td> <td></td> </tr> <tr> <td>FSD</td> <td>12</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>FJL</td> <td>PLASTIC</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>1</td> <td></td> </tr> <tr> <td>FJL SPLITTER</td> <td>1:8</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>1</td> <td></td> </tr> <tr> <td>FSL</td> <td>12F</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>BJL</td> <td>PLASTIC</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>1</td> <td></td> </tr> <tr> <td>SSS</td> <td></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>SMP</td> <td>1:4</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>1</td> <td></td> </tr> <tr> <td>SDS</td> <td>1</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>PCD</td> <td>PCD</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>1</td> <td></td> </tr> </tbody> </table>				Items	Fibre Size / Ratio	New	Existing	Length	Qty	PON PATCHING		<input type="checkbox"/>	<input type="checkbox"/>	5.5		SMALL DJL		<input type="checkbox"/>	<input type="checkbox"/>	1		LARGE DJL		<input type="checkbox"/>	<input type="checkbox"/>	1		DSS-12F	12F	<input type="checkbox"/>	<input type="checkbox"/>			DSS-72F	72F	<input type="checkbox"/>	<input type="checkbox"/>			DSS-144F	144F	<input type="checkbox"/>	<input type="checkbox"/>			DSS-288F	288F	<input type="checkbox"/>	<input type="checkbox"/>			DSS-432F	432F	<input type="checkbox"/>	<input type="checkbox"/>			DSS-576F	576F	<input type="checkbox"/>	<input type="checkbox"/>			BMPT		<input type="checkbox"/>	<input type="checkbox"/>	1		FSD	12	<input type="checkbox"/>	<input type="checkbox"/>			FJL	PLASTIC	<input type="checkbox"/>	<input type="checkbox"/>	1		FJL SPLITTER	1:8	<input type="checkbox"/>	<input type="checkbox"/>	1		FSL	12F	<input type="checkbox"/>	<input type="checkbox"/>			BJL	PLASTIC	<input type="checkbox"/>	<input type="checkbox"/>	1		SSS		<input type="checkbox"/>	<input type="checkbox"/>			SMP	1:4	<input type="checkbox"/>	<input type="checkbox"/>	1		SDS	1	<input type="checkbox"/>	<input type="checkbox"/>			PCD	PCD	<input type="checkbox"/>	<input type="checkbox"/>	1	
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<input type="button" value="OK"/> <input type="button" value="Cancel"/>																																																																																																																											

CLICK TO ACCESS INSTRUCTIONS (RESET)

PON PATCHING

- Select New Or Existing Checkbox,
 - New Check, puts 1 In Qty,
 - Existing Check, puts 0 In Qty,
- Permitted Patch Cord Lengths are: 2.5, 3.0, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 8.0, 9.0, 11.0, 11.5, 12.5.
- Default is set at: 5.5, any length other than specified throws error.
- Quantity will be taken as Item Quantity And Not Length.
- Quantity 0 will be discarded at BOM generation.

SMALL DJL

- Select New Or Existing Checkbox,
 - New Check, puts 1 In Qty,
 - Existing Check, puts 0 In Qty,
- Enter Required Number of Small DJL In Length Column
- Quantity will be taken as product of item Quantity And Length.
- Quantity 0 will be discarded at BOM generation.

LARGE DJL

- Select New Or Existing Checkbox,
 - New Check, puts 1 In Qty,
 - Existing Check, puts 0 In Qty,
- Enter Required Number of Large DJL In Length Column
- Quantity will be taken as product of item Quantity And Length.
- Quantity 0 will be discarded at BOM generation.

DSS-12F

- Select New Or Existing Checkbox,
 - New Check, puts 1 In Qty,
 - Existing Check, puts 0 In Qty,
- Enter Length in Length Column,
 - Length entered Evaluated from Standard Length of,
 - Less than 10m, between 10m to 50m, between 50m to 100m, between 100m to 200m, between 200m to 500m and above 500m ,
- BOM Updated to 1 Qty of Standard Length Item Code
- Quantity 0 will be discarded at BOM generation.

Project Screen Shot

The screenshot shows a Microsoft Visual Studio interface with the following details:

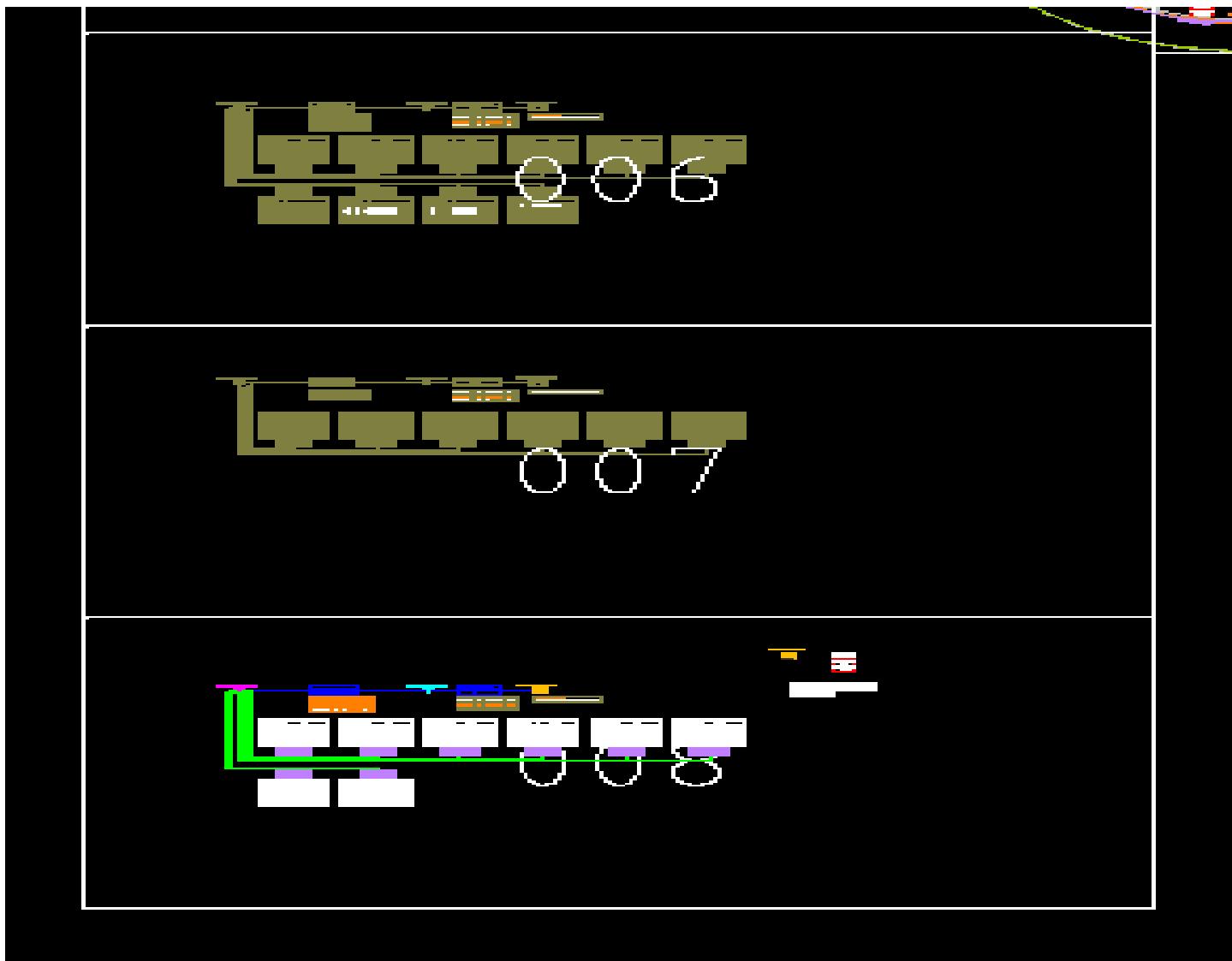
- Code Editor:** The main window displays the code for the file `clsBDOD_CAD_Main.vb`. The code includes imports, assembly declarations, and a class definition. A specific method or comment block is highlighted in yellow.
- Solution Explorer:** On the right side, the Solution Explorer lists numerous files, mostly in VB.NET (.vb) format, representing different components of the project. Many of these files are highlighted in blue, suggesting they are included in the current solution.
- Task List:** Below the Solution Explorer, a task list shows various items such as 'frmBDOD_BOM_BOQ.vb', 'frmBDOD_CableTray.vb', etc.
- Toolbars and Status Bar:** Standard Visual Studio toolbars and a status bar at the bottom are visible.

```
VB BDOD_CAD
Imports ...
Imports System.Windows.Forms
<Assembly: CommandClass(GetType(nmsBDOD_CAD_Commands.clsBDOD_CAD_Main))>
Namespace nmsBDOD_CAD_Commands
    Public Class clsBDOD_CAD_Main
        Private dctSOR_AttTAG_AttVal As New Dictionary(Of String, String)
        Private BDOD_BEP_AttTAG_AttVal As New Dictionary(Of String, String)
    End Class
End Namespace
```

... (many more lines of code and comments)

```
frmBDOD_BOM_BOQ.vb
frmBDOD_CableTray.vb
frmBDOD_Clone.vb
frmBDOD_DCT.vb
frmBDOD_DJL.vb
frmBDOD_FDH.vb
frmBDOD_FIL.vb
frmBDOD_Frame.vb
frmBDOD_ICD.vb
frmBDOD_InternalDuct.vb
frmBDOD_LeadIn.vb
frmBDOD_LJL.vb
frmBDOD_MessageBox.vb
frmBDOD_MJL.vb
frmBDOD_Notes.vb
frmBDOD_NTD.vb
frmBDOD_PCD.vb
frmBDOD_PIT.vb
frmBDOD_PreScopeBOQ.vb
frmBDOD_Project_Time_Taken.vb
frmBDOD_ProjectManagement.vb
frmBDOD_Remediation.vb
frmBDOD_Search.vb
frmBDOD_SFDPH.vb
frmBDOD_SMPT.vb
frmBDOD_SOR_INPUT.vb
frmBDOD_StorageLoop.vb
frmBDOD_TitleInfo.vb
frmBDOD_TLSDUCT_A.vb
frmBDOD_WallPenetration.vb
frmCable_Assignment_Check.vb
frmDDD_CoverPage.vb
frmNBN_Glossary.vb
frmODM_BOM_BOQ.vb
frmODM_SOR_Codes.vb
```

CAD AUTO GENARTION SAMPLE



ITEM	DESCRIPTION	QTY
1440x48	8-001-A	1
1440x48	8-001-B	73
1440x48	95-001-A	33
1440x48	95-001-B	73
1440x48	8-002-A	1

ESTATE DTL		
ITEM	DESCRIPTION	QTY
1440x48	8-001-A	1
1440x48	8-001-B	73
1440x48	95-001-A	33
1440x48	95-001-B	73
1440x48	8-002-A	1

NEW BOM		
ITEM	DESCRIPTION	QTY
1440x48	8-001-A	1
1440x48	8-001-B	73
1440x48	95-001-A	33
1440x48	95-001-B	73
1440x48	8-002-A	1

ASP.net SAMPLE

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Masters/BDOD_Master.Master" AutoEventWireup="true" CodeBehind="SurveyDispatch.aspx.cs" Inherits="BDOD_SURVEY.Designer" %>
<asp:Content ID="BDOD_DESIGNER" ContentPlaceHolderID="BDOD_Title" runat="server">
</asp:Content>
<asp:Content ID="BDOD_ABOUT" ContentPlaceHolderID="BDOD_HEAD" runat="server">
</asp:Content>
<asp:Content ID="BDOD_DESIGNER_CONTENT" ContentPlaceHolderID="BDOD_CONTENT_BODY" runat="server" >
    <div class="bodyFont" style="background-color: rgb(222, 215, 215); margin-top:10px;">
        <asp:Label ID="lblProjectID" runat="server" AssociatedControlID="txtProjectID" Text="Project ID:" CssClass="DesignerLabel" />
        <asp:TextBox ID="txtProjectID" runat="server" CssClass="DesignertextBox" />
        <asp:FileUpload ID="FileUploadControl" runat="server" AllowMultiple="true" Style="display: none" />
        <asp:Button runat="server" Text="Browse.." CssClass="btn-default" ID="btnFileBrowse" OnClientClick="return showBrowseDialog();" OnClick="btnFileBrowse_Click" />
        <script type="text/javascript" lang="javascript">
            function showBrowseDialog() {
                document.getElementById('<%=FileUploadControl.ClientID%>').click();
            }
        </script>
        <br />
    <div runat="server" style="background-color: rgb(222,215,215)">
        <div runat="server" style="text-align: right; display: inline-block; margin-left: 85px; margin-bottom: 10px; margin-top: 10px;">
            <asp:ListBox ID="ListBox1" runat="server" SelectionMode="Multiple" CssClass="ListBox"></asp:ListBox>
        </div>
        <div runat="server" style="display: inline-block; width: 490px; background-color: rgb(222, 215, 215); position: absolute; margin-left: -2px; margin-top: 2px;">
            <asp:BulletedList ID="Design_Upload_Instruction" BulletStyle="Numbered" runat="server" CssClass="RightFromListBox">
                <asp:ListItem> Add Project ID in the Textbox</asp:ListItem>
                <asp:ListItem> Click Browse Button to Select Files To Survey</asp:ListItem>
                <asp:ListItem>Select The Files To Upload for Survey from the Popup Window</asp:ListItem>
                <asp:ListItem>Select Files will Be Populated in the list box</asp:ListItem>
                <asp:ListItem>Click Upload Files Button to Upload to the surveyors</asp:ListItem>
            </asp:BulletedList>
        </div>
    </div>
</div>
</asp:Content>
```

C# Sample

```
namespace BDOD_SURVEY
{
    public partial class Designer : System.Web.UI.Page
    {
        int FileCount = 0;
        Project_Data projectdata = new Project_Data();
        static string SourcePath;
        static string DestinationFolder;
        static string DestinationPath;
        protected void Page_Load(object sender, EventArgs e)
        {
            foreach (ListItem lstitem in Design_Upload_Instruction.Items)
            {
                lstitem.Attributes.Add("style", "background-color: rgb(222, 215, 215); line-height:18px;"); }
            if (IsPostBack)
                DestinationFolder = txtProjectID.Text.ToUpper();
            DestinationPath = projectdata.Designer_Survey_Dispatch;
        }
        protected void btnFileBrowse_Click(object sender, EventArgs e)
        {
            foreach (HttpPostedFile postedFile in FileUploadControl.PostedFiles)
            {
                string fileName = Path.GetFileName(postedFile.FileName);
                ListBox1.Items.Add(fileName);
            }
        }
    }
}
```

```
//lblResult.Text = string.Format("{0} files Ready to be Uploaded.", ListBox1.Items.Count.ToString());  
SourcePath = Path.GetDirectoryName(FileUploadControl.PostedFiles[0].FileName);  
}  
protected void btnFileUpload_Click(object sender, EventArgs e)  
{  
    var DirectoryInfo = new DirectoryInfo(DestinationPath);  
    if (!Directory.Exists(Path.Combine(DirectoryInfo.ToString(), DestinationFolder)))  
    {  
        DirectoryInfo.CreateSubdirectory(DestinationFolder);  
    }  
    foreach (object ReadRow in ListBox1.Items)  
    {  
        string ReadVal = ReadRow.ToString();  
        string Source = Path.Combine(SourcePath, ReadVal);  
        string Destination = Path.Combine(DestinationPath + DestinationFolder, ReadVal);  
        if (!(File.Exists(Destination)))  
        {  
            File.Copy(Source, Destination);  
        }  
        FileCount += 1;  
    }  
    //lblResult.Text = string.Format("{0} files have been uploaded successfully.", FileCount);  
}  
protected void btnRemoveSelection_Click(object sender, EventArgs e)  
{  
    List<ListItem> itemsToRemove = new List<ListItem>();  
  
    foreach (ListItem listItem in ListBox1.Items)  
    {  
        if (listItem.Selected)  
            itemsToRemove.Add(listItem);  
    }  
    foreach (ListItem listItem in itemsToRemove)  
    {  
        ListBox1.Items.Remove(listItem);  
    }  
    //lblResult.Text = string.Format("{0} files Ready to be Uploaded.", ListBox1.Items.Count.ToString());  
}  
}  
}
```