ภาคผนวก

Colum

```
Form

Dim B As Double
Dim D As String
Dim P As String
Dim Ps As String
Dim S1 As Integer
Dim S2 As Integer
Dim S3 As Integer
Dim S4 As Integer
Dim S5 As Integer
Dim Sn As String
Dim P2 As Integer

Private Sub Op1_Click()
S1 = 2
S2 = 0
S3 = 2
S4 = 0
Sn = 4
P2 = 0
End Sub

Private Sub Op2_Click()
SI = 3
S2 = 0
S3 = 3
S4 = 0
Sn = 6
P2 = 0
End Sub

Private Sub Op3_Click()
S1 = 2
S2 = 2
S3 = 2
S4 = 0
Sn = 6
P2 = 0
End Sub

Private Sub Op4_Click()
S1 = 3
S2 = 2
S3 = 3
S4 = 0
Sn = 8
P2 = 1
End Sub

Private Sub Op5_Click()
S1 = 4
S2 = 0
S3 = 4
S4 = 0
Sn = 8
P2 = 2
End Sub
```

```
Private Sub Op6_Click()
S1 = 2
S2 = 0
S3 = 2
S4 = 2
S5 = 2
Sn = 8
P2 = 3
End Sub

Private Sub Op7_Click()
SI = 4
S2 = 0
S3 = 4
S4 = 2
S5 = 2
Sn = 12
P2 = 4
End Sub

Private Sub Op8_Click()
S1 = 5
S2 = 2
S3 = 5
S4 = 2
S5 = 2
Sn = 16
P2 = 5
End Sub
```

```
Private Sub CommandButton1_Click()
B = B1.Value
c = 0.025
'Colum----------------------------------
Call Example_AddBeam(B)
If P2 = 1 Then
Call Example_AddPbeam2(B, c)
End If
If P2 = 2 Then
Call Example_AddPbeam3(B, c)
End If
If P2 = 3 Then
Call Example_AddPbeam4(B, c)
End If
If P2 = 4 Then
Call Example_AddPbeam3(B, c)
Call Example_AddPbeam4(B, c)
End If
If P2 = 5 Then
Call Example_AddPbeam2(B, c)
Call Example_AddPbeam3(B, c)
Call Example_AddPbeam4(B, c)
End If
Call Example_AddPbeam1(B, c)

'steel----------------------------------
For i = 1 To S1
dx = (B - c * 2 - 0.02 * S1) / (S1 - 1)
Call Example_AddSteel(c + (2 * i - 1) * 0.01
+ (i - 1) * dx, B - c - 0.01)
Next i
```

```
For i = 1 To S2
dx = (B - c * 2 - 0.02 * S2) / (S2 - 1)
Call Example_AddSteel(c + (2 * i - 1) * 0.01
+ (i - 1) * dx, B / 2)
Next i

For i = 1 To S3
dx = (B - c * 2 - 0.02 * S3) / (S3 - 1)
Call Example_AddSteel(c + (2 * i - 1) * 0.01
+ (i - 1) * dx, c + 0.01)
Next i

For i = 1 To S4
dx = (B - c * 2 - 0.02 * S4) / (S4 - 1)
Call Example_AddSteel(c + (2 * i - 1) * 0.01
+ (i - 1) * dx, B / 2 + c + 0.01)
Call Example_AddSteel(c + (2 * i - 1) * 0.01
+ (i - 1) * dx, B / 2 - c - 0.01)

Next i

For i = 1 To S5
dx = (B - c * 2 - 0.02 * S5) / (S5 - 1)
Call Example_AddSteel(c + (2 * i - 1) * 0.01
+ (i - 1) * dx, B / 2 + c + 0.01)
Call Example_AddStcel(c + (2 * i - 1) * 0.01
+ (i - 1) * dx, B / 2 - c - 0.01)

Next i

Call Example_AddText_un3(Col)
Call Example_AddPbeam1(B, c)
Call Example_AddText_un1(Sn, D1, B)
Call Example_AddText_un2(P1, R1, B)
Call Example_AddDimup(B, H)
Call Example_AddDimside(B, H)
End Sub

Private Sub CommandButton2_Cliek()
End
End Sub
```

AddBeam

```
Sub Example_AddBeam(B)
  This example adds a polyline to the drawing
using the AddPolyline method.

  Dim myDoc As IntelliCAD.Document
  Dim myPline As Polyline
  Dim myPoints As points
  Dim pt As Point

  Set myDoc = ActiveDocument
  Set myPoints = Library.CreatePoints
  Set pt = Library.CreatePoint(0, 0, 0)

  myPoints.Add
  myPoints(myPoints.Count).x = pt.x
  myPoints(myPoints.Count).y = pt.y
  myPoints(myPoints.Count).z = pt.z
```

```
Set pt = Library.CreatePoint(B, 0, 0)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(B, B, 0)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(0, B, 0)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(0, 0, 0)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
  myPline.Update
 ThisDocument.ActiveViewport.ZoomExtents

End Sub
```

```
Sub Example_AddDimside(B, H)

  Dim icadDoc As IntelliCAD.Document
  Dim myText As String
  Dim mtextObj As IntelliCAD.Text
  Dim insPt As IntelliCAD.Point
  Dim height As Double

  Set icadDoc = ActiveDocument
  Set insPt = Library.CreatePoint(-0.2, B / 2)
  height = 0.04

  myText = B
  ' Add the Text obj
  Set mtextObj =
icadDoc.ModelSpace.AddText(myText,  insPt,
height)
   mtextObj.Update
  ThisDocument.ActiveViewport.ZoomCenter
insPt, 20

  Dim myDoc As IntelliCAD.Document
  Dim myPline As Polyline
  Dim myPoints As points
  Dim pt As Point

  Set myDoc = ActiveDocument
  Set myPoints = Library.CreatePoints
  Set pt = Library.CreatePoint(-0.08, 0)
  myPoints.Add
  myPoints(myPoints.Count).x = pt.x
```

```
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(-0.12, 0)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(-0.1, 0)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(-0.1, B)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(-0.08, B)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(-0.12, B)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update

ThisDocument.ActiveViewport.ZoomExtents

End Sub


AddDimside

Sub Example_AddDimside(B, H)

    Dim icadDoc As IntelliCAD.Document
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set icadDoc = ActiveDocument
    Set insPt = Library.CreatePoint(-0.2, B / 2)
    height = 0.04
    myText = B

    ' Add the Text obj
    Set mtextObj =
icadDoc.ModelSpace.AddText(myText, insPt,
height)
```

```
    mtextObj.Update
  ThisDocument.ActiveViewport.ZoomCenter
insPt, 20

    Dim myDoc As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point
    Set myDoc = ActiveDocument
    Set myPoints = Library.CreatePoints

    Set pt = Library.CreatePoint(-0.08, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(-0.12, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(-0.1, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(-0.1, B)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(-0.08, B)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(-0.12, B)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update

ThisDocument.ActiveViewport.ZoomExtents
End Sub
```

AddDimup

```
Sub Example_AddDimup(B, H)

    Dim icadDoe As IntelliCAD.Document
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set icadDoe = ActiveDocument
    Sct insPt = Library.CreatePoint(B / 2 -
0.04, B + 0.16)
    height = 0.04
    myText = B

    ' Add the Text obj

    Set mtextObj =
icadDoc.ModelSpace.AddText(myText, insPt,
height)
    mtextObj.Update
  ThisDocumcnt.ActiveViewport.ZoomCenter
insPt, 20

    Dim myDoc As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point

    Set myDoc = ActiveDocument
    Set myPoints = Library.CreatePoints

    Set pt = Library.CreatePoint(0, B + 0.08)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0, B + 0.12)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0, B + 0.1)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(B, B + 0.1)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(B, B + 0.12)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
```

```
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(B, B + 0.08)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z
    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
  ThisDocument.ActiveViewport.ZoomExtents
End Sub
```

AddPbeam1

```
Sub Example_AddPbeam1(B, c)
  ..' This example adds a polyline to the
drawing using the AddPolyline method.

    Dim myDoc As IntelliCAD.Document
    Dim myPlinc As Polyline
    Dim myPoints As points
    Dim pt As Point

    Set myDoc = ActiveDocument
    Set myPoints = Library.CreatcPoints
    Set pt = Library.CreatePoint(c, c, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(B - c, c, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(B - c, B - c, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(c, B - c, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(c, c, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z
```

```
    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
 ThisDocument.ActiveViewport.ZoomExtents
End Sub
```

AddPbeam2

```
Sub Example_AddPbeam2(B, c)
    ' This example adds a polyline to the
drawing using the AddPolyline method.

    Dim myDoe As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point
    Set myDoc = ActiveDocument
    Set myPoints = Library.CreatePoints

    Set pt = Library.CreatePoint(B / 2, c, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z
    Set pt = Library.CreatePoint(c, B / 2, 0)

    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(B / 2, B - c, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(B - c, B / 2, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(B / 2, c, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z
    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
 ThisDocument.ActiveViewport.ZoomExtents
End Sub
```

AddPbeam3

```
Sub Example_AddPbeam3(B, c)
' This example adds a polyline to the drawing using the AddPolyline method.

    Dim myDoc As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point

    Set myDoc = ActiveDocument
    Set myPoints = Library.CreatePoints
    Set pt = Library.CreatePoint(B / 3, c, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(B / 3, B - c, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(2 * B / 3, B - c, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(2 * B / 3, c, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(B / 3, c, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myPoints)
    myPline.Update
    ThisDocument.ActiveViewport.ZoomExtents
End Sub
```

AddPbeam4

```
Sub Example_AddPbeam4(B, c)
' This example adds a polyline to the drawing using the AddPolyline method.

    Dim myDoc As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point
```

```
Set myDoc = ActiveDoeument
Set myPoints = Library.CreatePoints

Set pt = Library.CreatePoint(c, B / 3, 0)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(c, 2 * B / 3, 0)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

. Set pt = Library.CreatePoint(B - c, 2 * B / 3,
0)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(B - c, B / 3, 0)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(c, B / 3, 0)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
myPline.Update
ThisDocument.ActiveViewport.ZoomExtents

End Sub


AddSteel

Sub Example_AddSteel(x0, y0)

' This example creates a circle with a radius
of 4 and adds it to the
'drawing using the AddCircle method.

Dim icadDoe As IntelliCAD.Document
Dim ieadCircle As IntelliCAD.Circle
Dim cenPt As IntelliCAD.Point

Set ieadDoc = ActiveDocument
Set cenPt = Library.CreatePoint(x0, y0)

'Add the circle to the .dwg

Set icadCircle =
ieadDoc.ModelSpace.AddCircle(cenPt, 0.01)
```

```
    ' Display the entity
    ieadCircle.Update

  ThisDoeument.ActiveViewport.ZoomExtents
End Sub
```

AddText_un1

```
Sub Example_AddText_unI(Sn, D1, B)

' This example creates text and adds it to the drawing using the
    ' AddText method. It then zooms to the eenter of the drawing.

    Dim icadDoc As IntelliCAD.Document
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set ieadDoe = ActiveDocument
    Set insPt = Library.CreatePoint(B + 0.1, 2 * B / 3)
    height = 0.04
    myText = Sn + D1 + " mm." + " +"

    ' Add the Text objeet

    Set mtextObj =
    icadDoc.ModelSpace.AddText(myText, insPt, height)
      mtextObj.Update
    ThisDocument.ActiveViewport.ZoomCenter insPt, 20
End Sub
```

AddText_un2

```
Sub Example_AddText_un2(P1, RI, B)
' This example creates text and adds it to the drawing using the
    ' AddText method. It then zooms to the eenter of the drawing.

    Dim icadDoc As IntelliCAD.Document
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set ieadDoc = ActiveDocument
    Set insPt = Library.CreatePoint(B + 0.I, B / 3)
    height = 0.04

    yText = "Stir " + P1 + " mm.@" + R1 + " m."

    ' Add the Text object
```

```
    Set mtextObj =
icadDoc.ModelSpace.AddText(myText,  insPt,
height)

    mtextObj.Update
  ThisDocument.ActiveViewport.ZoomCenter
insPt, 20
End Sub
```

AddText_un3

```
Sub Example_AddText_un3(tx)

' This example creates text and adds it to the
drawing using the
    ' AddText method. It then zooms to the
center of the drawing.

    Dim icadDoc As IntelliCAD.Document
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set icadDoc = ActiveDocument
    Set insPt = Library.CreatePoint(0.08, -0.1)
    height = 0.04

    myText = tx

    ' Add the Text object

    Set mtextObj =
icadDoc.ModelSpace.AddText(myText,  insPt,
height)
    mtextObj.Update
  ThisDocument.ActiveViewport.ZoomCenter
insPt, 20
End Sub
```

Beam

Form

```
'text right side
Dim BCP As String
Dim BCN As String
Dim CPOR As String
Dim Csn As String
Dim Csp As String
Private Sub CpD_Click()
 BCP = "-DB"
End Sub
Private Sub CporD_Click()
CPOR = "-DB"
End Sub
Private Sub CporR_Click()
CPOR = "-RB"
End Suh
Private Sub CpR_Click()
 BCP = "-RB"
End Sub
Private Sub CnD_Click()
 BCN = "-DB"
End Sub
Private Sub CnR_Click()
 BCN = "-RB"
End Sub
Private Sub CsRn_Click()
Csn = "-RB"
End Sub
Private Sub CsDn_Click()
Csn = "-DB"
End Sub

Private Sub CsRp_Click()
Csp = "-RB"
End Sub
Private Sub CsDp_Click()
Csp = "-DB"
End Sub

Private Sub cmdOK_Click()
'create variable----------------------------------
 B = Val(BeamB.Value)
 H = Val(BeamH.Value)
 n1 = Val(UnNum.Value)
 n2 = Val(UpNum.Value)
 s1 = Val(Snn.Value)
 s2 = Val(Snp.Value)
 c = 0.025
'up steel-----------------------------------------

Dim z As Double

z = n1 + s1

If n1 = 3 And s1 = 1 Then
Call err
```

```
ElseIf n1 = 1 Then
Call err
ElseIf n1 > 4 Then
Call err
ElseIf n1 = 4 And s1 = 4 Then
nI = 4: s1 = 4
ElseIf nI = 2 And sI > 3 Then
Call crr
ElseIf n1 = 4 And s1 = 1 Then
n1 = 3: s1 = 2
ElseIf s1 = 5 Then
Call err
ElseIf z = 8 Then
Call err
ElseIf z = 3 Then
n1 = 3: s1 = 0
ElseIf z = 4 Then
n1 = 2: s1 = 2
ElseIf z = 7 Then
Call err
ElseIf z > 8 Then
Call err

End If
 For i = 1 To n1
  If n1 = 1 Then
  Call Example_AddSteel(B / 2, c + 0.01)
  Else
  dx1 = (B - c * 2 - 0.02 * n1) / (n1 - 1)
  Call Example_AddSteel(c + (2 * i - 1) * 0.01
+ (i - 1) * dx1, c + 0.01)
  End If
 Next i
 For i = 1 To s1
 If s1 = 1 Then
 Call Example_AddSteel(B / 2, 2 * c + 0.03)
 Else
 dx3 = (B - c * 2 - 0.02 * s1) / (s1 - 1)
 Call Example_AddSteel(c + (2 * i - 1) * 0.01
+ (i - 1) * dx3, 2 * c + 0.03)
 End If
 Next i

'un steel----------------------------------

Dim zz As Double

zz = n2 + s2

If n2 = 3 And s2 = 1 Then
Call err
ElseIf n2 = 1 Then
Call err
ElseIf n2 > 4 Then
Call err

ElseIf n2 = 4 And s2 = 4 Then
n2 = 4: s2 = 4
ElseIf n2 = 2 And s2 > 3 Then
Call crr
ElseIf n2 = 4 And s2 = 1 Then
n2 = 3: s2 = 2
```

```
ElseIf s2 = 5 Then
Call err

ElseIf zz = 8 Then
Call err
ElseIf zz = 3 Then
n2 = 3: s2 = 0
ElseIf zz = 4 Then
n2 = 2: s2 = 2
ElseIf zz = 7 Then
Call err
ElseIf zz > 8 Then
Call err
End If

 For q = 1 To n2
  If n2 = 1 Then
  Call Example_AddSteel(B / 2, H - c - 0.01)
  Else
  dx2 = (B - c * 2 - 0.02 * n2) / (n2 - 1)
  Call Example_AddSteel(c + (2 * q - 1) *
0.01 + (q - 1) * dx2, H - c - 0.01)
  End If
 Next q

 For q = 1 To s2
  If s2 = 1 Then
  Call Example_AddSteel(B / 2, H - 2 * c -
0.03)
  Else
  dx4 = (B - c * 2 - 0.02 * s2) / (s2 - 1)
  Call Example_AddSteel(c + (2 * q - 1) *
0.01 + (q - 1) * dx4, H - 2 * c - 0.03)
  End If
 Next q
'beam----------------------------------------------
  Call Example_AddBeam(B, H)
  Call Example_AddPbeam(B, H, c)
'text right side-----------------------------------
  Call  Example_AddText_up(UpNum,  BCP,
UpRD, B, H, Snp, Csp, SDp, s2)
  Call  Example_AddText_un(UnNum,  BCN,
UnRD, B, H, Snn, Csn, SDn, s1)
  Call Example_AddText_mid(PNum, CPOR,
PDim, B, H, Cover)
  Call Example_AddText_beam(NameB, B)
  Call Example_AddDimside(B, H)
  Call Example_AddDimup(B, H)
End Sub
Private Sub cmdCANCEL_Click()
  End
End Sub
```

AddBeam

```
Sub Example_AddBeam(B, H)
' This example adds a polyline to the drawing
using the AddPolyline method.
  Dim myDoc As IntelliCAD.Document
   Dim myPline As Polyline
   Dim myPoints As points
   Dim pt As Point

   Set myDoc = ActiveDocument
   Set myPoints = Library.CreatePoints

   Set pt = Library.CreatePoint(0, 0)
   myPoints.Add
   myPoints(myPoints.Count).x = pt.x
   myPoints(myPoints.Count).y = pt.y
   myPoints(myPoints.Count).z = pt.z

   Set pt = Library.CreatePoint(B, 0)
   myPoints.Add
   myPoints(myPoints.Count).x = pt.x
   myPoints(myPoints.Count).y = pt.y
   myPoints(myPoints.Count).z = pt.z

   Set pt = Library.CreatePoint(B, H)
   myPoints.Add
   myPoints(myPoints.Count).x = pt.x
   myPoints(myPoints.Count).y = pt.y
   myPoints(myPoints.Count).z = pt.z

   Set pt = Library.CreatePoint(0, H)
   myPoints.Add
   myPoints(myPoints.Count).x = pt.x
   myPoints(myPoints.Count).y = pt.y
   myPoints(myPoints.Count).z = pt.z

   Set pt = Library.CreatePoint(0, 0)
   myPoints.Add
   myPoints(myPoints.Count).x = pt.x
   myPoints(myPoints.Count).y = pt.y
   myPoints(myPoints.Count).z = pt.z

    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
  ThisDocument.ActiveViewport.ZoomExtents
End Sub
```

AddPbeam

```
Sub Example_AddPbeam(B, H, c)

  Dim myDoc As IntelliCAD.Doeument
  Dim myPline As Polyline
  Dim myPoints As points
  Dim pt As Point

  Set myDoc = ActiveDocument
  Set myPoints = Library.CreatePoints
  Set pt = Library.CreatePoint(c, c)

  myPoints.Add
  myPoints(myPoints.Count).x = pt.x
  myPoints(myPoints.Count).y = pt.y
  myPoints(myPoints.Count).z = pt.z

  Set pt = Library.CreatePoint(B - c, c)
  myPoints.Add
  myPoints(myPoints.Count).x = pt.x
  myPoints(myPoints.Count).y = pt.y
  myPoints(myPoints.Count).z = pt.z

  Set pt = Library.CreatePoint(B - c, H - c)
  myPoints.Add
  myPoints(myPoints.Count).x = pt.x
  myPoints(myPoints.Count).y = pt.y
  myPoints(myPoints.Count).z = pt.z

  Set pt = Library.CreatePoint(c, H - c)
  myPoints.Add
  myPoints(myPoints.Count).x = pt.x
  myPoints(myPoints.Count).y = pt.y
  myPoints(myPoints.Count).z = pt.z

  Set pt = Library.CreatePoint(c, c)
  myPoints.Add
  myPoints(myPoints.Count).x = pt.x
  myPoints(myPoints.Count).y = pt.y
  myPoints(myPoints.Count).z = pt.z

  Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
  myPline.Update
 ThisDocument.ActiveViewport.ZoomExtents
End Sub
```

AddSteel

```
Sub Example_AddSteel(x0, y0)

  Dim icadDoc As IntelliCAD.Document
  Dim icadCircle As IntelliCAD.Circle
  Dim cenPt As IntelliCAD.Point

  Set icadDoc = ActiveDocument
  Set cenPt = Library.CreatePoint(x0, y0)
```

```
    'Add the circle to the .dwg

    Set icadCircle =
icadDoe.ModelSpace.AddCircle(cenPt, 0.01)

    ' Display the entity
    icadCircle.Update
..ThisDocument.ActiveViewport.ZoomExtents

End Sub
```

AddText_beam

```
Sub Example_AddText_beam(NameB, B)

    Dim ieadDoc As IntelliCAD.Document
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set icadDoc = ActiveDocument
    Set insPt = Library.CreatePoint(B / 2, -
0.15)
    height = 0.05
    myText = NameB

    ' Add the Text object
    Set mtextObj =
icadDoc.ModelSpace.AddText(myText, insPt,
height)
     mtextObj.Update
   ThisDocument.ActiveViewport.ZoomCenter
insPt, 20

End Sub
```

AddText_mid

```
Sub Example_AddText_mid(PNum, CPOR,
PDim, B, H, Cover)

     Dim icadDoc As IntelliCAD.Document
     Dim myText As String
     Dim mtextObj As IntclliCAD.Text
     Dim insPt As IntelliCAD.Point
     Dim height As Double

     Set icadDoc = ActiveDocument
     Set insPt = Library.CreatePoint(B + 0.05,
H / 2 - 0.02)
     height = 0.04
     myText = PNum + "Stir" + CPOR + PDim
+ " mm.@" + Cover + "m."
     ' Add the Text object

     Set mtextObj =
icadDoc.ModelSpace.AddText(myText, insPt,
height)
```

```
    mtextObj.Update
  ThisDocument.AetiveViewport.ZoomCenter
insPt, 20

End Sub
```

AddText_un

```
Sub  Example_AddText_un(UnNum,  BCN,
UnRD, B, H, Snn, Csn, SDn, s1)
    Dim icadDoc As IntelliCAD.Doeumcnt
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

   Set icadDoc = ActiveDocument
   Set insPt = Library.CreatePoint(B + 0.05, 0)
    height = 0.04

    myText = NameB
    If s1 < 1 Then
   myText  =  UnNum  +  BCN  +  UnRD  +  "
mm."
   Else
   myText  =  UnNum  +  BCN  +  UnRD  +  "
mm." + "+" + Snn + Csn + SDn + " mm."
 End If

   ' Add the Text object
    Set mtextObj =
icadDoe.ModelSpaee.AddText(myText,  insPt,
height)
    mtextObj.Update
  ThisDocument.AetiveViewport.ZoomCenter
insPt, 20
End Sub
```

AddText_up

```
Sub  Example_AddText_up(UpNum,  BCP,
UpRD, B, H, Snp, Csp, SDp, s2)

    Dim ieadDoc As IntelliCAD.Document
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set icadDoc = ActiveDocument
    Set insPt = Library.CreatePoint(B + 0.05,
H - 0.04)
    height = 0.04

    myText = NameB

    If s2 < 1 Then
    myText  =  UpNum  +  BCP  +  UpRD  +  "
mm."
```

```
    Else
    myTcxt = UpNum + BCP + UpRD + "
mm." + "+" + Snp + Csp + SDp + " mm."
    End If

    ' Add the Text object
    Set mtextObj =
icadDoe.ModelSpace.AddText(myText,  insPt,
height)
    mtextObj.Update
.....ThisDocument.ActiveViewport.ZoomCent
er insPt, 20
End Sub
```

AddDimside

```
Sub Example_AddDimside(B, H)
    Dim icadDoc As IntelliCAD.Document
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set icadDoc = ActiveDocument
    Set insPt = Library.CreatePoint(-0.2, H / 2)
    height = 0.04

    myText = H
    ' Add the Text obj
    Set mtextObj =
icadDoc.ModelSpace.AddText(myText,  insPt,
height)
    mtextObj.Update
ThisDocument.ActiveViewport.ZoomCenter
insPt, 20

    Dim myDoc As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point

    Set myDoc = ActiveDocument
    Set myPoints = Library.CreatePoints

    Set pt = Library.CreatePoint(-0.12, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(-0.08, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(-0.1, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z
```

```
Sct pt = Library.CreatcPoint(-0.I, H)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatcPoint(-0.08, H)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(-0.12, H)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
myPline.Update
ThisDocument.ActiveViewport.ZoomExtcnts
End Sub
```

AddDimup

```
Sub Example_AddDimup(B, H)

Dim icadDoc As IntelliCAD.Doeument
Dim myText As String
Dim mtextObj As IntelliCAD.Text
Dim insPt As IntelliCAD.Point
Dim height As Double

Set icadDoc = ActiveDocument
Set insPt = Library.CreatePoint(B / 2 -
0.04, H + 0.16)
height = 0.04
myText = B
' Add thc Tcxt obj
Set mtcxtObj =
icadDoc.ModelSpace.AddText(myText, insPt,
height)
mtextObj.Update
ThisDocument.ActiveVicwport.ZoomCenter
insPt, 20

Dim myDoc As IntelliCAD.Document
Dim myPline As Polyline
Dim myPoints As points
Dim pt As Point

Set myDoc = ActivcDocument
Set myPoints = Library.CreatePoints
```

```
Set pt = Library.CreatePoint(0, H + 0.08)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(0, H + 0.12)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(0, H + 0.1)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(B, H + 0.1)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(B, H + 0.12)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(B, H + 0.08)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

  Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
  myPline.Update
 ThisDocument.ActiveViewport.ZoomExtents

End Sub
```

Error

```
Sub err()

    Dim icadDoc As IntelliCAD.Document
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set icadDoc = ActiveDocument
    Set insPt = Library.CreatePoint(B + 2.5, 0)
    height = 0.5

    myText = "Improperly Design"
    ' Add the Text obj
    Set mtextObj =
icadDoc.ModelSpace.AddText(myText,  insPt,
height)
    mtextObj.Update
  ThisDocument.ActiveViewport.ZoomCenter
insPt, 20
End Sub
```

Floor

From

```
Dim L0 As Double
Dim CH As Integer

Private Sub OptionButton1_Click()
CH = 1
End Sub

Private Sub OptionButton2_Click()
CH = 2
End Sub

Private Sub OptionButton3_Click()
CH = 3
End Sub

Private Sub OptionButton4_Click()
CH = 4
End Sub

Private Sub CommandButton1_Click()

If CH = 3 Then

  Call Example_AddFloor3(t)
  Call Example_AddSt_Long(1.2)
  Call Example_Add_dimST1(t, STLtd, STLta)
  Call Example_Add_dimST2(t, STLnd, STLna)
  Call Example_Add_dimfloor(SPan)
  Call Example_Add_dimtick(t)
  Call Example_name(Floor, -0.08)

  For i = 0 To 11
   Call Example_AddSteel(0.1 + 0.01 * (2 * i + 1) + (0.087 * i), 0.435)
  Next i

End If

If CH = 1 Then
  Call Example_AddFloor1(t)
  Call Example_AddSt_Long_up(t)
  Call Example_Add_dim_upST1(t, STRtd, STRta)
  Call Example_Add_dimtick(t)
  Call Example_Add_dim_upST2(t, STRnd, STRna)
  Call Example_p1_Add_dimfloor(SPan)
  Call Example_name(Floor, 0)

  For i = 0 To 11
   Call Example_AddSteel(0.1 + 0.01 * (2 * i + 1) + (0.087 * i), t + 0.4 - 0.035)
   Call Example_AddSteel(0.035, t + 0.4 - 0.035)
```

```
    Call Example_AddSteel(0.2 + 1.2 - 0.035,
t + 0.4 - 0.035)
  Next i
End If

If CH = 4 Then
  Call Example_AddFloor3(t)
  Call Example_AddSt_Long(1.2)
  Call  Example_Add_dimST1(t,  STLtd,
STLta)
  Call  Example_Add_dimST2(t,  STLnd,
STLna)
  Call Example_Add_dimfloor(SPan)
  Call Example_Add_dimtick(t)
  '-----------------------------------------
  Call  Example_Add_dim_upST1(t,  STRtd,
STRta)
  Call  Example_Add_dim_upST2(t,  STRnd,
STRna)
  Call Example_p4AddSt_Long_up(t)
  Call Example_name(Floor, -0.08)

  For i = 0 To 11
    Call Example_AddSteel(0.1 + 0.01 * (2 *
i + 1) + (0.087 * i), 0.435)
    '-----------------------------------------
    Call Example_AddSteel(0.1 + 0.01 * (2 *
i + 1) + (0.087 * i), t + 0.4 - 0.035)
    Call Example_AddSteel(0.035, t + 0.4 -
0.035)
    Call Example_AddSteel(0.2 + 1.2 - 0.035,
t + 0.4 - 0.035)
  Next i
End If

If CH = 2 Then

  Call Example_p2AddFloor1(t)
  Call Example_p2AddBeam
  Call Example_p2AddSt_Long_up(t)
  Call  Example_p2Add_dim_upST1(t,
STRtd, STRta)
  Call  Example_p2Add_dim_upST2(t,
STRnd, STRna)
  Call Example_p2Add_dimtick(t)
  Call Example_name(Floor, -0.13)

  For i = 0 To 9
    Call Example_AddSteel(0.025 + 0.01 * (2
* i + 1) + (0.105 * i), 0.4 - 0.035)
  Next i
End If

End Sub

Private Sub CommandButton2_Click()
End
End Sub
```

Name

```
Sub Example_name(tx1, dx)
    Dim icadDoe As IntelliCAD.Doeument
    Dim myText As String
    Dim mtcxtObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim heigbt As Double

    Set icadDoc = ActiveDocument
    Set insPt = Library.CreatePoint(0.72 + dx, -
0.35)

    height = 0.05
    myTcxt = tx1
    ' Add the Text obj

    Set mtextObj =
ieadDoc.ModelSpace.AddText(myText, insPt,
height)
    mtextObj.Update
  ThisDocument.ActiveViewport.ZoomCenter
insPt, 20

End Sub
```

AddSteel

```
Sub Example_AddSteel(x0, y0)
    Dim icadDoc As IntelliCAD.Document
    Dim icadCircle As IntelliCAD.Circle
    Dim cenPt As IntelliCAD.Point

    Set icadDoc = ActiveDocument
    Set cenPt = Library.CreatePoint(x0, y0)
    Set icadCircle =
icadDoc.ModelSpace.AddCircle(cenPt, 0.01)

    icadCircle.Update
ThisDocument.ActiveViewport.ZoomExtents
End Sub
```

Add_dimtick

```
Sub Example_Add_dimtick(t)

    Dim icadDoc As IntelliCAD.Document
    Dim myText As String
    Dim mtextObj As IntelliCAD.Tcxt
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Sct icadDoc = ActiveDocument
    Set insPt = Library.CreatePoint(1.5, 0.4 + t
/ 2 - 0.015)
    height = 0.03
    myText = t + " m."
```

```
    ' Add the Text obj
    Set mtextObj =
icadDoc.ModelSpace.AddText(myTcxt,  insPt,
height)
    mtextObj.Update
  ThisDocument.ActiveViewport.ZoomCenter
insPt, 20

    Dim myDoc As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point

    Dim L0 As Double
    L0 = 1.2

    Set myDoc = ActiveDocument
    Set myPoints = Library.CreatePoints
    Set pt = Library.CreatePoint(1.44, 0.4)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Sct pt = Library.CreatePoint(1.48, 0.4)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Sct pt = Library.CreatePoint(1.46, 0.4)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(1.46, 0.4 + t)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(1.44, 0.4 + t)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(1.48, 0.4 + t)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
  ThisDocument.ActiveViewport.ZoomExtents
End Sub
```

Dimfloor

```
Sub Example_p1_Add_dimfloor(SPan)

    Dim icadDoc As IntelliCAD.Document
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set icadDoc = ActiveDocument
    Set insPt = Library.CreatePoint(0.72, -0.23)
    height = 0.03

    myText = SPan + " m."
    ' Add the Text obj
    Set mtextObj =
icadDoc.ModelSpace.AddText(myText, insPt,
height)
    mtextObj.Update
  ThisDocument.ActiveViewport.ZoomCenter
insPt, 20

    Dim myDoc As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point

    Dim L0 As Double
    L0 = 1.2

    Set myDoc = ActiveDocument
    Set myPoints = Library.CreatePoints

    Set pt = Library.CreatePoint(0.2, -0.17)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.2, -0.13)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.2, -0.15)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.2 + L0, -
0.15)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z
```

```
    Set pt = Library.CreatePoint(0.2 + L0, -
0.13)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.2 + L0, -
0.17)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
 ThisDocument.ActiveViewport.ZoomExtents
End Sub
```

AddFloor1

```
Sub Example_AddFloor1(t)

    Dim myDoe As IntelliCAD.Doeument
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point
    Dim L0 As Double
    L0 = 1.2

    Set myDoc = ActiveDoeument
    Set myPoints = Library.CreatePoints

    Set pt = Library.CreatePoint(0, 0)
     myPoints.Add
     myPoints(myPoints.Count).x = pt.x
     myPoints(myPoints.Count).y = pt.y
     myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.2, 0)
     myPoints.Add
     myPoints(myPoints.Count).x = pt.x
     myPoints(myPoints.Count).y = pt.y
     myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.2, 0.4)
     myPoints.Add
     myPoints(myPoints.Count).x = pt.x
     myPoints(myPoints.Count).y = pt.y
     myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(L0 + 0.2, 0.4)
     myPoints.Add
     myPoints(myPoints.Count).x = pt.x
     myPoints(myPoints.Count).y = pt.y
     myPoints(myPoints.Count).z = pt.z
```

```
Set pt = Library.CreatePoint(L0 + 0.2, 0.4 + t)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

  Set pt = Library.CreatePoint(0, 0.4 + t)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

  Set pt = Library.CreatePoint(0, 0)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

  Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
  myPline.Update
 ThisDocument.ActiveViewport.ZoomExtents

End Sub
```

AddSteel_Long_up

```
Sub Example_AddSt_Long_up(t)

  Dim myDoc As IntelliCAD.Document
  Dim myPline As Polyline
  Dim myPoints As points
  Dim pt As Point

  Set myDoe = ActiveDocument
  Set myPoints = Library.CreatePoints

  Set pt = Library.CreatePoint(0.075, 0.025)
  myPoints.Add
  myPoints(myPoints.Count).x = pt.x
  myPoints(myPoints.Count).y = pt.y
  myPoints(myPoints.Count).z = pt.z

  Set pt = Library.CreatePoint(0.025, 0.025)
  myPoints.Add
  myPoints(myPoints.Count).x = pt.x
  myPoints(myPoints.Count).y = pt.y
  myPoints(myPoints.Count).z = pt.z

  Set pt = Library.CreatePoint(0.025, t + 0.4
- 0.025)
  myPoints.Add
  myPoints(myPoints.Count).x = pt.x
  myPoints(myPoints.Count).y = pt.y
  myPoints(myPoints.Count).z = pt.z
```

```
    Set pt = Library.CreatePoint(1.4 - 0.025, t
+ 0.4 - 0.025)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(1.4 - 0.025, t
+ 0.4 - 0.045)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
  ThisDocument.ActiveViewport.ZoomExtents
End Sub
```

Add_dim_upST1

```
Sub Example_Add_dim_upST1(t, tx1, tx2)

    Dim icadDoc As IntelliCAD.Doeument
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double
    Set icadDoc = ActiveDocument
    Set insPt = Library.CreatePoint(0.24, t +
0.4 + 0.05)
    height = 0.03
    myText = tx1 + "mm.@" + tx2 + "m."
    ' Add the Text obj

    Set mtextObj =
icadDoe.ModelSpace.AddText(myText, insPt,
height)
    mtextObj.Update
  ThisDoeument.ActiveViewport.ZoomCenter
insPt, 20

    Dim myDoe As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point

    Set myDoc = ActiveDocument
    Set myPoints = Library.CreatePoints

    Set pt = Library.CreatePoint(0.22, t + 0.4 -
0.035)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z
```

```
    Set pt = Library.CreatcPoint(0.22, t + 0.4 +
0.05)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CrcatePoint(0.24, t + 0.4 +
0.05)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Sct myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPlinc.Update
 ThisDocument.ActiveViewport.ZoomExtents

End Sub


Add_dim_upST2

Sub Examplc_Add_dim_upST2(t, tx1, tx2)

    Dim icadDoc As IntelliCAD.Document
    Dim myText As String
    Dim mtcxtObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set icadDoc = ActivcDocumcnt
    Set insPt = Library.CreatePoint(0.7, t +
0.45)
    height = 0.03

    myText = tx1 + "mm.@" + tx2 + "m."
    ' Add the Text obj
    Set mtextObj =
icadDoc.ModelSpace.AddText(myText, insPt,
height)

    mtextObj.Update
 ThisDocument.ActiveViewport.ZoomCenter
insPt, 20

    Dim myDoc As IntelliCAD.Document
    Dim myPlinc As Polyline
    Dim myPoints As points
    Dim pt As Point

    Set myDoc = ActivcDocument
    Set myPoints = Library.CreatePoints

    Set pt = Library.CreatePoint(0.68, t + 0.4 -
0.025)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z
```

```
    Set pt = Library.CreatePoint(0.68, t + 0.45)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.7, t + 0.45)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
 ThisDocument.ActiveViewport.ZoomExtents
End Sub
```

p2AddBeam

```
Sub Example_p2AddBeam()

    Dim myDoc As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point
    Dim L0 As Double
    L0 = 1.2
    Set myDoc = ActiveDocument
    Set myPoints = Library.CreatePoints

    Set pt = Library.CreatePoint(-0.22, 0)
     myPoints.Add
     myPoints(myPoints.Count).x = pt.x
     myPoints(myPoints.Count).y = pt.y
     myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(-0.22, 0.4)
     myPoints.Add
     myPoints(myPoints.Count).x = pt.x
     myPoints(myPoints.Count).y = pt.y
     myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(-0.02, 0.4)
     myPoints.Add
     myPoints(myPoints.Count).x = pt.x
     myPoints(myPoints.Count).y = pt.y
     myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(-0.02, 0)
     myPoints.Add
     myPoints(myPoints.Count).x = pt.x
     myPoints(myPoints.Count).y = pt.y
     myPoints(myPoints.Count).z = pt.z
```

```
    Set pt = Library.CreatePoint(-0.22, 0)
     myPoints.Add
     myPoints(myPoints.Count).x = pt.x
     myPoints(myPoints.Count).y = pt.y
     myPoints(myPoints.Count).z = pt.z

    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
  ThisDocument.ActiveViewport.ZoomExtents

End Sub


p2Add_dim_upST1

Sub Example_p2Add_dim_upST1(t, tx1, tx2)

    Dim icadDoc As IntelliCAD.Doeument
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set icadDoc = ActiveDocument
    Set insPt = Library.CreatePoint(0.055, 0.4
+ 0.035)
    height = 0.03

    myText = tx1 + "mm.@" + tx2 + "m."

     ' Add the Text obj

     Set mtextObj =
ieadDoc.ModelSpace.AddText(myText, insPt,
height)
     mtextObj.Update
  ThisDocument.ActiveViewport.ZoomCenter
insPt, 20

     Dim myDoc As IntelliCAD.Document
     Dim myPline As Polyline
     Dim myPoints As points
     Dim pt As Point

     Set myDoc = ActiveDocument
     Set myPoints = Library.CreatePoints

     Set pt = Library.CreatePoint(0.035, 0.4 -
0.035)
     myPoints.Add
     myPoints(myPoints.Count).x = pt.x
     myPoints(myPoints.Count).y = pt.y
     myPoints(myPoints.Count).z = pt.z

     Set pt = Library.CreatePoint(0.035, 0.4 +
0.05)
     myPoints.Add
     myPoints(myPoints.Count).x = pt.x
     myPoints(myPoints.Count).y = pt.y
     myPoints(myPoints.Count).z = pt.z
```

```
    Set pt = Library.CreatePoint(0.055, 0.4 +
0.05)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
 ThisDocument.ActiveViewport.ZoomExtents

End Sub


p2Add_dim_upST2

Sub Example_p2Add_dim_upST2(t, tx1, tx2)

    Dim icadDoc As IntelliCAD.Document
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set icadDoc = ActiveDocument
    Set insPt = Library.CreatePoint(0.62, 0.4 +
0.025)
    height = 0.03
    myText = tx1 + "mm.@" + tx2 + "m."
    ' Add the Text obj

    Set mtextObj =
icadDoc.ModelSpace.AddText(myText, insPt,
height)
    mtextObj.Update
 ThisDocument.ActiveViewport.ZoomCenter
insPt, 20

    Dim myDoc As IntelliCAD.Doeument
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point

    Set myDoe = ActiveDocument
    Set myPoints = Library.CreatePoints

    Set pt = Library.CreatePoint(0.6, 0.4 -
0.025)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.6, 0.4 +
0.05)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z
```

```
    Set pt = Library.CreatePoint(0.62, 0.4 +
0.05)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
  ThisDocument.ActiveViewport.ZoomExtents

End Sub
```

p2Add_dimtick

```
Sub Example_p2Add_dimtick(t)

    Dim icadDoc As IntelliCAD.Document
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set icadDoc = ActiveDocument
    Set insPt = Library.CreatePoint(1.28, 0.4 - t
/ 2 - 0.015)
    height = 0.03
    myText = t + "m."
    ' Add the Text obj

    Set mtextObj =
icadDoc.ModelSpace.AddText(myText, insPt,
height)
    mtextObj.Update
  ThisDocument.ActiveViewport.ZoomCenter
insPt, 20

    Dim myDoc As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point
    Dim L0 As Double
    L0 = 1.2

    Set myDoc = ActiveDocument
    Set myPoints = Library.CreatePoints

    Set pt = Library.CreatePoint(1.22, 0.4 - t)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(1.26, 0.4 - t)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z
```

```
Sct pt = Library.CreatePoint(1.24, 0.4 - t)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Sct pt = Library.CreatePoint(1.24, 0.4)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(1.26, 0.4)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(1.22, 0.4)
myPoints.Add
myPoints(myPoints.Count).x = pt.x
myPoints(myPoints.Count).y = pt.y
myPoints(myPoints.Count).z = pt.z

Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
myPline.Update
ThisDocument.ActiveViewport.ZoomExtents

End Sub
```

p2AddFloor1

```
Sub Example_p2AddFloor1(t)

Dim myDoc As IntelliCAD.Document
Dim myPline As Polyline
Dim myPoints As points
Dim pt As Point
Dim L0 As Double
L0 = 1.2

Set myDoc = ActiveDocument
Set myPoints = Library.CreatePoints

Set pt = Library.CreatePoint(0, 0.2)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(0, 0.4)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(1.2, 0.4)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z
```

```
Set pt = Lib rary.CreatePoint(1.2, 0.4 - t)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(0.2, 0.4 - t)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(0.1, 0.2)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(0, 0.2)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z

 Set myPline =
ThisDoeument.ModelSpace.AddPolyline(myP
oints)
 myPline.Update
 ThisDocument.ActiveViewport.ZoomExtents

End Sub
```

p2AddSt_Long_up

```
Sub Example_p2AddSt_Long_up(t)

 Dim myDoc As IntelliCAD.Document
 Dim myPline As Polyline
 Dim myPoints As points
 Dim pt As Point

 Set myDoc = ActiveDocument
 Set myPoints = Library.CreatePoints

 Set pt = Library.CreatePoint(0.025, 0.4 -
0.045)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z

 Set pt = Library.CreatePoint(0.025, 0.4 -
0.025)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z
 Set pt = Library.CreatePoint(1.2 - 0.025,
0.4 - 0.025)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z
```

```
    Set pt = Library.CreatePoint(1.2 - 0.025,
0.4 - 0.045)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
  ThisDocument.ActiveViewport.ZoomExtents
End Sub
```

Add_dimfloor

```
Sub Example_Add_dimfloor(SPan)

    Dim icadDoc As IntelliCAD.Document
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set icadDoc = ActiveDocument
    Set insPt = Library.CreatePoint(0.64, -0.26)
    height = 0.03
    myText = SPan + "m."
    ' Add the Text obj
    Set mtextObj =
icadDoc.ModelSpace.AddText(myText, insPt,
height)
    mtextObj.Update
  ThisDocument.ActiveViewport.ZoomCenter
insPt, 20

    Dim myDoc As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point

    Dim L0 As Double
    L0 = 1.2

    Set myDoc = ActiveDocument
    Set myPoints = Library.CreatePoints

    Set pt = Library.CreatePoint(0.1, -0.17)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.1, -0.13)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z
```

```
    Set pt = Library.CreatePoint(0.1, -0.15)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.1 + L0, -
0.15)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.1 + L0, -
0.13)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.1 + L0, -
0.17)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
    ThisDocument.ActiveViewport.ZoomExtents
End Sub
```

AddFloor3

```
Sub Example_AddFloor3(t)

    Dim myDoe As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point

    Dim L0 As Double
    L0 = 1.2

    Set myDoe = ActiveDocument
    Set myPoints = Library.CreatePoints

    Set pt = Library.CreatePoint(0, 0)
     myPoints.Add
     myPoints(myPoints.Count).x = pt.x
     myPoints(myPoints.Count).y = pt.y
     myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.2, 0)
     myPoints.Add
     myPoints(myPoints.Count).x = pt.x
     myPoints(myPoints.Count).y = pt.y
     myPoints(myPoints.Count).z = pt.z
```

```
Set pt = Library.CreatePoint(0.2, 0.4)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(L0, 0.4)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(L0, 0)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(L0 + 0.2, 0)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(L0 + 0.2, 0.4 +
t)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(0, 0.4 + t)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z

Set pt = Library.CreatePoint(0, 0)
 myPoints.Add
 myPoints(myPoints.Count).x = pt.x
 myPoints(myPoints.Count).y = pt.y
 myPoints(myPoints.Count).z = pt.z

 Set myPline =
ThisDoeument.ModelSpace.AddPolyline(myP
oints)
 myPline.Update
ThisDoeument.ActiveViewport.ZoomExtents
End Sub
```

AddSt_Long

```
Sub Example_AddSt_Long(L0)

    Dim myDoc As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point

    Set myDoc = ActiveDocument
    Set myPoints = Library.CreatePoints

    Set pt = Library.CreatePoint(0.1, 0.445)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.1, 0.425)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.1 + L0,
0.425)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.1 + L0,
0.445)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
 ThisDocument.ActiveViewport.ZoomExtents
End Sub
```

Add_dimST1

```
Sub Example_Add_dimST1(t, tx1, tx2)

    Dim icadDoc As IntelliCAD.Document
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set icadDoc = ActiveDocument

    Set insPt = Library.CreatePoint(0.24, 0.35)
    height = 0.03
    myText= tx1 + "mm.@" + tx2 + "m."
    ' Add the Text obj
```

```
    Set mtextObj =
icadDoc.ModelSpace.AddText(myText,  insPt,
height)

    mtextObj.Update

  ThisDocument.ActiveViewport.ZoomCenter
insPt, 20
    Dim myDoc As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point

    Set myDoc = ActiveDocument
    Set myPoints = Library.CreatePoints

    Set pt = Library.CreatePoint(0.22, 0.435)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.22, 0.35)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.24, 0.35)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set myPline =
ThisDoeument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
 ThisDocument.ActivcVicwport.ZoomExtents

End Sub


Add_dimST2

Sub Example_Add_dimST2(t, tx1, tx2)

    Dim icadDoc As IntelliCAD.Document
    Dim myText As String
    Dim mtextObj As IntelliCAD.Text
    Dim insPt As IntelliCAD.Point
    Dim height As Double

    Set icadDoc = ActiveDocumcnt

    Set insPt = Library.CreatePoint(0.62, 0.35)
    height = 0.03

    myText = tx1 + "mm.@" + tx2 + "m."

    ' Add the Text obj
```

```
    Set mtextObj =
icadDoc.ModelSpace.AddText(myText,  insPt,
height)

    mtextObj.Update

  ThisDocument.ActivcViewport.ZoomCenter
insPt, 20

    Dim myDoc As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point

    Set myDoc = ActivcDocument
    Set myPoints = Library.CrcatePoints

    Sct pt = Library.CreatePoint(0.6, 0.425)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(0.6, 0.35)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatcPoint(0.62, 0.35)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z
    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
  ThisDocument.ActiveViewport.ZoomExtents

End Sub


p4AddSt_Long_up

Sub Example_p4AddSt_Long_up(t)

    Dim myDoc As IntelliCAD.Document
    Dim myPline As Polyline
    Dim myPoints As points
    Dim pt As Point

    Set myDoc = ActiveDocument
    Set myPoints = Library.CrcatePoints

    Set pt = Library.CrcatePoint(0.025, t + 0.4
- 0.045)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z
```

```
    Set pt = Library.CreatePoint(0.025, t + 0.4
- 0.025)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(1.4 - 0.025, t
+ 0.4 - 0.025)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set pt = Library.CreatePoint(1.4 - 0.025, t
+ 0.4 - 0.045)
    myPoints.Add
    myPoints(myPoints.Count).x = pt.x
    myPoints(myPoints.Count).y = pt.y
    myPoints(myPoints.Count).z = pt.z

    Set myPline =
ThisDocument.ModelSpace.AddPolyline(myP
oints)
    myPline.Update
  ThisDocument.ActiveViewport.ZoomExtents
End Sub
```