**PROJECT TITLE :**

| | | | | |
|---|---|---|---|---|
| MIDAS | Company | | Client | |
| | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                          Gen 2024
==========================================================================================


       +============================================================+
       |  MIDAS(Modeling, Integrated Design & Analysis Software)    |
       |  midas Gen - Design & checking system for windows          |
       +============================================================+
       |  Steel Member Applicable Code Checking                     |
       |  Based On  Eurocode3:05, Eurocode3, AISC(15th)-LRFD16,     |
       |            AISC(15th)-ASD16, AISC(14th)-LRFD10,            |
       |            AISC(14th)-ASD10, AISC(13th)-LRFD05,            |
       |            AISC(13th)-ASD05, AISC-LRFD2K, AISC-LRFD93,     |
       |            AISC-ASD89, CSA-S16-01, BS5950-90,              |
       |            NSCP 2015(LRFD), NSCP 2015(ASD)                 |
       |                                                            |
       |                                                            |
       |                                                            |
       |                                                            |
       |                                                            |
       |                                                            |
       |                                                            |
       |                                          (c)SINCE 1989     |
       +============================================================+
       |  MIDAS Information Technology Co.,Ltd.         (MIDAS IT)  |
       |  MIDAS IT Design Development Team                          |
       +============================================================+
       |            HomePage : www.MidasUser.com                    |
       +============================================================+
       |  Gen 2024                                                  |
       +============================================================+


    *. DEFINITION OF LOAD COMBINATIONS WITH SCALING UP FACTORS.
------------------------------------------------------------------------------------------
     LCB  C    Loadcase Name(Factor) + Loadcase Name(Factor) + Loadcase Name(Factor)
------------------------------------------------------------------------------------------
       1  1              PP( 1.400) +           CM( 1.400)
       2  1              PP( 1.200) +           CM( 1.200) +           CV( 1.600)
       3  1              PP( 1.200) +           CM( 1.200) +           WX( 1.000)
              +           CV( 1.000)
       4  1              PP( 1.200) +           CM( 1.200) +           WY( 1.000)
              +           CV( 1.000)
       5  1              PP( 1.200) +           CM( 1.200) +           WX(-1.000)
              +           CV( 1.000)
       6  1              PP( 1.200) +           CM( 1.200) +           WY(-1.000)
              +           CV( 1.000)
       7  1              PP( 1.200) +           CM( 1.200) +       RX(RS)( 1.000)
              +       RY(RS)( 0.300) +           CV( 1.000)
       8  1              PP( 1.200) +           CM( 1.200) +       RX(RS)( 1.000)
              +       RY(RS)(-0.300) +           CV( 1.000)
       9  1              PP( 1.200) +           CM( 1.200) +       RY(RS)( 1.000)
              +       RX(RS)( 0.300) +           CV( 1.000)
      10  1              PP( 1.200) +           CM( 1.200) +       RY(RS)( 1.000)
              +       RX(RS)(-0.300) +           CV( 1.000)
      11  1              PP( 1.200) +           CM( 1.200) +       RX(RS)(-1.000)
              +       RY(RS)(-0.300) +           CV( 1.000)
      12  1              PP( 1.200) +           CM( 1.200) +       RX(RS)(-1.000)
              +       RY(RS)( 0.300) +           CV( 1.000)
      13  1              PP( 1.200) +           CM( 1.200) +       RY(RS)(-1.000)
              +       RX(RS)(-0.300) +           CV( 1.000)
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
--------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                          Gen 2024
============================================================================================

      14  1              PP( 1.200) +           CM( 1.200) +        RY(RS)(-1.000)
              +        RX(RS)( 0.300) +           CV( 1.000)
      15  1              PP( 0.900) +           CM( 0.900) +            WX( 1.000)
      16  1              PP( 0.900) +           CM( 0.900) +            WY( 1.000)
      17  1              PP( 0.900) +           CM( 0.900) +            WX(-1.000)
      18  1              PP( 0.900) +           CM( 0.900) +            WY(-1.000)
      19  1              PP( 0.900) +           CM( 0.900) +        RX(RS)( 1.000)
              +        RY(RS)( 0.300)
      20  1              PP( 0.900) +           CM( 0.900) +        RX(RS)( 1.000)
              +        RY(RS)(-0.300)
      21  1              PP( 0.900) +           CM( 0.900) +        RY(RS)( 1.000)
              +        RX(RS)( 0.300)
      22  1              PP( 0.900) +           CM( 0.900) +        RY(RS)( 1.000)
              +        RX(RS)(-0.300)
      23  1              PP( 0.900) +           CM( 0.900) +        RX(RS)(-1.000)
              +        RY(RS)(-0.300)
      24  1              PP( 0.900) +           CM( 0.900) +        RX(RS)(-1.000)
              +        RY(RS)( 0.300)
      25  1              PP( 0.900) +           CM( 0.900) +        RY(RS)(-1.000)
              +        RX(RS)(-0.300)
      26  1              PP( 0.900) +           CM( 0.900) +        RY(RS)(-1.000)
              +        RX(RS)( 0.300)
      27  2              PP( 1.000) +           CM( 1.000)
      28  2              PP( 1.000) +           CM( 1.000) +            CV( 1.000)
      29  2              PP( 1.000) +           CM( 1.000) +            WX( 0.600)
      30  2              PP( 1.000) +           CM( 1.000) +            WY( 0.600)
      31  2              PP( 1.000) +           CM( 1.000) +            WX(-0.600)
      32  2              PP( 1.000) +           CM( 1.000) +            WY(-0.600)
      33  2              PP( 1.000) +           CM( 1.000) +        RX(RS)( 0.700)
              +        RY(RS)( 0.210)
      34  2              PP( 1.000) +           CM( 1.000) +        RX(RS)( 0.700)
              +        RY(RS)(-0.210)
      35  2              PP( 1.000) +           CM( 1.000) +        RY(RS)( 0.700)
              +        RX(RS)( 0.210)
      36  2              PP( 1.000) +           CM( 1.000) +        RY(RS)( 0.700)
              +        RX(RS)(-0.210)
      37  2              PP( 1.000) +           CM( 1.000) +        RX(RS)(-0.700)
              +        RY(RS)(-0.210)
      38  2              PP( 1.000) +           CM( 1.000) +        RX(RS)(-0.700)
              +        RY(RS)( 0.210)
      39  2              PP( 1.000) +           CM( 1.000) +        RY(RS)(-0.700)
              +        RX(RS)(-0.210)
      40  2              PP( 1.000) +           CM( 1.000) +        RY(RS)(-0.700)
              +        RX(RS)( 0.210)
      41  2              PP( 1.000) +           CM( 1.000) +            WX( 0.450)
              +           CV( 0.750)
      42  2              PP( 1.000) +           CM( 1.000) +            WY( 0.450)
              +           CV( 0.750)
      43  2              PP( 1.000) +           CM( 1.000) +            WX(-0.450)
              +           CV( 0.750)
      44  2              PP( 1.000) +           CM( 1.000) +            WY(-0.450)
              +           CV( 0.750)
```

midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ] Gen 2024

| | | | | |
|---|---|---|---|---|
| 45 | 2 | PP( 1.000) + | CM( 1.000) + | CV( 0.750) |
| | + | RX(RS)( 0.525) + | RY(RS)( 0.157) | |
| 46 | 2 | PP( 1.000) + | CM( 1.000) + | CV( 0.750) |
| | + | RX(RS)( 0.525) + | RY(RS)(-0.157) | |
| 47 | 2 | PP( 1.000) + | CM( 1.000) + | CV( 0.750) |
| | + | RY(RS)( 0.525) + | RX(RS)( 0.157) | |
| 48 | 2 | PP( 1.000) + | CM( 1.000) + | CV( 0.750) |
| | + | RY(RS)( 0.525) + | RX(RS)(-0.157) | |
| 49 | 2 | PP( 1.000) + | CM( 1.000) + | CV( 0.750) |
| | + | RX(RS)(-0.525) + | RY(RS)(-0.157) | |
| 50 | 2 | PP( 1.000) + | CM( 1.000) + | CV( 0.750) |
| | + | RX(RS)(-0.525) + | RY(RS)( 0.157) | |
| 51 | 2 | PP( 1.000) + | CM( 1.000) + | CV( 0.750) |
| | + | RY(RS)(-0.525) + | RX(RS)(-0.157) | |
| 52 | 2 | PP( 1.000) + | CM( 1.000) + | CV( 0.750) |
| | + | RY(RS)(-0.525) + | RX(RS)( 0.157) | |
| 53 | 2 | PP( 0.600) + | CM( 0.600) + | WX( 0.600) |
| 54 | 2 | PP( 0.600) + | CM( 0.600) + | WY( 0.600) |
| 55 | 2 | PP( 0.600) + | CM( 0.600) + | WX(-0.600) |
| 56 | 2 | PP( 0.600) + | CM( 0.600) + | WY(-0.600) |
| 57 | 2 | PP( 0.600) + | CM( 0.600) + | RX(RS)( 0.700) |
| | + | RY(RS)( 0.210) | | |
| 58 | 2 | PP( 0.600) + | CM( 0.600) + | RX(RS)( 0.700) |
| | + | RY(RS)(-0.210) | | |
| 59 | 2 | PP( 0.600) + | CM( 0.600) + | RY(RS)( 0.700) |
| | + | RX(RS)( 0.210) | | |
| 60 | 2 | PP( 0.600) + | CM( 0.600) + | RY(RS)( 0.700) |
| | + | RX(RS)(-0.210) | | |
| 61 | 2 | PP( 0.600) + | CM( 0.600) + | RX(RS)(-0.700) |
| | + | RY(RS)(-0.210) | | |
| 62 | 2 | PP( 0.600) + | CM( 0.600) + | RX(RS)(-0.700) |
| | + | RY(RS)( 0.210) | | |
| 63 | 2 | PP( 0.600) + | CM( 0.600) + | RY(RS)(-0.700) |
| | + | RX(RS)(-0.210) | | |
| 64 | 2 | PP( 0.600) + | CM( 0.600) + | RY(RS)(-0.700) |
| | + | RX(RS)( 0.210) | | |

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
---------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                          Gen 2024
=============================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
=============================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
---------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
=============================================================================================================================================
=========
         1     3 HSS6X.500              460.086 460.086 1.00 1.00 1.00 1.00  271341 8222548  423488 -3005.4 17972.1 334764
7       -
  OK  0.20  0.04 A500-50   344.738    7 460.086 460.086      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
         2     3 HSS6X.500              460.086 460.086 1.00 1.00 1.00 1.00  307073 8944313 -421675 -3055.0 19540.8 333199
0       -
  OK  0.22  0.04 A500-50   344.738    8 460.086 460.086      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
         3     3 HSS6X.500              460.086 460.086 1.00 1.00 1.00 1.00  271341 8222548  452098 3005.41 17972.1 334764
7       -
  OK  0.20  0.04 A500-50   344.738    7 460.086 460.086      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
         4     3 HSS6X.500              341.970 341.970 1.00 1.00 1.00 1.00  274241 8222548  423488 -2972.6 -7566.2 334764
7       -
  OK  0.20  0.02 A500-50   344.738    7 341.970 341.970      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
         5     3 HSS6X.500              341.970 341.970 1.00 1.00 1.00 1.00  310219 8944313 -421675 -3021.1 -8158.5 333199
0       -
  OK  0.22  0.02 A500-50   344.738    8 341.970 341.970      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
         6     3 HSS6X.500              341.970 341.970 1.00 1.00 1.00 1.00  274241 8222548  452098 2972.56 -7566.2 334764
7       -
  OK  0.20  0.02 A500-50   344.738    7 341.970 341.970      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
         7     2 HSS10X.625             2964.55 719.558 1.00 1.00 1.00 1.00 -9413.6 +2.3E+8 +1.6E+7 20254.9  286011 +1.6E+
7       -
  OK  0.90  0.28 A500-50   344.738    7 2964.55 2964.55      1.00 1.00 1.00 3148848 +2.6E+8 +2.6E+8 1032877 1032877 +2.5E+
8       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
         8     7 HSS14X.625             2964.55 719.558 1.00 1.00 1.00 1.00  -47923 +3.7E+8 -4.1E+7  -51296  351935 +2.2E+
7       -
  OK  0.70  0.24 A500-50   344.738    8 2964.55 2964.55      1.00 1.00 1.00 4692380 +5.3E+8 +5.3E+8 1471250 1471250 +5.0E+
8       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
         9     2 HSS10X.625             2964.55 719.558 1.00 1.00 1.00 1.00 -9413.6 +2.3E+8 +1.5E+7  -20255  286011 +1.6E+
7       -
  OK  0.90  0.28 A500-50   344.738    7 2964.55 2964.55      1.00 1.00 1.00 3148848 +2.6E+8 +2.6E+8 1032877 1032877 +2.5E+
8       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
        10     3 HSS6X.500              341.970 341.970 1.00 1.00 1.00 1.00  201070 5660658  734664 -2922.5 -8262.2 334764
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
7       -
  OK  0.14  0.02 A500-50   344.738    7 341.970 341.970      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
-------------------------------------------------------------------------------------------------------------------------------
---------
        11     3 HSS6X.500              341.970 341.970 1.00 1.00 1.00 1.00  228794 6179845 -731550 -2969.2 -9015.0 333199
0       -
  OK  0.16  0.02 A500-50   344.738    8 341.970 341.970      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
-------------------------------------------------------------------------------------------------------------------------------
---------
        12     3 HSS6X.500              341.970 341.970 1.00 1.00 1.00 1.00  201070 5660658  784538 2922.51 -8262.2 334764
7       -
  OK  0.14  0.02 A500-50   344.738    7 341.970 341.970      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
-------------------------------------------------------------------------------------------------------------------------------
---------
        13     1 PIPE2STD               503.281 503.281 1.00 1.00 1.01 1.00  -25356 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.07  0.00 A500-50   344.738   11 503.281 503.281      1.00 1.01 1.00  195018 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
        14     1 PIPE2STD               503.281 503.281 1.00 1.00 1.01 1.00  -27531 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.07  0.00 A500-50   344.738   12 503.281 503.281      1.00 1.01 1.00  195018 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
==========================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
==========================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK   COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
==========================================================================================================================================
=========
        15     1 PIPE2STD               503.281 503.281 1.00 1.00 1.01 1.00  -25356 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.07  0.00 A500-50   344.738   11 503.281 503.281      1.00 1.01 1.00  195018 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        16     1 PIPE2STD               575.322 575.322 1.00 1.00 1.04 1.00  -67609 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.35  0.00 A500-50   344.738   11 575.322 575.322      1.00 1.04 1.00  192292 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        17     1 PIPE2STD               575.322 575.322 1.00 1.00 1.05 1.00  -75285 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.39  0.00 A500-50   344.738   12 575.322 575.322      1.00 1.05 1.00  192292 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        18     1 PIPE2STD               575.322 575.322 1.00 1.00 1.04 1.00  -67609 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.35  0.00 A500-50   344.738   11 575.322 575.322      1.00 1.04 1.00  192292 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        19     3 HSS6X.500              348.158 348.158 1.00 1.00 1.00 1.00  151579 1177859 4298839 -2867.6 -3834.4 334764
7       -
  OK  0.11  0.01 A500-50   344.738    9 348.158 348.158      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        20     3 HSS6X.500              348.158 348.158 1.00 1.00 1.00 1.00  169888 1239411 -4.5E+6 -2912.2 -4286.3 333199
0       -
  OK  0.12  0.01 A500-50   344.738   14 348.158 348.158      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        21     3 HSS6X.500              348.158 348.158 1.00 1.00 1.00 1.00  151579 1177859 4391627 2867.56 -3834.4 334764
7       -
  OK  0.11  0.01 A500-50   344.738    9 348.158 348.158      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        22     1 PIPE2STD               605.759 605.759 1.00 1.00 1.00 1.00 70565.3 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.35  0.00 A500-50   344.738    7 605.759 605.759      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        23     1 PIPE2STD               605.759 605.759 1.00 1.00 1.00 1.00 78454.5 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.38  0.00 A500-50   344.738    8 605.759 605.759      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        24     1 PIPE2STD               605.759 605.759 1.00 1.00 1.00 1.00 70565.3 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.35  0.00 A500-50   344.738    7 605.759 605.759      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
        25     3 HSS6X.500              348.158 348.158 1.00 1.00 1.00 1.00 95656.5 -148494 5243243 -2807.0 -5912.2 334764
7       -
  OK  0.10  0.01 A500-50   344.738    9 348.158 348.158      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
-------------------------------------------------------------------------------------------------------------------------------
---------
        26     3 HSS6X.500              348.158 348.158 1.00 1.00 1.00 1.00  109435 -379475 -5.4E+6 -2848.8 -6971.3 333199
0       -
  OK  0.11  0.01 A500-50   344.738   14 348.158 348.158      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
-------------------------------------------------------------------------------------------------------------------------------
---------
        27     3 HSS6X.500              348.158 348.158 1.00 1.00 1.00 1.00 95656.5 -148494 5357680 2806.97 -5912.2 334764
7       -
  OK  0.10  0.01 A500-50   344.738    9 348.158 348.158      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
-------------------------------------------------------------------------------------------------------------------------------
---------
        28     1 PIPE2STD               500.000 500.000 1.00 1.00 1.00 1.00 4601.67 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738    7 500.000 500.000      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ] Gen 2024

*.PROJECT :
*.UNIT SYSTEM : N, mm

[ AISC(15th)-LRFD16 ] CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.

| MEMB | SECT | Section | Len | Ly | Cb | Ky | B1y | B2y | Pr | Mry | Mrz | Vry | Vrz | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHK | COM | SHR Material | Fy | LCB | Lb | Lz | Kz | B1z | B2z | Pc | Mcy | Mcz | Vcy | Vcz | T |
| 29 | 1 | PIPE2STD | 500.000 | 500.000 | 1.00 | 1.00 | 1.00 | 1.00 | 4904.05 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 |
| OK | 0.01 | 0.00 A500-50 | 344.738 | 8 | 500.000 | 500.000 | 1.00 | 1.00 | 1.00 | 204173 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 |
| 30 | 1 | PIPE2STD | 500.000 | 500.000 | 1.00 | 1.00 | 1.00 | 1.00 | 4601.67 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 |
| OK | 0.01 | 0.00 A500-50 | 344.738 | 7 | 500.000 | 500.000 | 1.00 | 1.00 | 1.00 | 204173 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 |
| 31 | 1 | PIPE2STD | 609.273 | 609.273 | 1.00 | 1.00 | 1.05 | 1.00 | -72561 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 |
| OK | 0.38 | 0.00 A500-50 | 344.738 | 11 | 609.273 | 609.273 | 1.00 | 1.05 | 1.00 | 190896 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 |
| 32 | 1 | PIPE2STD | 609.273 | 609.273 | 1.00 | 1.00 | 1.06 | 1.00 | -80019 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 |
| OK | 0.42 | 0.00 A500-50 | 344.738 | 12 | 609.273 | 609.273 | 1.00 | 1.06 | 1.00 | 190896 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 |
| 33 | 1 | PIPE2STD | 609.273 | 609.273 | 1.00 | 1.00 | 1.05 | 1.00 | -72561 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 |
| OK | 0.38 | 0.00 A500-50 | 344.738 | 11 | 609.273 | 609.273 | 1.00 | 1.05 | 1.00 | 190896 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 |
| 34 | 3 | HSS6X.500 | 626.567 | 626.567 | 1.00 | 1.00 | 1.00 | 1.00 | -269340 | 242635 | -25593 | -129.18 | 3987.29 | 126419 |
| OK | 0.09 | 0.01 A500-50 | 344.738 | 11 | 626.567 | 626.567 | 1.00 | 1.00 | 1.00 | 1600729 | +7.3E+7 | +7.3E+7 | 485813 | 485813 | +6.8E+ |
| 35 | 3 | HSS6X.500 | 626.567 | 626.567 | 1.00 | 1.00 | 1.00 | 1.00 | -291907 | 702468 | 23123.0 | -123.01 | 4355.21 | 77279 |
| OK | 0.10 | 0.01 A500-50 | 344.738 | 12 | 626.567 | 626.567 | 1.00 | 1.00 | 1.00 | 1600729 | +7.3E+7 | +7.3E+7 | 485813 | 485813 | +6.8E+ |
| 36 | 3 | HSS6X.500 | 626.567 | 626.567 | 1.00 | 1.00 | 1.00 | 1.00 | -269340 | 242635 | -22909 | 129.180 | 3987.29 | 126419 |
| OK | 0.09 | 0.01 A500-50 | 344.738 | 11 | 626.567 | 626.567 | 1.00 | 1.00 | 1.00 | 1600729 | +7.3E+7 | +7.3E+7 | 485813 | 485813 | +6.8E+ |
| 37 | 3 | HSS6X.500 | 387.235 | 387.235 | 1.00 | 1.00 | 1.00 | 1.00 | 95953.3 | 799555 | 6553560 | -2766.5 | 3965.37 | 280380 |
| OK | 0.12 | 0.01 A500-50 | 344.738 | 9 | 387.235 | 387.235 | 1.00 | 1.00 | 1.00 | 1619376 | +7.3E+7 | +7.3E+7 | 485813 | 485813 | +6.8E+ |
| 38 | 3 | HSS6X.500 | 387.235 | 387.235 | 1.00 | 1.00 | 1.00 | 1.00 | 109693 | 1005539 | -6.8E+6 | -2805.6 | 5367.54 | 279406 |

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
9       -
  OK  0.13  0.01 A500-50   344.738   14 387.235 387.235      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
        39     3 HSS6X.500              387.235 387.235 1.00 1.00 1.00 1.00 95953.3  799556 6689692 2766.53 3965.37 280380
6       -
  OK  0.12  0.01 A500-50   344.738    9 387.235 387.235      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
        40     1 PIPE2STD               578.430 578.430 1.00 1.00 1.00 1.00 66696.1 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.33  0.00 A500-50   344.738    7 578.430 578.430      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
        41     1 PIPE2STD               578.430 578.430 1.00 1.00 1.00 1.00 73076.5 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.36  0.00 A500-50   344.738    8 578.430 578.430      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
        42     1 PIPE2STD               578.430 578.430 1.00 1.00 1.00 1.00 66696.1 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.33  0.00 A500-50   344.738    7 578.430 578.430      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
==========================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
==========================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK   COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
==========================================================================================================================================
=========
        43     1 PIPE2STD               503.276 503.276 1.00 1.00 1.01 1.00  -19016 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.05  0.00 A500-50   344.738   11 503.276 503.276      1.00 1.01 1.00  195018 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        44     1 PIPE2STD               503.276 503.276 1.00 1.00 1.01 1.00  -21175 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.05  0.00 A500-50   344.738   12 503.276 503.276      1.00 1.01 1.00  195018 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        45     1 PIPE2STD               503.276 503.276 1.00 1.00 1.01 1.00  -19016 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.05  0.00 A500-50   344.738   11 503.276 503.276      1.00 1.01 1.00  195018 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        46     3 HSS6X.500              638.986 638.986 1.00 1.00 1.00 1.00 -187922  264578  -38973 -152.98 410.248 126419
9       -
  OK  0.06  0.00 A500-50   344.738   11 638.986 638.986      1.00 1.00 1.00 1599987 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        47     3 HSS6X.500              638.986 638.986 1.00 1.00 1.00 1.00 -152126 2010317 0.00000 -152.10 -215.02  77279
1       -
  OK  0.08  0.00 A500-50   344.738    2 638.986 638.986      1.00 1.00 1.00 1599987 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        48     3 HSS6X.500              638.986 638.986 1.00 1.00 1.00 1.00 -187922  264578  -34926 152.982 410.248 126419
9       -
  OK  0.06  0.00 A500-50   344.738   11 638.986 638.986      1.00 1.00 1.00 1599987 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        49     1 PIPE2STD               599.030 599.030 1.00 1.00 1.06 1.00  -82335 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.43  0.00 A500-50   344.738   11 599.030 599.030      1.00 1.06 1.00  191325 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        50     1 PIPE2STD               599.030 599.030 1.00 1.00 1.06 1.00  -88267 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.46  0.00 A500-50   344.738   12 599.030 599.030      1.00 1.06 1.00  191325 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        51     1 PIPE2STD               599.030 599.030 1.00 1.00 1.06 1.00  -82335 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.43  0.00 A500-50   344.738   11 599.030 599.030      1.00 1.06 1.00  191325 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        52     3 HSS6X.500              387.235 387.235 1.00 1.00 1.00 1.00 44854.1 -948655 7519778 -2762.8 -9473.9 280380
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
6       -
  OK  0.12  0.02 A500-50   344.738    9 387.235 387.235      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
        53     3 HSS6X.500              387.235 387.235 1.00 1.00 1.00 1.00 56774.4 -1.8E+6 -7.8E+6 -2799.0  -11944 279406
9       -
  OK  0.13  0.02 A500-50   344.738   14 387.235 387.235      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
        54     3 HSS6X.500              387.235 387.235 1.00 1.00 1.00 1.00 44854.1 -948655 7679990 2762.85 -9473.9 280380
6       -
  OK  0.12  0.02 A500-50   344.738    9 387.235 387.235      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
        55     1 PIPE2STD               541.948 541.948 1.00 1.00 1.00 1.00 60254.0 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.30  0.00 A500-50   344.738    7 541.948 541.948      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
        56     1 PIPE2STD               541.948 541.948 1.00 1.00 1.00 1.00 61430.1 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.30  0.00 A500-50   344.738    8 541.948 541.948      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ] Gen 2024

*.PROJECT :
*.UNIT SYSTEM : N, mm

[ AISC(15th)-LRFD16 ] CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.

| MEMB | SECT | Section | Len | Ly | Cb | Ky | B1y | B2y | Pr | Mry | Mrz | Vry | Vrz | Tr | Def |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHK | COM | SHR | Material | Fy | LCB | Lb | Lz | Kz | B1z | B2z | Pc | Mcy | Mcz | Vcy | Vcz | Tc | Defa |
| 57 | 1 | PIPE2STD | | 541.948 | 541.948 | 1.00 | 1.00 | 1.00 | 1.00 | 60254.0 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | 0 | - |
| OK | 0.30 | 0.00 | A500-50 | 344.738 | 7 | 541.948 | 541.948 | 1.00 | 1.00 | 1.00 | 204173 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 | 0 | - |
| 58 | 3 | HSS6X.500 | | 538.969 | 538.969 | 1.00 | 1.00 | 1.00 | 1.00 | -62239 | 1705726 | -2992.2 | -270.33 | -3550.7 | 124482 | 3 | - |
| OK | 0.04 | 0.01 | A500-50 | 344.738 | 3 | 538.969 | 538.969 | 1.00 | 1.00 | 1.00 | 1605557 | +7.3E+7 | +7.3E+7 | 485813 | 485813 | +6.8E+ | 7 | - |
| 59 | 3 | HSS6X.500 | | 538.969 | 538.969 | 1.00 | 1.00 | 1.00 | 1.00 | -76100 | 1954145 | 0.00000 | -258.85 | -4570.4 | 73864 | 2 | - |
| OK | 0.05 | 0.01 | A500-50 | 344.738 | 2 | 538.969 | 538.969 | 1.00 | 1.00 | 1.00 | 1605557 | +7.3E+7 | +7.3E+7 | 485813 | 485813 | +6.8E+ | 7 | - |
| 60 | 3 | HSS6X.500 | | 538.969 | 538.969 | 1.00 | 1.00 | 1.00 | 1.00 | -62239 | 1705726 | 2992.21 | 270.330 | -3550.7 | 124482 | 3 | - |
| OK | 0.04 | 0.01 | A500-50 | 344.738 | 3 | 538.969 | 538.969 | 1.00 | 1.00 | 1.00 | 1605557 | +7.3E+7 | +7.3E+7 | 485813 | 485813 | +6.8E+ | 7 | - |
| 61 | 1 | PIPE2STD | | 530.797 | 530.797 | 1.00 | 1.00 | 1.01 | 1.00 | -21110 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | 0 | - |
| OK | 0.05 | 0.00 | A500-50 | 344.738 | 11 | 530.797 | 530.797 | 1.00 | 1.01 | 1.00 | 194015 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 | 0 | - |
| 62 | 1 | PIPE2STD | | 530.797 | 530.797 | 1.00 | 1.00 | 1.01 | 1.00 | -26246 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | 0 | - |
| OK | 0.07 | 0.00 | A500-50 | 344.738 | 12 | 530.797 | 530.797 | 1.00 | 1.01 | 1.00 | 194015 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 | 0 | - |
| 63 | 1 | PIPE2STD | | 530.797 | 530.797 | 1.00 | 1.00 | 1.01 | 1.00 | -21110 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | 0 | - |
| OK | 0.05 | 0.00 | A500-50 | 344.738 | 11 | 530.797 | 530.797 | 1.00 | 1.01 | 1.00 | 194015 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 | 0 | - |
| 64 | 3 | HSS6X.500 | | 387.235 | 387.235 | 1.00 | 1.00 | 1.00 | 1.00 | 44975.3 | 915066 | 7299936 | -2818.6 | 9701.08 | 485689 | 6 | - |
| OK | 0.12 | 0.02 | A500-50 | 344.738 | 9 | 387.235 | 387.235 | 1.00 | 1.00 | 1.00 | 1619376 | +7.3E+7 | +7.3E+7 | 485813 | 485813 | +6.8E+ | 7 | - |
| 65 | 3 | HSS6X.500 | | 387.235 | 387.235 | 1.00 | 1.00 | 1.00 | 1.00 | 56566.8 | 1472811 | -7.5E+6 | -2852.6 | 13360.1 | 496499 | 6 | - |
| OK | 0.12 | 0.03 | A500-50 | 344.738 | 14 | 387.235 | 387.235 | 1.00 | 1.00 | 1.00 | 1619376 | +7.3E+7 | +7.3E+7 | 485813 | 485813 | +6.8E+ | 7 | - |
| 66 | 3 | HSS6X.500 | | 387.235 | 387.235 | 1.00 | 1.00 | 1.00 | 1.00 | 44975.3 | 915066 | 7433338 | 2818.63 | 9701.08 | 485689 | | | |

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
6       -
  OK  0.12  0.02 A500-50   344.738    9 387.235 387.235      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
-------------------------------------------------------------------------------------------------------------------------------
---------
        67     1 PIPE2STD               541.948 541.948 1.00 1.00 1.04 1.00  -61206 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.32  0.00 A500-50   344.738   11 541.948 541.948      1.00 1.04 1.00  193595 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
        68     1 PIPE2STD               541.948 541.948 1.00 1.00 1.04 1.00  -62561 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.32  0.00 A500-50   344.738   12 541.948 541.948      1.00 1.04 1.00  193595 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
        69     1 PIPE2STD               541.948 541.948 1.00 1.00 1.04 1.00  -61206 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.32  0.00 A500-50   344.738   11 541.948 541.948      1.00 1.04 1.00  193595 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
        73     3 HSS6X.500              373.977 373.977 1.00 1.00 1.00 1.00 -2158.5 -4.5E+6 -315201 -429.68  -14114  85209
0       -
  OK  0.06  0.03 A500-50   344.738   11 373.977 373.977      1.00 1.00 1.00 1612708 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
-------------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
==========================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
==========================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK   COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
==========================================================================================================================================
=========
        74     3 HSS6X.500              373.977 373.977 1.00 1.00 1.00 1.00 -4877.6 -4.7E+6  251666 -402.06  -13208  41496
9       -
  OK  0.07  0.03 A500-50   344.738   12 373.977 373.977      1.00 1.00 1.00 1612708 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        75     3 HSS6X.500              373.977 373.977 1.00 1.00 1.00 1.00 -2158.5 -4.5E+6 -304399 429.676  -14114  85209
0       -
  OK  0.06  0.03 A500-50   344.738   11 373.977 373.977      1.00 1.00 1.00 1612708 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        76     1 PIPE2STD               526.495 526.495 1.00 1.00 1.00 1.00 40602.8 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.10  0.00 A500-50   344.738    7 526.495 526.495      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        77     1 PIPE2STD               526.495 526.495 1.00 1.00 1.00 1.00 33614.1 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.08  0.00 A500-50   344.738    8 526.495 526.495      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        78     1 PIPE2STD               526.495 526.495 1.00 1.00 1.00 1.00 40602.8 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.10  0.00 A500-50   344.738    7 526.495 526.495      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        79     3 HSS6X.500              387.235 387.235 1.00 1.00 1.00 1.00 10984.5 -1.6E+6 -8.3E+6 -2942.0 -8239.0 485689
6       -
  OK  0.12  0.02 A500-50   344.738   13 387.235 387.235      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        80     3 HSS6X.500              387.235 387.235 1.00 1.00 1.00 1.00 31585.6 -1.7E+6 -8.3E+6 -2974.2  -12481 496499
6       -
  OK  0.13  0.03 A500-50   344.738   14 387.235 387.235      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        81     3 HSS6X.500              387.235 387.235 1.00 1.00 1.00 1.00 18233.5 -835820 8295241 2941.96 -8239.0 485689
6       -
  OK  0.12  0.02 A500-50   344.738    9 387.235 387.235      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        82     2 HSS10X.625             4160.44 4160.44 1.00 1.00 1.01 1.00 -126014 -5.3E+7 -1.7E+8  -41145  -17908 +5.2E+
7       -
  OK  0.73  0.04 A500-50   344.738   13 4160.44 4160.44      1.00 1.01 1.00 2887738 +2.6E+8 +2.6E+8 1032877 1032877 +2.5E+
8       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        83     7 HSS14X.625             4160.44 4160.44 1.00 1.00 1.01 1.00 -188754 -1.1E+8 -4.9E+8 -117377  -38325 +6.8E+
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
7       -
  OK  0.96  0.08 A500-50   344.738   13 4160.44 4160.44      1.00 1.01 1.00 4495785 +5.3E+8 +5.3E+8 1471250 1471250 +5.0E+
8       -
---------------------------------------------------------------------------------------------------------------------------
---------
        84     2 HSS10X.625             4160.44 4160.44 1.00 1.00 1.01 1.00 -126014 -5.3E+7 -1.7E+8 41145.1  -17908 +5.2E+
7       -
  OK  0.73  0.04 A500-50   344.738   13 4160.44 4160.44      1.00 1.01 1.00 2887738 +2.6E+8 +2.6E+8 1032877 1032877 +2.5E+
8       -
---------------------------------------------------------------------------------------------------------------------------
---------
        85     1 PIPE2STD               547.199 547.199 1.00 1.00 1.00 1.00 -6943.8 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738   11 547.199 547.199      1.00 1.00 1.00  193395 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
        86     1 PIPE2STD               547.199 547.199 1.00 1.00 1.01 1.00  -14590 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.04  0.00 A500-50   344.738   12 547.199 547.199      1.00 1.01 1.00  193395 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
        87     1 PIPE2STD               547.199 547.199 1.00 1.00 1.00 1.00 -6943.8 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738   11 547.199 547.199      1.00 1.00 1.00  193395 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
==========================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
==========================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
==========================================================================================================================================
=========
        88     1 PIPE2STD               571.023 571.023 1.00 1.00 1.02 1.00  -26801 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.07  0.00 A500-50   344.738   11 571.023 571.023      1.00 1.02 1.00  192464 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        89     1 PIPE2STD               571.023 571.023 1.00 1.00 1.01 1.00  -18871 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.05  0.00 A500-50   344.738   12 571.023 571.023      1.00 1.01 1.00  192464 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        90     1 PIPE2STD               571.023 571.023 1.00 1.00 1.02 1.00  -26801 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.07  0.00 A500-50   344.738   11 571.023 571.023      1.00 1.02 1.00  192464 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        91     3 HSS6X.500              682.207 682.207 1.00 1.00 1.00 1.00 57340.0 4544318  388375 650.324 -3833.1  41282
6       -
  OK  0.08  0.01 A500-50   344.738    7 682.207 682.207      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        92     3 HSS6X.500              682.207 682.207 1.00 1.00 1.00 1.00 40536.1 4736468 -242895 -604.79 -4168.5  46946
3       -
  OK  0.08  0.01 A500-50   344.738    8 682.207 682.207      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        93     3 HSS6X.500              682.207 682.207 1.00 1.00 1.00 1.00 57340.0 4544318  383023 -650.32 -3833.1  41282
6       -
  OK  0.08  0.01 A500-50   344.738    7 682.207 682.207      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        94     3 HSS6X.500              498.124 498.124 1.00 1.00 1.00 1.00 19608.7 -303432 3858215 3129.52 -4968.8 907941
1       -
  OK  0.06  0.01 A500-50   344.738    9 498.124 498.124      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        95     3 HSS6X.500              498.124 498.124 1.00 1.00 1.00 1.00 33255.8 -787131 -3.8E+6 -3160.4 -8274.8 919718
4       -
  OK  0.06  0.02 A500-50   344.738   14 498.124 498.124      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        96     3 HSS6X.500              498.124 498.124 1.00 1.00 1.00 1.00 19608.7 -303432 3810425 -3129.5 -4968.8 907941
1       -
  OK  0.06  0.01 A500-50   344.738    9 498.124 498.124      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
        97     1 PIPE2STD               644.333 644.333 1.00 1.00 1.00 1.00 19581.2 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.05  0.00 A500-50   344.738    7 644.333 644.333      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------
---------
        98     1 PIPE2STD               644.333 644.333 1.00 1.00 1.00 1.00 -4745.5 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738   24 644.333 644.333      1.00 1.00 1.00  189383 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------
---------
        99     1 PIPE2STD               644.333 644.333 1.00 1.00 1.00 1.00 19581.2 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.05  0.00 A500-50   344.738    7 644.333 644.333      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------
---------
       100     3 HSS6X.500              549.417 549.417 1.00 1.00 1.00 1.00  -10579 -6.5E+6 -451380 930.131  -15662  79966
4       -
  OK  0.09  0.03 A500-50   344.738   11 549.417 549.417      1.00 1.00 1.00 1605019 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------
---------
       101     3 HSS6X.500              549.417 549.417 1.00 1.00 1.00 1.00  -10212 -1.3E+7  392803 -875.50  -26983  80671
9       -
  OK  0.18  0.06 A500-50   344.738   12 549.417 549.417      1.00 1.00 1.00 1605019 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
--------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
============================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
============================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
--------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
============================================================================================================================================
=========
       102     3 HSS6X.500              549.417 549.417 1.00 1.00 1.00 1.00  -10579 -6.5E+6 -457998 -930.13  -15662  79966
4       -
  OK  0.09  0.03 A500-50   344.738   11 549.417 549.417      1.00 1.00 1.00 1605019 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       103     3 HSS6X.500              498.124 498.124 1.00 1.00 1.00 1.00 6757.95  974169 4981263 3363.18 3180.21 907941
1       -
  OK  0.07  0.01 A500-50   344.738    9 498.124 498.124      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       104     3 HSS6X.500              498.124 498.124 1.00 1.00 1.00 1.00 26136.5  905665 -4.9E+6 -3392.1 4398.65 919718
4       -
  OK  0.08  0.01 A500-50   344.738   14 498.124 498.124      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       105     3 HSS6X.500              498.124 498.124 1.00 1.00 1.00 1.00 6757.95  974169 4902498 -3363.2 3180.21 907941
1       -
  OK  0.07  0.01 A500-50   344.738    9 498.124 498.124      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       106     1 PIPE2STD               508.343 508.343 1.00 1.00 1.00 1.00 -4640.9 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738   11 508.343 508.343      1.00 1.00 1.00  194837 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       107     1 PIPE2STD               508.343 508.343 1.00 1.00 1.01 1.00  -12991 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738    2 508.343 508.343      1.00 1.01 1.00  194837 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       108     1 PIPE2STD               508.343 508.343 1.00 1.00 1.00 1.00 -4640.9 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738   11 508.343 508.343      1.00 1.00 1.00  194837 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       109     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 6371.33  404084  722846 1018.09 622.102 71928.
3 -0.0263
  OK  0.06  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       110     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 6348.26  742684 1359038 897.237 533.510 71928.
3 -0.0709
  OK  0.11  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       111     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 10561.7  987370 1806507 640.142 434.193 71928.
```

```
3 -0.1065
  OK  0.14  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
-------------------------------------------------------------------------------------------------------------------------
---------
       112     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 10544.4 1143444 2117018 443.543 287.540 71928.
3 -0.1309
  OK  0.17  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
-------------------------------------------------------------------------------------------------------------------------
---------
       113     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 11560.3 1188822 2185302 111.251 194.582 71928.
3 -0.1432
  OK  0.17  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
-------------------------------------------------------------------------------------------------------------------------
---------
       114     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 11572.8 1188822 2185302 -132.55 -182.34 71928.
3 -0.1421
  OK  0.17  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
-------------------------------------------------------------------------------------------------------------------------
---------
       115     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 7972.37 1123429 2097422 -466.11 -317.30 71928.
3 -0.1286
  OK  0.16  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
-------------------------------------------------------------------------------------------------------------------------
---------
```

```
--------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                          Gen 2024
============================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
============================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
--------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
============================================================================================================================================
=========
       116     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 7988.67  963164 1776168 -641.30 -443.26 71928.
3 -0.1025
  OK  0.14  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       117     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -7570.7  667185 1275376 -878.13 -555.35 71928.
3 -0.0671
  OK  0.10  0.01 A500-50   344.738    8 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       118     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -14996 -224093 -713366 -1004.2 585.256 71928.
3 -0.0251
  OK  0.06  0.01 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       119     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -7587.8  322816  673830 1004.16 585.256 71928.
3 -0.0251
  OK  0.06  0.01 A500-50   344.738    8 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       120     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -7570.7  667185 1275376 878.126 555.350 71928.
3 -0.0671
  OK  0.10  0.01 A500-50   344.738    8 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       121     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 7988.67  963164 1776168 641.303 443.258 71928.
3 -0.1025
  OK  0.14  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       122     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 7972.37 1123429 2097422 466.113 317.302 71928.
3 -0.1286
  OK  0.16  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       123     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 11572.8 1188822 2185302 132.553 182.340 71928.
3 -0.1421
  OK  0.17  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       124     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 11560.3 1188822 2185302 -111.25 -194.58 71928.
3 -0.1432
  OK  0.17  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       125     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 10544.4 1143444 2117018 -443.54 -287.54 71928.
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
3 -0.1309
  OK  0.17  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       126     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 10561.7  987370 1806507 -640.14 -434.19 71928.
3 -0.1065
  OK  0.14  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       127     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 6348.26  742684 1359038 -897.24 -533.51 71928.
3 -0.0709
  OK  0.11  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       128     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 6371.33  404084  722846 -1018.1 -622.10 71928.
3 -0.0263
  OK  0.06  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       131     1 PIPE2STD               782.478 782.478 1.00 1.00 1.00 1.00 9105.43 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    7 782.478 782.478      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
--------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
============================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
============================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
--------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
============================================================================================================================================
=========
       132     1 PIPE2STD               782.478 782.478 1.00 1.00 1.00 1.00 10865.6 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738    8 782.478 782.478      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       133     1 PIPE2STD               782.478 782.478 1.00 1.00 1.00 1.00 9105.43 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    7 782.478 782.478      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       134     3 HSS6X.500              614.712 614.712 1.00 1.00 1.00 1.00 60548.5  277270 +2.0E+7 11933.2  -17522 +1.0E+
7       -
  OK  0.29  0.04 A500-50   344.738    9 614.712 614.712      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       135     3 HSS6X.500              614.712 614.712 1.00 1.00 1.00 1.00 61534.6 +1.1E+7 -2.3E+7  -10064  -21855 +1.8E+
7       -
  OK  0.38  0.04 A500-50   344.738   14 614.712 614.712      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       136     3 HSS6X.500              614.712 614.712 1.00 1.00 1.00 1.00 60548.5  277270 +2.0E+7  -11933  -17522 +1.0E+
7       -
  OK  0.29  0.04 A500-50   344.738    9 614.712 614.712      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       137     1 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 6202.58 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    7 502.746 502.746      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       138     4 PIPE2STD               869.973 869.973 1.00 1.00 1.01 1.00 -8378.7 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738   13 869.973 869.973      1.00 1.01 1.00  178017 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       139     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 166.608 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 502.746 502.746      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       140     4 PIPE2STD               869.973 869.973 1.00 1.00 1.00 1.00 7146.85 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    9 869.973 869.973      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       141     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 -841.44 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.00  0.00 A500-50   344.738   11 502.746 502.746      1.00 1.00 1.00  195037 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       142     4 PIPE2STD               869.973 869.973 1.00 1.00 1.01 1.00 -5196.5 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738   13 869.973 869.973      1.00 1.01 1.00  178017 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       143     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 313.864 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 502.746 502.746      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       144     4 PIPE2STD               869.973 869.973 1.00 1.00 1.00 1.00 4480.06 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738    9 869.973 869.973      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       145     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 -932.74 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   11 502.746 502.746      1.00 1.00 1.00  195037 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
==========================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
==========================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK   COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
==========================================================================================================================================
=========
       146     4 PIPE2STD               869.973 869.973 1.00 1.00 1.00 1.00 4192.26 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738    9 869.973 869.973      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       147     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 325.928 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 502.746 502.746      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       148     4 PIPE2STD               869.973 869.973 1.00 1.00 1.01 1.00 -6272.6 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738   13 869.973 869.973      1.00 1.01 1.00  178017 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       149     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 -936.07 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   11 502.746 502.746      1.00 1.00 1.00  195037 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       150     4 PIPE2STD               869.973 869.973 1.00 1.00 1.00 1.00 6977.53 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    9 869.973 869.973      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       151     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 329.706 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 502.746 502.746      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       152     4 PIPE2STD               869.973 869.973 1.00 1.00 1.01 1.00 -9112.7 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738   13 869.973 869.973      1.00 1.01 1.00  178017 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       153     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 -825.64 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   13 502.746 502.746      1.00 1.00 1.00  195037 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       154     4 PIPE2STD               869.973 869.973 1.00 1.00 1.00 1.00 9609.82 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    9 869.973 869.973      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       155     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 483.728 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.00  0.00 A500-50   344.738    9 502.746 502.746      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       156     4 PIPE2STD               869.973 869.973 1.00 1.00 1.02 1.00  -12362 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738   13 869.973 869.973      1.00 1.02 1.00  178017 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       157     1 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 -5758.3 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738   12 502.746 502.746      1.00 1.00 1.00  195037 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       158     4 PIPE2STD               869.973 869.973 1.00 1.00 1.02 1.00  -12362 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738   13 869.973 869.973      1.00 1.02 1.00  178017 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       159     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 483.728 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 502.746 502.746      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
==========================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
==========================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK   COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
==========================================================================================================================================
=========
       160     4 PIPE2STD               869.973 869.973 1.00 1.00 1.00 1.00 9609.82 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    9 869.973 869.973      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       161     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 -825.64 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   13 502.746 502.746      1.00 1.00 1.00  195037 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       162     4 PIPE2STD               869.973 869.973 1.00 1.00 1.01 1.00 -9112.7 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738   13 869.973 869.973      1.00 1.01 1.00  178017 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       163     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 329.706 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 502.746 502.746      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       164     4 PIPE2STD               869.973 869.973 1.00 1.00 1.00 1.00 6977.53 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    9 869.973 869.973      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       165     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 -936.07 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   11 502.746 502.746      1.00 1.00 1.00  195037 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       166     4 PIPE2STD               869.973 869.973 1.00 1.00 1.01 1.00 -6272.6 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738   13 869.973 869.973      1.00 1.01 1.00  178017 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       167     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 325.928 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 502.746 502.746      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       168     4 PIPE2STD               869.973 869.973 1.00 1.00 1.00 1.00 4192.26 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738    9 869.973 869.973      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       169     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 -932.74 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.00  0.00 A500-50   344.738   11 502.746 502.746      1.00 1.00 1.00  195037 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       170     4 PIPE2STD               869.973 869.973 1.00 1.00 1.00 1.00 4480.06 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738    9 869.973 869.973      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       171     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 313.864 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 502.746 502.746      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       172     4 PIPE2STD               869.973 869.973 1.00 1.00 1.01 1.00 -5196.5 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738   13 869.973 869.973      1.00 1.01 1.00  178017 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       173     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 -841.44 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   11 502.746 502.746      1.00 1.00 1.00  195037 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
--------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
============================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
============================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
--------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
============================================================================================================================================
=========
       174     4 PIPE2STD               869.973 869.973 1.00 1.00 1.00 1.00 7146.85 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    9 869.973 869.973      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       175     4 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 166.608 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 502.746 502.746      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       176     4 PIPE2STD               869.973 869.973 1.00 1.00 1.01 1.00 -8378.7 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738   13 869.973 869.973      1.00 1.01 1.00  178017 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       177     1 PIPE2STD               502.746 502.746 1.00 1.00 1.00 1.00 6202.58 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    7 502.746 502.746      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       178     3 HSS6X.500              693.608 693.608 1.00 1.00 1.00 1.00 9971.17 1292640 5792404 6186.22 644.195 +1.0E+
7       -
  OK  0.08  0.01 A500-50   344.738    9 693.608 693.608      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       179     3 HSS6X.500              693.608 693.608 1.00 1.00 1.00 1.00 30968.3  770669 -6.5E+6 -6909.4 -857.10 +1.0E+
7       -
  OK  0.10  0.01 A500-50   344.738   14 693.608 693.608      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       180     3 HSS6X.500              693.608 693.608 1.00 1.00 1.00 1.00 4326.52  877224 -5.8E+6 -6186.2 644.195 +1.0E+
7       -
  OK  0.08  0.01 A500-50   344.738   13 693.608 693.608      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       181     1 PIPE2STD               833.748 833.748 1.00 1.00 1.03 1.00  -22442 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.06  0.00 A500-50   344.738   11 833.748 833.748      1.00 1.03 1.00  180018 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       182     1 PIPE2STD               833.748 833.748 1.00 1.00 1.04 1.00  -28266 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.08  0.00 A500-50   344.738   12 833.748 833.748      1.00 1.04 1.00  180018 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       183     1 PIPE2STD               833.748 833.748 1.00 1.00 1.03 1.00  -22442 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.06  0.00 A500-50   344.738   11 833.748 833.748      1.00 1.03 1.00  180018 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       184     3 HSS6X.500              614.712 614.712 1.00 1.00 1.00 1.00  -25779  256423 -2.6E+7 11885.9 2466.06 +1.0E+
7       -
  OK  0.36  0.02 A500-50   344.738   13 614.712 614.712      1.00 1.00 1.00 1601424 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       185     3 HSS6X.500              614.712 614.712 1.00 1.00 1.00 1.00  -23921  936852 -2.9E+7  -10015 3021.33 +1.8E+
7       -
  OK  0.41  0.02 A500-50   344.738   13 614.712 614.712      1.00 1.00 1.00 1601424 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       186     3 HSS6X.500              614.712 614.712 1.00 1.00 1.00 1.00  -25779  256423 -2.6E+7  -11886 2466.06 +1.0E+
7       -
  OK  0.36  0.02 A500-50   344.738   13 614.712 614.712      1.00 1.00 1.00 1601424 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       187     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -4743.3 -222520 -2.2E+6 3154.73 -1968.9 75419.
8 -0.0710
  OK  0.15  0.02 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
-------------------------------------------------------------------------------------------------------------------------------
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```

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--------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
============================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
============================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
--------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
============================================================================================================================================
=========
       188     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -10130 -491323 -4.2E+6 2691.84 -1719.0 75419.
8 -0.1840
  OK  0.28  0.02 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       189     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -10184 -732917 -5.6E+6 2100.76 -1435.1 75419.
8 -0.2768
  OK  0.38  0.01 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       190     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -11217 -888064 -6.5E+6 1295.82 -1016.8 75419.
8 -0.3441
  OK  0.44  0.01 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       191     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -11269 -973838 -6.9E+6 502.315 -591.07 75419.
8 -0.3796
  OK  0.46  0.00 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       192     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -6717.5 -974651 -6.9E+6 -480.29 587.988 75419.
8 -0.3795
  OK  0.46  0.00 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       193     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -6726.2 -905827 -6.6E+6 -1285.0 1034.05 75419.
8 -0.3444
  OK  0.44  0.01 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       194     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -1707.7 -777268 -5.7E+6 -2094.8 1430.17 75419.
8 -0.2766
  OK  0.37  0.01 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       195     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -1646.1 -528387 -4.2E+6 -2675.3 1802.22 75419.
8 -0.1806
  OK  0.27  0.02 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       196     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 10131.1 -269388 -2.2E+6 -3221.5 1925.21 75419.
7 -0.0679
  OK  0.16  0.02 A500-50   344.738   12 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       197     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 10131.1 -269388 -2.2E+6 3221.49 -1925.2 75419.
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
8 -0.0679
  OK  0.16  0.02 A500-50   344.738   12 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       198     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -1646.1 -528387 -4.2E+6 2675.27 -1802.2 75419.
8 -0.1806
  OK  0.27  0.02 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       199     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -1707.7 -777268 -5.7E+6 2094.82 -1430.2 75419.
8 -0.2766
  OK  0.37  0.01 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       200     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -6726.2 -905827 -6.6E+6 1285.04 -1034.1 75419.
8 -0.3444
  OK  0.44  0.01 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       201     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -6717.5 -974651 -6.9E+6 480.286 -587.99 75419.
8 -0.3795
  OK  0.46  0.00 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ] Gen 2024

*.PROJECT :
*.UNIT SYSTEM : N, mm

[ AISC(15th)-LRFD16 ] CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.

| MEMB | SECT | Section | Len | Ly | Cb | Ky | B1y | B2y | Pr | Mry | Mrz | Vry | Vrz | Tr | Def |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHK | COM | SHR | Material | Fy | LCB | Lb | Lz | Kz | B1z | B2z | Pc | Mcy | Mcz | Vcy | Vcz | Tc | Defa |
| 202 | 6 | PIPE3-1/2STD | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 1.00 | -11269 | -973838 | -6.9E+6 | -502.31 | 591.066 | 75419.8 | -0.3796 |
| OK | 0.46 | 0.00 | A500-50 | 344.738 | 11 | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 484754 | +1.5E+7 | +1.5E+7 | 150128 | 150128 | +1.4E+7 | 1.97222 |
| 203 | 6 | PIPE3-1/2STD | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 1.00 | -11217 | -888064 | -6.5E+6 | -1295.8 | 1016.79 | 75419.8 | -0.3441 |
| OK | 0.44 | 0.01 | A500-50 | 344.738 | 11 | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 484754 | +1.5E+7 | +1.5E+7 | 150128 | 150128 | +1.4E+7 | 1.97222 |
| 204 | 6 | PIPE3-1/2STD | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 1.00 | -10184 | -732917 | -5.6E+6 | -2100.8 | 1435.13 | 75419.8 | -0.2768 |
| OK | 0.38 | 0.01 | A500-50 | 344.738 | 11 | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 484754 | +1.5E+7 | +1.5E+7 | 150128 | 150128 | +1.4E+7 | 1.97222 |
| 205 | 6 | PIPE3-1/2STD | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 1.00 | -10130 | -491323 | -4.2E+6 | -2691.8 | 1718.99 | 75419.8 | -0.1840 |
| OK | 0.28 | 0.02 | A500-50 | 344.738 | 11 | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 484754 | +1.5E+7 | +1.5E+7 | 150128 | 150128 | +1.4E+7 | 1.97222 |
| 206 | 6 | PIPE3-1/2STD | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 1.00 | -4743.3 | -222520 | -2.2E+6 | -3154.7 | 1968.90 | 75419.7 | -0.0710 |
| OK | 0.15 | 0.02 | A500-50 | 344.738 | 11 | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 484754 | +1.5E+7 | +1.5E+7 | 150128 | 150128 | +1.4E+7 | 1.97222 |
| 207 | 1 | PIPE2STD | 500.104 | 500.104 | 1.00 | 1.00 | 1.00 | 1.00 | -2683.2 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | - |
| OK | 0.01 | 0.00 | A500-50 | 344.738 | 11 | 500.104 | 500.104 | 1.00 | 1.00 | 1.00 | 195130 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 | - |
| 208 | 1 | PIPE2STD | 500.104 | 500.104 | 1.00 | 1.00 | 1.00 | 1.00 | -4046.1 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | - |
| OK | 0.01 | 0.00 | A500-50 | 344.738 | 12 | 500.104 | 500.104 | 1.00 | 1.00 | 1.00 | 195130 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 | - |
| 209 | 1 | PIPE2STD | 500.104 | 500.104 | 1.00 | 1.00 | 1.00 | 1.00 | -2683.2 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | - |
| OK | 0.01 | 0.00 | A500-50 | 344.738 | 11 | 500.104 | 500.104 | 1.00 | 1.00 | 1.00 | 195130 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 | - |
| 210 | 3 | HSS6X.500 | 600.902 | 600.902 | 1.00 | 1.00 | 1.00 | 1.00 | -25670 | -303206 | -3.0E+7 | 11831.9 | -3402.6 | +1.4E+7 | - |
| OK | 0.42 | 0.02 | A500-50 | 344.738 | 13 | 600.902 | 600.902 | 1.00 | 1.00 | 1.00 | 1602217 | +7.3E+7 | +7.3E+7 | 485813 | 485813 | +6.8E+7 | - |
| 211 | 3 | HSS6X.500 | 600.902 | 600.902 | 1.00 | 1.00 | 1.00 | 1.00 | -23873 | -309667 | -3.1E+7 | -9953.1 | -4466.3 | +2.2E+ | |

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
7       -
  OK  0.44  0.02 A500-50   344.738   13 600.902 600.902      1.00 1.00 1.00 1602217 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
       212     3 HSS6X.500              600.902 600.902 1.00 1.00 1.00 1.00  -25670 -303206 -3.0E+7  -11832 -3402.6 +1.4E+
7       -
  OK  0.42  0.02 A500-50   344.738   13 600.902 600.902      1.00 1.00 1.00 1602217 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
       213     3 HSS6X.500              656.989 656.989 1.00 1.00 1.00 1.00 31385.9 1709394 8292362  -13675 1464.85 +1.0E+
7       -
  OK  0.13  0.03 A500-50   344.738    9 656.989 656.989      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
       214     3 HSS6X.500              656.989 656.989 1.00 1.00 1.00 1.00 54777.6 2094881 -8.3E+6  -15019 3343.36 +1.1E+
7       -
  OK  0.13  0.03 A500-50   344.738   14 656.989 656.989      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
       215     3 HSS6X.500              656.989 656.989 1.00 1.00 1.00 1.00 31385.9 1709394 8289626 13674.9 1464.85 +1.0E+
7       -
  OK  0.13  0.03 A500-50   344.738    9 656.989 656.989      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

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------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
==========================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
==========================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
==========================================================================================================================================
=========
       216     1 PIPE2STD               817.521 817.521 1.00 1.00 1.00 1.00 47513.5 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.23  0.00 A500-50   344.738    2 817.521 817.521      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       217     1 PIPE2STD               817.521 817.521 1.00 1.00 1.00 1.00 65235.6 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.32  0.00 A500-50   344.738    2 817.521 817.521      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       218     1 PIPE2STD               817.521 817.521 1.00 1.00 1.00 1.00 47513.5 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.23  0.00 A500-50   344.738    2 817.521 817.521      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       219     3 HSS6X.500              600.902 600.902 1.00 1.00 1.00 1.00 -107170 -1.4E+6 -3.7E+7 11756.9 -2264.3 +1.4E+
7       -
  OK  0.54  0.02 A500-50   344.738   13 600.902 600.902      1.00 1.00 1.00 1602217 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       220     3 HSS6X.500              600.902 600.902 1.00 1.00 1.00 1.00 -146434 -1.7E+6 -3.5E+7 -9856.6 -2985.2 +2.2E+
7       -
  OK  0.58  0.02 A500-50   344.738   13 600.902 600.902      1.00 1.00 1.00 1602217 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       221     3 HSS6X.500              600.902 600.902 1.00 1.00 1.00 1.00 -107170 -1.4E+6 -3.7E+7  -11757 -2264.3 +1.4E+
7       -
  OK  0.54  0.02 A500-50   344.738   13 600.902 600.902      1.00 1.00 1.00 1602217 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       224     1 PIPE2STD               501.028 501.028 1.00 1.00 1.00 1.00 -5596.0 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738   11 501.028 501.028      1.00 1.00 1.00  195098 3625119 3625119 0.00000 0.00000 0.0000
0       -
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---------
       225     1 PIPE2STD               501.028 501.028 1.00 1.00 1.00 1.00 -7571.9 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738   12 501.028 501.028      1.00 1.00 1.00  195098 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       226     1 PIPE2STD               501.028 501.028 1.00 1.00 1.00 1.00 -5596.0 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738   11 501.028 501.028      1.00 1.00 1.00  195098 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       227     1 PIPE2STD               806.639 806.639 1.00 1.00 1.08 1.00  -60814 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.34  0.00 A500-50   344.738    2 806.639 806.639      1.00 1.08 1.00  181474 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------
---------
       228     1 PIPE2STD               806.639 806.639 1.00 1.00 1.12 1.00  -89055 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.49  0.00 A500-50   344.738    2 806.639 806.639      1.00 1.12 1.00  181474 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------
---------
       229     1 PIPE2STD               806.639 806.639 1.00 1.00 1.08 1.00  -60814 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.34  0.00 A500-50   344.738    2 806.639 806.639      1.00 1.08 1.00  181474 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------
---------
       230     3 HSS6X.500              577.410 577.410 1.00 1.00 1.00 1.00 -107141 -1.5E+6 -4.2E+7 11689.9 -1423.3 +1.7E+
7       -
  OK  0.64  0.02 A500-50   344.738   13 577.410 577.410      1.00 1.00 1.00 1603526 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------
---------
       231     3 HSS6X.500              577.410 577.410 1.00 1.00 1.00 1.00 -146486 -2.2E+6 -3.8E+7 -9758.3 -2164.5 +2.5E+
7       -
  OK  0.62  0.02 A500-50   344.738   13 577.410 577.410      1.00 1.00 1.00 1603526 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
==========================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
==========================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
==========================================================================================================================================
=========
       232     3 HSS6X.500              577.410 577.410 1.00 1.00 1.00 1.00 -107141 -1.5E+6 -4.2E+7  -11690 -1423.3 +1.7E+
7       -
  OK  0.64  0.02 A500-50   344.738   13 577.410 577.410      1.00 1.00 1.00 1603526 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       233     3 HSS6X.500              656.989 656.989 1.00 1.00 1.00 1.00 33222.2  818490 +1.6E+7 13188.7 -1781.9 +1.0E+
7       -
  OK  0.24  0.03 A500-50   344.738    9 656.989 656.989      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       234     3 HSS6X.500              656.989 656.989 1.00 1.00 1.00 1.00 57705.3 1175510 -1.6E+7  -12755 -1761.2 +1.0E+
7       -
  OK  0.24  0.03 A500-50   344.738   14 656.989 656.989      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       235     3 HSS6X.500              656.989 656.989 1.00 1.00 1.00 1.00 33222.2  818490 +1.6E+7  -13189 -1781.9 +1.0E+
7       -
  OK  0.24  0.03 A500-50   344.738    9 656.989 656.989      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       236     1 PIPE2STD               500.023 500.023 1.00 1.00 1.00 1.00 -5766.6 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738    2 500.023 500.023      1.00 1.00 1.00  195133 3625119 3625119 0.00000 0.00000 0.0000
0       -
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---------
       237     1 PIPE2STD               500.023 500.023 1.00 1.00 1.01 1.00  -10435 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738    2 500.023 500.023      1.00 1.01 1.00  195133 3625119 3625119 0.00000 0.00000 0.0000
0       -
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---------
       238     1 PIPE2STD               500.023 500.023 1.00 1.00 1.00 1.00 -5766.6 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738    2 500.023 500.023      1.00 1.00 1.00  195133 3625119 3625119 0.00000 0.00000 0.0000
0       -
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---------
       239     8 HSS6X.500E             577.410 577.410 1.00 1.00 1.00 1.00 -183744 -1.5E+7 -4.8E+7 11609.5  -25289 +1.7E+
7       -
  OK  0.50  0.03 A500-50   344.738   13 577.410 577.410      1.00 1.00 1.00 2553146 +1.1E+8 +1.1E+8  774321  774321 +1.0E+
8       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       240     8 HSS6X.500E             577.410 577.410 1.00 1.00 1.00 1.00 -263866 -2.2E+7 -4.3E+7 -9616.2  -40508 +2.5E+
7       -
  OK  0.55  0.05 A500-50   344.738   13 577.410 577.410      1.00 1.00 1.00 2553146 +1.1E+8 +1.1E+8  774321  774321 +1.0E+
8       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       241     8 HSS6X.500E             577.410 577.410 1.00 1.00 1.00 1.00 -183744 -1.5E+7 -4.8E+7  -11610  -25289 +1.7E+
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
7       -
  OK  0.50  0.03 A500-50   344.738   13 577.410 577.410      1.00 1.00 1.00 2553146 +1.1E+8 +1.1E+8  774321  774321 +1.0E+
8       -
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---------
       242     1 PIPE2STD               799.155 799.155 1.00 1.00 1.00 1.00 73394.0 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.36  0.00 A500-50   344.738    7 799.155 799.155      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------
---------
       243     1 PIPE2STD               799.155 799.155 1.00 1.00 1.00 1.00  106353 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.52  0.00 A500-50   344.738    2 799.155 799.155      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------
---------
       244     1 PIPE2STD               799.155 799.155 1.00 1.00 1.00 1.00 73394.0 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.36  0.00 A500-50   344.738    7 799.155 799.155      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------
---------
       245     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 8736.49  225323 1160517 1790.27 -370.33 73367.
3 -0.0143
  OK  0.09  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
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------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
==========================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
==========================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK   COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
==========================================================================================================================================
=========
       246     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -2996.1 -313474 -2.4E+6 1618.00 306.699 73367.
3 -0.0357
  OK  0.16  0.01 A500-50   344.738   23 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
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---------
       247     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -3737.5 -407375 -3.2E+6 1191.20 -388.31 73367.
3 -0.0521
  OK  0.22  0.01 A500-50   344.738   23 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
------------------------------------------------------------------------------------------------------------------------------------------
---------
       248     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -3726.1 -477910 -3.8E+6 823.823 273.611 73367.
3 -0.0636
  OK  0.25  0.01 A500-50   344.738   23 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
------------------------------------------------------------------------------------------------------------------------------------------
---------
       249     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -10469 -524617 -4.0E+6 209.175 332.532 73367.
3 -0.0702
  OK  0.27  0.00 A500-50   344.738   23 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
------------------------------------------------------------------------------------------------------------------------------------------
---------
       251     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -10483 -524617 -4.0E+6 -240.73 278.579 73367.
3 -0.0693
  OK  0.27  0.00 A500-50   344.738   23 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
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---------
       252     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -20492 -469059 -3.8E+6 -849.33 360.429 73367.
3 -0.0638
  OK  0.27  0.01 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
------------------------------------------------------------------------------------------------------------------------------------------
---------
       253     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -20512 -459114 -3.2E+6 -1198.4 363.488 73367.
3 -0.0508
  OK  0.23  0.01 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
------------------------------------------------------------------------------------------------------------------------------------------
---------
       254     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.01 1.00  -37663 -355796 -2.4E+6 -1598.9 397.375 73367.
3 0.03758
  OK  0.19  0.01 A500-50   344.738   11 710.000 710.000      1.00 1.01 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
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---------
       255     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.01 1.00  -37685 -309425 -1.2E+6 -1744.8 -491.53 73367.
3 0.01752
  OK  0.12  0.01 A500-50   344.738   11 710.000 710.000      1.00 1.01 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
------------------------------------------------------------------------------------------------------------------------------------------
---------
       256     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.01 1.00  -37685 -309425 -1.2E+6 1744.81 491.531 73367.
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
3 0.01752
  OK  0.12  0.01 A500-50   344.738   11 710.000 710.000      1.00 1.01 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
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---------
       257     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.01 1.00  -37663 -355796 -2.4E+6 1598.91 -397.37 73367.
3 0.03758
  OK  0.19  0.01 A500-50   344.738   11 710.000 710.000      1.00 1.01 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       258     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -20512 -459114 -3.2E+6 1198.37 -363.49 73367.
3 -0.0508
  OK  0.23  0.01 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       259     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -20492 -469059 -3.8E+6 849.329 -360.43 73367.
3 -0.0638
  OK  0.27  0.01 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       260     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -10483 -524617 -4.0E+6 240.727 -278.58 73367.
3 -0.0693
  OK  0.27  0.00 A500-50   344.738   23 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
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```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

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------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
==========================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
==========================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK   COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
==========================================================================================================================================
=========
       262     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -10469 -524617 -4.0E+6 -209.18 -332.53 73367.
3 -0.0702
  OK  0.27  0.00 A500-50   344.738   23 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
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---------
       263     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -3726.1 -477910 -3.8E+6 -823.82 -273.61 73367.
3 -0.0636
  OK  0.25  0.01 A500-50   344.738   23 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
------------------------------------------------------------------------------------------------------------------------------------------
---------
       264     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -3737.5 -407375 -3.2E+6 -1191.2 388.307 73367.
3 -0.0521
  OK  0.22  0.01 A500-50   344.738   23 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
------------------------------------------------------------------------------------------------------------------------------------------
---------
       265     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -2996.1 -313474 -2.4E+6 -1618.0 -306.70 73367.
3 -0.0357
  OK  0.16  0.01 A500-50   344.738   23 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
------------------------------------------------------------------------------------------------------------------------------------------
---------
       266     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 8736.49  225323 1160517 -1790.3 370.325 73367.
3 -0.0143
  OK  0.09  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
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---------
       267     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 11167.4  605152  350797 -494.08 -905.30  11729
8 -0.0419
  OK  0.06  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
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---------
       268     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 11084.3 1098372  630258 -416.40 -756.97  11729
8 -0.1132
  OK  0.09  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
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---------
       269     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 21024.4 1441622  813112 -262.02 -538.76  11729
8 -0.1681
  OK  0.13  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
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---------
       270     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 20941.7 1666452  938856 -191.44 -375.28  11729
8 -0.2053
  OK  0.15  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
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---------
       271     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 26511.7 1729027  958155 -35.527 -149.18  11729
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8 -0.2240
  OK  0.15  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
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---------
       272     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 26431.3 1729027  958155 60.7158 134.841  11729
8 -0.2243
  OK  0.15  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
-------------------------------------------------------------------------------------------------------------------------
---------
       273     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 28002.0 1672664  921499 203.944 362.245  11729
8 -0.2060
  OK  0.15  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
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---------
       274     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 28078.8 1453558  776840 277.027 524.922  11729
8 -0.1695
  OK  0.14  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
-------------------------------------------------------------------------------------------------------------------------
---------
       275     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 31886.2 1118653  581629 442.700 731.081  11729
8 -0.1155
  OK  0.11  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
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midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ] Gen 2024

*.PROJECT :
*.UNIT SYSTEM : N, mm

[ AISC(15th)-LRFD16 ] CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.

| MEMB | SECT | Section | Len | Ly | Cb | Ky | B1y | B2y | Pr | Mry | Mrz | Vry | Vrz | Tr | Def |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHK | COM | SHR | Material | Fy | LCB | Lb | Lz | Kz | B1z | B2z | Pc | Mcy | Mcz | Vcy | Vcz | Tc | Defa |
| 276 | 6 | PIPE3-1/2STD | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 1.00 | 31970.2 | 638927 | 273399 | 385.068 | 952.866 | 11729 | |
| 8 -0.0434 | | | | | | | | | | | | | | | |
| OK | 0.08 | 0.01 | A500-50 | 344.738 | 7 | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 500425 | +1.5E+7 | +1.5E+7 | 150128 | 150128 | +1.4E+ | |
| 7 1.97222 | | | | | | | | | | | | | | | |
| 277 | 6 | PIPE3-1/2STD | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 1.00 | 31970.2 | 638927 | 273399 | -385.07 | -952.87 | 11729 | |
| 8 -0.0434 | | | | | | | | | | | | | | | |
| OK | 0.08 | 0.01 | A500-50 | 344.738 | 7 | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 500425 | +1.5E+7 | +1.5E+7 | 150128 | 150128 | +1.4E+ | |
| 7 1.97222 | | | | | | | | | | | | | | | |
| 278 | 6 | PIPE3-1/2STD | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 1.00 | 31886.2 | 1118653 | 581629 | -442.70 | -731.08 | 11729 | |
| 8 -0.1155 | | | | | | | | | | | | | | | |
| OK | 0.11 | 0.00 | A500-50 | 344.738 | 7 | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 500425 | +1.5E+7 | +1.5E+7 | 150128 | 150128 | +1.4E+ | |
| 7 1.97222 | | | | | | | | | | | | | | | |
| 279 | 6 | PIPE3-1/2STD | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 1.00 | 28078.8 | 1453558 | 776840 | -277.03 | -524.92 | 11729 | |
| 8 -0.1695 | | | | | | | | | | | | | | | |
| OK | 0.14 | 0.00 | A500-50 | 344.738 | 7 | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 500425 | +1.5E+7 | +1.5E+7 | 150128 | 150128 | +1.4E+ | |
| 7 1.97222 | | | | | | | | | | | | | | | |
| 280 | 6 | PIPE3-1/2STD | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 1.00 | 28002.0 | 1672664 | 921499 | -203.94 | -362.24 | 11729 | |
| 8 -0.2060 | | | | | | | | | | | | | | | |
| OK | 0.15 | 0.00 | A500-50 | 344.738 | 7 | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 500425 | +1.5E+7 | +1.5E+7 | 150128 | 150128 | +1.4E+ | |
| 7 1.97222 | | | | | | | | | | | | | | | |
| 281 | 6 | PIPE3-1/2STD | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 1.00 | 26431.3 | 1729027 | 958155 | -60.716 | -134.84 | 11729 | |
| 8 -0.2243 | | | | | | | | | | | | | | | |
| OK | 0.15 | 0.00 | A500-50 | 344.738 | 7 | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 500425 | +1.5E+7 | +1.5E+7 | 150128 | 150128 | +1.4E+ | |
| 7 1.97222 | | | | | | | | | | | | | | | |
| 282 | 6 | PIPE3-1/2STD | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 1.00 | 26511.7 | 1729027 | 958155 | 35.5270 | 149.176 | 11729 | |
| 8 -0.2240 | | | | | | | | | | | | | | | |
| OK | 0.15 | 0.00 | A500-50 | 344.738 | 7 | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 500425 | +1.5E+7 | +1.5E+7 | 150128 | 150128 | +1.4E+ | |
| 7 1.97222 | | | | | | | | | | | | | | | |
| 283 | 6 | PIPE3-1/2STD | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 1.00 | 20941.7 | 1666452 | 938856 | 191.438 | 375.276 | 11729 | |
| 8 -0.2053 | | | | | | | | | | | | | | | |
| OK | 0.15 | 0.00 | A500-50 | 344.738 | 7 | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 500425 | +1.5E+7 | +1.5E+7 | 150128 | 150128 | +1.4E+ | |
| 7 1.97222 | | | | | | | | | | | | | | | |
| 284 | 6 | PIPE3-1/2STD | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 1.00 | 21024.4 | 1441622 | 813112 | 262.017 | 538.760 | 11729 | |
| 8 -0.1681 | | | | | | | | | | | | | | | |
| OK | 0.13 | 0.00 | A500-50 | 344.738 | 7 | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 500425 | +1.5E+7 | +1.5E+7 | 150128 | 150128 | +1.4E+ | |
| 7 1.97222 | | | | | | | | | | | | | | | |
| 285 | 6 | PIPE3-1/2STD | 710.000 | 710.000 | 1.00 | 1.00 | 1.00 | 1.00 | 11084.3 | 1098372 | 630258 | 416.401 | 756.971 | 11729 | |

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
8 -0.1132
  OK  0.09  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       286     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 11167.4  605152  350797 494.081 905.295  11729
8 -0.0419
  OK  0.06  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       287     3 HSS6X.500              597.656 597.656 1.00 1.00 1.00 1.00  -25839  657699 -1.0E+7  -17349 -1641.6 0.0000
0       -
  OK  0.15  0.04 A500-50   344.738   13 597.656 597.656      1.00 1.00 1.00 1602401 +7.3E+7 +7.3E+7  485813  485813 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       288     3 HSS6X.500              597.656 597.656 1.00 1.00 1.00 1.00  -21430 1109622 -1.1E+7  -18969 -2206.1 0.0000
0       -
  OK  0.16  0.04 A500-50   344.738   13 597.656 597.656      1.00 1.00 1.00 1602401 +7.3E+7 +7.3E+7  485813  485813 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       289     3 HSS6X.500              597.656 597.656 1.00 1.00 1.00 1.00  -25839  657699 -1.0E+7 17349.0 -1641.6 0.0000
0       -
  OK  0.15  0.04 A500-50   344.738   13 597.656 597.656      1.00 1.00 1.00 1602401 +7.3E+7 +7.3E+7  485813  485813 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
==========================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
==========================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
==========================================================================================================================================
=========
       290     8 HSS6X.500E             601.620 601.620 1.00 1.00 1.00 1.00 -226884 -1.5E+7 -9.1E+7  -19727 21622.6 953514
8       -
  OK  0.88  0.03 A500-50   344.738   13 601.620 601.620      1.00 1.00 1.00 2550770 +1.1E+8 +1.1E+8  774321  774321 +1.0E+
8       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       291     8 HSS6X.500E             601.620 601.620 1.00 1.00 1.00 1.00 -322466 -2.2E+7 -9.9E+7  -21323 34765.1 +1.0E+
7       -
  OK  0.99  0.04 A500-50   344.738   13 601.620 601.620      1.00 1.00 1.00 2550770 +1.1E+8 +1.1E+8  774321  774321 +1.0E+
8       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       292     8 HSS6X.500E             601.620 601.620 1.00 1.00 1.00 1.00 -226884 -1.5E+7 -9.1E+7 19727.4 21622.6 953514
8       -
  OK  0.88  0.03 A500-50   344.738   13 601.620 601.620      1.00 1.00 1.00 2550770 +1.1E+8 +1.1E+8  774321  774321 +1.0E+
8       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       293     3 HSS6X.500              597.656 597.656 1.00 1.00 1.00 1.00  -26759 -630929 -2.1E+7  -17892 2589.64 0.0000
0       -
  OK  0.30  0.04 A500-50   344.738   13 597.656 597.656      1.00 1.00 1.00 1602401 +7.3E+7 +7.3E+7  485813  485813 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       294     3 HSS6X.500              597.656 597.656 1.00 1.00 1.00 1.00  -22603 -586166 -2.3E+7  -19511 3540.80 0.0000
0       -
  OK  0.32  0.04 A500-50   344.738   13 597.656 597.656      1.00 1.00 1.00 1602401 +7.3E+7 +7.3E+7  485813  485813 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       295     3 HSS6X.500              597.656 597.656 1.00 1.00 1.00 1.00  -26759 -630929 -2.1E+7 17891.8 2589.64 0.0000
0       -
  OK  0.30  0.04 A500-50   344.738   13 597.656 597.656      1.00 1.00 1.00 1602401 +7.3E+7 +7.3E+7  485813  485813 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       296     1 PIPE2STD               500.507 500.507 1.00 1.00 1.00 1.00 -8337.1 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    2 500.507 500.507      1.00 1.00 1.00  195116 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       297     1 PIPE2STD               500.507 500.507 1.00 1.00 1.01 1.00  -13429 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738    2 500.507 500.507      1.00 1.01 1.00  195116 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       298     1 PIPE2STD               500.507 500.507 1.00 1.00 1.00 1.00 -8337.1 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    2 500.507 500.507      1.00 1.00 1.00  195116 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       299     3 HSS6X.500              628.200 628.200 1.00 1.00 1.00 1.00  102493 -203589 +2.5E+7 12579.8 -2064.1 839287
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
8       -
  OK  0.38  0.03 A500-50   344.738    9 628.200 628.200      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------
---------
       300     3 HSS6X.500              628.200 628.200 1.00 1.00 1.00 1.00  154819 -376073 -2.5E+7  -12464 -2969.1 843277
5       -
  OK  0.39  0.03 A500-50   344.738   14 628.200 628.200      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------
---------
       301     3 HSS6X.500              628.200 628.200 1.00 1.00 1.00 1.00  102493 -203589 +2.5E+7  -12580 -2064.1 839287
8       -
  OK  0.38  0.03 A500-50   344.738    9 628.200 628.200      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------
---------
       302     3 HSS6X.500              597.656 597.656 1.00 1.00 1.00 1.00  -66004  134794 -3.2E+7  -18408 -1591.0 0.0000
0       -
  OK  0.46  0.04 A500-50   344.738   13 597.656 597.656      1.00 1.00 1.00 1602401 +7.3E+7 +7.3E+7  485813  485813 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------
---------
       303     3 HSS6X.500              597.656 597.656 1.00 1.00 1.00 1.00  -73053  625456 -3.5E+7  -20025 -2594.3 0.0000
0       -
  OK  0.50  0.04 A500-50   344.738   13 597.656 597.656      1.00 1.00 1.00 1602401 +7.3E+7 +7.3E+7  485813  485813 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
--------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
============================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
============================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
--------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
============================================================================================================================================
=========
       304     3 HSS6X.500              597.656 597.656 1.00 1.00 1.00 1.00  -66004  134794 -3.2E+7 18408.1 -1591.0 0.0000
0       -
  OK  0.46  0.04 A500-50   344.738   13 597.656 597.656      1.00 1.00 1.00 1602401 +7.3E+7 +7.3E+7  485813  485813 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       305     8 HSS6X.500E             601.620 601.620 1.00 1.00 1.00 1.00 -178677 -3.0E+6 -7.9E+7  -19569 -834.11 953514
8       -
  OK  0.75  0.03 A500-50   344.738   13 601.620 601.620      1.00 1.00 1.00 2550770 +1.1E+8 +1.1E+8  774321  774321 +1.0E+
8       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       306     8 HSS6X.500E             601.620 601.620 1.00 1.00 1.00 1.00 -243347 -4.4E+6 -8.6E+7  -21170 1576.97 +1.0E+
7       -
  OK  0.83  0.03 A500-50   344.738   13 601.620 601.620      1.00 1.00 1.00 2550770 +1.1E+8 +1.1E+8  774321  774321 +1.0E+
8       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       307     8 HSS6X.500E             601.620 601.620 1.00 1.00 1.00 1.00 -178677 -3.0E+6 -7.9E+7 19568.5 -834.11 953514
8       -
  OK  0.76  0.03 A500-50   344.738   13 601.620 601.620      1.00 1.00 1.00 2550770 +1.1E+8 +1.1E+8  774321  774321 +1.0E+
8       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       308     1 PIPE2STD               780.967 780.967 1.00 1.00 1.10 1.00  -78941 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.43  0.00 A500-50   344.738   11 780.967 780.967      1.00 1.10 1.00  182819 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       309     1 PIPE2STD               780.967 780.967 1.00 1.00 1.16 1.00 -118124 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.65  0.00 A500-50   344.738    2 780.967 780.967      1.00 1.16 1.00  182819 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       310     1 PIPE2STD               780.967 780.967 1.00 1.00 1.10 1.00  -78941 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.43  0.00 A500-50   344.738   11 780.967 780.967      1.00 1.10 1.00  182819 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       311     3 HSS6X.500              471.190 471.190 1.00 1.00 1.00 1.00  -67745 -1.1E+6 -4.1E+7  -18726 3017.18 155493
3       -
  OK  0.58  0.04 A500-50   344.738   13 471.190 471.190      1.00 1.00 1.00 1608804 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       312     3 HSS6X.500              471.190 471.190 1.00 1.00 1.00 1.00  -75437 -1.3E+6 -4.5E+7  -20340 4938.61 169569
3       -
  OK  0.64  0.04 A500-50   344.738   13 471.190 471.190      1.00 1.00 1.00 1608804 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       313     3 HSS6X.500              471.190 471.190 1.00 1.00 1.00 1.00  -67745 -1.1E+6 -4.1E+7 18725.5 3017.18 155493
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
3       -
  OK  0.58  0.04 A500-50   344.738   13 471.190 471.190      1.00 1.00 1.00 1608804 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
       314     3 HSS6X.500              471.190 471.190 1.00 1.00 1.00 1.00 -116595 -212512 -5.0E+7  -18995 -2190.6 155493
3       -
  OK  0.72  0.04 A500-50   344.738   13 471.190 471.190      1.00 1.00 1.00 1608804 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
       315     3 HSS6X.500              471.190 471.190 1.00 1.00 1.00 1.00 -146674  112144 -5.4E+7  -20606 -3624.6 169569
3       -
  OK  0.79  0.04 A500-50   344.738   13 471.190 471.190      1.00 1.00 1.00 1608804 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
       316     3 HSS6X.500              471.190 471.190 1.00 1.00 1.00 1.00 -116595 -212512 -5.0E+7 18994.8 -2190.6 155493
3       -
  OK  0.72  0.04 A500-50   344.738   13 471.190 471.190      1.00 1.00 1.00 1608804 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
       317     3 HSS6X.500              471.190 471.190 1.00 1.00 1.00 1.00 -116885 -695203 -5.9E+7  -19175 1260.31 155493
3       -
  OK  0.84  0.04 A500-50   344.738   13 471.190 471.190      1.00 1.00 1.00 1608804 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
--------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
============================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
============================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
--------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
============================================================================================================================================
=========
       318     3 HSS6X.500              471.190 471.190 1.00 1.00 1.00 1.00 -147113 -660836 -6.4E+7  -20784 2075.75 169569
3       -
  OK  0.93  0.04 A500-50   344.738   13 471.190 471.190      1.00 1.00 1.00 1608804 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       319     3 HSS6X.500              471.190 471.190 1.00 1.00 1.00 1.00 -116885 -695203 -5.9E+7 19174.9 1260.31 155493
3       -
  OK  0.85  0.04 A500-50   344.738   13 471.190 471.190      1.00 1.00 1.00 1608804 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       320     8 HSS6X.500E             471.190 471.190 1.00 1.00 1.00 1.00 -178597 -3.1E+6 -6.8E+7  -19379 5863.61 155493
3       -
  OK  0.65  0.03 A500-50   344.738   13 471.190 471.190      1.00 1.00 1.00 2562441 +1.1E+8 +1.1E+8  774321  774321 +1.0E+
8       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       321     8 HSS6X.500E             471.190 471.190 1.00 1.00 1.00 1.00 -243280 -4.0E+6 -7.4E+7  -20984 8462.67 169569
3       -
  OK  0.72  0.03 A500-50   344.738   13 471.190 471.190      1.00 1.00 1.00 2562441 +1.1E+8 +1.1E+8  774321  774321 +1.0E+
8       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       322     8 HSS6X.500E             471.190 471.190 1.00 1.00 1.00 1.00 -178597 -3.1E+6 -6.8E+7 19378.6 5863.61 155493
3       -
  OK  0.66  0.03 A500-50   344.738   13 471.190 471.190      1.00 1.00 1.00 2562441 +1.1E+8 +1.1E+8  774321  774321 +1.0E+
8       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       325     1 PIPE2STD               500.024 500.024 1.00 1.00 1.00 1.00 -6265.7 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    2 500.024 500.024      1.00 1.00 1.00  195133 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       326     1 PIPE2STD               500.024 500.024 1.00 1.00 1.01 1.00  -10609 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738    2 500.024 500.024      1.00 1.01 1.00  195133 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       327     1 PIPE2STD               500.024 500.024 1.00 1.00 1.00 1.00 -6265.7 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    2 500.024 500.024      1.00 1.00 1.00  195133 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       328     1 PIPE2STD               773.463 773.463 1.00 1.00 1.00 1.00 52245.3 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.26  0.00 A500-50   344.738    7 773.463 773.463      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       329     1 PIPE2STD               773.463 773.463 1.00 1.00 1.00 1.00 73773.6 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.36  0.00 A500-50   344.738    2 773.463 773.463      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       330     1 PIPE2STD               773.463 773.463 1.00 1.00 1.00 1.00 52245.3 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.26  0.00 A500-50   344.738    7 773.463 773.463      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       331     3 HSS6X.500              905.613 905.613 1.00 1.00 1.00 1.00  -10819 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   11 905.613 905.613      1.00 1.00 1.00 1580665 +7.3E+7 +7.3E+7 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       332     4 PIPE2STD              1150.75 1150.75 1.00 1.00 1.03 1.00  -12438 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.04  0.00 A500-50   344.738   11 1150.75 1150.75      1.00 1.03 1.00  160630 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       333     4 PIPE2STD               905.613 905.613 1.00 1.00 1.00 1.00 198.578 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 905.613 905.613      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | | | | |
|---|---|---|---|---|
| MIDAS | Company | | Client | |
| | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
==========================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
==========================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK   COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
==========================================================================================================================================
=========
       334     4 PIPE2STD               1150.75 1150.75 1.00 1.00 1.00 1.00 11114.7 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738    9 1150.75 1150.75      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       335     4 PIPE2STD               905.613 905.613 1.00 1.00 1.00 1.00 -962.42 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   11 905.613 905.613      1.00 1.00 1.00  175988 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       336     4 PIPE2STD               1150.75 1150.75 1.00 1.00 1.03 1.00  -10508 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738   13 1150.75 1150.75      1.00 1.03 1.00  160630 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       337     4 PIPE2STD               905.613 905.613 1.00 1.00 1.00 1.00 159.077 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    7 905.613 905.613      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       338     4 PIPE2STD               1150.75 1150.75 1.00 1.00 1.00 1.00 9365.05 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    9 1150.75 1150.75      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       339     4 PIPE2STD               905.613 905.613 1.00 1.00 1.00 1.00 -1222.6 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   11 905.613 905.613      1.00 1.00 1.00  175988 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       340     4 PIPE2STD               1150.75 1150.75 1.00 1.00 1.02 1.00 -8713.4 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738   13 1150.75 1150.75      1.00 1.02 1.00  160630 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       341     4 PIPE2STD               905.613 905.613 1.00 1.00 1.00 1.00 157.940 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    7 905.613 905.613      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       342     4 PIPE2STD               1150.75 1150.75 1.00 1.00 1.00 1.00 8536.76 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    9 1150.75 1150.75      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       343     4 PIPE2STD               905.613 905.613 1.00 1.00 1.00 1.00 -1183.2 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.00  0.00 A500-50   344.738   11 905.613 905.613      1.00 1.00 1.00  175988 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       344     4 PIPE2STD               1150.75 1150.75 1.00 1.00 1.02 1.00 -8362.3 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738   13 1150.75 1150.75      1.00 1.02 1.00  160630 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       345     4 PIPE2STD               905.613 905.613 1.00 1.00 1.00 1.00 139.463 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    7 905.613 905.613      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       346     4 PIPE2STD               1150.75 1150.75 1.00 1.00 1.00 1.00 8661.14 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    7 1150.75 1150.75      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       347     4 PIPE2STD               905.613 905.613 1.00 1.00 1.00 1.00 -863.58 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   11 905.613 905.613      1.00 1.00 1.00  175988 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
---------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
=============================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
=============================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
---------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK   COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
=============================================================================================================================================
=========
       348     4 PIPE2STD               1150.75 1150.75 1.00 1.00 1.02 1.00 -8786.6 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738   11 1150.75 1150.75      1.00 1.02 1.00  160630 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       349     4 PIPE2STD               905.613 905.613 1.00 1.00 1.00 1.00 -204.81 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   11 905.613 905.613      1.00 1.00 1.00  175988 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       350     4 PIPE2STD               1150.75 1150.75 1.00 1.00 1.00 1.00 9155.91 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    7 1150.75 1150.75      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       351     3 HSS6X.500              905.613 905.613 1.00 1.00 1.00 1.00  -18719 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738   12 905.613 905.613      1.00 1.00 1.00 1580665 +7.3E+7 +7.3E+7 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       352     4 PIPE2STD               1150.75 1150.75 1.00 1.00 1.00 1.00 9155.91 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    7 1150.75 1150.75      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       353     4 PIPE2STD               905.613 905.613 1.00 1.00 1.00 1.00 -204.81 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   11 905.613 905.613      1.00 1.00 1.00  175988 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       354     4 PIPE2STD               1150.75 1150.75 1.00 1.00 1.02 1.00 -8786.6 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738   11 1150.75 1150.75      1.00 1.02 1.00  160630 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       355     4 PIPE2STD               905.613 905.613 1.00 1.00 1.00 1.00 -863.58 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   11 905.613 905.613      1.00 1.00 1.00  175988 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       356     4 PIPE2STD               1150.75 1150.75 1.00 1.00 1.00 1.00 8661.14 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    7 1150.75 1150.75      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       357     4 PIPE2STD               905.613 905.613 1.00 1.00 1.00 1.00 139.463 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.00  0.00 A500-50   344.738    7 905.613 905.613      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       358     4 PIPE2STD               1150.75 1150.75 1.00 1.00 1.02 1.00 -8362.3 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738   13 1150.75 1150.75      1.00 1.02 1.00  160630 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       359     4 PIPE2STD               905.613 905.613 1.00 1.00 1.00 1.00 -1183.2 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   11 905.613 905.613      1.00 1.00 1.00  175988 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       360     4 PIPE2STD               1150.75 1150.75 1.00 1.00 1.00 1.00 8536.76 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    9 1150.75 1150.75      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       361     4 PIPE2STD               905.613 905.613 1.00 1.00 1.00 1.00 157.940 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    7 905.613 905.613      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ] Gen 2024

*.PROJECT :
*.UNIT SYSTEM : N, mm

[ AISC(15th)-LRFD16 ] CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.

| MEMB | SECT | Section | Len | Ly | Cb | Ky | B1y | B2y | Pr | Mry | Mrz | Vry | Vrz | Tr | Def |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHK | COM | SHR | Material | Fy | LCB | Lb | Lz | Kz | B1z | B2z | Pc | Mcy | Mcz | Vcy | Vcz | Tc | Defa |
| 362 | 4 | PIPE2STD | 1150.75 | 1150.75 | 1.00 | 1.00 | 1.02 | 1.00 | -8713.4 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | 0 |
| OK | 0.03 | 0.00 | A500-50 | 344.738 | 13 | 1150.75 | 1150.75 | 1.00 | 1.02 | 1.00 | 160630 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 | 0 |
| 363 | 4 | PIPE2STD | 905.613 | 905.613 | 1.00 | 1.00 | 1.00 | 1.00 | -1222.6 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | 0 |
| OK | 0.00 | 0.00 | A500-50 | 344.738 | 11 | 905.613 | 905.613 | 1.00 | 1.00 | 1.00 | 175988 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 | 0 |
| 364 | 4 | PIPE2STD | 1150.75 | 1150.75 | 1.00 | 1.00 | 1.00 | 1.00 | 9365.05 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | 0 |
| OK | 0.02 | 0.00 | A500-50 | 344.738 | 9 | 1150.75 | 1150.75 | 1.00 | 1.00 | 1.00 | 204173 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 | 0 |
| 365 | 4 | PIPE2STD | 905.613 | 905.613 | 1.00 | 1.00 | 1.00 | 1.00 | 159.077 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | 0 |
| OK | 0.00 | 0.00 | A500-50 | 344.738 | 7 | 905.613 | 905.613 | 1.00 | 1.00 | 1.00 | 204173 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 | 0 |
| 366 | 4 | PIPE2STD | 1150.75 | 1150.75 | 1.00 | 1.00 | 1.03 | 1.00 | -10508 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | 0 |
| OK | 0.03 | 0.00 | A500-50 | 344.738 | 13 | 1150.75 | 1150.75 | 1.00 | 1.03 | 1.00 | 160630 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 | 0 |
| 367 | 4 | PIPE2STD | 905.613 | 905.613 | 1.00 | 1.00 | 1.00 | 1.00 | -962.42 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | 0 |
| OK | 0.00 | 0.00 | A500-50 | 344.738 | 11 | 905.613 | 905.613 | 1.00 | 1.00 | 1.00 | 175988 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 | 0 |
| 368 | 4 | PIPE2STD | 1150.75 | 1150.75 | 1.00 | 1.00 | 1.00 | 1.00 | 11114.7 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | 0 |
| OK | 0.03 | 0.00 | A500-50 | 344.738 | 9 | 1150.75 | 1150.75 | 1.00 | 1.00 | 1.00 | 204173 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 | 0 |
| 369 | 4 | PIPE2STD | 905.613 | 905.613 | 1.00 | 1.00 | 1.00 | 1.00 | 198.578 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | 0 |
| OK | 0.00 | 0.00 | A500-50 | 344.738 | 9 | 905.613 | 905.613 | 1.00 | 1.00 | 1.00 | 204173 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 | 0 |
| 370 | 4 | PIPE2STD | 1150.75 | 1150.75 | 1.00 | 1.00 | 1.03 | 1.00 | -12438 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | 0 |
| OK | 0.04 | 0.00 | A500-50 | 344.738 | 11 | 1150.75 | 1150.75 | 1.00 | 1.03 | 1.00 | 160630 | 3625119 | 3625119 | 0.00000 | 0.00000 | 0.0000 | 0 |
| 371 | 3 | HSS6X.500 | 905.613 | 905.613 | 1.00 | 1.00 | 1.00 | 1.00 | -10819 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.0000 | |

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.00  0.00 A500-50   344.738   11 905.613 905.613      1.00 1.00 1.00 1580665 +7.3E+7 +7.3E+7 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       372     3 HSS6X.500              628.200 628.200 1.00 1.00 1.00 1.00  103852 -249766 +3.3E+7 13021.3 -243.57 840561
1       -
  OK  0.48  0.03 A500-50   344.738    9 628.200 628.200      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
       373     3 HSS6X.500              628.200 628.200 1.00 1.00 1.00 1.00  156510 -422070 -3.2E+7  -11973 -299.99 839132
0       -
  OK  0.49  0.02 A500-50   344.738   14 628.200 628.200      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
       374     3 HSS6X.500              628.200 628.200 1.00 1.00 1.00 1.00  103852 -249766 +3.3E+7  -13021 -243.57 840561
1       -
  OK  0.48  0.03 A500-50   344.738    9 628.200 628.200      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
       375     1 PIPE2STD               500.162 500.162 1.00 1.00 1.02 1.00  -49458 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.25  0.00 A500-50   344.738   11 500.162 500.162      1.00 1.02 1.00  195128 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | | | | |
|---|---|---|---|---|
| MIDAS | Company | | Client | |
| | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
==========================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
==========================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK   COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
==========================================================================================================================================
=========
       376     1 PIPE2STD               523.507 523.507 1.00 1.00 1.00 1.00 -1881.2 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   11 523.507 523.507      1.00 1.00 1.00  194285 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       377     4 PIPE2STD               868.482 868.482 1.00 1.00 1.02 1.00  -12496 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.04  0.00 A500-50   344.738   13 868.482 868.482      1.00 1.02 1.00  178100 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       378     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 256.589 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   21 500.162 500.162      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       379     4 PIPE2STD               868.482 868.482 1.00 1.00 1.00 1.00 10500.0 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738    9 868.482 868.482      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       380     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 -709.14 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   13 500.162 500.162      1.00 1.00 1.00  195128 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       381     4 PIPE2STD               868.482 868.482 1.00 1.00 1.01 1.00 -8398.8 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738   13 868.482 868.482      1.00 1.01 1.00  178100 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       382     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 571.574 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 500.162 500.162      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       383     4 PIPE2STD               868.482 868.482 1.00 1.00 1.01 1.00 -8557.9 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738   13 868.482 868.482      1.00 1.01 1.00  178100 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       384     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 -1076.0 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   13 500.162 500.162      1.00 1.00 1.00  195128 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       385     4 PIPE2STD               868.482 868.482 1.00 1.00 1.00 1.00 8419.74 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.02  0.00 A500-50   344.738    9 868.482 868.482      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       386     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 605.898 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 500.162 500.162      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       387     4 PIPE2STD               868.482 868.482 1.00 1.00 1.02 1.00  -11437 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738   13 868.482 868.482      1.00 1.02 1.00  178100 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       388     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 -1082.9 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   13 500.162 500.162      1.00 1.00 1.00  195128 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       389     4 PIPE2STD               868.482 868.482 1.00 1.00 1.00 1.00 11235.0 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738    9 868.482 868.482      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
--------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
============================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
============================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
--------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK   COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
============================================================================================================================================
=========
       390     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 585.243 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 500.162 500.162      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       391     4 PIPE2STD               868.482 868.482 1.00 1.00 1.02 1.00  -14421 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.04  0.00 A500-50   344.738   13 868.482 868.482      1.00 1.02 1.00  178100 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       392     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 -620.03 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   13 500.162 500.162      1.00 1.00 1.00  195128 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       393     4 PIPE2STD               868.482 868.482 1.00 1.00 1.00 1.00 13284.6 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738    9 868.482 868.482      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       394     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 836.640 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 500.162 500.162      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       395     4 PIPE2STD               868.482 868.482 1.00 1.00 1.03 1.00  -18767 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.05  0.00 A500-50   344.738   13 868.482 868.482      1.00 1.03 1.00  178100 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       396     1 PIPE2STD               500.162 500.162 1.00 1.00 1.04 1.00  -76091 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.39  0.00 A500-50   344.738    2 500.162 500.162      1.00 1.04 1.00  195128 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       397     1 PIPE2STD               523.507 523.507 1.00 1.00 1.00 1.00 -5855.4 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    2 523.507 523.507      1.00 1.00 1.00  194285 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       398     4 PIPE2STD               868.482 868.482 1.00 1.00 1.03 1.00  -18767 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.05  0.00 A500-50   344.738   13 868.482 868.482      1.00 1.03 1.00  178100 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       399     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 836.640 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.00  0.00 A500-50   344.738    9 500.162 500.162      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       400     4 PIPE2STD               868.482 868.482 1.00 1.00 1.00 1.00 13284.6 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738    9 868.482 868.482      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       401     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 -620.03 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   13 500.162 500.162      1.00 1.00 1.00  195128 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       402     4 PIPE2STD               868.482 868.482 1.00 1.00 1.02 1.00  -14421 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.04  0.00 A500-50   344.738   13 868.482 868.482      1.00 1.02 1.00  178100 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       403     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 585.243 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 500.162 500.162      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | | | | |
|---|---|---|---|---|
| MIDAS | Company | | Client | |
| | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
==========================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
==========================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK   COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
==========================================================================================================================================
=========
       404     4 PIPE2STD               868.482 868.482 1.00 1.00 1.00 1.00 11235.0 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738    9 868.482 868.482      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       405     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 -1082.9 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   13 500.162 500.162      1.00 1.00 1.00  195128 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       406     4 PIPE2STD               868.482 868.482 1.00 1.00 1.02 1.00  -11437 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738   13 868.482 868.482      1.00 1.02 1.00  178100 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       407     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 605.898 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 500.162 500.162      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       408     4 PIPE2STD               868.482 868.482 1.00 1.00 1.00 1.00 8419.74 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    9 868.482 868.482      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       409     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 -1076.0 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   13 500.162 500.162      1.00 1.00 1.00  195128 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       410     4 PIPE2STD               868.482 868.482 1.00 1.00 1.01 1.00 -8557.9 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738   13 868.482 868.482      1.00 1.01 1.00  178100 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       411     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 571.574 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738    9 500.162 500.162      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       412     4 PIPE2STD               868.482 868.482 1.00 1.00 1.01 1.00 -8398.8 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738   13 868.482 868.482      1.00 1.01 1.00  178100 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       413     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 -709.14 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.00  0.00 A500-50   344.738   13 500.162 500.162      1.00 1.00 1.00  195128 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       414     4 PIPE2STD               868.482 868.482 1.00 1.00 1.00 1.00 10500.0 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738    9 868.482 868.482      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       415     4 PIPE2STD               500.162 500.162 1.00 1.00 1.00 1.00 256.589 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   21 500.162 500.162      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       416     4 PIPE2STD               868.482 868.482 1.00 1.00 1.02 1.00  -12496 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.04  0.00 A500-50   344.738   13 868.482 868.482      1.00 1.02 1.00  178100 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       417     1 PIPE2STD               500.162 500.162 1.00 1.00 1.02 1.00  -49458 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.25  0.00 A500-50   344.738   11 500.162 500.162      1.00 1.02 1.00  195128 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
==========================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
==========================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK   COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
==========================================================================================================================================
=========
       418     1 PIPE2STD               523.507 523.507 1.00 1.00 1.00 1.00 -1881.2 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.00  0.00 A500-50   344.738   11 523.507 523.507      1.00 1.00 1.00  194285 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       419     1 PIPE2STD               597.742 597.742 1.00 1.00 1.02 1.00  -31651 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.08  0.00 A500-50   344.738    2 597.742 597.742      1.00 1.02 1.00  191378 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       420     1 PIPE2STD               597.742 597.742 1.00 1.00 1.04 1.00  -55324 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.29  0.00 A500-50   344.738    2 597.742 597.742      1.00 1.04 1.00  191378 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       421     1 PIPE2STD               597.742 597.742 1.00 1.00 1.02 1.00  -31651 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.08  0.00 A500-50   344.738    2 597.742 597.742      1.00 1.02 1.00  191378 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       422     1 PIPE2STD               684.911 684.911 1.00 1.00 1.00 1.00 18011.2 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.04  0.00 A500-50   344.738    2 684.911 684.911      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       423     1 PIPE2STD               684.911 684.911 1.00 1.00 1.00 1.00 20656.1 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.05  0.00 A500-50   344.738    2 684.911 684.911      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       424     1 PIPE2STD               684.911 684.911 1.00 1.00 1.00 1.00 18011.2 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.04  0.00 A500-50   344.738    2 684.911 684.911      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       425     1 PIPE2STD               523.067 523.067 1.00 1.00 1.00 1.00 -3782.5 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738    2 523.067 523.067      1.00 1.00 1.00  194302 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       426     1 PIPE2STD               523.067 523.067 1.00 1.00 1.00 1.00 -5351.5 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738    2 523.067 523.067      1.00 1.00 1.00  194302 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       427     1 PIPE2STD               523.067 523.067 1.00 1.00 1.00 1.00 -3782.5 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.01  0.00 A500-50   344.738    2 523.067 523.067      1.00 1.00 1.00  194302 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       428     1 PIPE2STD               570.183 570.183 1.00 1.00 1.00 1.00 24264.6 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.06  0.00 A500-50   344.738    2 570.183 570.183      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       429     1 PIPE2STD               570.183 570.183 1.00 1.00 1.00 1.00 43829.7 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.21  0.00 A500-50   344.738    2 570.183 570.183      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       430     1 PIPE2STD               570.183 570.183 1.00 1.00 1.00 1.00 24264.6 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.06  0.00 A500-50   344.738    2 570.183 570.183      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
       431     1 PIPE2STD               890.213 890.213 1.00 1.00 1.04 1.00  -22431 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.06  0.00 A500-50   344.738    2 890.213 890.213      1.00 1.04 1.00  176872 3625119 3625119 0.00000 0.00000 0.0000
0       -
-------------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
--------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
============================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
============================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
--------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK   COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
============================================================================================================================================
=========
       432     1 PIPE2STD               890.213 890.213 1.00 1.00 1.05 1.00  -29551 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.08  0.00 A500-50   344.738    2 890.213 890.213      1.00 1.05 1.00  176872 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       433     1 PIPE2STD               890.213 890.213 1.00 1.00 1.04 1.00  -22431 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.06  0.00 A500-50   344.738    2 890.213 890.213      1.00 1.04 1.00  176872 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       436     1 PIPE2STD               500.008 500.008 1.00 1.00 1.00 1.00 -6941.9 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    2 500.008 500.008      1.00 1.00 1.00  195134 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       437     1 PIPE2STD               500.008 500.008 1.00 1.00 1.01 1.00  -11819 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738    2 500.008 500.008      1.00 1.01 1.00  195134 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       438     1 PIPE2STD               500.008 500.008 1.00 1.00 1.00 1.00 -6941.9 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    2 500.008 500.008      1.00 1.00 1.00  195134 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       439     1 PIPE2STD               522.874 522.874 1.00 1.00 1.00 1.00 -6809.1 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    2 522.874 522.874      1.00 1.00 1.00  194309 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       440     1 PIPE2STD               522.874 522.874 1.00 1.00 1.01 1.00  -11058 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738    2 522.874 522.874      1.00 1.01 1.00  194309 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       441     1 PIPE2STD               522.874 522.874 1.00 1.00 1.00 1.00 -6809.1 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    2 522.874 522.874      1.00 1.00 1.00  194309 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       442     1 PIPE2STD               703.870 703.870 1.00 1.00 1.00 1.00 32508.9 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.08  0.00 A500-50   344.738    2 703.870 703.870      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       443     1 PIPE2STD               703.870 703.870 1.00 1.00 1.00 1.00 46463.9 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.23  0.00 A500-50   344.738    2 703.870 703.870      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------
---------
       444     1 PIPE2STD               703.870 703.870 1.00 1.00 1.00 1.00 32508.9 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.08  0.00 A500-50   344.738    2 703.870 703.870      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------
---------
       445     1 PIPE2STD               796.569 796.569 1.00 1.00 1.07 1.00  -56406 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.31  0.00 A500-50   344.738    2 796.569 796.569      1.00 1.07 1.00  182005 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------
---------
       446     1 PIPE2STD               796.569 796.569 1.00 1.00 1.13 1.00  -95302 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.52  0.00 A500-50   344.738    2 796.569 796.569      1.00 1.13 1.00  182005 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------
---------
       447     1 PIPE2STD               796.569 796.569 1.00 1.00 1.07 1.00  -56406 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.31  0.00 A500-50   344.738    2 796.569 796.569      1.00 1.07 1.00  182005 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
==========================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
==========================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
==========================================================================================================================================
=========
       448     3 HSS6X.500              595.024 595.024 1.00 1.00 1.00 1.00  202464 -3.1E+6 +4.1E+7  -13743 -6287.3 552671
9       -
  OK  0.63  0.03 A500-50   344.738    9 595.024 595.024      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       449     3 HSS6X.500              595.024 595.024 1.00 1.00 1.00 1.00  300735 -5.1E+6 -4.0E+7  -13087 -9637.6 554695
4       -
  OK  0.65  0.03 A500-50   344.738   14 595.024 595.024      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       450     3 HSS6X.500              595.024 595.024 1.00 1.00 1.00 1.00  202464 -3.1E+6 +4.1E+7 13742.8 -6287.3 552671
9       -
  OK  0.62  0.03 A500-50   344.738    9 595.024 595.024      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       451     1 PIPE2STD               522.929 522.929 1.00 1.00 1.00 1.00 -7719.1 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    2 522.929 522.929      1.00 1.00 1.00  194307 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       452     1 PIPE2STD               522.929 522.929 1.00 1.00 1.01 1.00  -11493 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738    2 522.929 522.929      1.00 1.01 1.00  194307 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       453     1 PIPE2STD               522.929 522.929 1.00 1.00 1.00 1.00 -7719.1 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    2 522.929 522.929      1.00 1.00 1.00  194307 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       454     1 PIPE2STD               790.749 790.749 1.00 1.00 1.04 1.00  -33310 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.09  0.00 A500-50   344.738    2 790.749 790.749      1.00 1.04 1.00  182310 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       455     1 PIPE2STD               790.749 790.749 1.00 1.00 1.06 1.00  -50411 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.28  0.00 A500-50   344.738    2 790.749 790.749      1.00 1.06 1.00  182310 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       456     1 PIPE2STD               790.749 790.749 1.00 1.00 1.04 1.00  -33310 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.09  0.00 A500-50   344.738    2 790.749 790.749      1.00 1.04 1.00  182310 3625119 3625119 0.00000 0.00000 0.0000
0       -
------------------------------------------------------------------------------------------------------------------------------------------
---------
       457     1 PIPE2STD               511.582 511.582 1.00 1.00 1.00 1.00 -6699.3 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.02  0.00 A500-50   344.738    2 511.582 511.582      1.00 1.00 1.00  194720 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       458     1 PIPE2STD               511.582 511.582 1.00 1.00 1.01 1.00  -11452 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.03  0.00 A500-50   344.738    2 511.582 511.582      1.00 1.01 1.00  194720 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       459     1 PIPE2STD               511.582 511.582 1.00 1.00 1.00 1.00 -6699.3 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    2 511.582 511.582      1.00 1.00 1.00  194720 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       460     1 PIPE2STD               655.839 655.839 1.00 1.00 1.00 1.00 43268.6 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.21  0.00 A500-50   344.738    2 655.839 655.839      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       461     1 PIPE2STD               655.839 655.839 1.00 1.00 1.00 1.00 68031.8 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.33  0.00 A500-50   344.738    2 655.839 655.839      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
--------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
============================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
============================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
--------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
============================================================================================================================================
=========
       462     1 PIPE2STD               655.839 655.839 1.00 1.00 1.00 1.00 43268.6 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.21  0.00 A500-50   344.738    2 655.839 655.839      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       463     1 PIPE2STD               503.936 503.936 1.00 1.00 1.00 1.00 -3009.8 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738    2 503.936 503.936      1.00 1.00 1.00  194994 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       464     1 PIPE2STD               503.936 503.936 1.00 1.00 1.00 1.00 -5269.8 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738    2 503.936 503.936      1.00 1.00 1.00  194994 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       465     1 PIPE2STD               503.936 503.936 1.00 1.00 1.00 1.00 -3009.8 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738    2 503.936 503.936      1.00 1.00 1.00  194994 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       466     1 PIPE2STD               495.924 495.924 1.00 1.00 1.00 1.00 -5024.5 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738    2 495.924 495.924      1.00 1.00 1.00  195278 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       467     1 PIPE2STD               722.369 722.369 1.00 1.00 1.05 1.00  -48688 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.26  0.00 A500-50   344.738    2 722.369 722.369      1.00 1.05 1.00  185759 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       468     1 PIPE2STD               495.924 495.924 1.00 1.00 1.00 1.00 -8972.5 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.02  0.00 A500-50   344.738    2 495.924 495.924      1.00 1.00 1.00  195278 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       469     1 PIPE2STD               722.369 722.369 1.00 1.00 1.08 1.00  -78470 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.42  0.00 A500-50   344.738    2 722.369 722.369      1.00 1.08 1.00  185759 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       470     1 PIPE2STD               495.924 495.924 1.00 1.00 1.00 1.00 -5024.5 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.01  0.00 A500-50   344.738    2 495.924 495.924      1.00 1.00 1.00  195278 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       471     1 PIPE2STD               722.369 722.369 1.00 1.00 1.05 1.00  -48688 0.00000 0.00000 0.00000 0.00000 0.0000
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
0       -
  OK  0.26  0.00 A500-50   344.738    2 722.369 722.369      1.00 1.05 1.00  185759 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------
---------
       472     1 PIPE2STD               714.478 714.478 1.00 1.00 1.00 1.00 49619.0 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.24  0.00 A500-50   344.738    2 714.478 714.478      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------
---------
       473     1 PIPE2STD               714.478 714.478 1.00 1.00 1.00 1.00 82346.5 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.40  0.00 A500-50   344.738    2 714.478 714.478      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------
---------
       474     1 PIPE2STD               714.478 714.478 1.00 1.00 1.00 1.00 49619.0 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.24  0.00 A500-50   344.738    2 714.478 714.478      1.00 1.00 1.00  204173 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------
---------
       475     1 PIPE2STD               500.341 500.341 1.00 1.00 1.01 1.00 -16896 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.04  0.00 A500-50   344.738    2 500.341 500.341      1.00 1.01 1.00  195122 3625119 3625119 0.00000 0.00000 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
--------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
============================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
============================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
--------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
============================================================================================================================================
=========
       476     1 PIPE2STD              500.341 500.341 1.00 1.00 1.01 1.00  -26000 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.07  0.00 A500-50   344.738    2 500.341 500.341      1.00 1.01 1.00  195122 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       477     1 PIPE2STD              500.341 500.341 1.00 1.00 1.01 1.00  -16896 0.00000 0.00000 0.00000 0.00000 0.0000
0       -
  OK  0.04  0.00 A500-50   344.738    2 500.341 500.341      1.00 1.01 1.00  195122 3625119 3625119 0.00000 0.00000 0.0000
0       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       480     3 HSS6X.500             595.024 595.024 1.00 1.00 1.00 1.00  202580 -4.9E+6 +4.8E+7  -13267 -3942.4 531371
1       -
  OK  0.72  0.03 A500-50   344.738    9 595.024 595.024      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       481     3 HSS6X.500             595.024 595.024 1.00 1.00 1.00 1.00  301097 -8.4E+6 -5.0E+7  -20103 -6937.8 596283
3       -
  OK  0.79  0.04 A500-50   344.738   14 595.024 595.024      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       482     3 HSS6X.500             595.024 595.024 1.00 1.00 1.00 1.00  202580 -4.9E+6 +4.8E+7 13267.3 -3942.4 531371
0       -
  OK  0.72  0.03 A500-50   344.738    9 595.024 595.024      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       483     6 PIPE3-1/2STD          710.000 710.000 1.00 1.00 1.00 1.00 4124.18 3026123 1786378 -2516.0 -4583.2  11491
5 -0.1837
  OK  0.23  0.03 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       484     6 PIPE3-1/2STD          710.000 710.000 1.00 1.00 1.00 1.00 -918.04 5479685 3205059 -2006.6 -3778.8  11491
5 -0.4908
  OK  0.41  0.03 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       485     6 PIPE3-1/2STD          710.000 710.000 1.00 1.00 1.00 1.00 -728.01 7340459 4256446 -1483.3 -2942.8  11491
5 -0.7334
  OK  0.55  0.02 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       486     6 PIPE3-1/2STD          710.000 710.000 1.00 1.00 1.00 1.00 -6770.7 8421856 4908924 -920.33 -1840.6  11491
5 -0.8979
  OK  0.64  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       487     6 PIPE3-1/2STD          710.000 710.000 1.00 1.00 1.00 1.00 -6597.9 8819886 5095103 -265.44 -882.06  11491
```

```
5 -0.9805
  OK  0.67  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       488     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -14183 8824777 5097905 337.503 952.492  11491
5 -0.9785
  OK  0.68  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       489     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -14264 8377125 4860222 973.572 1892.35  11491
5 -0.8924
  OK  0.64  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       490     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -22170 7265851 4171289 1517.22 2945.37  11491
5 -0.7266
  OK  0.57  0.02 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       491     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -22365 5400783 3093282 2009.21 3721.75  11491
5 -0.4861
  OK  0.43  0.02 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
```

```
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                          Gen 2024

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm

   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.

      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      Tr     Def
 CHK   COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      Tc    Defa
       492     6 PIPE3-1/2STD          710.000 710.000 1.00 1.00 1.00 1.00  -20189 2982857 1665754 2342.48 4515.53  114915 -0.1824
  OK  0.24  0.03 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+7 1.97222
       493     6 PIPE3-1/2STD          710.000 710.000 1.00 1.00 1.00 1.00  -20189 2982857 1665754 -2342.5 -4515.5  114915 -0.1824
  OK  0.24  0.03 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+7 1.97222
       494     6 PIPE3-1/2STD          710.000 710.000 1.00 1.00 1.00 1.00  -22365 5400783 3093282 -2009.2 -3721.8  114915 -0.4861
  OK  0.43  0.02 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+7 1.97222
       495     6 PIPE3-1/2STD          710.000 710.000 1.00 1.00 1.00 1.00  -22170 7265851 4171289 -1517.2 -2945.4  114915 -0.7266
  OK  0.57  0.02 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+7 1.97222
       496     6 PIPE3-1/2STD          710.000 710.000 1.00 1.00 1.00 1.00  -14264 8377125 4860221 -973.57 -1892.3  114915 -0.8924
  OK  0.64  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+7 1.97222
       497     6 PIPE3-1/2STD          710.000 710.000 1.00 1.00 1.00 1.00  -14183 8824777 5097905 -337.50 -952.49  114915 -0.9785
  OK  0.68  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+7 1.97222
       498     6 PIPE3-1/2STD          710.000 710.000 1.00 1.00 1.00 1.00 -6597.9 8819886 5095103 265.440 882.057  114915 -0.9805
  OK  0.67  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+7 1.97222
       499     6 PIPE3-1/2STD          710.000 710.000 1.00 1.00 1.00 1.00 -6770.7 8421856 4908924 920.334 1840.64  114915 -0.8979
  OK  0.64  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+7 1.97222
       500     6 PIPE3-1/2STD          710.000 710.000 1.00 1.00 1.00 1.00 -728.01 7340459 4256446 1483.29 2942.76  114915 -0.7334
  OK  0.55  0.02 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+7 1.97222
       501     6 PIPE3-1/2STD          710.000 710.000 1.00 1.00 1.00 1.00 -918.04 5479685 3205059 2006.63 3778.76  11491
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
5 -0.4908
  OK  0.41  0.03 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       502     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 4124.18 3026123 1786378 2516.02 4583.18  11491
5 -0.1837
  OK  0.23  0.03 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       503     3 HSS6X.500              608.736 608.736 1.00 1.00 1.00 1.00 8888.05  742993 -5.5E+6 8996.16 -1856.7 0.0000
0       -
  OK  0.08  0.02 A500-50   344.738   14 608.736 608.736      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       504     3 HSS6X.500              608.736 608.736 1.00 1.00 1.00 1.00 15847.0 1076581 -6.7E+6  -11071 -1919.8 0.0000
0       -
  OK  0.10  0.02 A500-50   344.738   14 608.736 608.736      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
       505     3 HSS6X.500              608.736 608.736 1.00 1.00 1.00 1.00 9712.50  948062 5476284 -8996.2 -1856.7 0.0000
0       -
  OK  0.08  0.02 A500-50   344.738    9 608.736 608.736      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 0.0000
0       -
---------------------------------------------------------------------------------------------------------------------------
---------
```

```
--------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                          Gen 2024
============================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
============================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
--------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
============================================================================================================================================
=========
       506     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 11579.1  114360 2058207 2898.88 -872.95 73246.
5 0.01750
  OK  0.15  0.02 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       507     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -11310  510356 3793569 2498.92 1015.66 73246.
5 -0.0461
  OK  0.26  0.02 A500-50   344.738    8 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       508     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -11387  668759 5219892 2053.55 -676.44 73246.
5 -0.0779
  OK  0.35  0.01 A500-50   344.738    8 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       509     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -5775.1  806654 6098968 1281.17 608.674 73246.
5 -0.0935
  OK  0.41  0.01 A500-50   344.738    8 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       510     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -83.633  879813 6525459 509.870 -629.23 73246.
5 -0.1035
  OK  0.43  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       512     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 4723.85  879812 6525450 -485.70 541.399 73246.
5 -0.1020
  OK  0.43  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       513     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 4618.32  825416 6199578 -1262.4 -712.52 73246.
5 -0.0921
  OK  0.41  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       514     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 19953.3  701312 5313818 -2047.8 659.833 73246.
5 -0.0748
  OK  0.37  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       515     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 19867.8  526338 3865168 -2490.2 -1256.6 73246.
5 0.05146
  OK  0.27  0.02 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
--------------------------------------------------------------------------------------------------------------------------------------------
---------
       516     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -5210.3 -624852 -2.1E+6 -2962.8 -1200.8 73246.
```

```
5 0.02950
  OK  0.15  0.02 A500-50   344.738   11 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       517     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 40568.0 11674.1 2103622 2962.85 -1200.8 73246.
5 0.02950
  OK  0.18  0.02 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       518     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 19867.8  526338 3865168 2490.17 1256.56 73246.
5 0.05146
  OK  0.27  0.02 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       519     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 19953.3  701312 5313818 2047.79 -659.83 73246.
5 -0.0748
  OK  0.37  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
       520     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 4618.32  825416 6199578 1262.37 712.519 73246.
5 -0.0921
  OK  0.41  0.01 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
---------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
=============================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
=============================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
---------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
=============================================================================================================================================
=========
       521     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 4723.85  879812 6525450 485.700 -541.40 73246.
5 -0.1020
  OK  0.43  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       523     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -83.633  879813 6525459 -509.87 629.232 73246.
5 -0.1035
  OK  0.43  0.00 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       524     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 -5775.1  806654 6098968 -1281.2 -608.67 73246.
5 -0.0935
  OK  0.41  0.01 A500-50   344.738    8 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       525     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -11387  668759 5219892 -2053.5 676.444 73246.
5 -0.0779
  OK  0.35  0.01 A500-50   344.738    8 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       526     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00  -11310  510356 3793569 -2498.9 -1015.7 73246.
5 -0.0461
  OK  0.26  0.02 A500-50   344.738    8 710.000 710.000      1.00 1.00 1.00  484754 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       527     6 PIPE3-1/2STD           710.000 710.000 1.00 1.00 1.00 1.00 11579.1  114360 2058207 -2898.9 872.952 73246.
5 0.01750
  OK  0.15  0.02 A500-50   344.738    7 710.000 710.000      1.00 1.00 1.00  500425 +1.5E+7 +1.5E+7  150128  150128 +1.4E+
7 1.97222
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       528     3 HSS6X.500              340.273 340.273 1.00 1.00 1.00 1.00  237028 -4.9E+6 +4.8E+7 20680.8 -552.02 318707
3       -
  OK  0.73  0.04 A500-50   344.738    9 340.273 340.273      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       529     3 HSS6X.500              608.736 608.736 1.00 1.00 1.00 1.00 9728.39  447742 -8.6E+6 -7386.9 844.785  42819
3       -
  OK  0.12  0.02 A500-50   344.738   14 608.736 608.736      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       530     3 HSS6X.500              340.273 340.273 1.00 1.00 1.00 1.00  350100 -8.4E+6 -5.1E+7  -27462 1005.87 356276
6       -
  OK  0.84  0.06 A500-50   344.738   14 340.273 340.273      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       531     3 HSS6X.500              608.736 608.736 1.00 1.00 1.00 1.00 17842.3  725349 -8.7E+6 -4605.9 898.017  30881
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
9       -
  OK  0.13  0.01 A500-50   344.738   14 608.736 608.736      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
       532     3 HSS6X.500              340.273 340.273 1.00 1.00 1.00 1.00  237028 -4.9E+6 +4.8E+7  -20681 -552.02 318707
3       -
  OK  0.74  0.04 A500-50   344.738    9 340.273 340.273      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
       533     3 HSS6X.500              608.736 608.736 1.00 1.00 1.00 1.00 10963.2  529304 8588865 7386.85 844.785  42819
3       -
  OK  0.12  0.02 A500-50   344.738    9 608.736 608.736      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
       536     3 HSS6X.500              276.943 276.943 1.00 1.00 1.00 1.00  212329 -4.9E+6 +4.2E+7 20550.2 4915.77 318707
3       -
  OK  0.64  0.04 A500-50   344.738    9 276.943 276.943      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
       537     3 HSS6X.500              276.943 276.943 1.00 1.00 1.00 1.00  307627 -8.2E+6 -4.2E+7  -27323 8514.54 356276
6       -
  OK  0.69  0.06 A500-50   344.738   14 276.943 276.943      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
---------------------------------------------------------------------------------------------
 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
=============================================================================================

 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
=============================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
---------------------------------------------------------------------------------------------------------------------------------------------
---------
      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
=============================================================================================================================================
=========
       538     3 HSS6X.500              276.943 276.943 1.00 1.00 1.00 1.00  212329 -4.9E+6 +4.2E+7  -20550 4915.77 318707
3       -
  OK  0.64  0.04 A500-50   344.738    9 276.943 276.943      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       539     3 HSS6X.500              608.736 608.736 1.00 1.00 1.00 1.00 40848.2 -262970 9902237 -6325.5 1781.38  37632
5       -
  OK  0.15  0.01 A500-50   344.738    9 608.736 608.736      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       540     3 HSS6X.500              608.736 608.736 1.00 1.00 1.00 1.00 51371.2 -212420 -1.0E+7 -5746.8 1911.49  25210
9       -
  OK  0.15  0.01 A500-50   344.738   14 608.736 608.736      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       541     3 HSS6X.500              608.736 608.736 1.00 1.00 1.00 1.00 40848.2 -262970 9996421 6325.51 1781.38  37632
5       -
  OK  0.15  0.01 A500-50   344.738    9 608.736 608.736      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       546     3 HSS6X.500              608.736 608.736 1.00 1.00 1.00 1.00 42979.8  106658 +1.1E+7 -7685.0 -986.47  43866
6       -
  OK  0.17  0.02 A500-50   344.738    9 608.736 608.736      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       547     3 HSS6X.500              608.736 608.736 1.00 1.00 1.00 1.00 54548.2  313030 -1.1E+7 -7166.4 -1134.8  47073
5       -
  OK  0.17  0.01 A500-50   344.738   14 608.736 608.736      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       548     3 HSS6X.500              608.736 608.736 1.00 1.00 1.00 1.00 42979.8  106658 +1.1E+7 7685.01 -986.47  43866
6       -
  OK  0.16  0.02 A500-50   344.738    9 608.736 608.736      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       549     3 HSS6X.500              617.216 617.216 1.00 1.00 1.00 1.00  212132 -3.8E+6 +3.7E+7 20280.0 7870.82 306867
5       -
  OK  0.58  0.04 A500-50   344.738    9 617.216 617.216      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       550     3 HSS6X.500              617.216 617.216 1.00 1.00 1.00 1.00  307463 -6.3E+6 -3.6E+7  -20293 12523.5 386853
1       -
  OK  0.60  0.04 A500-50   344.738   14 617.216 617.216      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
---------------------------------------------------------------------------------------------------------------------------------------------
---------
       551     3 HSS6X.500              617.216 617.216 1.00 1.00 1.00 1.00  212132 -3.8E+6 +3.7E+7  -20280 7870.82 306867
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

```
5       -
  OK  0.57  0.04 A500-50   344.738    9 617.216 617.216      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
------------------------------------------------------------------------------------------------------------------------
---------
       554     3 HSS6X.500              515.740 515.740 1.00 1.00 1.00 1.00 87677.8 -642190 +1.3E+7 9553.74 2025.60  85255
2 0.00411
  OK  0.20  0.02 A500-50   344.738    9 515.740 515.740      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7 1.43261
------------------------------------------------------------------------------------------------------------------------
---------
       555     3 HSS6X.500              515.740 515.740 1.00 1.00 1.00 1.00  114966 -845758 -1.3E+7  -10015 2774.97  79103
2 0.00330
  OK  0.21  0.02 A500-50   344.738   14 515.740 515.740      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7 1.43261
------------------------------------------------------------------------------------------------------------------------
---------
       556     3 HSS6X.500              515.740 515.740 1.00 1.00 1.00 1.00 87677.8 -642190 +1.3E+7 -9553.7 2025.60  85255
2 0.00411
  OK  0.20  0.02 A500-50   344.738    9 515.740 515.740      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7 1.43261
------------------------------------------------------------------------------------------------------------------------
---------
       559     3 HSS6X.500              515.740 515.740 1.00 1.00 1.00 1.00 89299.2 -436124 +1.5E+7 12208.7 -691.32  96055
4 0.00713
  OK  0.24  0.03 A500-50   344.738    9 515.740 515.740      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7 1.43261
------------------------------------------------------------------------------------------------------------------------
---------
```

**PROJECT TITLE :**

| | Company | | Client | |
|---|---|---|---|---|
| MIDAS | Author | Ing. Osvaldo Guzman Avila | File Name | P046-2024-MOD-004.acs |

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 midas Gen - Steel Code Checking[ AISC(15th)-LRFD16 ]                        Gen 2024
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 *.PROJECT     :
 *.UNIT SYSTEM : N, mm
================================================================================================================================================
=========
   [ AISC(15th)-LRFD16 ]  CODE CHECKING SUMMARY SHEET --- SELECTED MEMBERS IN ANALYSIS MODEL.
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      MEMB  SECT Section                    Len      Ly   Cb   Ky  B1y  B2y      Pr     Mry     Mrz     Vry     Vrz      T
r     Def
 CHK    COM   SHR Material       Fy  LCB      Lb      Lz        Kz  B1z  B2z      Pc     Mcy     Mcz     Vcy     Vcz      T
c    Defa
================================================================================================================================================
=========
       560     3 HSS6X.500              515.740 515.740 1.00 1.00 1.00 1.00  117559 -562361 -1.5E+7  -12391 -758.50  79078
3 0.00786
  OK  0.25  0.03 A500-50   344.738   14 515.740 515.740      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7 1.43261
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       561     3 HSS6X.500              515.740 515.740 1.00 1.00 1.00 1.00 89299.2 -436124 +1.5E+7  -12209 -691.32  96055
4 0.00713
  OK  0.24  0.03 A500-50   344.738    9 515.740 515.740      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7 1.43261
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       562     3 HSS6X.500              525.240 525.240 1.00 1.00 1.00 1.00  145837 -962162 +2.0E+7  -15090 1469.16 112630
4 0.00938
  OK  0.32  0.03 A500-50   344.738    9 525.240 525.240      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7 1.45900
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       565     3 HSS6X.500              525.240 525.240 1.00 1.00 1.00 1.00  201991 -1.4E+6 -2.0E+7  -14795 1991.22  93655
7 0.01138
  OK  0.34  0.03 A500-50   344.738   14 525.240 525.240      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7 1.45900
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       568     3 HSS6X.500              525.240 525.240 1.00 1.00 1.00 1.00  145837 -962162 +2.0E+7 15089.7 1469.16 112630
4 0.00938
  OK  0.32  0.03 A500-50   344.738    9 525.240 525.240      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7 1.45900
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       569     3 HSS6X.500              506.275 506.275 1.00 1.00 1.00 1.00  146344 -103019 +2.7E+7  -18394 -2391.3 131589
6       -
  OK  0.42  0.04 A500-50   344.738    9 506.275 506.275      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
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       570     3 HSS6X.500              506.275 506.275 1.00 1.00 1.00 1.00  202786  -45182 -2.6E+7  -16415 -3163.5  73397
1       -
  OK  0.42  0.03 A500-50   344.738   14 506.275 506.275      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
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       571     3 HSS6X.500              506.275 506.275 1.00 1.00 1.00 1.00  146344 -103019 +2.7E+7 18393.7 -2391.3 131589
6       -
  OK  0.41  0.04 A500-50   344.738    9 506.275 506.275      1.00 1.00 1.00 1619376 +7.3E+7 +7.3E+7  485813  485813 +6.8E+
7       -
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