Option Explicit
Dim NodeFrom() As Integer
Dim NodeTo() As Integer
Dim Diameter() As Single
Dim Length() As Single
Dim Flow() As Double
Dim Wloop() As Integer
Dim Area() As Single
Dim Velocity() As Double
Dim k() As Double
Dim HeadLoss() As Double
Dim PSI() As Single
Dim NumNodes As Integer

Public Sub StartItUp()
    Dim HowBig As Integer, NumLoops As Integer, HowLong As Integer, I As Integer
    Dim MaxDeltaQ As Double
    Dim NodesLeft As Integer
    Call LoadInitialArrays(HowBig, NumLoops)
    Call ConvertDiameter(HowBig)
    Call ConvertFlow(HowBig)
    Call CalcAreaAndVelocity(HowBig)
    Call CalculateK(HowBig)
    Call CalculateHeadLoss(HowBig)
    Call CalculateFlowChange(HowBig, NumLoops)
    MaxDeltaQ = FindMaxDeltaQ(HowBig)
    Do Until MaxDeltaQ <= 0.00000005
        For I = 1 To HowBig
            Flow(I) = Flow(I) + PipeDeltaQ(I)
        Next I
        Call CalcAreaAndVelocity(HowBig)
        Call CalculateHeadLoss(HowBig)
        Call CalculateFlowChange(HowBig, NumLoops)
        MaxDeltaQ = FindMaxDeltaQ(HowBig)
    Loop
    Rem PSI(1) = 30#
    NodesLeft = NumNodes - 1
    Do While NodesLeft > 0
        For I = 1 To HowBig
            If PSI(I) > -99999999# And PSI(NodeTo(I)) = -99999999# Then
                PSI(NodeTo(I)) = PSI(I) + (NodeElevation(NodeFrom(I)) - NodeElevation(NodeTo(I)) - HeadLoss(I)) * 62.28 / 144
                NodesLeft = NodesLeft - 1
            End If
        Next I
    Loop
    For I = 1 To HowBig
        Range("H2").Offset(I - 1, 1).Value = Flow(I) / (0.0000371 * 60#)
        Range("I2").Offset(I - 1, 1).Value = HeadLoss(I)
        Range("J2").Offset(I - 1, 1).Value = NodeElevation(NodeFrom(I)) - NodeElevation(NodeTo(I))
        Range("K2").Offset(I - 1, 1).Value = NodeElevation(NodeFrom(I)) - NodeElevation(NodeTo(I)) - HeadLoss(I)
        Range("L2").Offset(I - 1, 1).Value = (NodeElevation(NodeFrom(I)) - NodeElevation(NodeTo(I)) - HeadLoss(I)) * 62.28 / 144
    Next I
    For I = 1 To NumNodes
        Range("M2").Offset(I - 1, 1).Value = I
        Range("N2").Offset(I - 1, 1).Value = PSI(I)
    Next I
End Sub

Public Sub LoadInitialArrays(HowBig As Integer, NumLoops As Integer)
    Dim I As Integer
    ...
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Dim Cell As Range
Dim LoadArray() As Variant

HowBig = Selection.Count / 8
ReDim LoadArray(1 To 8, 1 To HowBig)
LoadArray = Selection

ReDim NodeFrom(1 To HowBig)
ReDim NodeTo(1 To HowBig)
ReDim Diameter(1 To HowBig)
ReDim Length(1 To HowBig)
ReDim Flow(1 To HowBig)
ReDim Wloop(1 To HowBig)
ReDim Area(1 To HowBig)
ReDim Velocity(1 To HowBig)
ReDim k(1 To HowBig)
ReDim HeadLoss(1 To HowBig)
ReDim HQLoss(1 To HowBig)
ReDim PipeDeltaQ(1 To HowBig)
ReDim PSI(1 To HowBig)

NumLoops = 0
NumNodes = 0

For I = 1 To HowBig
    NodeFrom(I) = LoadArray(I, 2)
    NodeTo(I) = LoadArray(I, 3)
    If NodeTo(I) > NumNodes Then
        NumNodes = NodeTo(I)
    End If
    Diameter(I) = LoadArray(I, 4)
    Length(I) = LoadArray(I, 5)
    Flow(I) = LoadArray(I, 6)
    Wloop(I) = LoadArray(I, 7)
    If Wloop(I) > NumLoops Then
        NumLoops = Wloop(I)
    End If
Next I

ReDim LoopDeltaQ(1 To NumLoops)
ReDim NodeElevation(1 To NumNodes)

For I = 1 To HowBig
    If LoadArray(I, 1) <> "" Then
        NodeElevation(LoadArray(I, 2)) = LoadArray(I, 1)
    End If
    If LoadArray(I, 8) <> "" Then
        PSI(LoadArray(I, 2)) = LoadArray(I, 8)
    Else
        PSI(LoadArray(I, 2)) = -99999999#
    End If
Next I
For I = 1 To NumNodes
    Debug.Print NodeElevation(I)
Next I

End Sub

Public Sub ConvertDiameter(HowBig As Integer)
    Dim I As Integer
    For I = 1 To HowBig
        Diameter(I) = Diameter(I) / 12#
    Next I
End Sub

Public Sub ConvertFlow(HowBig As Integer)
    Dim I As Integer
    For I = 1 To HowBig
        Flow(I) = Flow(I) * 0.0000371 * 60#
    Next I
End Sub
Public Sub CalcAreaAndVelocity(HowBig As Integer)
    Dim I As Integer
    For I = 1 To HowBig
        Area(I) = 3.14159 * Diameter(I) ^ 2 / 4
        Velocity(I) = Flow(I) / Area(I)
    Next I
End Sub

Public Sub CalculateK(HowBig As Integer)
    Dim I As Integer
    For I = 1 To HowBig
        k(I) = Length(I) * (1 / (Area(I) * 1.318 * 120) * (4 / Diameter(I)) ^ 0.63) ^ 1.85
    Next I
End Sub

Public Sub CalculateHeadLoss(HowBig As Integer)
    Dim I As Integer
    For I = 1 To HowBig
        HeadLoss(I) = k(I) * Abs(Flow(I)) ^ 1.85 * (Sgn(Flow(I)))
        HQLoss(I) = 1.85 * k(I) * Abs(Flow(I)) ^ 0.85
    Next I
End Sub

Public Sub CalculateFlowChange(HowBig As Integer, NumLoops As Integer)
    Dim I As Integer, j As Integer
    ReDim LoopTotal(1 To NumLoops) As Single
    ReDim QLoopTotal(1 To NumLoops) As Single
    For I = 1 To NumLoops
        LoopTotal(I) = 0#
        QLoopTotal(I) = 0#
    Next I
    For I = 1 To HowBig
        LoopTotal(Wloop(I)) = LoopTotal(Wloop(I)) + HeadLoss(I)
        QLoopTotal(Wloop(I)) = QLoopTotal(Wloop(I)) + HQLoss(I)
    Next I
    For I = 1 To NumLoops
        LoopDeltaQ(I) = -LoopTotal(I) / QLoopTotal(I)
    Next I
    For I = 1 To HowBig
        PipeDeltaQ(I) = LoopDeltaQ(Wloop(I))
    Next I
    For I = 1 To HowBig
        For j = 1 To HowBig
            If NodeFrom(I) = NodeTo(j) And NodeTo(I) = NodeFrom(j) Then
                PipeDeltaQ(j) = PipeDeltaQ(j) - LoopDeltaQ(Wloop(I))
            End If
        Next j
    Next I
End Sub

Public Function FindMaxDeltaQ(HowBig As Integer) As Double
    Dim I As Integer
    FindMaxDeltaQ = 0#
    For I = 1 To HowBig
        If Abs(PipeDeltaQ(I)) > FindMaxDeltaQ Then
            FindMaxDeltaQ = Abs(PipeDeltaQ(I))
        End If
    Next I
End Function